

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

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by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER¹

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1993

¹USGS, Denver, Colorado

EARTHQUAKE DATA REPORT

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

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

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Bayesian 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 $20^\circ \leq \Delta \leq 160^\circ$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_{sz} calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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- Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.
- Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105-1130.

APR 01, 1993 01h 00m 30.90±0.67s
61.433 N ± 5.7km 6.144 E ± 6.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.1 (BER).

HYA 0.27 176 iPc 00 37.73 1.2
eS 00 41.79
FOO 0.55 288 eP 00 42.32 0.2
eS 00 50.73
SUE 0.77 241 eP 00 45.88 0.0
eS 00 56.96
ASK 1.06 206 eP 00 50.67 -0.2
eS 01 04.09
EGD 1.25 201 eP 00 53.57 -0.5
eS 01 10.37
MOL 1.32 30 eP 00 55.16 -0.1
eS 01 11.64
ODD1 1.54 171 eP 00 57.67 -0.9
eS 01 17.43
NRA0 2.71 103 ePn 01 15.45 0.1
ePg 01 20.12
eSn 01 50.32
eLg 01 59.62
S.D. = 0.7 on 8 of 8 obs.

* APR 01, 1993 01h 04m 54.31±1.10s
37.646 N ± 10.2km 21.403 E ± 7.4km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH), 3.4 (THE).

VLS 0.83 310 ePb 05 09.20 -1.2
VLI 1.54 127 ePb 05 21.50 -0.3
AGG 1.56 28 ePb 05 20.74 -1.3
eSb 05 43.50
ATH 1.86 79 ePn 05 27.30 0.8
eSn 05 54.50
LIT 2.59 19 ePn 05 38.94 1.9
KZN 2.67 6 ePn 05 38.30 0.1
PAIG 2.89 37 ePn 05 40.30 -0.9
GRG 3.40 13 ePn 05 49.34 0.9
OHR 3.49 352 iPn 05 49.20 -0.6
SOH 3.51 25 ePn 05 49.98 -0.1
KNT 3.70 18 ePn 05 53.34 0.6
VAY 3.78 13 ePn 05 54.70 0.9
SRS 3.86 25 ePn 05 54.42 -0.6
ROI 4.25 298 P 06 09.50 9.0X
SOI 4.25 277 P 06 46.50 45.9X
SKO 4.32 0 ePn 06 05.00 3.5X
i 07 10.50
MGR 5.20 300 P 06 15.90 2.0
SGO 5.56 303 P 06 19.40 0.3
eSn 07 10.70
HFS 23.04 350 eP 09 57.70 -2.6
0.4s 0.90nm 3.7mb
S.D. = 1.3 on 16 of 19 obs.

APR 01, 1993 01h 25m 27.56±0.35s
39.928 N ± 3.8km 19.696 E ± 2.9km
DEPTH = 5.5 ± 2.7 km
3.5mb (1 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.5 (THE), MD 3.7 (ATH).

KEK 0.23 160 ePg 25 32.00 -0.2
SRN 0.24 102 iPgd 25 31.50 -0.9
iSg 25 35.80
TPE 0.44 33 ePg 25 32.00 -4.4X
iSg 25 38.50
VLO 0.56 344 iPgd 25 39.30 0.5
iSg 25 47.00
IGT 0.63 129 iPg 25 39.41 -0.8
eSg 25 50.80
KBN 1.09 50 iPgc 25 48.00 -0.4
iSg 26 03.50
LCI 1.40 287 P 25 52.70 -0.9
TIR 1.42 5 ePn 25 53.50 -0.5
iSn 26 16.00
OHR 1.45 35 iPn 25 53.50 -0.9
iSn 26 15.70
FNA 1.54 56 ePb 25 56.62 0.9
eSb 26 18.44
KZN 1.64 76 ePb 25 57.80 0.7
LACI 1.71 0 ePn 25 58.00 0.0

VLS 1.88 158 iSn 26 20.50
ePb 26 01.00 0.4
BRT 2.13 297 P 26 06.90 2.7X
eSn 26 34.00
LIT 2.15 85 ePn 26 05.44 0.9
eSn 26 35.24
AGG 2.23 113 ePn 26 06.72 1.0
eSn 26 35.16
GRG 2.31 63 iPn 26 06.60 -0.2
SKO 2.43 32 iPn 26 08.00 -0.5
iPb 26 12.00
i 26 16.80
iSn 26 36.40
iSg 26 44.10
ROI 2.44 263 P 26 08.50 -0.2
eSn 26 48.60
VAY 2.59 57 iPn 26 10.50 -0.3
THE 2.60 73 ePn 26 10.44 -0.4
CSI 2.63 268 P 26 13.50 2.2X
KNT 2.73 62 ePn 26 12.28 -0.6
MMN 2.85 270 P 26 24.50 10.0X
SOH 2.93 71 ePn 26 15.64 -0.1
PAIG 3.06 89 iPn 26 16.44 -1.0
MGR 3.19 275 P 26 19.50 0.3
SRS 3.20 67 ePn 26 20.04 0.6
SOI 3.39 238 Pc 26 19.90 -2.2
eSn 26 57.90

SGO 3.42 282 P 26 22.40 -0.1
ATH 3.69 121 ePg 26 36.50 10.1X
VLI 4.09 140 ePn 26 34.00 1.9
DUI 4.34 295 P 26 37.40 1.7
SDI 4.80 294 P 26 42.80 0.5
VBY 6.46 331 ePn 27 01.50 -4.1X
CEY 6.98 328 ePn 27 08.00 -4.9X
eSn 28 26.00
VOY 7.44 327 ePn 27 14.10 -5.2X
eSn 28 35.70
GEC2 9.89 336 P 27 46.70 -6.7X
e 27 54.20
NB2 21.78 349 P 30 16.80 -5.1X
0.8s 1.50nm 3.5mb
S.D. = 0.9 on 29 of 39 obs.

* APR 01, 1993 01h 49m 20.48±2.73s
43.963 N ± 14.7km 8.425 E ± 14.2km
DEPTH = 10.0km (geophysicist)
3.6mb (3 obs.)
CORSIKA (380)
ML 2.1 (GEN).

FIN 0.29 328 P 49 26.53 -0.1
S 49 30.51
IMI 0.39 262 P 49 28.08 -0.4
S 49 33.66
ROB 0.52 310 P 49 30.46 -0.5
S 49 37.65
PCP 0.58 8 P 49 32.29 -0.1
S 49 40.35
ENR 0.77 290 P 49 35.82 0.2
S 49 45.56
STV 0.84 290 P 49 37.19 0.4
S 49 47.39
PZZ 1.09 300 P 49 41.47 0.3
S 49 55.24
BHB 1.21 317 P 49 43.12 0.1
S.D. = 0.4 on 8 of 8 obs.

APR 01, 1993 02h 23m 37.02±0.72s
40.072 N ± 6.3km 21.225 E ± 6.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (THE).

FNA 0.72 9 ePg 23 50.44 -0.8
eSg 24 01.76
IGT 0.87 232 ePg 23 53.84 0.0
eSg 24 07.80
LIT 0.97 88 ePg 23 54.44 -1.1
eSg 24 09.68
OHR 1.09 343 iPg 23 57.60 0.1
iSg 24 15.20
GRG 1.26 45 iPb 23 59.92 -0.5
eSb 24 18.32
AGG 1.35 140 ePb 24 01.80 -0.1
iSb 24 19.68
KNT 1.68 49 ePb 24 07.48 1.0
SOH 1.79 65 ePb 24 09.56 1.4
PAIG 1.89 94 ePb 24 09.68 0.1

SKO 1.90 5 ePn 24 04.00 -5.8X
S.D. = 0.9 on 9 of 10 obs.

? APR 01, 1993 02h 33m 51.18±8.32s
47.200 N ± 21.6km 4.665 E ± 53.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

LBF 0.52 246 Pg 34 01.70 0.0
Sg 34 07.10
LOR 0.55 277 Pg 34 02.70 0.3
Sg 34 08.80
SMF 0.79 226 Pg 34 06.80 0.2
Sg 34 16.20
SSF 0.80 261 Pg 34 06.30 -0.5
Sg 34 15.60
AVF 0.99 246 Pg 34 09.80 -0.1
Sg 34 20.50
S.D. = 0.4 on 5 of 5 obs.

% APR 01, 1993 03h 05m 48.65±2.57s
40.698 N ± 11.6km 30.322 E ± 17.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

EYL 0.18 224 iPg 05 52.70 0.3
GPA 0.41 181 ePg 05 56.60 -0.3
eSg 06 02.10
HRT 0.51 284 iPg 05 59.10 0.2
eSg 06 05.70
YLV 0.73 260 iPg 06 02.70 -0.6
eSg 06 14.00
ISK 1.03 291 iPn 06 08.20 -0.3
KCT 1.57 254 ePn 06 17.70 0.5
BNT 1.86 260 ePn 06 21.30 -0.2
EDC 1.91 260 ePn 06 22.50 0.4
S.D. = 0.5 on 8 of 8 obs.

APR 01, 1993 04h 10m 11.15±0.39s
40.082 N ± 4.8km 19.553 E ± 3.6km
DEPTH = 10.0km (geophysicist)
3.6mb (3 obs.)
ALBANIA (391)
ML 3.7 (THE), MD 3.8 (ATH).

KEK 0.41 153 ePg 10 17.00 -2.6
IGT 0.81 132 ePg 10 30.96 4.0X
LCI 1.25 282 P 10 35.00 0.6
eSn 10 53.10
OHR 1.40 42 iPn 10 38.00 1.3
iSn 11 00.50
FNA 1.56 63 ePb 10 40.68 1.7
eSb 11 03.12
KZN 1.71 82 ePb 10 42.00 0.7
eSb 11 06.00
BRT 1.96 295 P 10 47.30 2.5X
eSn 11 15.10
VLS 2.07 157 ePg 10 46.80 0.5
LIT 2.25 89 ePn 10 50.24 1.2
eSn 11 20.00
GRG 2.34 67 ePn 10 50.52 0.2
ROI 2.35 258 P 10 51.00 0.5
SKO 2.37 36 iPn 10 52.30 1.7
0.6s 100.00nm
i 10 54.40
i 11 00.20
iSn 11 20.70
iSg 11 27.80

ORI 2.38 271 P 10 52.70 1.8
AGG 2.39 115 ePn 10 51.76 0.7
eSn 11 21.32
TDS 2.51 261 P 10 54.50 1.8
CSI 2.53 264 P 10 53.30 0.4
GRI 2.73 243 P 10 56.02 0.1
MMN 2.74 267 P 11 02.40 6.4X
KNT 2.76 66 iPn 10 56.56 0.2
SOH 2.99 74 ePn 10 59.76 0.2
MGR 3.07 272 P 11 02.40 1.9
SRS 3.24 70 ePn 11 03.56 0.4
SGO 3.28 280 P 11 05.00 1.4
SOI 3.38 235 Pc 11 04.50 -0.5
eSn 11 46.30
HVAR 3.87 324 ePn 11 11.80 -0.2
DUI 4.17 294 P 11 18.60 2.3
VLI 4.28 141 ePn 11 16.20 -1.7

01d 04h

MNO 4.35 242 P 11 19.40 0.4
SDI 4.64 292 P 11 25.90 2.9X
MEU 4.69 232 P 11 21.20 -2.5
PZI 4.74 231 P 11 20.65 -3.8X
AOU 5.16 298 P 11 29.50 -0.9
MNS 5.67 296 P 11 38.00 0.5
ASS 5.97 302 P 11 42.90 1.2
ARV 6.00 307 P 11 42.10 -0.1
VBY 6.27 331 ePnc 11 45.90 0.0
PTJ 6.38 337 eP 11 45.10 -2.5
CRE 6.69 304 P 11 52.60 0.6
CEY 6.79 328 ePn 11 52.60 -0.6

SFI 6.90 306 P 11 55.00 0.3
LJU 7.00 330 e(Pn) 11 57.50 1.4

TRI 7.05 325 e(Pn) 11 55.30 -1.5
VOY 7.25 327 iPnc 11 58.60 -1.1

RBL 7.71 327 P 12 04.70 -1.5
FVI 8.16 325 P 12 13.10 0.7

CTI 8.30 318 P 12 12.30 -2.2
KBA 8.32 329 e(Pn) 12 13.00 -1.7

LPG 10.85 304 eP 12 55.30 5.5X
LPL 10.87 304 eP 12 54.70 4.7X

HFS 20.41 352 eP 14 49.20 -1.5
NB2 21.61 349 P 15 00.80 -2.2

YKA 71.35 339 eP 21 31.30 -1.3
S.D. = 1.4 on 45 of 52 obs.

* APR 01, 1993 04h 33m 22.29±0.85s
6.780 S ±13.0km 145.257 E ±13.7km

DEPTH = 33.0km (normal)
4.3mb (2 obs.)

NEW GUINEA, PAPUA NEW GUINEA (202)

YYYY 0.89 53 eP 33 39.10 0.6
MDG 1.61 19 eP 33 48.40 -0.3

LAT 1.74 86 eP 33 50.20 -0.4
WB2 16.83 218 iPc 37 16.70 -0.5

ASPA 20.03 212 eP 37 56.00 0.6
S.D. = 0.8 on 5 of 5 obs.

? APR 01, 1993 05h 53m 19.49±2.26s
53.916 N ±23.3km 169.080 E ±24.2km

DEPTH = 33.0km (normal)
4.1mb (5 obs.)

KOMANDORSKY ISLANDS REGION (4)

SMY 3.24 109 eP 54 09.52 0.4
SVW 20.07 55 eP 57 53.50 1.0

TTA 20.14 50 eP 57 54.20 1.0
IMA 21.84 42 eP 58 11.17 0.6

PMR 23.22 54 e(P) 58 21.90 -2.1
FBA 24.02 46 eP 58 32.00 0.2

YKA 38.82 46 eP 00 41.50 -1.0
BW06 52.34 67 (P) 02 30.20 -0.1

SRU 54.32 71 eP 02 43.60 -1.3
PV09 55.52 70 (P) 02 54.70 0.9

NB2 64.05 348 P 03 52.20 0.5
S.D. = 1.1 on 11 of 11 obs.

APR 01, 1993 06h 11m 16.12±0.15s
19.923 S ±3.9km 177.538 W ±3.6km

DEPTH = 406.0km (14 depth phases)
5.4mb (68 obs.)

FIJI ISLANDS REGION (181)
Mw 5.7 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 37S, 75C

Centroid Location:

Origin Time 06:11:19.2 0.2

Lat 19.74S 0.03 Lon 177.46W 0.03

Dep 404.0 1.3 Half-duration 1.8

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-1.24 0.06 Mtt= 1.66 0.11

Mff=-0.43 0.11 Mrt=-1.31 0.11

Mrf=-1.62 0.11 Mtf=-3.62 0.09

Principal Axes:

T Val= 4.39 Plg= 1 Azm=217

N 0.10 57 126

P -4.48 33 307

Best Double Couple: Mo=4.4*10¹⁷ Nm

NP1: Strike=347 Dip=67 Slip= -24

NP2: 87 68 -155

SVA 4.19 295 ePd 12 31.30 0.4
MBU 4.61 309 iPc 12 35.20 0.1

DZM 15.11 259 iPc 14 32.00 0.2
KUZ 17.77 198 eP 14 59.60 0.9

HBZ 17.98 191 eP 15 00.40 -0.4
URZ 18.85 193 eP 15 10.00 0.7

WLZ 18.85 197 P 15 12.10 2.7X
NOZ 19.02 191 eP 15 12.70 1.7

WAHZ 20.40 194 eP 15 22.60 -1.8
MTW 21.98 194 eP 15 39.60 0.2

MRW 22.25 196 eP 15 39.90 -1.9
ORZ 22.50 200 eP 15 44.30 0.1

THZ 23.24 198 eP 15 51.20 0.2
DSZ 23.56 200 eP 15 52.80 -1.2

KHZ 23.66 197 eP 15 54.50 -0.3
HNR 24.12 292 eP 15 58.00 -1.2

LTZ 24.36 198 eP 15 59.30 -1.9
AFR 26.39 89 iPc 16 19.20 -0.4

PAE 26.55 90 iPc 16 20.80 -0.3
PPT 26.57 90 iPc 16 21.10 -0.2

BWZ 26.68 200 eP 16 19.20 -2.7X
PPN 26.71 90 iPc 16 22.30 -0.2

PMO 28.67 85 iPc 16 39.40 -0.3
VAH 28.87 86 iPc 16 40.70 -0.7

TPT 28.94 85 iPc 16 41.70 -0.3
RUV 29.11 86 iPc 16 42.90 -0.6

ARMA 29.71 243 iPc 16 51.90 3.0X
0.7s 101.00nm 5.3mb

RIV 31.03 237 eP 17 01.00 0.9
RMO 31.60 252 iPc 17 06.00 0.9

CNB 32.91 235 iPd 17 17.00 0.8
CAN 33.19 235 eP 17 19.00 0.4

BWA 33.38 237 eP 17 18.20 -1.9
CTA 33.98 263 P 17 26.00 0.7

CMS 34.81 243 iPc 17 32.60 0.5
PMG 35.64 282 eP 17 38.00 -1.3

OLP 35.64 252 iPc 17 39.50 0.3
FINC 36.09 287 eP 17 44.10 1.1

TOO 36.59 233 iPc 17 47.30 0.3

STK 0.6s 45.00nm 5.0mb
38.43 244 iPc 18 03.10 0.9

0.5s 34.10nm 4.9mb
ePcP 19 24.80

BFD 38.72 235 eP 18 06.20 1.7
ASPA 45.08 256 iPd 18 55.20 -0.5

0.8s 405.90nm 5.8mb
ipP 19 54.30 284kmX

ePcP 20 19.80
iS 25 01.60

WB2 45.10 261 iPc 18 54.70 -1.2
0.3s 154.80nm 5.8mb

WRA 45.11 261 P 18 55.00 -1.0
0.8s 17.50nm 4.5mb

MHA 45.14 29 eP 18 54.79 -1.3
DHH 45.26 26 eP 18 55.95 -1.1

HKL 45.44 28 (P) 18 57.44 -1.4
MTN 49.60 270 iPc 19 29.00 -1.4

FORT 49.92 246 eP 19 31.60 -1.0
TLE 50.32 279 ePc 19 35.90 0.1

KNA 51.11 266 eP 19 40.70 -0.9
0.4s 110.00nm 5.5mb

WARB 51.42 252 eP 19 42.70 -1.0
0.3s 24.00nm 5.0mb

AAI 55.25 280 ePd 20 10.30 -1.2
MBL 58.31 257 eP 20 31.60 -1.0

0.4s 69.00nm 5.4mb
MEEK 58.52 250 eP 20 32.00 -2.0

KLB 58.69 245 iPc 20 34.20 -0.9
0.7s 43.00nm 5.0mb

RKG 59.08 241 eP 20 37.50 -0.2
BAL 59.69 246 iPc 20 40.80 -1.1

MUN 59.97 244 iPd 20 43.20 -0.6
1.0s 60.00nm 5.0mb

MRWA 60.47 247 iPc 20 46.00 -1.1
0.5s 8.00nm 4.5mb

WSI 60.68 270 ePd 20 49.00 0.3
1.0s 4.00nm 3.9mb X

NANU 61.97 254 eP 20 56.70 -0.3
0.4s 27.00nm 5.1mb

PLP 64.46 293 ePc 21 11.00 -2.1
MAP 64.93 292 ePd 21 15.00 -1.2

KHKI 65.49 270 ePc 21 18.40 -1.4
e 24 36.00

TRT 68.49 269 ePd 21 35.50 -2.8
1.2s 8.50nm 4.3mb X

KAKJ 68.67 324 eP 21 38.50 -0.4
CHJJ 69.21 323 P 21 41.70 -0.5

SJI 69.30 269 ePd 21 45.20 2.0
e 24 52.00

TGY 69.32 294 iPd 21 33.50 -9.8X
IIDJ 69.42 322 P 21 42.70 -0.8

QCP 69.44 295 eP 21 38.00 -6.0X
WKYJ 69.91 320 P 21 46.30 -0.3

MAT 70.01 323 iPd 21 45.80 -1.2
0.9s 131.93nm 5.6mb

OFUJ 70.02 327 eP 21 46.60 -0.4
NIIJ 70.07 324 eP 21 46.90 -0.4

YAMJ 70.19 326 eP 21 47.70 -0.3
SPA 70.20 180 iPc 21 48.30 0.3

0.4s 38.16nm 5.4mb
MTMJ 70.26 323 P 21 47.70 -0.9

CVP 70.28 298 ePd 21 50.80 1.8

YSS	75.64	333	iPd-	22	18.90	-0.2	SRU	85.81	46	eP	23	12.94	0.6	YRC	146.29	8	ePKP	30	10.10	1.1
	1.0s	200.00nm			5.8mb															
		e		22	31.70	44kmX	DPW	85.83	35	eP	24	45.09	401km	YRH	146.69	8	ePKP	30	12.40	2.7X
		e		25	15.50									OJC	146.78	340	ePKP	30	12.60	2.7X
		iS		31	27.00		GYA	86.74	299	iPd	23	18.00	1.0	WIT	147.01	355	ePKP	30	15.00	4.9X
		e		31	50.00			1.2s	68.00nm			5.3mb		UZH	147.20	335	ePKP	30	11.50	0.9
		e		36	13.00				PP	26	46.00				1.2s	292.00nm				
QZH	76.46	303	iPd	22	24.50	0.4	TIY	87.22	312	eP	23	19.30	0.3			i		30	13.60	
	1.2s	250.00nm			5.8mb			1.2s	120.00nm			5.6mb		KSP	147.26	344	ePKP	30	11.60	0.9
		S		31	36.00		Z	18s	0.49um			5.0Msz			1.0s	560.00nm				
8CH	77.27	45	eP	22	29.79	1.2			SKS	33	07.00					ic		30	13.60	
SSE	77.65	310	iPd	22	31.00	0.5	LOE	87.48	289	eP	23	22.00	1.5	HCG	147.31	7	ePKP	30	13.10	2.4X
	1.5s	190.00nm			5.6mb		NNT	87.54	284	iPc	23	20.70	-0.1	BHL	147.45	302	PKP	30	13.00	1.4
Z	20s	0.50um			4.8Msz		F8A	87.59	12	eP	23	18.33	-1.7	HRI	147.56	301	iPKPd	30	15.60	3.7X
		ePP		25	30.00			0.9s	22.90nm			5.0mb		CLL	147.60	348	ePKP	30	12.00	0.8
		S		31	50.00		IMA	87.61	10	eP	23	19.27	-1.0		1.5s	145.00nm				
		SKS		32	06.00			1.1s	11.89nm			4.6mb				i		30	15.40	
PLM	78.44	48	eP	22	34.96	-0.1			eP	24	53.17	407km				pPKP		31	55.10	
PEC	78.53	48	eP	22	35.72	0.4	XAN	88.13	307	iPd	23	24.20	0.8	HTR	147.60	7	ePKP	30	13.70	2.5X
	0.9s	25.11nm			4.9mb			1.1s	110.00nm			5.6mb	HAE	147.71	6	ePKP	30	14.30	3.0X	
ISA	78.62	45	eP	22	36.21	0.4			SKS	33	10.00		BRG	147.81	346	iPKP	30	12.20	0.7	
	1.0s	18.12nm			4.7mb		8W06	88.25	43	eP	23	23.58	-0.4		2.0s	180.00nm				
		ePP		24	07.11	403km		1.2s	10.01nm			4.5mb				i		30	15.60	
ORV	78.96	41	eP	22	37.99	0.6			eP	24	57.43	406km				i		30	19.20	
		(pP)		24	12.18	419kmX	HMC	89.26	314	iPc	23	30.20	1.7			ipPKP		31	56.20	
GLA	79.72	49	eP	22	42.27	0.7		1.2s	100.00nm			5.5mb		WTS	147.81	355	ePKP	30	15.00	3.5X
		ePP		24	14.56	409km	KHT	89.35	286	iPd	23	31.30	2.0		1.0s	76.90nm				
LBFM	79.82	39	(P)	22	41.56	-0.6	KMI	89.47	297	Pd	23	31.50	1.5			e		32	01.00	
GZH	79.82	299	iPd	22	44.60	2.4		2.0s	310.00nm			5.8mb		HGH	148.08	6	ePKP	30	16.10	4.2X
NJ2	79.85	309	Pd	22	43.00	0.8			ScS	33	50.00		JVI	148.22	299	iPKPd	30	17.20	4.3X	
	1.2s	90.00nm			5.4mb		GOL	89.61	47	eP	23	31.01	0.6	FAM	148.40	305	e(PKP)	30	17.00	4.0X
		S		32	12.00			0.9s	5.31nm			4.4mb	PRU	148.49	345	ePKP	30	17.00	4.4X	
MDJ	80.30	325	eP	22	45.00	0.8			(pP)	25	04.00	405km			1.9s	122.10nm				
	1.1s	220.00nm			5.8mb		BTO	90.20	313	P	23	33.50	0.7			e		30	22.20	
		SKS		32	22.00		CHTO	90.46	290	iPd	23	36.00	1.7			e		30	35.00	
KGM	80.49	276	ePd	22	47.30	1.4		0.9s	63.94nm			5.5mb				e		32	05.00	
TNP	80.82	44	iPd	22	48.31	0.9	SES	91.15	36	eP	23	38.00	1.1	MOX	148.50	349	ePKP	30	13.60	0.9
	1.0s	12.36nm			4.6mb		YAK	91.72	338	iPd+	23	38.00	-1.2		1.9s	175.00nm				
		ePP		24	22.21	415km		1.5s	110.00nm			5.6mb				i		30	18.00	
TPNV	80.83	45	eP	22	48.41	1.0			eS	33	29.00					e		31	54.40	
	1.0s	12.05nm			4.6mb		RSSD	92.44	44	eP	23	43.25	0.0	EYL	148.66	317	ePKP	30	17.00	3.6X
DL2	81.61	316	eP	22	52.50	1.3		1.3s	18.90nm			4.9mb		CSS	148.93	305	ePKP	30	18.50	4.7X
	1.0s	110.00nm			5.5mb		LZH	92.76	307	Pd	23	46.40	1.6	MBH	149.08	295	iPKPd	30	19.20	4.9X
SNY	82.05	320	Pc	22	52.00	-1.3		1.5s	140.00nm			5.7mb		ENN	149.10	356	ePKP	30	19.00	5.5X
		iS		32	37.00				SKS	33	35.00				1.0s	40.00nm				
CN2	82.11	322	Pd	22	54.20	0.6	BOD	95.74	330	eP	23	56.50	-1.1			e		30	24.00	
	1.2s	200.00nm			5.7mb			1.7s	33.00nm			5.2mb				e		32	09.00	
		ePP		26	10.00		YKA	95.81	25	eP	23	56.50	-1.4	UCC	149.15	358	PKP	30	20.00	6.4X
		eSKS		32	34.00			0.9s	1.90nm			4.2mb X	SRO	149.35	339	ePKP	30	19.20	5.2X	
		eS		32	38.00		GTA	96.94	309	P	24	04.50	0.8	BUD	149.38	338	ePKP	30	19.00	4.9X
TUC	82.28	52	eP	22	56.09	1.2		1.0s	38.00nm			5.6mb	TNS	149.39	352	iPKPc	30	19.00	5.7X	
	0.9s	19.83nm			4.8mb		ZAK	98.46	321	eP	24	10.00	-0.1			e		30	25.90	
		ePP		24	28.51	406km		1.6s	17.00nm			5.1mb				e		32	10.40	
WHN	82.45	306	Pd	22	56.00	0.4			e	34	07.00		ZST	149.41	341	iPKP	30	18.20	4.1X	
	1.5s	200.00nm			5.6mb				ePS	37	15.00				i		32	11.30		
		pP		24	21.00	369kmX	MOY	100.27	321	ePd	24	10.10	-8.1X	SNF	149.44	358	PKP	30	20.90	6.9X
		S		32	36.00		WMO	106.88	311	ePd	24	48.00	0.0	GRF	149.48	349	ePKP	30	20.80	6.6X
SVW	82.66	11	eP	22	57.00	0.9		Z	16s	0.52um		5.2MszX				e		30	27.00	
SLKM	83.15	13	eP	22	57.18	-1.4	QUE	121.35	294	ePKP	29	26.40	2.5X			e		30	27.00	
ARUT	83.17	46	eP	22	59.56	0.2	SVE	123.76	326	ePKPc	29	27.00	-0.4	KHC	149.52	346	ePKP	30	15.50	1.2
GMW	83.18	34	eP	22	59.67	0.7			e	31	02.00			1.3s	75.40nm					
TJA	83.21	312	Pc	23	00.40	1.1	ARU	124.96	326	ePKPc	29	28.50	-1.3			e		30	19.50	
CP2	83.42	12	eP	22	58.62	-1.5		1.8s	100.00nm							e		30	26.00	
CRP	83.44	12	eP	22	58.28	-1.9			e	31	28.00		PPCY	149.71	306	e(PKP)	30	20.40	5.4X	
IPM	83.52	277	ePd	23	02.40	1.0	MAIO	127.83	301	iPKPc	29	35.80	-0.3	GEC2	149.76	345	e(PKP)	30	20.20	5.4X
	0.9s	182.30nm			5.8mb				i	31	30.00			1.0s	35.00nm					
MGD	83.79	345	iPc	23	01.50	-0.2	VAN	128.85	303	iPKPc	29	37.80	0.0			e		32	08.10	
	0.7s	50.00nm			5.4mb		BUL	132.65	214	ePKP	29	46.90	1.2	DOU	149.85	357	PKPc	30	21.20	6.5X
		e		26	26.00		KAF	134.72	344	ePKP	29	46.70	-1.5		1.3s	235.70nm				
		eS		32	44.00		NUR	136.50	344	ePKP	29	50.60	-1.0			e		32	08.10	
		ePS		33	38.00		N82	138.46	354	PKP	29	46.50	-8.8X	KCT	149.98	318	ePKP	30	20.60	5.4X
MCW	83.88	33	(P)	23	01.06	-1.4		0.9s	4.60nm				WLF	150.18	355	iPKPc	30	21.71	6.6X	
TTA	84.30	10	eP	23	04.01	-0.3	EKA	144.39	6	PKPc	30	04.40	-1.4		1.7s	126.50nm				
	1.0s	17.47nm			4.8mb			0.9s	45.90nm						e		32	08.00		
PMR	84.36	13	eP	23	03.03	-1.4	DMU	145.33	10	ePKP	30	08.80	1.4	UZD	150.30	337	ePKP	30	21.00	5.5X
	1.1s	38.38nm			5.1mb		WIM	145.40	7	ePKP	30	09.10	1.5	LANF	150.69	353	PKP	30	23.40	7.4X
MSU	84.40	46	eP	23	06.68	1.1	KIS	145.45	328	iPKPd	30	08.00	0.2	FUR	150.94	348	ePKP	30	24.00	7.6X
		ePP		24	39.17	404km		1.5s	400.00nm							i		30	32.40	
SNG	84.81	280	iPd	23	09.80	2.1			e	31	45.00		BHG	151.01	345	iPKPc	30	23.70	7.2X	
	1.0s	172.00nm			5.8mb		DCN	145.80	10	ePKP	30	09.10	0.9			i		30	34.40	
BALM	85.50	16	eP	23	08.80	-1.5		1.0s	104.00nm				FLN	151.13	4	ePKP	30	22.60	6.0X	
		ePP		24	43.65	415km	KAS	1												

01d 06h

GRR	151.48	5 ePKP	30 23.50	6.3X	MSCZ	1.29 104 P	36 20.60	0.3	RS2	0.74 16 eS	57 18.98	
	1.2s	83.60nm			LMZ	1.59 48 eP	36 24.30	0.3		eS	57 05.38	-0.8
KBA	151.49	344 iPKPc	30 17.60	0.1	BWZ	1.62 81 P	36 24.80	0.4		eS	57 18.88	
	0.9s	24.70nm			TUZ	1.81 130 P	36 26.90	0.0	RDW	0.75 13 eP	57 05.37	-0.9
			30 23.70			S	36 46.70			eS	57 19.18	
			30 35.20		SIZ	2.10 171 P	36 30.00	-0.7	REF	0.77 17 eP	57 05.59	-0.8
			32 06.70		ODZ	2.14 98 Pc	36 31.20	-0.1		eS	57 19.58	
ECH	151.52	353 PKP	30 24.59	7.3X	EWZ	2.64 62 P	36 38.10	0.1	NCT	0.82 8 eP	57 05.94	-0.8
LBD	151.54	353 PKP	30 24.75	7.5X	WVZ	2.82 53 eP	36 40.40	0.0		eS	57 20.22	
VITF	151.63	355 PKP	30 25.27	7.8X	LTZ	3.91 61 P	36 54.00	-1.4	MCNL	0.83 227 eP	57 05.79	-0.9
WTTA	151.72	347 iPKPc	30 18.40	0.6	DSZ	4.30 46 eP	37 00.80	-0.1		eS	57 20.05	
	0.9s	39.80nm			THZ	4.89 53 eP	37 08.00	-1.0	DFR	0.87 16 eP	57 06.54	-0.8
			30 24.50		QRZ	5.35 44 eP	37 15.40	0.0		eS	57 20.88	
			30 33.80		GBA	99.59 280 P	49 31.00	0.9	CNPM	1.00 102 eP	57 07.29	-1.3
FEL	151.75	352 PKP	30 25.27	7.5X	S.D. = 0.6 on 21 of 21 obs.				BRLK	1.15 88 eP	57 09.58	-0.7
PTJ	151.81	340 ePKP	30 24.80	6.9X						eS	57 25.67	
HAU	151.81	354 ePKP	30 24.20	6.5X	? APR 01, 1993 06h 49m 47.73±3.02s				SYI	1.21 161 eP	57 10.32	-0.6
	1.2s	39.55nm			17.612 S ±21.2km 178.966 W ±24.3km				CKL	1.50 15 eP	57 13.56	-1.0
LPF	151.82	5 ePKP	30 24.40	6.7X	DEPTH = 615.1 ± 33.5 km				CKT	1.53 18 eP	57 13.69	-1.1
	1.1s	91.10nm			5.0mb (13 obs.)				SPU	1.53 20 eP	57 13.79	-1.1
MOF	151.88	353 PKP	30 25.69	7.8X	FIJI ISLANDS REGION (181)					eS	57 35.30	
BSF	151.94	354 ePKP	30 24.50	6.5X	DZM	14.42 250 iPc	52 49.30	-0.8	BGL	1.56 14 eP	57 14.47	-0.8
	1.1s	26.60nm			BRS	27.81 244 iPc	54 51.50	-0.1	CP2	1.58 16 eP	57 15.11	-0.5
RBL	152.02	344 PKPc	30 24.90	6.8X		0.8s 5.00nm	4.2mb		CPAM	1.59 18 eP	57 15.38	-0.2
FVI	152.09	345 PKP	30 25.50	7.4X	ARMA	29.63 239 iPd	55 09.70	2.3	CRP	1.60 18 eP	57 14.98	-0.8
LJU	152.12	342 ePKP	30 18.50	0.3		0.4s 15.00nm	5.0mb		SLKM	1.65 61 eP	57 14.97	-1.4
		ePKPbc30 25.50			RMQ	31.12 248 iPd	55 20.30	0.5	SVW	1.83 319 eP	57 17.17	-1.4
		ePP 32 09.00				0.7s 51.00nm	5.3mb		SEW	1.90 78 eP	57 17.90	-1.5
BBS	152.22	353 PKP	30 26.48	8.1X	CTA	32.97 260 iPd	55 36.00	0.6	MPA	2.04 67 eP	57 19.73	-1.5
VOY	152.31	343 ePKP	30 19.30	0.7		0.9s 8.40nm	4.4mb		SUA	2.09 34 eP	57 21.28	-0.8
		iPKPbc30 26.20			CNB	33.19 232 iPc	55 37.10	-0.1	PMS	2.33 48 eP	57 24.11	-1.0
		e 31 15.50				0.7s 85.00nm	5.5mb		PTE	2.34 60 eP	57 23.80	-1.4
		e 32 03.50			CAN	33.46 232 eP	55 38.80	-0.6	GHO	2.90 44 eP	57 31.09	-1.8
VBV	152.38	340 ePKP	30 18.80	0.2	BWA	33.56 234 eP	55 38.60	-1.7	SML	3.14 47 eP	57 33.36	-2.7
		ePKPbc30 25.90			CMS	34.71 240 iPd	55 49.80	0.1	HIN	3.40 76 eP	57 36.94	-2.7
		i (pP' b32 08.00				0.5s 17.00nm	4.9mb		VLZ	3.66 65 eP	57 40.90	-2.1
		ePP 34 09.40			QLP	35.14 249 iPd	55 53.50	0.2	CVA	3.79 75 eP	57 42.50	-2.4
LOMF	152.41	354 PKP	30 27.22	8.5X	TOO	36.95 230 iPd	56 08.20	0.2	39 obs. associated			
CEY	152.43	342 ePKP	30 19.00	0.3		0.7s 58.00nm	5.3mb		APR 01, 1993 07h 09m 52.25±0.63s			
		ePKPbc30 25.50			TAU	38.11 221 eP	56 18.00	0.7	32.620 S ± 5.2km 71.878 W ± 8.6km			
		epPKP 30 38.00			STK	38.31 241 iPd	56 19.80	0.6	DEPTH = 33.0km (normal)			
		ePP 32 09.50				0.4s 30.10nm	5.2mb		4.5mb (4 obs.)			
TRI	152.64	343 ePKP	30 19.50	0.6	WB2	44.15 259 iPc	57 05.10	-0.4	NEAR COAST OF CENTRAL CHILE (135)			
		e 30 38.70				0.5s 31.70nm	5.1mb		MD 4.7 (SAN). Felt in the			
LOR	152.70	358 ePKP	30 26.40	7.4X	WRA	44.16 259 P	57 05.40	-0.2	Quintero area.			
SKO	152.77	328 ePKP	30 19.10	-0.1		0.6s 3.40nm	4.0mb		IHA	0.45 154 iPd	10 01.80	-0.3
	1.1s	96.00nm			ASPA	44.36 254 iPd	57 07.40	0.3		iS	10 06.70	
			30 26.80			0.7s 216.90nm	5.8mb		LCCH	0.89 163 iP	10 09.87	1.5
			30 40.30			iS	03 00.30			iS	10 21.04	
SSF	152.92	358 ePKP	30 26.90	7.6X	FORT	49.65 244 eP	57 46.00	-0.8	JACH	1.09 94 iP	10 10.26	-1.0
	1.1s	32.70nm			KNA	49.97 264 eP	57 49.60	0.3		iS	10 21.15	
LBF	152.98	358 ePKP	30 26.90	7.5X	WARB	50.88 250 iPd	57 55.50	-0.4	PEL	1.13 118 iP	10 11.64	-0.2
	1.3s	31.75nm				0.3s 11.00nm	4.7mb		SAN	1.32 129 iP	10 14.67	0.2
AVF	153.19	359 ePKP	30 27.20	7.6X	MEEK	58.04 249 eP	58 45.10	-0.8		iS	10 27.00	
	1.2s	14.30nm			MUN	59.78 243 eP	58 57.00	-0.3	LNV	1.39 164 iP	10 17.57	2.1
SMF	153.32	358 ePKP	30 27.60	7.7X	NANU	61.30 254 iPd	59 07.70	0.4		iS	10 33.93	
	1.1s	12.20nm				0.4s 20.00nm	4.8mb		FCH	1.51 118 iP	10 17.31	-0.3
LSF	153.73	1 ePKP	30 28.20	7.8X	YKA	94.29 25 eP	02 03.20	0.1	CHCH	1.66 142 iP	10 20.58	1.0
	1.5s	81.50nm				0.5s 0.20nm	3.6mb X		CACH	1.84 145 iP	10 23.85	1.7
OHR	153.73	328 iPKP	30 28.80	8.1X	GEC2	147.19 344 PKP	08 25.90	4.8X		iS	10 45.42	
	1.0s	82.00nm				0.5s 2.40nm			RTBS	2.27 66 iPc	10 30.20	2.1
			30 43.60		S.D. = 0.8 on 23 of 24 obs.				MDZ	2.57 97 iP	10 34.90	2.4X
LPL	154.23	353 ePKP	30 30.40	9.0X	& APR 01, 1993 06h 56m 47.56s					iS	11 06.60	
LPG	154.25	353 ePKP	30 30.70	9.2X	59.753 N 153.161 W				RTCB	2.85 67 iPc	10 37.80	1.3
BCAO	158.04	228 iPKPd	30 28.00	1.1	DEPTH = 103.2km					S	11 11.50	
	0.9s	9.00nm			SOUTHERN ALASKA (2)				ZON	2.92 69 ePc	10 38.10	0.6
			31 03.00		<AEIC>				RFA	3.56 128 eP	10 47.00	0.4
			32 50.00		OPT	0.11 199 eP	57 01.54	0.9		S	11 33.80	
LKO	167.08	142 PKP	30 35.14	-0.4		eS	57 12.39		RTPR	5.13 65 e(P)	11 08.10	-0.7
S.D. = 1.0 on 180 of 248 obs.					INE	0.31 9 eP	57 02.46	-0.5	MRA	5.22 89 ePc	11 08.00	-2.0
APR 01, 1993 06h 35m 56.46±0.67s					INW	0.32 3 eP	57 02.27	-0.7	CYA	6.70 53 ePd	11 26.80	-4.1X
44.800 S ± 5.6km 167.648 E ± 8.6km						eS	57 14.22			S	12 44.80	
DEPTH = 96.6 ± 7.9 km					ILIM	0.34 17 eP	57 02.35	-0.7	FSA	8.28 40 e(P)	11 54.00	1.0
SOUTH ISLAND, NEW ZEALAND (162)					AUL	0.40 201 eP	57 02.54	-0.7	ANT	8.97 9 eP	12 04.00	1.5
MSZ	0.23	56 Pc	36 10.10	0.2		S	57 14.14		SLA	9.65 37 e(P)	12 12.90	0.8
		S	36 18.60		AUW	0.42 202 eP	57 02.83	-0.5	HJA	10.98 33 ePd	12 31.50	1.5
TLC	1.08	112 P	36 18.20	0.2	AUI	0.44 198 eP	57 02.54	-1.0	CCH	16.03 20 P	13 37.40	0.2
MHZ	1.19	103 Pc	36 19.70	0.5		eS	57 14.72		ARE	16.09 1 eP	13 43.00	5.0X
CMCZ	1.21	107 P	36 19.70	0.3	PDB	0.52 274 eP	57 03.13	-0.9	CNCB	16.13 14 P	13 38.20	-0.5
		S	36 34.50		RED	0.70 16 eP	57 04.73	-0.9	LPB	16.38 13 eP	13 35.00	-6.7X
BCZ	1.21	174 P	36 18.50	-0.9		eS	57 18.26		ZOBO	16.63 13 P	13 43.60	-1.5
SBCZ	1.22	104 Pc	36 19.90	0.4	RS1	0.74 16 eP	57 05.38	-0.7		1.0s 12.00nm	4.0mb	
LRCZ	1.24	103 Pc	36 20.30	0.5		eS	57 18.95		SIV	19.24 33 P	14 26.00	9.3X
LSCZ	1.26	105 P	36 20.30	0.3	RSO	0.74 16 eP	57 05.22	-0.9	PPD	21.06 65 eP	14 31.50	-4.4X
									VAO	23.98 73 eP	15 00.80	-4.0X

BAO 27.49 58 iPc 15 08.50
e 15 19.50
e 15 34.40 -3.3X
e 16 05.50
e 24 06.00
BDF 27.53 58 iPc 15 34.10 -4.0X
e 15 50.10
i 16 05.90
e 24 04.50
e 24 26.00
LKO 75.74 69 P 21 34.82 -1.9
GLA 76.85 324 (P) 21 43.77 1.2
WIN 77.37 109 e(P) 21 44.00 -2.0
e 0.6s 180.00nm 6.3mb X
BLF 81.02 119 eP 22 04.50 -1.2
SEK 82.51 119 eP 22 12.50 -0.9
e 0.5s 8.00nm 5.0mb
PRY 83.15 117 e(P) 22 15.00 -1.7
KSR 83.29 116 eP 22 16.50 -1.0
SLR 84.41 117 iPc 22 20.70 -2.4
e 0.7s 16.00nm 5.3mb
FHC 87.46 323 iPc 22 39.57 2.1
YKA 100.80 341 ePdiff 23 36.90 -1.4
e 0.6s 0.30nm 4.0mb
WRA 122.03 209 PKP 28 45.50 0.1
e 0.6s 0.30nm
MAIO 140.07 71 ePKP 29 26.00 6.7X
GBA 146.20 117 PKP 29 30.00 -0.3
HYB 149.36 112 ePKP 29 39.00 3.7X
S.D. = 1.4 on 34 of 45 obs.

? APR 01, 1993 09h 10m 57.33 ± 5.04s
8.510 S ± 66.2km 120.766 E ± 21.2km
DEPTH = 206.9 ± 14.1 km
4.6mb (3 obs.)
FLORES REGION, INDONESIA (286)

WSI 1.25 202 iPd 11 29.90 0.1
eS 11 53.70
KNA 10.63 133 eP 13 25.50 0.0
eS 15 19.00
MTN 11.06 114 eP 13 31.00 -0.1
eS 15 28.00
NANU 14.85 199 eP 14 26.00 7.3X
eS 17 03.00
WB2 17.38 132 eP 14 47.80 -0.9
e 0.3s 11.60nm 4.8mb
eS 17 54.60
WEEK 18.15 186 eP 14 56.50 -0.3
WARB 18.44 163 eP 15 10.40 10.5X
e 0.3s 10.00nm
ASPA 19.63 142 iPc 15 13.40 1.3
e 0.4s 9.50nm 4.7mb
eS 18 43.10
STK 30.26 143 iPd 16 51.00 0.0
e 0.4s 3.30nm 4.4mb
S.D. = 0.9 on 7 of 9 obs.

% APR 01, 1993 09h 39m 36.17 ± 0.67s
43.096 N ± 11.6km 0.615 W ± 4.9km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

ESCF 0.03 121 Pg 39 37.72 -0.5
Sg 39 38.59
ATE 0.06 261 Pg 39 38.11 -0.4
Sg 39 39.21
OGE 0.13 55 Pg 39 39.47 0.2
ISSF 0.15 243 Pg 39 39.97 0.2
Sg 39 43.05
MADF 0.16 288 Pg 39 39.93 0.1
JAU 0.19 108 Pg 39 40.75 0.3
S.D. = 0.5 on 6 of 6 obs.

? APR 01, 1993 09h 41m 14.67 ± 2.90s
27.813 N ± 29.8km 30.886 E ± 11.5km
DEPTH = 10.0km (geophysicist)
EGYPT (553)
MD 3.7 (HLW).

HLW 2.08 11 ePb 41 50.50 0.5
eSb 42 06.00
KOT 2.27 21 ePb 41 52.50 -0.2
SAGI 4.08 53 eP 42 19.00 0.5
PRNI 4.39 54 eP 42 23.70 0.7
MKT 4.86 49 eP 42 29.30 -0.3

DSI 5.41 45 eS 43 13.50
eP 42 36.30 -1.1
BDI 22.99 320 P 46 20.40 -0.1
S.D. = 0.8 on 7 of 7 obs.

APR 01, 1993 09h 45m 21.39 ± 0.64s
43.402 N ± 4.7km 5.450 E ± 4.7km
DEPTH = 9.4 ± 3.2 km
NEAR SOUTH COAST OF FRANCE (379)
ML 3.2 (STR).

GELF 0.02 222 Pg 45 22.47 -0.8
BERF 0.20 117 Pg 45 26.00 0.3
PUYF 0.22 54 Pg 45 25.40 -0.8
TREF 0.23 348 Pg 45 25.77 -0.5
PRAF 0.45 333 Pg 45 30.80 0.2
VILF 0.49 23 Pg 45 30.80 -0.5
TAVF 0.49 64 Pg 45 30.96 -0.4
GANF 0.68 29 Pg 45 34.41 -0.6
CALN 1.10 71 Pg 45 42.52 0.3
REVF 1.43 76 Pn 45 47.13 -0.4
TOUF 1.44 64 Pn 45 47.87 0.1
AURF 1.45 70 Pn 45 47.76 0.0
Sg 46 09.20
SURF 1.46 42 Pg 45 49.28 1.2
Sg 46 10.48
SBF 1.51 72 Pn 45 48.48 -0.2
AUTN 1.55 67 Pn 45 49.34 0.0
Sg 46 12.14
SAOF 1.63 68 Pn 45 50.08 -0.3
Sg 46 14.80
DOI 1.70 49 P 45 53.00 1.6
eSn 46 16.90
BNI 1.87 28 Pc 45 56.70 2.8X
eSn 46 22.50
CKI 2.29 62 P 46 00.10 0.3
eSn 46 32.00
PGF 2.74 107 Pn 46 04.94 -1.5
ORO 2.87 38 P 46 10.90 2.8X
BOB 3.19 63 P 46 13.20 0.5
S.D. = 0.8 on 20 of 22 obs.

* APR 01, 1993 10h 02m 19.39 ± 1.39s
6.628 S ± 19.4km 147.718 E ± 15.4km
DEPTH = 55.5 ± 12.3 km
4.3mb (4 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

FINC 0.14 86 iPd 02 29.50 0.2
LAT 0.71 267 iPd 02 39.50 5.9X
YYYY 1.78 282 eP 02 48.00 -0.4
PMG 2.82 191 eP 03 03.00 0.1
eS 03 37.00
WB2 18.54 223 eP 06 34.00 0.0
e 0.3s 7.30nm 4.4mb
RMD 19.78 177 eP 06 46.60 -1.3
e 0.6s 9.00nm 4.3mb
QLP 20.12 189 eP 06 50.40 -1.1
BRS 21.20 167 iP 07 03.00 0.4
ASPA 21.53 217 iPc 07 06.80 1.0
e 0.4s 15.00nm 4.7mb
eS 11 02.50
STK 25.77 192 eP 07 47.80 1.1
e 0.4s 1.90nm 4.0mb
eP 08 02.90 64kmX
S.D. = 1.0 on 9 of 10 obs.

* APR 01, 1993 11h 11m 19.07 ± 2.94s
32.387 S ± 15.7km 71.742 W ± 24.5km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.1 (SAN).

JACH 1.01 107 iP 11 36.19 -0.9
iS 11 52.32
LCCH 1.10 172 iP 11 37.65 -0.5
iS 11 55.98
PEL 1.17 131 iP 11 39.32 0.1
iS 11 57.78
FCH 1.54 128 iP 11 45.02 0.2
iS 12 07.84
LNV 1.59 170 iP 11 45.24 0.0
CHCH 1.79 150 iP 11 48.91 0.7
MDZ 2.49 102 eP 12 03.20 5.0X
iS 12 37.60
RTCB 2.66 71 eP 12 00.00 -0.6
S 12 41.00

ZON 2.74 73 eP 12 02.60 1.0
S.D. = 0.8 on 8 of 9 obs.

* APR 01, 1993 11h 19m 40.71 ± 0.97s
20.568 S ± 8.3km 69.093 W ± 14.4km
DEPTH = 135.6 ± 12.4 km
3.9mb (1 obs.)

NORTHERN CHILE (123)

ANT 3.35 201 eP 20 32.00 -0.8
CNCB 3.88 16 iPc 20 39.90 -0.5
LPB 4.12 13 P 20 44.30 0.8
CCH 4.23 42 eP 20 45.00 0.2
HJA 4.32 128 ePc 20 47.20 1.5
ZOB0 4.37 12 P 20 46.00 -1.0
SIV 8.87 60 Pc 21 54.60 7.3X
PPD 16.64 98 eP 23 26.30 -1.0
e 23 27.90
KIC 68.61 74 P 30 30.40 -1.0
YKA 90.25 341 eP 32 28.10 1.4
e 0.6s 0.60nm 3.9mb
S.D. = 1.3 on 9 of 10 obs.

% APR 01, 1993 12h 58m 03.58 ± 0.66s
26.842 S ± 6.5km 26.840 E ± 6.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.3 (PRE).

BFS 0.07 221 iPd 58 06.80 1.3
S 58 07.20
PRY 0.57 99 e(P) 58 14.60 -0.5
S 58 22.60
KSR 0.97 3 iPd 58 23.00 0.3
S 58 34.00
SWZ 1.39 256 iPc 58 28.50 -1.3
S 58 48.60
SEK 1.63 155 iPc 58 33.50 0.3
S 58 53.50
SLR 1.70 50 eP 58 34.50 0.3
S 58 58.20
BLF 2.33 194 eP 58 43.00 -0.3
S 59 11.50
FRS 3.19 204 eP 58 55.20 -0.1
S 59 30.50
S.D. = 0.9 on 8 of 8 obs.

% APR 01, 1993 13h 08m 13.83 ± 1.24s
34.048 S ± 14.5km 71.041 W ± 8.4km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.4 (SAN).

LNV 0.32 287 iP 08 21.92 0.1
iS 08 35.20
CACH 0.37 101 iP 08 22.38 -0.3
iS 08 35.50
LCCH 0.72 322 iP 08 27.33 -0.2
iS 08 45.50
PEL 0.95 18 (P) 08 30.34 -0.5
iS 08 53.55
FCH 0.95 41 iP 08 31.78 0.6
iS 08 52.97
S.D. = 0.6 on 5 of 5 obs.

APR 01, 1993 13h 24m 51.23 ± 0.36s
39.363 N ± 4.0km 25.563 E ± 2.6km
DEPTH = 10.0km (geophysicist)
3.5mb (2 obs.)

AEGEAN SEA (365)
ML 3.7 (ATH), 3.7 (THE), MD 4.0 (ISK).

PRK 0.56 102 ePb 25 03.30 0.7
OUR 1.56 309 ePb 25 19.76 0.8
iSb 25 39.26
PAIG 1.56 292 iPb 25 19.01 0.0
eSb 25 41.04
ALN 1.58 13 iPb 25 19.30 0.0
eSb 25 41.12
IZM 1.64 125 iPn 25 20.80 0.6
eSg 25 44.80
RDO 1.78 359 ePn 25 22.00 -0.2
ATH 2.00 227 ePn 25 25.20 -0.3
EDC 2.03 60 iPn 25 25.50 -0.3
BNT 2.07 61 iPn 25 26.30 -0.1
SOH 2.23 311 ePn 25 30.84 2.0

81d 13h

KDZ	2.29	357	iPc	25	29.00	-0.6
SRS	2.31	320	ePn	25	29.84	-0.1
KCT	2.33	67	iPn	25	30.60	0.4
THE	2.36	303	ePn	25	31.28	0.6
			iSn	26	00.21	
LIT	2.48	288	iPn	25	32.36	0.0
AGG	2.53	263	ePn	25	32.44	-0.7
MMB	2.63	328	iPc	25	34.00	-0.4
CTT	2.83	50	iPn	25	36.90	-0.4
DMK	2.97	34	iPn	25	38.30	-1.0
VAY	3.01	311	iPn	25	44.40	4.6X
			i	25	48.00	
			iSg	26	31.20	
KZN	3.07	289	ePn	25	40.50	-0.2
KKB	3.13	324	iPd	25	42.00	0.4
ITU	3.16	56	ePn	25	43.00	1.0
			iSg	26	31.00	
YLV	3.17	66	iPn	25	41.80	-0.3
ISK	3.17	56	ePn	25	41.80	-0.3
JMB	3.20	14	iP	25	42.00	-0.4
KHL	3.26	107	ePn	25	44.00	0.5
GBZT	3.30	63	ePn	25	44.00	0.0
			iSg	26	38.50	
PGB	3.36	342	iPd	25	34.00	-10.8X
VLI	3.36	219	ePn	25	42.00	-2.8
HRT	3.47	64	ePn	25	46.90	0.5
ALT	3.55	94	iPn	25	47.90	0.4
VTS	3.69	332	iPd	25	50.00	0.4
EYL	3.73	70	iPn	25	49.30	-0.9
GPA	3.77	74	ePn	25	50.70	0.0
PVL	3.85	358	iP	25	51.00	-0.8
OHR	4.04	297	ePn	25	58.70	4.2X
SKO	4.08	311	iPn	25	55.50	0.5
			iPg	26	58.50	
			iSg	27	06.80	
NPS	4.09	179	ePb	26	02.00	6.8X
KEK	4.47	276	ePn	26	02.50	1.9
PSN	4.74	24	iP	26	03.00	-1.4
BUC1	4.99	4	eP	26	38.00	30.1X
DRA	5.40	350	ePd	26	13.00	-0.7
ISR	5.82	7	eP	26	25.00	5.4X
CMP	5.91	356	ePd	26	22.00	1.0
CFR	6.13	17	eP	26	30.00	6.1X
MLR	6.13	3	ePc	26	24.50	0.4
SSR	6.19	334	iPd	26	44.00	19.2X
TNR	6.36	352	ePc	26	26.00	-1.2
GZR	6.37	342	iPc	26	26.00	-1.5
CVO	6.47	4	eP	26	30.50	1.6
VRI	6.56	7	ePc	26	30.00	-0.1
VBY	9.78	312	eP	27	14.50	-0.4
CEY	10.39	311	e(P)	27	22.50	-0.8
VOY	10.06	312	i(P)	27	29.30	-0.6
			e	27	42.30	
NB2	23.46	342	P	29	57.90	-3.5X
	0.7s	0.80nm			3.4mb	
QUE	34.95	92	ePd	30	46.40	-59.2X
YKA	73.56	342	eP	36	28.50	2.8
	0.8s	0.40nm			3.5mb	

S.D. = 1.0 on 48 of 58 obs.

APR 01, 1993 13h 40m 51.39±0.60s
 43.624 N ± 4.0km 110.196 W ± 9.2km
 DEPTH = 5.0km (geophysicist)
 WYOMING (460)
 ML 3.0 (GS), 3.1 (BUT).

BW06	0.97	151	eP	41	10.28	-0.1
			eS	41	23.59	
TPMT	1.53	317	ePn	41	18.63	-1.0
LTMT	1.65	304	ePn	41	20.76	-0.6
MEMT	2.06	345	ePn	41	27.73	0.5
BGMT	2.08	321	ePn	41	27.63	0.0
LCMT	2.26	303	ePnc	41	30.70	0.5
LCCM	2.52	332	ePn	41	34.54	0.8
HVU	2.65	227	eP	41	36.10	0.5
BUT	2.92	326	ePg	41	45.35	5.8X
			eSg	42	20.60	
HRY	3.30	340	ePn	41	44.44	-0.4
DAU	3.30	194	eP	41	44.92	-0.2
EMUT	3.83	187	eP	41	52.52	-0.1
DUG	3.94	211	eP	41	54.13	0.1
RSSD	4.48	82	(Pn)	42	09.25	7.5X
SRU	4.52	183	ePn	42	02.27	0.1
NCM	4.70	321	ePn	42	06.00	1.2X
MSU	5.32	197	ePn	42	13.23	-0.4X
GOL	5.33	136	(P)	42	15.60	1.8X

S.D. = 0.6 on 13 of 18 obs.

? APR 01, 1993 13h 41m 42.13±4.82s
 42.977 N ±11.8km 20.353 E ±32.7km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.2 (TTG).

IVA	0.35	253	iPg	41	49.22	-0.2
			iSg	41	55.19	
PVY	0.47	216	iPg	41	50.58	-1.2
			iSg	41	58.99	
PLE	0.79	297	iPg	41	56.87	-0.6
			iSg	42	09.02	
NKY	1.01	261	iPg	42	01.24	-0.1
			iSg	42	16.87	
ULC	1.30	219	iPg	42	06.47	0.2
			iSg	42	26.29	
BDV	1.32	239	iPg	42	06.95	0.4
			iSg	42	27.27	
BRY	1.33	267	iPg	42	07.12	0.4
			iSg	42	27.49	

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

* APR 01, 1993 14h 01m 23.01±1.70s
 29.241 N ±26.4km 102.015 E ±15.1km
 DEPTH = 5.0km (geophysicist)
 4.4mb (4 obs.)
 SICHUAN, CHINA (307)
 ML 3.8 (BJI).

CD2	2.25	42	iPg	02	01.00	-0.5
			Sg	02	26.80	
KMI	4.15	171	ePn	02	25.00	-3.7X
			Sg	03	27.50	
GVA	4.96	123	Pg	02	47.60	7.5X
			Sg	03	49.40	
LZH	7.00	12	ePn	03	09.00	0.2
N	10s	0.42um				
XAN	7.58	49	Pn	03	11.40	-5.5X
			Pg	03	37.50	
TIY	12.12	43	Pc	04	22.30	3.0X
N	10s	0.21um				
GUN	14.24	269	P	04	47.80	-0.1
PKI	14.71	268	P	04	53.80	-0.2
KKN	14.79	268	P	04	53.80	-1.1
DMN	14.97	268	P	04	58.00	0.7
GKN	15.31	270	P	05	02.20	0.5
	0.8s	23.00nm			4.6mb	
CN2	23.68	46	eP	06	36.60	0.4
	0.8s	3.80nm			4.0mb	
WRA	58.00	144	P	11	23.40	4.2X
	0.5s	1.40nm			4.2mb	
WB2	58.00	144	eP	11	22.70	3.5X
	0.4s	28.50nm			5.7mb X	
ASPA	60.89	146	iPd	11	43.10	3.9X
	0.5s	3.60nm			4.8mb	

S.D. = 0.7 on 8 of 15 obs.

* APR 01, 1993 14h 09m 14.02±1.74s
 37.588 N ±12.4km 21.269 E ±14.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.4 (ATH), 3.1 (THE).

VLI	1.59	123	ePb	09	42.00	-0.3
AGG	1.66	30	ePb	09	43.28	0.0
			eSb	10	00.44	
ATH	1.98	78	ePn	09	48.20	0.3
IGT	2.08	340	ePb	09	54.04	4.7X
KEK	2.41	332	ePn	09	55.00	0.9
LIT	2.68	20	ePn	09	58.00	0.0
FNA	3.19	1	ePn	10	05.88	0.6
OUR	3.46	37	ePn	10	08.96	0.0
OHR	3.54	354	ePn	10	05.70	-4.4X
SOH	3.61	26	ePn	10	12.36	1.1
VAY	3.86	15	ePn	10	15.00	0.3
SRS	3.96	26	ePn	10	15.56	-0.5
SKO	4.38	2	ePd	10	19.50	-2.6
			i	10	29.00	

S.D. = 1.1 on 11 of 13 obs.

? APR 01, 1993 14h 16m 29.40±4.42s
 37.577 S ±16.1km 179.447 W ±37.6km
 DEPTH = 10.0km (geophysicist)
 4.2mb (1 obs.)
 EAST OF NORTH ISLAND, N.Z. (688)

ML 4.0 (WEL).

HBZ	1.79	269	P	16	59.80	-0.7
PUZ	1.88	254	P	17	02.60	0.7
			S	17	19.40	
NOZ	2.24	242	P	17	09.30	2.2
URZ	2.81	255	P	17	14.50	-0.6
PAHZ	3.04	244	P	17	19.60	1.2
MOH	3.09	239	P	17	19.90	0.7
WHH	3.45	247	eP	17	25.00	0.6
THH	3.52	235	P	17	27.20	2.0
TEHZ	3.79	229	eP	17	29.60	0.5
WAHZ	3.91	236	P	17	31.40	0.6
KUZ	3.95	281	eP	17	29.40	-1.9
PGZ	4.51	226	eP	17	39.90	0.7
MNG	4.98	231	eP	17	44.30	-1.6
			S	18	35.00	
MTW	5.30	226	P	17	49.20	-1.3
BLW	5.46	224	P	17	51.70	-1.0
KIW	5.47	231	eP	17	51.40	-1.6
CAW	5.52	229	P	17	52.10	-1.6
WB2	43.68	281	eP	24	37.40	1.2
	0.3s	1.20nm			4.2mb	

S.D. = 1.4 on 18 of 18 obs.

% APR 01, 1993 14h 40m 58.80±1.10s
 40.457 N ± 7.4km 21.579 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.2 (THE).

FNA	0.36	335	iPg	41	06.14	-0.1
			eSg	41	11.02	
LIT	0.78	117	ePg	41	13.66	-0.4
			eSg	41	25.10	
GRG	0.80	51	ePg	41	13.82	-0.5
			eSg	41	25.22	
KNT	1.22	54	ePb	41	22.42	0.8
SOH	1.40	74	ePb	41	24.34	-0.1
			eSb	41	45.22	
AGG	1.55	158	ePb	41	26.70	0.3

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

% APR 01, 1993 14h 59m 45.01±0.60s
 37.822 N ± 4.2km 30.444 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.5 (ISK).

BCK	0.38	162	iPg	59	52.60	-0.2
KHL	0.88	305	ePg	00	01.70	-0.3
			eSg	00	15.70	
ELL	1.15	202	ePn	00	07.00	0.3
ALT	1.26	348	iPn	00	08.40	-0.1
GPA	2.47	358	ePn	00	25.00	-0.9
IZM	2.57	284	iPn	00	27.30	-0.2
EYL	2.75	355	ePn	00	30.20	0.2
YLV	2.86	343	ePn	00	31.80	0.2
KCT	2.92	327	ePn	00	33.10	0.8
HRT	3.06	349	ePn	00	35.00	0.7
BNT	3.20	323	ePn	00	35.80	-0.5

S.D. = 0.6 on 11 of 11 obs.

APR 01, 1993 15h 09m 23.56±0.74s
 19.966 S ± 6.5km 177.714 W ± 8.6km
 DEPTH = 591.5 ± 8.4 km
 4.7mb (19 obs.)
 FIJI ISLANDS REGION (181)

SVA	4.06	296	eP	10	47.40	-1.9
			eS	11	59.70	
MBU	4.51	311	iP	10	54.50	1.9
DZM	14.94	259	iPd	12	32.00	0.7
URZ	18.78	193	eP	13	06.40	-1.2
NOZ	18.95	190	P	13	11.00	1.8
MNG	21.39	194	eP	13	31.00	-0.6
QRZ	22.40	200	P	13	41.10	0.4
			e	13	52.00	
THZ	23.14	198	eP	13	47.10	-0.4
			e	13	59.80	
DSZ	23.47	200	eP	13	49.80	-0.6
KHZ	23.57	196	P	13	50.50	-0.7
			e	14	03.30	
LTZ	24.26	198	P	13	56.00	-1.4
			e	14	08.80	
BWZ	26.58	200	P	14	17.00	-0.6
ARMA	29.55	243	iPc	14	46.20	2.6

RMO	0.5s 31.43 0.6s	13.00nm 252 iPd 17.00nm	15 00.10 0.7 4.9mb
CNB	32.75 0.9s	235 eP 21.00nm	15 11.40 0.9 4.8mb
CAN	33.03	235 eP	15 12.80 0.0
BWA	33.21	237 iPe	15 12.70 -1.7
CTA	33.81	263 P	15 20.29 0.8
CMS	34.64	243 iPe	15 26.50 0.3
QLP	0.4s	11.00nm	4.8mb
T00	35.48 36.43 0.8s	252 iPe 233 iPd 28.00nm	15 33.30 0.2 15 42.20 1.3 4.9mb
STK	38.27 0.8s	244 iPe 6.00nm	15 56.90 1.0 4.2mb
WB2	44.93 0.5s	261 eP 5.10nm	16 47.70 -1.0 4.3mb
WRA	44.94 0.8s	261 P 1.70nm	16 48.30 -0.5 3.6mb X
WARB	51.25	252 eP	17 34.50 -1.5
MBL	58.14 0.4s	257 iPd 15.00nm	18 22.70 -1.4 4.6mb
MUN	59.80	244 eP	18 34.00 -0.9
NANU	61.80 0.4s	255 iPd 12.00nm	18 47.70 -0.3 4.6mb
SPA	70.16 0.8s	180 iPd 61.67nm	19 40.60 1.5 5.2mb
LEM	73.32	269 ePd	19 58.00 -0.1
YSS	75.60 1.0s	333 iPd 30.00nm	20 09.10 -0.7 4.8mb
NJ2	79.75	309 Pc	20 33.00 0.8
MDJ	80.24 1.0s	325 eP 18.00nm	20 35.40 0.9 4.5mb
AIA	81.35	157 eP	20 58.80 18.9X
TUC	82.44 0.9s	52 eP 9.49nm	20 48.12 2.1 4.3mb
SLKM	83.23	13 eP	20 47.49 -1.8
CP2	83.50	12 eP	20 49.71 -1.2
MGD	83.79	345 eP	20 50.00 -2.1
MSU	84.54	46 eP	20 58.39 1.8
BJI	85.70	315 eP	21 01.50 -0.2
SRU	85.96	46 eP	21 02.97 -0.3
FBA	87.66 0.8s	12 eP 13.50nm	21 09.10 -1.4 4.8mb
XAN	88.02	307 Pd	21 13.50 0.6
BW06	1.0s	21.00nm	4.9mb
HHC	88.40 1.0s	43 eP 7.07nm	21 15.29 0.6 4.5mb
CHTO	89.17 1.2s	314 P 12.00nm	21 19.00 0.9 4.7mb
SES	90.32	290 ePd	21 24.60 0.9
RSSD	1.0s	13.25nm	4.9mb
YKA	91.28 92.58 95.92 0.9s	36 eP 44 eP 25 eP 1.00nm	21 28.00 0.5 21 34.85 0.9 21 46.80 -1.5 4.0mb
CRNY	113.37	53 (Pd if f23)	12.14 5.6X
ARU	124.90	326 ePKP	27 18.00 -0.1
MAIO	127.71	301 ePKP	27 24.00 -0.3
NUR	136.50	344 ePKP	27 33.00 -7.1X
NB2	138.48 0.6s	353 PKP 0.70nm	27 32.20 -11.6X 4.8mb
HFS	139.05	351 ePKP	27 34.10 -10.6X
KIS	0.3s	3.90nm	
WIT	145.40	327 ePKP	27 56.00 -0.1
UZH	147.04 1.0s	355 ePKP 155.00nm	28 02.00 3.5X 28 03.00 4.1X
KSP	147.17	i	28 10.20
BHL	147.26	344 ePKP	27 56.00 -3.0X
HRI	1.0s	27.00nm	
SPC	147.33	302 PKP	28 02.50
CLL	147.44	301 ePKP	28 01.00 1.2
	147.48	338 ePKP	28 03.70 3.7X
	147.60	347 ePKP	28 03.50 3.8X
	1.2s	66.00nm	-0.5
		i	28 02.90
		pPKP	30 18.00
BRG	147.81	346 iPKPd	28 03.70 3.8X
	1.1s	40.00nm	
		e	30 19.20
WTS	147.84	355 ePKP	28 03.50 3.6X
JVI	0.9s	42.50nm	
	148.10	299 ePKP	28 05.20 4.2X
PRU	148.49 0.9s	345 iPKPd 18.90nm	28 05.60 4.6X
MOX	148.51 1.5s	349 ePKP 45.00nm	28 01.30 0.3
PRNI	148.74	296 ePKP	28 05.50
HOF	148.77	348 iPKPd	28 06.90 4.9X
ENN	149.13 1.0s	355 ePKP 24.00nm	28 06.00 4.6X 28 06.50 4.6X
SRO	149.33	e	28 13.00
ZST	149.39 0.8s	339 ePKP 18.00nm	28 07.10 4.8X 28 07.90 5.5X
SNF	149.48	357 PKP	28 07.90 5.5X
GRF	149.49	349 iPKPd	28 08.40 5.9X
KHC	149.52 1.0s	345 ePKP 23.20nm	28 15.30 28 02.70 0.1
DOU	149.88 1.0s	357 PKP 75.00nm	28 09.10 6.1X
WLF	150.21	355 iPKPd	28 10.11 6.6X

01d 16h

E	10s		0.82um							Z	0.9s	27.00nm	4.6mb	RYD	43.61	282	iPd	38	07.80	1.0			
			pP	32	58.00						15s	1.11um	4.4MszX	GRS	43.68	303	iPd	38	08.00	0.6			
			S	35	02.00					E	11s	0.54um			1.4s	100.00nm				5.4mb			
			SS	35	16.00							S	39	18.00	MJMA	44.63	284	iPd	38	15.60	0.5		
NNT	11.70	154	eP	32	54.60	-1.3						sS	39	54.00	GRO	44.75	309	iPd-	38	17.00	1.3		
QIZ	14.91	103	P	33	39.40	1.6				TLG	24.49	329	iP	35	25.00		i	38	48.00	137kmX			
	1.0s		200.00nm			5.3mb					0.9s	950.00nm	6.2mb	YSS	45.14	46	eP	38	18.20	-0.5			
	14s		1.39um								20s	0.50um	4.0Msz			e	38	42.40	103km				
LZH	15.16	30	eP	33	39.00	-1.9						ePPP	36	09.00	YAK	45.55	22	eP	38	21.20	-0.5		
	1.5s		170.00nm			5.1mb						eS	39	42.00		2.0s	43.00nm			4.9mb			
	12s		0.56um							BJI	24.83	42	eP	35	25.00		e(S)	38	49.00	121kmX			
			eS	36	28.00						1.2s	33.00nm	4.6mb	QASM	46.17	284	iPd	38	27.33	0.1			
HYB	16.03	252	ePd	33	48.20	-3.6X						esP	35	56.00	NRI	46.34	357	iPd-	38	28.60	0.8		
	1.0s		120.00nm			5.1mb						eS	39	44.00		1.2s	357.00nm			6.1mb			
			e	33	52.00							eScP	42	28.50			e	39	00.00	138kmX			
			eS	36	32.00							eScS	46	15.50			e	39	58.00				
NDI	16.46	293	iPd	33	53.50	-3.6X				SSE	24.96	66	Pd	35	26.50		i.	40	20.00				
	0.9s		226.89nm			5.4mb					1.0s	63.00nm	5.0mb			eS	45	09.00					
XAN	16.60	46	P	33	57.30	-1.6					Z	20s	0.90um	4.3Msz			e	45	16.00				
	1.0s		100.00nm			5.0mb					N	10s	0.70um				e	48	10.00				
	Z	20s	0.67um								E	10s	0.20um				e	38	32.00	0.5			
			PP	34	10.00								S	35	45.00	82kmX	PYA	46.75	309	iPd	38	32.00	0.5
			PP	34	17.50								esS	40	20.00			1.0s	150.00nm	5.8mb			
			sP	34	24.30					BAG	25.43	101	eP	35	32.00	1.0	DHJN	47.92	273	iPd	38	41.27	-0.1
			S	37	02.40					QUE	25.52	292	eP	35	33.40	1.6	KMTA	48.36	274	iPd	38	45.33	0.7
			sS	37	16.00								eS	40	14.90		ABHA	48.45	274	iPd	38	47.47	2.1
			SS	37	24.40								eS	40	14.90		SOC	49.08	308	iPd	38	51.00	1.4
			ScP	42	09.00					FRU	25.57	325	iP	35	33.80	1.9		1.2s	360.00nm			6.2mb	
GTA	16.75	14	P	33	58.50	-2.3						e	35	50.40	72kmX	NANU	49.91	154	eP	38	56.00	0.0	
	1.0s		38.00nm			4.6mb						i	36	33.20		MBL	50.56	149	eP	39	00.50	-0.5	
	Z	12s	0.48um			7.5MszX				CVP	26.16	97	eP	35	43.00	5.5X	MTN	50.71	131	iPc	39	00.20	-2.0
			pP	34	16.00					DL2	27.86	50	eP	35	52.70	0.0			iS	40	11.50		
			sP	34	26.00					ZAK	27.96	12	eP	35	53.30	-0.1	KNA	51.23	136	eP	39	05.00	-0.6
			S	37	06.00						1.0s	34.00nm	4.9mb	HRI	52.13	295	iPd	39	14.20	1.2			
			sS	37	25.00							e	36	20.50	127kmX	BHL	52.15	296	P	39	12.00	-1.2	
			PcP	38	46.00							eS	40	33.00				S	47	24.00			
			ScP	42	10.00							e	46	30.00		SHMJ	52.16	294	P	39	13.00	0.7	
			ScS	45	48.50					UER	28.29	359	ePd	35	58.20	1.8	TIK	52.22	13	iPd	39	11.50	-1.5
SNQ	17.01	159	eP	34	00.30	-3.7X					1.5s	102.00nm	5.2mb			1.2s	40.00nm			5.3mb			
GZH	17.33	87	Pc	34	09.00	1.1						iS	46	32.00			iP	39	35.00	97km			
	1.0s		94.00nm			5.0mb				MOY	28.84	8	eP	36	02.30	0.9		e	41	20.00			
HKC	18.17	89	eP	34	19.00	1.0				IRK	29.95	12	iPc	36	12.90	1.6		iS	46	28.00			
			eS	37	46.00						1.2s	45.00nm	5.1mb	MASJ	52.30	293	P	39	14.00	-0.3			
GBA	18.79	242	P	34	24.00	-1.1						e	37	15.10	327kmX	AYN	52.41	289	ePd	39	15.20	0.2	
			S	37	38.00							e	46	40.00		ATZ	52.57	294	iPd	39	17.50	1.3	
WHN	19.13	63	ePd	34	29.50	0.9				SNY	30.52	46	Pd	36	15.10	-1.3	MOS	52.57	323	iPd	39	15.00	-0.8
	1.0s		89.00nm			5.1mb				ELT	30.62	350	iP	36	18.00	0.9		2.0s	400.00nm			6.1mb	
	Z	24s	1.35um								1.3s	11.00nm	4.4mb				e	39	42.00	113km			
			sP	34	56.50							eS	41	13.00			e	40	25.00				
			S	37	57.00					CIT	32.26	22	eP	36	34.00	2.4	SHWJ	52.64	291	P	39	16.60	-0.4
IPM	19.59	160	ePc	34	32.40	-1.1				LEM	32.51	155	ePc	36	36.00	1.8	OBN	52.99	322	iPd	39	19.00	0.1
	0.6s		78.50nm			5.2mb				CN2	32.68	44	eP	36	34.00	-1.2		1.2s	170.00nm			5.9mb	
			e	40	51.50						1.0s	46.00nm	5.2mb	BADA	53.33	289	iPd	39	22.17	0.5			
POO	19.85	260	iPd	34	35.80	-0.4				KAGJ	33.20	68	eP	36	39.80	-0.2	KAS	53.36	305	iPd	39	22.80	0.9
BOM	20.68	262	eP	34	40.80	-3.9X				KUMJ	33.29	66	eP	36	42.00	1.3	SAGI	53.38	291	iPd	39	22.50	0.3
			eS	38	07.80					SHNJ	33.74	63	eP	36	44.70	0.2	MGD	53.48	31	eP	39	20.00	-2.4
TIY	21.10	43	Pc	34	47.40	-1.4				ASH	34.17	304	eP	36	49.50	1.3		e	39	45.00	103km		
	1.0s		120.00nm			5.2mb					1.5s	190.00nm	5.7mb				e	49	00.00				
	Z	20s	0.50um			3.9Msz				TRT	35.50	148	ePc	36	57.60	-2.0	CSS	53.98	297	eP	39	26.60	0.1
	N	11s	0.51um							MDJ	35.70	45	eP	37	00.20	-0.9	MEEK	54.79	153	eP	39	32.00	-0.4
			S	38	38.50						1.5s	23.00nm	4.9mb	PPCY	54.79	297	eP	39	32.00	-0.4			
WMQ	21.29	346	iPd	34	52.00	1.3				TKSJ	36.14	64	eP	37	06.20	1.3	MRWA	56.10	157	eP	39	41.70	-0.1
	Z	12s	1.07um			4.5MszX				BOD	37.39	17	eP	37	14.20	-0.9		0.4s	2.00nm			4.5mb	
			PP	35	16.40						1.4s	28.00nm	5.0mb	HRT	56.47	305	iP	39	45.00	0.5			
			PcP	38	52.50					WKYJ	37.44	64	eP	37	18.10	2.2	ELL	56.59	300	iP	39	45.50	0.0
			ScP	42	21.00					MAT	39.83	60	eP	37	35.00	-0.7	YLV	56.71	304	eP	39	45.30	-0.9
			PcS	42	22.00						0.9s	27.73nm	5.1mb	ISK	56.92	305	iP	39	47.70	0.1			
BTO	21.70	33	eP	34	54.00	-0.8						eS	43	48.00		KIS	56.93	312	iPd-	39	47.00	-0.5	
	N	12s	0.28um							DHR	40.25	284	iPd	37	39.50	0.2		1.0s	200.00nm			6.1mb	
	E	12s	0.53um							YAMJ	41.48	58	eP	37	49.40	0.2			e	40	11.00	97km	
			ePP	35	18.00					SVE	41.61	333	iPd	37	52.00	2.0	PUL	57.25	327	ePd	39	49.50	0.0
KSH	22.55	320	Pd	35	06.00	2.8					1.1s	400.00nm	6.1mb			1.3s	230.00nm			6.0mb			
	0.9s		840.00nm			6.1mb					Z	1Bs	0.30um	4.2Msz			i	40	17.00	114km			
	Z	26s	1.38um			4.3MszX					N	16s	0.40um				e	40	48.00				
			PP	35	33.00						E	16s	0.30um										
			SS	39	47.00								e	38	11.50	80kmX	PSN	57.45	308	iPd	39	52.00	0.8
HHC	22.68	35	P	35	05.00	0.5							e	39	27.00		KCT	57.51	304	iP	39	51.50	-0.2
	1.2s		36.00nm			4.6mb							e	47	43.00		BNT	57.83	304	iP	39	54.20	0.2
			S	38	55.00					ARU	42.24	331	iPd	37	56.70	1.5	EDC	57.88	304	iP	39	53.50	-0.8
KGM	22.76	157	eP	35	06.00	0.7					0.8s	200.00nm	6.0mb	WRA	57.90	135	P	40	02.00	7.4X			
NJ2	23.26	62	Pc	35	11.20	1.2							i	38	23.50	117kmX		1.0s	1.00nm			3.8mb X	
PRZ	23.41	329	iPc+	35	14.50	3.0X							e	39	38.20		WRA	57.90	135	P	39	54.50	-0.1
	1.2s		260.00nm	</																			

MNK	58.03	320	eP	39	54.00	-1.1	PRU	66.23	316	iPd	40	50.10	0.3	CRE	69.13	310	Pd	41	08.40	0.3	
	1.0s	238.00nm				6.2mb		1.1s	41.30nm				5.3mb		SFI	69.13	310	Pc	41	09.00	1.0
WARB	58.15	146	eP	39	56.00	-0.3			e	41	17.70	111km		PGD	69.24	310	P	41	09.97	1.1	
	0.5s	14.00nm				5.3mb			e	42	05.80				1.0s	156.60nm				5.8mb	
Izm	58.51	302	iP	39	57.90	-0.9	CTA	66.34	126	P	40	52.70	1.8	FAI	69.29	303	Pd	41	10.40	1.3	
JMB	58.68	307	iPc	40	00.00	0.1	VBY	66.45	311	ePd	40	51.50	0.2	FIR	69.58	310	eP	41	11.50	0.8	
MUN	58.70	158	iPc	39	59.40	-0.5			ePP	41	18.50		OSS	69.71	313	iPd	41	11.60	-0.1		
	1.0s	40.00nm				5.5mb	BRG	66.48	317	iPd	40	51.80	0.4	BDI	69.98	310	Pd	41	12.90	-0.4	
PRK	59.20	303	eP	40	03.00	-0.4		1.0s	30.00nm				5.2mb	TNS	70.04	317	ePd	41	14.20	0.7	
KAF	59.55	330	iP	40	05.30	-0.2			i	41	18.20	105km		PII	70.11	310	Pd	41	13.30	-0.7	
	0.6s	28.90nm				5.6mb	ROI	66.58	305	P	40	51.80	-0.5	MDI	70.21	312	Pd	41	13.90	-0.6	
PVL	59.55	308	iPd	40	07.00	1.2	TDS	66.73	305	Pd	40	53.40	0.2	VDL	70.21	313	ePd	41	14.80	0.0	
RDO	59.57	305	eP	40	06.00	0.0	NB2	66.73	328	P	40	51.90	-1.0	LLS	70.44	313	ePd	41	15.90	-0.3	
KDZ	59.61	306	iPd	40	06.00	-0.3		0.7s	63.10nm				5.6mb	WIT	70.56	320	eP	41	17.00	0.5	
RZN	60.13	306	iPc	40	10.00	-0.1	CSI	66.75	305	P	40	53.30	0.0			e	41	45.00	111km		
NUR	60.16	328	iP	40	09.40	-0.2	LJU	66.85	312	ePd	40	54.00	0.1	SLE	70.56	314	ePd	41	16.40	-0.3	
	0.5s	43.30nm				5.8mb			e	41	21.10	108km	BOB	70.62	311	Pd	41	17.80	0.6		
NPS	60.23	298	eP	40	10.00	-0.6	GEC2	66.94	315	P	40	54.70	0.2	HOFF	70.64	316	P	41	17.57	0.5	
ASPA	60.32	138	iPc	40	11.20	-0.1		0.7s	39.20nm				5.4mb	WTS	70.66	319	iPd	41	17.60	0.5	
	0.9s	36.60nm				5.5mb	NAO	66.94	328	P	40	52.29	-1.9		0.7s	43.80nm				5.4mb	
SDF	60.38	336	iP	40	11.20	0.1	MMN	66.95	305	P	40	55.20	0.7			e	41	45.00	108km		
PGB	60.46	307	iP	40	12.00	-0.1	KHC	66.98	315	Pd	40	54.90	0.3	TMA	70.70	313	iPd	41	17.30	-0.5	
KEV	60.64	338	iP	40	12.90	0.0		1.0s	16.10nm				4.9mb	ZLA	70.70	314	ePd	41	17.20	-0.4	
	0.8s	63.10nm				5.7mb			e	41	36.00	173kmX	LANF	70.73	316	P	41	17.83	0.1		
MMB	60.88	306	iP	40	14.00	-1.0			e	42	50.00		VAI	70.82	312	Pd	41	17.50	-0.7		
VTs	61.16	307	iPd	40	17.00	0.0	CEY	66.98	311	ePd	40	54.60	-0.1	FEL	70.85	315	P	41	18.41	-0.2	
UZH	61.31	314	iPd	40	17.00	-0.7			e	41	21.80	109km	STK	70.94	139	eP	41	19.00	-0.1		
	1.0s	123.00nm				5.9mb	CLL	67.00	318	iPd	40	54.30	-0.4		1.3s	7.50nm				4.4mb	
		i	40	32.00		55kmX		1.1s	41.00nm				5.3mb	WLS	71.15	315	P	41	20.21	-0.1	
		i	40	45.00					i	41	21.50	109km	CDF	71.20	315	P	41	20.30	-0.4		
		e	42	43.00			MGR	67.23	305	Pd	40	55.00	-1.3	PCP	71.30	311	P	41	20.68	-0.6	
		e	44	08.60			SOI	67.28	303	Pd	40	56.60	0.0	MMK	71.32	313	ePd	41	21.60	0.0	
KKB	61.33	306	iP	40	17.00	-1.0	VOY	67.29	312	iPd	40	56.30	-0.5	ECH	71.33	315	P	41	20.98	-0.3	
VAY	61.78	306	iP	40	20.70	-0.2			e	41	23.50	109km	ORX	71.42	312	P	41	20.40	-1.6		
	1.0s	90.00nm				5.7mb			e	43	27.20		ORO	71.42	312	P	41	20.50	-1.5		
		i	40	47.00		106km	SGO	67.33	306	P	40	56.36	-0.5	MOF	71.43	315	P	41	21.82	-0.2	
AVY	61.96	231	iPd	40	24.30	1.7	GMB	67.40	303	P	40	57.79	0.2	ADE	71.47	143	e(P)	41	23.10	0.8	
VLI	62.14	300	eP	40	21.00	-2.5		0.7s	17.10nm				5.1mb	PGF	71.48	309	P	41	22.35	-0.1	
VTY	62.20	231	iPd	40	23.90	-0.3	WET	67.43	315	iPd	40	57.70	0.3	ENN	71.49	318	eP	41	22.00	-0.1	
KZN	62.51	305	eP	40	25.00	-0.9		1.2s	86.00nm				5.5mb		0.8s	17.90nm				4.9mb	
SKO	62.53	306	iP	40	25.00	-1.0	TRI	67.44	312	ePd	40	57.00	-0.5			e	41	49.50	108km		
	0.7s	102.00nm				5.9mb			e	41	21.50	96km	WLF	71.62	317	iPd	41	24.05	1.1		
SPC	62.63	315	eP	40	26.00	-0.7	RBL	67.44	312	Pd	40	57.00	-0.6		1.0s	107.00nm				5.6mb	
ABM	62.79	231	iPd	40	27.30	-0.8	KBA	67.48	313	iPd	40	57.30	-0.7			ic	41	51.54	108km		
OJC	62.84	316	iP	40	27.30	-0.5		0.6s	16.10nm				5.2mb	FIN	71.62	311	P	41	22.28	-0.9	
	0.9s	59.00nm				5.5mb			i	41	01.80	14kmX	BSF	71.66	315	P	41	23.19	-0.2		
OHR	63.13	306	eP	40	28.20	-1.8			i	42	09.00		DIX	71.69	313	iPd	41	24.40	0.6		
	1.2s	147.00nm				5.8mb	BHG	67.68	314	iPd	40	59.00	0.0	LOMF	71.76	314	P	41	23.44	-0.5	
PHP	63.31	306	iPc	40	29.30	-1.9		1.3s	139.00nm				5.7mb	ROB	71.83	311	P	41	23.79	-0.6	
TRO	63.41	338	iPc	40	31.30	0.0	KONO	67.70	327	eP	40	58.80	-0.1	HAU	71.91	315	iPd	41	24.60	-0.2	
PVY	63.53	307	iPd	40	31.93	-0.8	DUI	67.73	307	Pd	40	58.90	-0.6		0.9s	32.90nm				5.2mb	
IYA	63.55	308	iPd	40	32.48	-0.3	HOF	67.87	317	iPd	41	00.50	0.3		Z	27s	0.10um			4.0mszx	
UPP	63.64	327	iPd	40	32.80	-0.1		0.7s	24.00nm				5.2mb	IMI	71.92	311	P	41	25.11	0.1	
		i	40	59.30		107km	FVI	67.95	313	Pd	40	59.80	-0.9	EMS	72.02	313	ePd	41	25.90	0.2	
TIR	63.79	306	iPc	40	33.00	-1.2	MOX	67.97	317	iPd	41	01.00	0.2	LSD	72.02	312	P	41	26.17	0.4	
TPE	63.84	305	eP	40	30.50	-4.1X		1.3s	52.00nm				5.3mb	RSP	72.03	312	P	41	24.75	-0.9	
PLE	63.85	308	iPd	40	35.13	0.4			e	41	05.50	14kmX	RMO	72.09	130	eP	41	27.50	1.4		
LACI	63.86	306	iPd	40	36.50	1.8			i	41	27.10			0.9s	40.00nm					5.2mb	
SRN	63.92	304	eP	40	32.40	-2.7			e	43	30.80				e	41	51.10	91kmX			
SDA	63.96	307	iPc	40	34.50	-0.8	SDI	68.19	307	Pd	41	01.20	-1.2	VITF	72.09	315	P	41	24.38	-1.4	
UZD	64.00	312	iPc	40	35.50	0.0	MOL	68.27	330	iPd	41	02.98	0.7	BH8	72.11	312	P	41	24.38	-1.6	
SRO	64.04	313	iP	40	35.30	-0.4	AQU	68.36	308	Pd	41	03.40	0.0	SAOF	72.13	311	P	41	26.01	-0.2	
	1.0s	92.80nm				5.7mb	GRF	68.40	316	iPd	41	04.40	1.0	ENR	72.16	311	P	41	25.34	-1.1	
TTG	64.08	307	iPd	40	35.33	-0.7		1.2s	84.00nm				5.5mb	DOI	72.21	311	Pd	41	24.80	-1.9	
KEK	64.10	304	eP	40	34.60	-1.7			ipPc	41	31.10	106km	AUTN	72.22	311	P	41	26.99	0.1		
ULC	64.15	307	iPd	40	36.33	-0.3	ARV	68.45	309	Pd	41	03.90	0.0	STV	72.22	311	P	41	25.39	-1.4	
NKY	64.21	308	iPd	40	36.67	-0.4	WTTA	68.59	313	iPd	41	03.90	-1.0	S8F	72.25	311	P	41	26.88	0.0	
BDV	64.41	307	iPd	40	37.31	-1.0		0.6s	23.80nm				5.2mb	LPG	72.29	312	iPd	41	27.70	0.3	
BRY	64.53	308	iPd	40	38.63	-0.6			i	42	08.80	282kmX		1.0s	65.00nm					5.4mb	
ZST	64.80	314	iPd	40	40.30	-0.4			i	42	14.80		LPL	72.30	312	iPd	41	27.70	0.3		
	0.5s	28.90nm				5.5mb	WATA	68.62	314	iPd	41	04.00	-1.0	PZZ	72.31	311	P	41	25.48	-1.9	
MOR7	64.86	334	iPd	40	40.62	-0.2			i	41	08.90	16kmX	AURF	72.32	311	P	41	27.22	-0.1		
KSP	65.01	317	iPd	40	42.20	0.2	FUR	68.65	314	eP	41	05.30	0.2	RSL	72.32	313	P	41	27.50	0.1	
	1.0s	*****nm				8.7mb X		1.3s	76.00nm				5.4mb	TOUF	72.34	311	P	41	27.48	-0.1	
		i	41	09.00		107km	RSM	68.71	310	Pd	41	05.90	0.5	RRL	72.42	312	P	41	27.68	-0.4	
		e	42	07.50			ASS	68.74	309	Pd	41	05.30	-0.4	BNI	72.46	312	Pd	41	27.90	-0.3	
LOF	65.30	336	eP	40	44.64	1.1	CTI	68.83	312	Pd	41	05.50	-0.8	DOU	72.48	318	P	41	28.70	0.7	

01d 16h

	0.8s	21.75nm		5.0mb	FRS	84.79	235	iPc	42	36.00	0.9	GUN	88.14	299	P	32	10.40	0.9				
Z	26s	0.10um		4.0mszx		0.8s	40.00nm			5.4mb		PKI	88.45	299	P	32	11.60	0.6				
LBF	73.73	315	iPd	41	35.30	-0.2	IFR	85.01	304	iP	42	39.00	2.5	KKK	88.62	299	P	32	12.40	0.8		
	0.8s	28.75nm		5.1mb	GRM	85.69	231	iPc	42	41.50	1.9	DMN	88.72	299	P	32	13.00	0.8				
SMF	73.92	314	iPd	41	36.60	0.1		1.0s	100.00nm		5.8mb	GKN	89.23	299	P	32	14.80	0.4				
	0.8s	58.30nm		5.5mb						43	07.00	96km	YKA	96.13	27	eP	32	43.90	-1.2			
BRW	73.99	19	eP	41	36.67	0.3	TIO	87.74	303	iP	42	51.60	1.7		0.4s	0.20nm		3.9mb				
SSF	74.02	315	iPd	41	37.30	0.2					43	18.60	102km	KAF	123.35	339	iPKP	38	12.90	-0.9		
	1.0s	69.00nm		5.4mb	WIN	87.94	245	iPd	42	52.50	1.6		0.5s	2.30nm								
AVF	74.20	314	iPd	41	38.10	0.0		0.7s	56.00nm		5.7mb	NUR	125.03	338	iPKP	38	16.70	-0.4				
	1.1s	54.45nm		5.3mb						43	19.00	99km		0.4s	4.00nm							
COLF	74.35	313	P	41	39.46	0.4	SUR	89.45	234	iPc	42	58.50	0.6	NB2	128.76	345	PKP	38	23.50	-0.9		
HYF	74.52	315	iPd	41	40.60	0.6		1.0s	200.00nm		6.2mb		0.8s	1.70nm								
BGF	74.60	314	iPd	41	40.50	0.1					43	43.00	178kmX	HFS	128.86	343	ePKP	38	23.30	-1.2		
	0.9s	25.20nm		5.0mb	YKA	91.48	13	eP	43	06.50	-0.1		0.5s	1.40nm								
MAF	74.89	314	iPd	41	42.80	0.7		0.9s	3.90nm		4.7mb	GEC2	137.83	334	PKP	38	43.60	1.5				
	1.3s	70.40nm		5.3mb	KIC	95.95	279	P	43	29.00	1.1		0.8s	0.88nm								
TCF	75.10	314	iPd	41	43.90	0.5	TIC	96.09	280	P	43	29.60	1.0	BCAO	147.58	258	iPKPd	39	01.90	2.1		
BCAO	75.37	269	iPd	41	44.80	-0.6	LIC	96.26	279	P	43	30.40	1.1		0.7s	12.00nm						
	0.4s	45.00nm		5.6mb	TOV	143.76	333	ePKP	49	35.30	-1.1			ic	39	48.00						
		id	42	09.80	96km	BAO	143.91	275	iPKPd	49	35.50	-1.1										
LSF	75.56	314	iPd	41	46.10	0.2					49	38.20										
	1.2s	33.90nm		5.0mb						50	02.00											
CAF	75.62	313	iPd	41	47.00	0.6	VAO	144.63	263	ePKP	49	37.80	0.2									
	0.9s	30.95nm		5.1mb						50	04.20											
LDF	75.87	317	iPd	41	47.90	0.3	SDV	144.92	334	iPKPd	49	38.10	-0.4									
	0.9s	45.85nm		5.3mb	PPD	148.46	265	ePKP	49	49.20	5.4X											
RJF	75.87	313	iPd	41	48.70	1.0					50	15.70										
	1.1s	72.05nm		5.4mb	SIV	155.91	283	PKP	50	09.40	14.7X	KSP	0.58	142	iP	44	42.50	-1.7				
Z	29s	0.10um		4.0mszx	TCA	159.76	242	iPKPc	50	01.00	2.1X				iS	44	52.00					
FLN	76.04	317	iPd	41	48.70	0.2	ZOBO	162.25	290	PKP	50	04.70	2.3X	BRG	1.20	250	iPg	44	56.50	1.0		
	0.8s	16.80nm		4.9mb						50	04.70					iSg	45	16.40				
LPO	76.29	313	iPd	41	50.90	0.8		1.0s	15.00nm				PRU	1.51	210	ePn	45	00.50	0.1			
	0.5s	30.75nm		5.4mb	LPB	162.34	289	PKP	50	03.80	1.5											
GRR	76.40	317	iPd	41	50.90	0.3	CNCB	162.35	288	PKP	50	05.10	2.6X		0.5s	22.30nm						
	0.7s	25.15nm		5.1mb												Pg	45	02.50				
ARMA	76.49	132	iPd	41	55.10	3.7X										Sn	45	19.80				
		e	42	18.00	87kmX											Sg	45	26.10				
LFF	76.51	313	iPd	41	52.20	1.0										i	45	32.70				
	0.5s	19.90nm		5.2mb												iPn	45	01.60	-1.6			
MFF	76.54	315	iPd	41	51.80	0.4										iPg	45	04.70				
	1.0s	28.40nm		5.0mb												iSg	45	30.80				
LPF	76.64	317	iPd	41	52.50	0.6	GSC	0.38	7	iPd	55	47.02	0.0	KHC	2.57	213	Pn	45	16.00	0.3		
GRBF	76.66	311	P	41	52.23	0.0	SSK	0.99	224	eP	55	58.05	-1.2				ePg	45	25.50			
LESF	76.77	311	P	41	53.02	0.2					56	11.67					eSn	45	51.00			
YRC	76.92	322	eP	41	54.30	1.0	PEC	1.06	193	eP	55	59.03	-1.3				eSg	46	04.00			
YRH	77.10	322	eP	41	55.20	0.9					56	13.44		HOF	2.64	250	ePn	45	15.90	-0.7		
	1.1s	21.00nm		4.9mb			ISA	1.51	300	eP	56	06.33	-1.6	MOX	2.68	258	ePg	45	24.60	7.4X		
TOO	77.18	141	eP	41	57.50	2.5					56	28.10					iSg	46	04.20			
BUL	77.36	242	iPc	41	56.60	0.1	PLM	1.57	180	eP	56	07.84	-1.0	OJC	2.80	111	iP	45	20.30	1.4		
	0.9s	35.71nm		5.2mb							56	28.46					iS	45	56.50			
		iPp	42	23.00	102km		TPNV	2.08	14	ePn	56	14.25	-2.0	WET	2.83	221	ePn	45	20.00	0.7		
IMA	77.37	23	eP	41	55.32	-0.5					56	46.52		VKA	3.06	173	iPg	45	30.70	8.2X		
	0.8s	2.39nm		4.1mb X			GLA	2.52	137	ePn	56	20.14	-2.3				iSg	46	14.30			
ENSF	77.50	311	P	41	57.49	0.5					57	00.57		ZST	3.23	163	eP	46	22.20	57.3X		
CAN	77.81	137	eP	42	01.80	3.2X	BCH	2.65	277	ePn	56	22.10	-2.3	GRF	3.30	243	ePn	45	26.30	0.4		
AKU	77.84	337	iP	42	00.90	2.8	TNP	3.16	355	ePg	56	38.13	6.4				ePg	45	37.40			
	1.1s	35.44nm		5.1mb			MEMM	3.21	329	(Pn)	56	31.57	-0.5				eSg	46	24.30			
DMU	77.97	324	eP	42	00.70	1.6	ARUT	3.98	43	ePn	56	41.87	-1.3	KBA	4.50	201	iPnc	45	43.30	0.1		
DLF	77.99	323	eP	42	00.50	1.3											iSg	47	00.70			
CNB	78.04	137	eP	41	57.40	-2.4								WTTA	4.85	215	iPnc	45	48.00	-0.1		
EGRA	78.17	311	eP	41	58.50	-1.9																
MBC	78.58	8	eP	42	03.00	0.9																
	0.6s	3.00nm		4.3mb X																		
ECRI	79.53	312	eP	42	09.30	1.4																
FBA	80.08	23	(P)	42	10.51	0.2																
	0.9s	5.60nm		4.4mb																		
SLR	80.49	237	iPd	42	13.20	-0.2																
	0.8s	74.00nm		5.6mb																		
		i	42	38.80	98km		DZM	9.12	182	iPc	21	45.10	0.4									
EVIA	81.02	308	eP	42	15.60	-0.4								MTN	16.05	170	eP	10	59.00	1.4		
GUD	81.42	310	iPd	42	19.40	1.4											eS	12	20.00			
SLKM	81.58	27	eP	42	18.89	0.6	CTA	20.97	247	iP	24	08.00	1.1	ASPA	27.11	169	eP	12	54.80	0.0		
KSR	81.63	237	iPd	42	20.00	0.7	ARMA	22.39	216	iPd	24	23.00	2.1		0.3s	4.70nm						
	1.0s	80.00nm		5.5mb													eS	16	41.30			
PRY	81.73	236	iPd	42	21.00	1.2	CMS	26.74	223	eP	25	00.00	-1.6	LOE	29.79	300	eP	13	19.10	0.0		
	1.0s	20.00nm		4.9mb			STK	29.89	227	eP	25	28.60	-1.1	XAN	35.76	332	P	14	10.60	-0.2		
SEK	82.33	235	iPd	42	23.00	0.1																
	0.8s	53.00nm		5.4mb																		
EGUA	82.50	307	eP	42	23.70	0.2	WB2	31.89	253	iPc	25	46.50	-0.8		1.0s	16.00nm						
ELUQ	82.72	308	eP	42	25.20	0.5																
EPLA	83.00	311	eP	42	27.70	1.6	WRA	31.90	253	P	25	46.80	-0.6	STK	36.96	161	eP	14	19.00	-1.0		
DZM	83.23	117	iPc	42	46.20	18.7X																
EHOR	83.33	308	iPd	42	28.70	1.0																
BLF	83.82	235	iPd	42	31.20	0.7	ASPA	32.97	246	iPd	2											

HVAR	66.01	308	eP	52	12.80	-1.1
PRU	66.25	316	eP	52	15.00	-0.3
			e	52	38.00	90km
VBY	66.46	311	eP	52	17.00	0.2
BRG	66.50	317	e(P)	52	17.00	0.1
			e	52	44.00	108kmX
NB2	66.78	328	P	52	17.50	-1.1
	0.5s		4.70nm			4.7mb
KHC	67.00	315	eP	52	20.00	-0.2
			e	52	31.00	36kmX
			e	52	45.50	
KBA	67.50	313	iPd	52	22.90	-0.6

	1.0s	5.20nm		4.4mb
CDF	71.23 315 eP		52 45.60	-0.6
	0.3s	0.80nm		4.1mb
HAU	71.93 315 eP		52 49.30	-1.0

0.6s 3.50nm 4.4mb

	0.7 s	22.00nm			5.1mb
LPG	72.31	312 eP	52	53.10	0.2
	0.5 s	3.45nm			4.5mb
LPL	72.31	312 eP	52	53.10	0.2
	0.4 s	3.55nm			4.6mb
DAG	72.73	347 eP	52	54.00	-0.5
CMS	73.29	136 eP	52	58.50	0.1
LBF	73.75	315 eP	53	00.60	-0.4
	0.5 s	1.60nm			4.1mb
SMF	73.94	314 eP	53	01.90	-0.2
	0.5 s	4.25nm			4.6mb
SSF	74.04	315 eP	53	02.50	-0.1
	0.5 s	3.80nm			4.5mb
AVF	74.22	314 eP	53	03.40	-0.2
	0.5 s	1.95nm			4.2mb
BGF	74.62	314 eP	53	05.90	-0.1
	0.3 s	0.95nm			4.1mb
TCF	75.12	314 eP	53	09.30	0.4
	0.8 s	4.05nm			4.3mb
BCAO	75.32	269 iPc	53	10.30	-0.3
	0.8 s	11.00nm			4.8mb
		id	53	35.20	96km
LPO	76.31	313 eP	53	16.20	0.6
	0.5 s	6.05nm			4.7mb
ARMA	76.47	132 iPd	53	20.30	3.5X
	0.7 s	10.00nm			4.8mb
TOO	77.15	141 iPd	53	21.30	1.0
	0.7 s	19.00nm			5.1mb
BUL	77.28	241 iPc	53	21.60	0.1
CAN	77.79	137 e(P)	53	24.30	0.4
CNB	78.01	137 iPc	53	35.40	10.3X
	0.9 s	17.00nm			
MBC	78.67	8 eP	53	29.00	1.0
SLR	80.40	237 e(P)	53	38.10	-0.3
KSR	81.54	237 e(P)	53	46.00	1.7
YKA	91.57	13 eP	54	31.70	-0.8
	0.9 s	1.50nm			4.3mb
MEO	121.07	13 iPKPc	00	18.00	-0.8
BAO	143.87	275 (PKP)	01	08.00	5.9X
		i	01	28.00	
PPD	148.40	265 ePKP	01	14.60	5.3X
SIV	155.88	283 PKP	01	34.40	14.2X
		i	02	06.20	
		i	02	10.40	
ZOBO	162.23	290 PKP	01	28.00	0.0
S.D. = 0.9 on 99 of 111 obs.					

? APR 01, 1993 18h 54m 26.92± 2.55s					
9.300 N ±33.4km 84.938 W ± 9.3km					
DEPTH = 33.0km (normal)					
4.9mb (5 obs.)					
COSTA RICA (78)					
YUP	6.81	316 iPd	56	07.36	0.0
		iS	57	02.68	
QZG	6.86	321 iPd	56	07.16	-0.9
		iS	56	42.70	
IXG	7.25	312 iPc	56	13.98	0.4
		iS	57	14.02	
MRL	7.38	321 iPd	56	13.97	-1.3
GCG	7.59	314 iPd	56	19.60	1.4
RDG	7.84	317 iPd	56	21.44	-0.4
TPX	9.07	309 iP	56	39.50	0.9
PPM	16.43	308 iP	58	17.30	0.0
III	16.73	304 iPc	58	22.10	1.3
GBTN	26.25	1 eP	00	00.18	-0.8
	26.56	321 eP	00	01.24	-2.7

01d 19h

CEH 27.00 10 eP 00 07.99 0.2
0.8s 27.97nm 4.9mb
BLA 28.09 8 eP 00 19.11 1.4
1.3s 33.55nm 4.9mb
NAV 28.14 7 eP 00 19.00 0.8
FVM 28.98 351 (P) 00 22.44 -3.3X
0.4s 9.01nm 4.8mb
CVL 29.15 11 eP 00 28.18 1.0
TUC 33.11 317 (P) 01 07.74 5.5X
1.4s 46.28nm 5.2mb
EEO 37.55 7 eP 01 43.00 3.2X
LMN 40.31 22 eP 02 10.50 7.7X
02 46.00 162kmX
ULM 41.82 349 eP 02 14.50 -0.6
CMB 42.82 318 (P) 02 23.62 0.0
JAO 44.99 8 eP 02 40.50 -0.4
FCC 49.84 354 eP 03 21.50 2.9X
FRB 55.60 9 eP 04 00.50 -1.0
YKA 57.29 344 eP 04 09.50 -4.1X
0.9s 1.50nm 4.0mb
MBC 69.47 352 eP 05 34.00 0.4
WB2 140.63 250 iPKP 14 11.20 15.4X
WRA 140.64 250 PKP 14 05.20 9.4X
0.8s 0.30nm
WARB 145.69 237 ePKP 14 21.60 17.2X
S.D. = 1.1 on 20 of 29 obs.

? APR 01, 1993 19h 28m 38.09±1.90s
37.813 S ±12.3km 178.413 E ±23.3km
DEPTH = 85.1 ± 10.6 km
3.8mb (2 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ 0.23 337 P 28 49.70 -0.9
eS 28 57.70
PUZ 0.29 205 P 28 52.70 1.6
S 29 02.60
NOZ 0.86 200 P 28 59.30 3.3X
URZ 1.12 246 P 29 00.40 1.3
S 29 16.30
KUZ 2.40 296 P 29 14.20 -1.9
S 29 39.30
MOZ 2.93 255 P 29 24.70 1.3
MNG 3.61 218 P 29 32.10 -0.7
S 30 14.20
MTW 4.03 213 eP 29 37.50 -1.2
BLW 4.21 212 eP 29 40.40 -0.9
ORZ 5.47 235 eP 29 54.90 -3.8X
WB2 42.06 282 eP 36 23.30 0.3
0.4s 3.00nm 4.5mb
WRA 42.07 282 P 36 24.00 0.9
0.7s 0.20nm 3.1mb
S.D. = 1.5 on 10 of 12 obs.

APR 01, 1993 19h 30m 23.80±0.82s
61.418 N ± 7.1km 5.675 E ± 7.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.8 (BER).

FOO 0.35 301 eP 30 31.40 0.3
eS 30 38.07
HYA 0.35 135 eP 30 30.55 -0.5
eS 30 34.85
ASK 0.97 194 eP 30 42.04 -0.1
eS 30 55.70
EGD 1.17 191 eP 30 45.49 -0.2
eS 31 01.60
MOL 1.46 37 eP 30 49.09 -1.0
eS 31 08.49
NRA0 2.93 101 ePn 31 12.75 1.5
ePg 31 16.45
eSn 31 45.75
S.D. = 1.1 on 6 of 6 obs.

* APR 01, 1993 20h 18m 43.31±0.71s
12.894 N ± 8.9km 143.398 E ±17.2km
DEPTH = 33.0km (normal)
4.8mb (13 obs.)
SOUTH OF MARIANA ISLANDS (210)

LAT 19.76 169 iPe 23 25.60 12.0X
KAGJ 21.55 330 P 23 34.00 2.1
WKYJ 22.38 343 eP 23 41.80 1.5
TKSJ 22.65 339 P 23 44.40 1.5
KUMJ 22.69 332 P 23 45.30 2.1
SHNJ 23.91 334 P 23 55.30 0.2

YONJ 23.95 340 eP 23 55.90 0.4
MAT 24.00 350 eP 23 54.00 -2.0
1.0s 17.00nm 4.5mb
DL2 32.30 327 eP 25 11.50 0.1
0.8s 52.00nm 5.5mb
TIA 33.12 319 eP 25 18.50 -0.1
WB2 33.82 195 iPd 25 25.00 0.2
0.4s 9.00nm 5.0mb
BJI 36.12 323 eP 25 50.10
1.2s 33.00nm 5.1mb
TIY 37.04 317 P 25 52.60 0.5
ASPA 37.50 194 eP 25 57.10 1.1
0.8s 4.70nm 4.4mb
XAN 37.72 310 eP 25 57.60 -0.2
1.0s 7.80nm 4.5mb
HHC 39.38 321 P 26 05.80 28kmX
pP 26 11.60
sP 26 12.00 0.2
CD2 40.65 303 eP 26 22.60 0.4
0.5s 28.00nm 5.3mb
DZM 41.45 147 iPd 26 30.00 1.1
WARB 42.12 203 eP 26 35.50 1.2
LZH 42.35 310 eP 26 37.50 1.2
1.5s 43.00nm 5.0mb
GTA 46.57 313 P 27 10.00 -0.1
1.0s 18.00nm 5.0mb
GUN 55.48 295 P 28 16.60 -1.4
PKI 55.88 295 P 28 19.00 -1.9
KKK 56.00 295 P 28 20.60 -1.0
DMN 56.15 295 P 28 22.00 -0.7
GKN 56.58 295 P 28 24.00 -1.7
WMO 56.58 314 P 28 25.00 -0.4
MBC 79.29 14 eP 30 44.50 -2.1
YKA 84.13 27 eP 31 07.80 -4.3X
0.5s 1.70nm 4.5mb
KAF 90.75 335 iP 31 39.80 -4.3X
0.5s 3.20nm 4.9mb
NUR 92.26 334 iP 31 46.90 -4.1X
0.4s 1.70nm 4.8mb
KIC 143.01 299 PKP 38 09.60 -6.9X
TIC 143.10 300 PKP 38 10.00 -6.7X
LIC 143.33 299 PKP 38 10.70 -6.3X
ZOB0 149.33 100 PKP 38 25.80 -1.7
SIV 156.11 100 PKP 38 48.20 11.7X
S.D. = 1.3 on 28 of 36 obs.

? APR 01, 1993 20h 52m 40.38±4.16s
5.509 S ±36.2km 147.837 E ±44.8km
DEPTH = 192.5 ± 9.7 km
4.6mb (1 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

FINC 1.10 179 eP 53 10.30 0.0
LAT 1.42 216 iPe 53 13.50 0.5
YYYY 2.00 249 eP 53 09.00 -9.8X
MDG 2.06 277 eP 53 19.20 -0.1
PMG 3.93 190 eP 53 41.00 -0.6
eS 54 27.00
WB2 19.44 221 iPd 56 53.80 -0.5
0.3s 40.90nm 5.4mb X
ASPA 22.50 215 iPd 57 26.00 1.5
0.8s 16.50nm 4.6mb
eS 01 31.70
WARB 28.86 222 eP 58 23.00 -0.1
MEEK 34.90 230 eP 59 15.00 -0.6
S.D. = 0.9 on 8 of 9 obs.

% APR 01, 1993 21h 31m 29.24±0.98s
40.702 N ± 7.7km 23.754 E ±12.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.8 (THE).

SOH 0.33 292 iPg 31 35.97 -0.1
eSg 31 40.82
OUR 0.41 155 iPg 31 37.57 0.0
eSg 31 43.18
SRS 0.43 344 ePg 31 38.02 -0.1
PAIG 0.78 184 ePg 31 44.30 0.0
KNT 0.79 306 ePg 31 44.82 0.1
eSg 31 54.82
S.D. = 0.1 on 5 of 5 obs.

* APR 01, 1993 21h 50m 15.86±1.63s
21.735 S ±15.3km 67.620 W ±18.6km

DEPTH = 33.0km (normal)
CHILE-BOLIVIA BORDER REGION (124)
YJA 2.01 103 iPe 50 49.00 0.4
HJA 2.52 126 iPe 50 55.20 -0.2
S 51 26.30
ANT 3.24 232 iP 51 08.00 2.4X
IS 51 49.20
SLA 3.56 147 ePd 51 03.00 -7.3X
CCH 4.55 18 P 51 23.10 -1.4
CNCB 4.91 356 iPd 51 31.30 1.5
LPB 5.19 355 P 51 34.00 0.2
ZOB0 5.46 355 iPd 51 37.60 0.0
ARE 6.40 324 eP 51 50.00 -0.6
eS 53 01.00
SIV 8.43 48 P 52 21.00 2.3X
S.D. = 1.1 on 7 of 10 obs.

& APR 01, 1993 22h 12m 53.55s
66.048 N 143.765 W
DEPTH = 0.0km
NORTHERN ALASKA (676)
<AEIC>. ML 2.6 (AEIC).

FYU 0.79 312 eP 13 08.02 -1.3
S 13 20.68
GLM 1.85 236 eP 13 27.06 0.2
eS 13 51.91
FBA 2.04 237 eP 13 28.50 -1.0
eS 13 55.47
HDA 2.13 221 eP 13 30.15 -0.7
eS 13 59.86
MDM 2.16 242 eP 13 33.65 2.4
CCB 2.20 232 eP 13 30.79 -1.1
eS 14 01.16
WRH 2.41 231 eP 13 34.88 0.0
DOT 2.41 183 eP 13 36.94 1.9
S 14 08.39
NEA 2.67 239 eP 13 40.26 1.6
IMA 4.04 275 eP 13 56.03 -2.1
10 obs. associated

% APR 01, 1993 22h 21m 14.01±1.26s
39.907 S ± 4.4km 174.375 E ± 5.0km
DEPTH = 146.7 ± 14.9 km
NORTH ISLAND, NEW ZEALAND (159)

BSZ 0.44 76 P 21 35.00 0.1
NRZ 0.66 329 P 21 36.30 0.1
S 21 49.80
DIW 0.96 201 P 21 38.30 -0.1
KIW 1.04 157 P 21 38.80 -0.3
MNG 1.11 130 P 21 39.80 0.1
S 21 55.60
CNZ 1.15 52 P 21 40.10 -0.1
NGZ 1.20 53 P 21 40.60 -0.1
TCW 1.31 183 P 21 41.70 0.1
CAW 1.31 156 P 21 41.80 0.1
MRW 1.35 169 P 21 42.10 0.1
S 21 59.80
WEL 1.41 168 P 21 42.70 0.0
S 22 02.30
MOZ 1.44 14 P 21 43.10 0.1
S 22 02.70
MTW 1.52 146 P 21 43.70 -0.1
PGZ 1.62 117 P 21 44.80 -0.1
MOW 1.65 156 P 21 45.30 0.0
BLW 1.68 151 P 21 45.70 0.1
ORZ 1.68 236 P 21 45.40 -0.3
S 22 07.30
THZ 2.16 211 P 21 51.50 0.1
eS 22 18.40
KHZ 2.59 194 P 21 56.70 0.2
eS 22 25.10
DSZ 2.68 226 P 21 57.60 -0.2
S.D. = 0.2 on 20 of 20 obs.

APR 01, 1993 22h 22m 33.47±0.72s
46.956 N ± 7.3km 112.472 W ± 5.9km
DEPTH = 5.0km (geophysicist)
MONTANA (456)
ML 3.9 (GS). MD 3.9 (BUT).
Felt (IV) at Lincoln and
Morysville; (III) at Helmville
and Sun River; (II) at Heleno.

HRY 0.50 119 P 22 43.80 0.2

BUT 0.94 184 P 22 52.20 0.1
 LRM 1.13 179 P 22 55.40 0.0
 HBMT 1.17 185 P 22 56.10 0.2
 SXM 1.19 132 P 22 56.70 0.5
 LCCM 1.19 160 P 22 56.50 0.2
 NCM 1.45 280 iPnc 23 01.50 1.0
 MEMT 1.71 142 P 23 04.10 -0.1
 BGMT 1.75 170 P 23 04.30 -0.6
 MCMT 2.14 187 P 23 10.00 -0.6
 TPMT 2.30 166 P 23 12.30 -0.6
 EBI 2.50 269 ePn 23 17.48 1.8
 NEW 3.41 294 eP 23 27.83 -0.6
 S.D. = 0.8 on 17 of 22 obs.

DPW 4.00 285 eP 23 35.75 -1.0
 eS 24 19.53
 24 37.21
 BW06 4.66 153 (P) 23 46.22 -0.2
 HVU 5.18 183 eP 23 54.70 1.0X
 eS 25 14.30
 VGB 5.94 259 eP 24 02.41 -1.8X
 LON 6.41 272 (P) 24 10.07 -0.8
 RSSD 6.57 113 eP 24 09.64 -3.7X
 0.5s 3.59nm 4.6mb
 DAU 6.60 172 (Pn) 24 14.39 0.5
 DUG 6.76 182 (P) 24 16.14 0.1X
 YKA 15.62 356 eP 26 10.30 -5.3X
 0.4s 0.40nm 3.0mb
 S.D. = 0.8 on 17 of 22 obs.

APR 01, 1993 22h 53m 44.72±0.51s
 21.159 N ± 5.0km 121.876 E ± 9.4km
 DEPTH = 10.0km (geophysicist)
 4.2mb (11 obs.) 3.9Msz (1 obs.)
 TAIWAN REGION (243)

BBP 0.72 173 iPc 53 59.00 0.1
 iS 54 10.00
 PIP 3.06 203 iPd 54 34.50 0.5
 CVP 3.44 181 ePd 54 40.00 0.6
 eS 55 20.50
 SZP 3.83 201 iPd 54 54.00 9.0X
 QZH 4.83 322 eP 54 58.70 -0.5
 S 55 54.30
 BAG 4.88 195 eP 55 01.50 1.4
 HKC 7.25 280 P 55 32.10 -1.2
 S 56 52.00
 GYA 14.88 294 P 57 23.40 6.3X
 Z 16s 0.75um
 XAN 17.20 321 P 57 48.40 1.7
 1.0s 7.10nm 3.8mb
 Z 16s 0.65um
 N 14s 0.42um
 E 14s 0.34um
 pP 57 57.30
 sP 58 02.00
 KMI 18.03 286 ePg 57 40.50 -16.9X
 Sg 58 16.00
 TIY 18.41 336 eP 58 03.50 1.7
 Z 18s 0.97um
 E 16s 0.72um
 S 01 30.00
 CD2 18.93 305 iPc 58 08.70 0.5
 0.8s 42.00nm 4.7mb
 BJI 19.44 347 eP 58 12.50 -1.8
 N 12s 0.61um
 eS 01 50.00
 SNY 20.66 4 eP 58 26.40 -0.7
 HHC 21.49 338 P 58 35.40 -0.4
 1.2s 14.00nm 4.2mb
 LZM 21.66 317 eP 58 38.00 0.3
 1.4s 32.00nm 4.5mb
 Z 16s 0.44um 4.0MszX
 CN2 22.77 7 eP 58 49.50 1.1
 0.8s 3.80nm 4.0mb
 Z 18s 0.36um 3.9Msz
 epP 58 57.00 27kmX
 MDJ 24.25 14 eP 59 05.20 2.4
 1.0s 9.20nm 4.3mb
 GTA 26.22 319 eP 59 22.00 0.3
 Z 16s 0.29um 3.9MszX
 GUN 33.34 289 P 00 25.60 0.0
 PKI 33.74 288 P 00 28.20 -0.8
 KKN 33.87 289 P 00 30.00 0.0
 DMN 34.01 288 P 00 31.00 -0.3
 GKN 34.44 289 P 00 34.40 -0.5
 WRA 42.63 163 P 01 34.70 -8.4X
 0.7s 0.20nm 3.0mb X
 WB2 42.63 163 eP 01 39.50 -3.6X

ASPA 0.5s 3.20nm 4.3mb
 46.07 165 eP 02 08.60 -2.1
 0.3s 3.00nm 4.8mb
 KAF 74.09 331 iP 05 22.90 0.4
 0.5s 1.40nm 4.2mb
 MBC 76.06 12 eP 05 32.50 -1.2
 YKA 85.50 23 eP 06 22.60 -1.2
 0.8s 1.00nm 4.1mb
 GEC2 85.58 321 P 06 24.30 -0.3
 0.9s 0.59nm 3.8mb
 S.D. = 1.1 on 26 of 31 obs.

? APR 02, 1993 00h 27m 53.91±1.02s
 11.330 S ±13.8km 165.988 E ±19.1km
 DEPTH = 33.0km (normol)
 4.3mb (6 obs.)
 SANTA CRUZ ISLANDS (184)

DZM 10.69 178 iPc 30 28.10 0.1
 iS 32 28.00
 CTA 20.88 243 eP 32 39.00 3.1X
 ARMA 23.21 213 eP 32 59.10 0.0
 0.9s 24.00nm 4.7mb
 CMS 27.38 220 iPd 33 40.10 1.8X
 0.3s 9.00nm 4.9mb
 STK 30.41 224 iPd 34 04.80 -0.7
 0.8s 2.50nm 4.1mb
 WB2 31.60 250 eP 34 16.90 0.8
 0.9s 2.60nm 4.1mb
 WRA 31.61 250 P 34 12.10 -4.1X
 0.8s 0.30nm 3.2mb X
 ASPA 32.88 244 eP 34 26.60 -0.7
 0.9s 5.60nm 4.5mb
 YKA 95.12 27 eP 41 14.00 -0.6
 0.6s 0.30nm 3.9mb
 BCAA 147.06 261 iPKPd 47 35.00 1.1
 0.5s 13.00nm
 ic 47 50.20
 S.D. = 0.9 on 7 of 10 obs.

& APR 02, 1993 01h 28m 30.20s
 37.010 N 89.000 W
 DEPTH = 5.0km (geophysicist)
 CAPE GIRARDEAU, MISSOURI REGION(487)
 <SLM-P>. MD 2.5 (SLM), 2.5
 (TEIC). mbLg 2.5 (GS). Felt (IV)
 at Cunningham and Kevil,
 Kentucky. Felt (III) at Barlow
 and La Center, Kentucky.

ELC 0.33 327 ePc 28 35.39 -1.4
 eS 28 40.61
 DWM 0.44 243 eP 28 38.74 -0.3
 S 28 44.75
 NMMO 0.61 227 eP 28 41.54 -0.9
 S 28 49.98
 ACTN 0.71 201 ePc 28 43.83 -0.5
 S 28 53.80
 OGTN 0.71 214 eP 28 43.29 -1.0
 S 28 53.32
 UTMA 0.72 178 eP 28 42.80 -1.7
 BBTN 0.72 211 ePd 28 44.24 -0.4
 LDMO 0.75 217 eP 28 43.92 -1.3
 S 28 53.87
 GRT 0.82 205 eP 28 45.10 -1.4
 MFTN 0.90 201 ePd 28 46.59 -1.4
 S 29 00.24
 DRTN 0.92 199 ePd 28 46.80 -1.4
 eS 28 59.20
 NHIL 1.13 36 eP 28 50.66 -1.1
 BPIL 1.23 15 ePc 28 52.65 -0.9
 WDJN 1.49 43 eP 28 56.20 -1.4
 FVM 1.49 311 eP 28 56.52 -1.2
 eS 29 14.58
 LRDO 1.72 233 eP 29 00.42 -0.5
 eS 29 23.38
 TYS 1.96 321 ePc 29 04.84 0.5
 S 29 31.19
 CCMO 2.06 326 eP 29 06.64 0.7
 S 29 35.99
 AFAR 2.22 248 eP 29 08.44 0.3
 eS 29 36.96
 OLY 2.50 234 (P) 29 12.43 0.2
 eS 29 46.73
 LGAR 2.71 210 eP 29 13.90 -1.3
 21 obs. associated

APR 02, 1993 01h 56m 31.36±0.11s
 17.840 S ± 2.8km 177.073 W ± 3.2km
 DEPTH = 361.8km (24 depth phases)
 5.4mb (61 obs.)

FIJI ISLANDS REGION (181)
 Mw 5.7 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 40S, 75C
 Centroid Location:
 Origin Time 01:56:38.7 0.3
 Lat 17.44S 0.03 Lon 176.79W 0.02
 Dep 391.5 1.3 Half-duration 1.7
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.07 0.05 Mtt= 0.74 0.09
 Mff=-0.81 0.09 Mrt=-0.65 0.08
 Mrf= 1.89 0.08 Mtf=-3.14 0.08
 Principal Axes:
 T Val= 3.96 Plg=24 Azm=222
 N -0.33 59 0
 P -3.63 18 123
 Best Double Couple: Mo=3.8*10**17
 NP1: Strike=261 Dip=59 Slip= 176
 NP2: 354 86 31

VUN 4.25 267 iPd 57 47.20 3.1X
 SVA 4.26 266 iPd 57 48.70 4.5X
 eS 59 14.30
 DZM 16.06 252 iPc 59 59.30 0.1
 iS 02 54.00
 SCp 07 35.00
 KUZ 19.88 197 P 00 40.30 2.9X
 HBZ 20.10 191 eP 00 42.60 3.1X
 WLZ 20.97 196 P 00 50.90 3.0X
 URZ 20.97 193 eP 00 46.60 -1.4
 NOZ 21.14 191 P 00 52.00 2.4
 PAHZ 21.56 193 P 00 54.50 0.8
 MOZ 21.78 197 P 00 57.60 1.9
 NGZ 22.20 195 eP 00 59.20 -0.7
 CNZ 22.23 195 eP 00 59.70 -0.4
 WAHZ 22.52 193 eP 01 01.70 -1.0
 NRZ 22.80 198 P 01 08.60 3.3X
 BSZ 22.95 196 eP 01 05.50 -1.2
 PGZ 23.41 193 P 01 10.30 -0.6
 KIW 23.96 195 eP 01 14.90 -1.1
 MTW 24.10 194 P 01 16.00 -1.2
 CAW 24.15 195 P 01 16.70 -1.0
 DIW 24.16 197 P 01 17.40 -0.4
 BLW 24.31 194 P 01 18.30 -0.8
 MRW 24.36 195 P 01 18.70 -0.9
 SNZO 24.43 195 P 01 20.00 -0.2
 S 05 12.80
 TCW 24.45 196 P 01 20.00 -0.4
 QRZ 24.60 199 P 01 22.40 0.7
 THZ 25.34 198 P 01 28.20 -0.3
 DSZ 25.66 199 P 01 31.50 0.1
 KHZ 25.77 196 P 01 31.30 -1.0
 AFR 26.00 94 iPd 01 34.30 -0.3
 1.2s 576.00nm 5.8mb
 PAE 26.18 94 iPd 01 35.90 -0.3
 1.4s 1185.00nm 6.1mb
 PPT 26.19 94 iPd 01 36.10 -0.2
 1.4s 1268.60nm 6.1mb
 Z 27s 3175.80um 7.7MszX
 PPN 26.33 94 iPd 01 37.50 0.0
 1.4s 683.10nm 5.8mb
 LTZ 26.46 198 P 01 37.30 -1.3
 TVO 26.48 94 iPd 01 39.00 0.0
 1.4s 1317.40nm 6.1mb
 WVZ 27.20 200 P 01 44.40 -0.7
 MOZ 27.21 196 P 01 44.80 -0.4
 PMO 28.11 89 iPd 01 53.20 -0.2
 1.2s 785.50nm 5.9mb
 LMZ 28.26 201 P 01 53.60 -0.8
 VAH 28.33 89 iPd 01 54.70 -0.6
 1.1s 455.20nm 5.7mb
 TPT 28.38 89 iPd 01 55.50 -0.3
 1.5s 1161.60nm 6.0mb
 RUV 28.57 89 iPd 01 57.00 -0.4
 1.1s 679.80nm 5.9mb
 BWZ 28.78 200 P 01 58.60 -0.4
 ODZ 29.01 198 eP 02 00.10 -0.9
 BRS 29.35 246 iPd- 02 05.00 0.8
 0.9s 60.00nm 4.9mb
 e 02 17.00 46kmX
 e(PP) 03 15.00
 i 04 51.00

02d	02h																			
		eS	06	27.00		KAGJ	69.80	314	P	07	04.90	-0.5	AIA	83.06	157	eP	08	21.00	3.1X	
		i	06	34.00		KKM	69.96	284	ePc	07	06.00	-0.8	BALM	83.39	16	iPc	08	18.64	-1.0	
		e	07	53.00			0.6s	164.90nm				5.9mb				eP	09	43.45	368km	
		iScP	08	11.00		KUSJ	70.07	331	eP	07	06.40	-0.4	HVU	83.87	43	iPd	08	23.01	0.5	
LRCZ	29.43	200	P	02	03.70	-1.2	BAG	70.20	295	eP	07	07.00	-1.3	DPW	83.89	35	iPd	08	22.13	-0.2
MSCZ	29.43	200	P	02	03.90	-0.9			eS	15	50.00		SRU	84.05	46	iPd	08	24.10	0.6	
MHZ	29.45	200	P	02	03.90	-1.1	YONJ	70.59	319	P	07	09.40	-0.7			eP	09	47.35	359km	
SBCZ	29.46	200	P	02	04.00	-1.1	KUMJ	70.65	315	eP	07	09.90	-0.6	DAU	84.19	44	iPd	08	24.83	0.5
LSMZ	29.46	200	P	02	04.20	-0.9	SMY	70.69	354	(P)	07	09.43	-0.8	EMUT	84.19	45	iPd	08	24.77	0.5
CMCZ	29.52	200	P	02	04.70	-0.9		0.9s	156.58nm			5.7mb		III	84.33	69	iP	08	27.00	1.7
TLC	29.63	200	P	02	06.00	-0.6	SHNJ	71.43	317	P	07	13.50	-1.5	MAW	84.35	199	P	08	26.29	2.0
TUZ	30.13	199	P	02	11.10	0.3	ASAJ	71.81	331	eP	07	17.10	0.1	BJI	84.63	315	eP	08	26.00	-0.1
ARMA	31.08	240	iPc	02	20.50	1.1	SPA	72.27	180	iPc	07	21.70	2.0		1.5s	140.00nm			5.6mb	
		iScP	07	35.00			0.9s	345.45nm			6.1mb				eP	09	51.50	370km		
SIZ	31.42	200	eP	02	22.80	0.9	LEM	73.99	268	ePc	07	31.00	0.5			eS	10	24.00		
RIV	32.56	235	iPc	02	33.30	1.4			e(S)	07	34.50				ePP	11	44.00			
	1.0s	*****nm													eS	18	24.00			
RMQ	32.72	249	iPc	02	34.00	0.7	YSS	74.00	333	eP	07	29.90	0.3			eS	20	42.00		
	0.5s	191.00nm							e	07	46.00	58kmX			eS	08	25.92	-0.5		
		iP	02	48.50		58kmX	BCH	75.50	45	eP	07	39.09	0.6	NEW	84.71	36	iPc	08	25.92	-0.5
		e	04	23.80			QZH	75.71	302	P	07	39.00	-0.7		0.8s	23.97nm			5.1mb	
CNB	34.48	233	iPd	02	50.20	2.0	ARN	75.78	43	iPd	07	40.27	0.4	SNG	84.91	279	eP	08	29.00	1.0
		eS	07	56.30			SSE	76.68	309	Pc	07	42.50	-2.4	ALO	85.06	51	iPd	08	29.05	0.4
CTA	34.71	260	P	02	50.50	0.3		1.0s	42.00nm			5.2mb			1.3s	38.89nm			5.1mb	
CAN	34.76	233	iPc	02	51.90	1.4	Z	20s	0.50um			4.8Msz				e	08	42.89		
BWA	34.90	235	iPc	02	50.90	-0.8			S	17	00.00					eP	09	52.62	360km	
PMG	35.70	279	eP	02	58.50	-0.1	PLM	76.74	48	iPd	07	45.62	0.2	FBA	85.47	12	ePd	08	27.99	-1.7
CMS	36.17	241	iPc																	

	1.2s	40.00nm				e	15 55.00				i	17 16.30		
ABM	122.55	231 ePKP	14 49.80	3.1X		e	16 59.80		ALN	149.62	324 iPKP	15 39.18	4.3X	
AVY	122.79	233 ePKP	14 47.00	-0.1	PSN	146.57	326 iPKP	15 33.00	3.0X	ELL	149.68	314 ePKP	15 40.00	4.7X
VTY	122.85	232 ePKP	14 48.50	1.3	PRU	146.60	346 ePKP	15 31.30	1.5	LPF	149.71	5 ePKP	15 40.00	5.2X
ARU	123.49	327 iPKPc	14 46.00	-1.1			i	15 33.40			1.1s	85.45nm		
OPO	1.0s	50.00nm				e	15 39.50		WATA	149.74	348 i(PKP)	15 37.90	2.8X	
MAIO	123.54	232 ePKP	14 48.80	0.2		e	17 00.00				i	15 41.20		
	127.12	302 iPKPc	14 54.20	-0.7	BHL	146.67	305 PKP	15 31.00	0.4		i	15 47.50		
	0.8s	5.86nm				PP	17 00.00				i	17 07.20		
	e	16 58.00			BNS	146.78	355 iPKPc	15 32.70	2.6X	FEL	149.76	353 PKP	15 38.96	3.9X
ASH	127.87	304 ePKP	14 53.60	-2.6X		ec	17 08.50		HAU	149.78	355 ePKP	15 40.20	5.3X	
FRS	127.99	205 iPKPc	14 57.80	1.2	HRI	146.82	304 ePKP	15 29.60	-1.3		0.9s	30.45nm		
	1.0s	20.00nm			PSZ	146.94	339 ePKP	15 32.20	1.6	RZN	149.79	326 ePKP	15 40.00	4.6X
VAN	128.06	304 iPKPd	14 56.00	-0.5	SHMJ	146.98	303 PKP	15 32.60	1.6	WTTA	149.79	348 i(PKP)	15 34.20	-1.0
	1.3s	27.00nm			ENN	147.06	357 ePKP	15 33.00	2.5X		0.5s	60.80nm		
BLF	128.20	206 e(PKP)	14 40.00	-17.3X		0.7s	21.10nm				i	15 40.50		
PRY	129.52	209 ePKP	15 00.10	0.2		e	17 18.00				i	15 47.90		
	1.2s	30.00nm			MASJ	147.32	301 PKP	15 33.70	2.0		i	17 07.60		
KSR	130.70	209 e(PKP)	15 03.50	1.4	SNF	147.39	358 PKP	15 34.00	2.9X	MOTA	149.82	349 iPKPd	15 35.40	0.2
		i	17 53.00		TNS	147.39	353 ePKP	15 34.20	3.0X		0.8s	37.50nm		
KAF	132.83	345 iPKP	15 04.20	-0.6		e	17 03.00				i	15 40.50		
	0.4s	3.60nm			EYL	147.40	320 ePKP	15 34.30	2.7X		i	15 42.40		
BUL	134.61	215 iPKPd	15 09.00	-0.7	GPA	147.47	319 ePKP	15 31.80	0.2		i	15 47.70		
	0.9s	12.60nm			FAM	147.53	308 ePKP	15 34.50	2.7X		i	17 07.30		
NUR	134.62	345 iPKP	15 07.40	-0.8	GRF	147.53	350 ePKP	15 33.70	2.3X		i	17 09.50		
	0.4s	5.80nm				id	15 37.80			MOF	149.87	354 PKP	15 40.99	5.8X
		iSKP	18 05.10			e	15 42.90		SQTA	149.92	349 iPKPd	15 35.70	0.4	
OBN	134.81	333 ePKP	15 10.00	1.2	HRT	147.55	320 ePKP	15 35.30	3.6X		0.5s	37.50nm		
	1.0s	19.00nm			JVI	147.56	302 ePKP	15 31.10	-0.9		i	15 40.60		
N82	136.45	354 PKP	15 05.80	-6.0X	SRO	147.56	341 ePKP	15 34.30	2.9X		i	15 48.20		
	0.6s	1.30nm				i	17 03.60				i	17 09.50		
GRS	136.75	309 ePKP	15 12.00	-1.2	KHC	147.62	347 ePKP	15 32.70	1.1	BSF	149.92	355 PKP	15 40.29	5.0X
	1.2s	20.00nm				e	15 40.00			PTJ	150.00	342 e(PKP)	15 36.10	0.7
HFS	137.05	352 ePKP	15 05.30	-7.6X		e	15 42.60		ZAG	150.06	342 ePKP	15 41.50	6.1X	
	0.4s	3.20nm				e	17 04.30		RBL	150.15	345 PKP	15 38.10	2.5X	
WIN	137.52	200 ePKP	15 04.00	-11.2X	VKA	147.75	343 e(PKP)	15 31.00	-0.8	FVI	150.19	346 PKP	15 38.60	3.1X
	1.5s	40.00nm				i	15 43.10		BBS	150.22	354 PKP	15 41.14	5.5X	
		i	18 14.00		ISK	147.77	321 iPKP	15 34.80	2.8X	LJU	150.27	344 ePKP	15 36.40	0.7
MJMA	140.02	289 PKP	15 11.67	-7.8X	DOU	147.79	358 PKPc	15 35.20	3.4X		e(pPKP)	17 11.00		
DMU	143.21	10 ePKP	15 30.00	5.9X		0.9s	72.50nm			MMB	150.38	327 iPKPc	15 42.00	5.9X
KVT	143.36	316 iPKP	15 23.00	-1.8		i	15 43.70		LOMF	150.40	355 PKP	15 41.55	5.6X	
DCN	143.69	10 ePKP	15 31.90	7.0X		e	17 06.90		VOY	150.45	344 iPKP	15 36.40	0.3	
DLF	143.86	10 ePKP	15 32.30	7.2X	AYN	147.82	296 PKP	15 32.33	-0.1		ePKPbc	15 41.40		
KIS	143.92	329 ePKP	15 23.00	-2.4X	GEC2	147.86	347 ePKP	15 31.90	-0.2		e(pPKP)	17 10.80		
		i	15 26.00			1.3s	5.75nm			IZM	150.49	319 iPKP	15 31.70	-4.6X
WME	144.07	7 ePKP	15 23.20	-2.3X		e	15 35.40		KKB	150.50	328 iPKPc	15 42.00	5.8X	
	1.4s	10.00nm				e	15 41.90		V8Y	150.56	342 ePKP	15 36.40	0.3	
YRC	144.18	8 ePKP	15 23.90	-1.8		e	15 45.10		VBY	150.56	342 i(PKP)	15 42.90	6.8X	
GAZ	144.28	310 iPKP	15 25.50	-0.9	SHWJ	147.87	299 PKP	15 35.00	2.2X		e(pPKP)	17 11.10		
ETA	144.49	10 ePKP	15 26.50	0.3	DMK	148.04	324 ePKP	15 35.50	3.1X	CEY	150.58	343 ePKP	15 36.50	0.3
		e	15 34.60		CSS	148.04	308 ePKP	15 36.00	3.3X		e(pPKP)	17 12.00		
BNN	144.53	313 iPKP	15 26.50	-0.5	CTT	148.09	322 iPKP	15 36.20	3.7X	LOR	150.64	359 ePKP	15 42.30	6.0X
YRH	144.58	8 ePKP	15 24.70	-1.7	WLF	148.15	356 iPKPc	15 36.16	3.9X		0.8s	44.75nm		
ECB	144.71	10 ePKP	15 26.60	0.0		1.0s	41.90nm			TRI	150.78	344 ePKP	15 42.30	5.9X
		e	15 35.50			i	15 44.63		SRS	150.79	327 iPKP	15 41.37	4.7X	
ECP	144.96	10 ePKP	15 26.30	-0.7		e	17 06.00		VVI	150.85	346 PKP	15 42.70	6.1X	
		e	15 36.20		JMB	148.26	326 ePKP	15 37.00	4.3X	SSF	150.86	359 ePKP	15 42.90	6.4X
OJC	144.98	341 ePKP	15 27.10	-0.1	PVL	148.38	328 ePKP	15 33.00	0.1		0.9s	1.35nm		
	1.3s	68.00nm			UZD	148.54	339 e(PKP)	15 36.00	3.0X	LBF	150.92	359 ePKP	15 42.90	6.2X
	e	15 30.00			RMN	148.57	300 ePKP	15 33.70	0.0		0.8s	30.90nm		
WIT	144.98	356 ePKP	15 28.00	0.9	KCT	148.69	321 iPKP	15 37.80	4.3X	CTI	150.95	347 PKP	15 37.40	0.5
HCG	145.20	7 ePKP	15 26.90	-0.6	BNT	148.89	321 iPKP	15 37.80	4.0X	RIY	150.96	343 ePKP	15 36.80	0.1
KSP	145.39	345 ePKPd	15 28.60	0.7	EDC	148.92	321 iPKP	15 37.00	3.1X	PLE	151.02	335 iPKPc	15 43.51	6.5X
		i	15 30.60		FUR	148.99	349 ePKP	15 35.70	1.9	KOT	151.05	300 ePKP	15 43.50	6.2X
		e	16 56.60			i	15 38.80		KNT	151.12	328 iPKP	15 42.33	5.2X	
		e	17 01.50			i	15 46.10		AVF	151.13	359 ePKP	15 43.10	6.2X	
UZH	145.48	337 iPKPc	15 28.80	0.7	FLN	149.03	4 ePKP	15 38.10	4.4X		0.8s	14.90nm		
	1.5s	420.00nm				0.8s	42.45nm		SOH	151.13	327 ePKP	15 41.90	4.7X	
	i	15 37.60			KHL	149.09	317 ePKP	15 38.00	3.7X	VAY	151.16	328 iPKP	15 42.50	5.3X
HTR	145.49	7 ePKP	15 28.20	0.2	STR	149.09	354 PKP	15 38.69	4.9X	IVA	151.18	334 iPKPc	15 43.54	6.3X
HAE	145.60	6 ePKP	15 28.30	0.1	BHG	149.10	347 iPKPc	15 38.70	4.8X	MFF	151.21	4 ePKP	15 43.50	6.4X
CLL	145.66	349 iPKP	15 28.60	0.3	DIM	149.11	326 iPKP	15 39.00	4.9X		0.9s	39.65nm		
	1.4s	105.00nm			LDF	149.23	4 ePKP	15 38.30	4.3X	SKO	151.21	331 iPKP	15 43.20	6.0X
	e	17 01.00				1.0s	61.20nm				0.9s	101.00nm		
SPC	145.73	340 ePKP	15 29.80	1.1	WLS	149.29	354 PKP	15 38.69	4.5X		i	15 49.60		
		e	16 57.20		CDF	149.30	354 PKP	15 39.06	4.8X		i	17 14.00		
WTS	145.78	356 ePKP	15 29.00	0.6	GRR	149.38	5 ePKP	15 39.10	4.8X	SMF	151.27	359 ePKP	15 43.50	6.3X
	0.9s	48.10nm				1.2s	89.25nm				0.9s	14.90nm		
	i	15 37.80			KDZ	149.45	326 iPKPd	15 39.00	4.4X	BGF	151.36	0 ePKP	15 43.90	6.6X
	e	17 06.00			PGB	149.45	328 iPKP	15 40.00	5.3X		0.9s	44.20nm		
BRG	145.89	348 iPKPd	15 29.50	0.8	ECH	149.51	354 PKP	15 39.90	5.4X	PVY	151.38	333 iPKPc	15 43.81	6.2X
	1.2s	54.00nm			VITF	149.60	356 PKP	15 39.72	5.1X	THE	151.47	327 ePKP	15 42.94	5.3X
	i	15 36.10			KBA	149.60	346 i(PKP)	15 37.00	2.1	HLW	151.47	300 e(PKP)	15 44.50	6.5X
HGH	145.97	6 ePKP	15 29.60	0.8		0.4s	25.70nm		GRG	151.52	328 ePKP	15 43.29	5.5X	
	1.2s	27.00nm				i	15 42.30		PAIG	151.59	325 iPKP	15 43.18	5.3X	
MOX	146.54	350 ePKP	15 30.90	1.1		i	15 46.60		NKY	151.61	335 iPKPc	15 44.28	6.3X	
	1.8s	79.00nm				i	17 06.40		TCF	151.63	1 ePKP	15 44.40	6.6X	

02d 02h

	0.8 s	20.15 nm			
VAl	151.63	351 PKP	15	41.90	4.2 X
LSF	151.65	2 ePKP	15	44.20	6.4 X
	0.9 s	36.05 nm			
MAF	151.70	1 ePKP	15	44.90	7.1 X
	1.1 s	43.95 nm			
BRY	151.72	335 iPKPc	15	44.30	6.2 X
TIG	151.82	334 iPKPc	15	44.46	6.4 X
PHP	151.90	331 ePKP	15	37.70	-0.6
ORX	151.97	352 PKP	15	46.31	7.9 X
ORD	151.98	352 PKP	15	44.90	6.5 X
SDA	152.02	333 iPKPd	15	45.40	7.0 X
RSL	152.06	354 PKP	15	46.07	7.5 X
LIT	152.11	327 iPKP	15	44.46	5.8 X
HCY	152.12	335 iPKPc	15	44.96	6.4 X
BDV	152.12	334 iPKPc	15	44.81	6.2 X
OHR	152.19	330 iPKP	15	45.50	6.7 X
	1.2 s	117.00 nm			

			i	15	51.90	
			i	17	12.30	
			i	17	18.40	
ULC	152.20	333	iPKPc	15	44.84	6.1X
LPL	152.22	354	ePKP	15	46.60	7.7X
	0.8s		13.70nm			
LSD	152.24	354	PKP	15	46.17	7.2X
LPG	152.24	354	ePKP	15	47.00	8.0X
	0.8s		17.35nm			
HVAR	152.26	338	ePKP	15	45.40	6.7X
LACI	152.27	332	ePKP	15	46.50	7.8X
TIR	152.43	332	ePKP	15	46.70	7.7X
RSP	152.53	353	PKP	15	48.00	8.8X
KBN	152.57	330	ePKP	15	45.00	5.7X
SSB	152.61	358	PKP	15	47.17	8.0X
BNI	152.69	354	PKP	15	47.80	8.3X
RRL	152.81	354	PKP	15	47.41	7.7X
BHB	152.83	353	PKP	15	47.09	7.6X
SFI	152.93	346	PKP	15	41.20	1.6
AGG	152.97	325	ePKP	15	45.58	5.7X
LSK	153.03	329	ePKP	15	51.00	11.0X
ARV	153.05	344	PKP	15	43.30	3.4X
BDI	153.07	348	PKP	15	46.20	6.3X
PZZ	153.19	353	PKP	15	47.63	7.5X
TPE	153.20	330	ePKP	15	41.00	0.9
FIR	153.20	347	ePKP	15	47.00	7.0X
ROB	153.30	352	PKP	15	47.77	7.6X
VLO	153.30	331	ePKP	15	51.80	11.6X
FIN	153.34	352	PKP	15	50.01	9.8X
SRN	153.53	330	ePKP	15	44.70	4.2X
IMI	153.68	352	PKP	15	48.60	7.9X
AQU	153.98	342	PKP	15	51.20	10.0X
SGO	154.97	337	PKP	15	50.60	8.2X
BCAO	159.73	231	iPKPc	15	48.40	-0.6

	0.5s		55.00nm		
			id	16	30.80
			id	16	59.00
			ic	19	16.90
LIC	166.09	145	PKP	15	55.86
	1.0s		19.00nm		0.9
			e	16	59.60
KIC	166.35	146	PKP	15	56.10
	0.9s		13.50nm		0.9
			e	17	01.00
TIC	166.44	144	PKP	15	55.88
			e	17	00.70
	S.O. = 1.0	on 245	of 387 obs.		

APR 02, 1993 01h 59m 50.58± 1.09s
37.218 N ±10.0km 21.563 E ± 6.1km
DEPTH = 33.0km (normal)
3.1mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH), 3.4 (THE).

VLI	1.21	114	ePb	00	10.80	-0.4
VLS	1.23	321	ePb	00	10.00	-1.5
ATH	1.87	66	ePg	00	26.00	5.2X
AGG	1.90	18	iPb	00	20.18	-1.1
			eSb	00	42.68	
IGT	2.51	338	iPn	00	29.80	-0.1
			eSn	01	01.20	
KEK	2.85	331	ePb	00	39.00	4.3X
SRN	2.93	336	ePn	00	37.20	1.4
LIT	2.97	14	ePn	00	37.72	1.3
LSK	3.02	346	ePn	00	42.30	5.0X
KZN	3.09	3	ePn	00	38.00	-0.2
PAIG	3.17	31	iPn	00	40.48	1.2
TPE	3.30	339	ePn	00	37.20	-4.0X

KBN	3.45	350	ePn	00	43.00	-0.4
FNA	3.56	358	ePn	00	44.60	-0.4
THE	3.58	17	ePn	00	47.08	2.0
VLO	3.63	334	ePn	00	53.10	7.4
GRG	3.79	10	ePn	00	46.64	-1.4
SOH	3.86	21	ePn	00	49.16	0.1
QHR	3.93	352	iPn	00	50.30	0.1
VAY	4.17	10	iPn	00	52.50	-1.0
LCI	4.20	319	P	00	52.70	-1.2
SRS	4.20	21	ePn	00	53.32	-0.6
TIR	4.33	343	ePn	00	58.70	3.0
SOI	4.45	283	P	01	03.00	5.5
			eSn	01	45.00	
PHP	4.54	349	ePn	01	06.20	7.4
ROI	4.57	302	P	00	53.20	-6.1
LACI	4.64	343	ePn	01	02.00	1.9
SKO	4.75	359	ePn	00	58.50	-3.2
			iPg	01	07.00	
			i	01	10.00	
			iSn	01	49.30	
			i	02	16.00	

CSI	4.86	303	P	00	58.40	-4.9
ORI	4.91	307	P	01	04.50	0.5
BRT	4.99	318	P	01	05.20	0.1
SDA	5.08	342	ePn	01	10.30	3.9
MMN	5.12	303	P	01	13.60	6.7
MGR	5.53	304	P	01	13.40	0.7
SGO	5.91	306	P	01	19.40	1.3
VBY	9.54	332	ePn	02	07.20	-1.4
			e(Sn)	03	45.40	
CEY	10.05	330	e(P)	02	15.00	-0.7
			e(S)	03	58.00	
VOY	10.51	329	e(P)	02	21.20	-0.8
			eS	04	06.50	
NB2	24.72	348	P	05	10.60	0.7
	0.7 s	0.40 nm				3.1 mb

S.D. = 1.1 on 26 of 39 obs.						
% APR 02, 1993 02h	19m	42.51±	2.47s			
38.647 N ±16.2km		12.764 E	±17.6km			
DEPTH = 10.0km (geophysicist)						
SICILY				(398)		
ERC	0.63	193	P	19	54.70	-0.4
			eSg	20	01.60	
CVT	0.97	179	P	20	01.60	0.7
			eSg	20	11.40	
GIB	1.19	123	P	20	04.90	0.1
			eSg	20	17.70	
FAI	1.55	152	P	20	09.80	-0.3
SOI	2.65	101	P	20	25.60	-0.4
ROI	3.10	71	P	20	32.70	0.3
S.D. = 0.6 on 6 of 6 obs.						

%	APR 02,	1993	02h	39m	25.49±	3.05±
	38.464	N	±22.6km	12.874	E	±15.2km
DEPTH = 10.0km (geophysicist)						
SICILY				(398)		
ERC	0.48	208	P	39	35.00	-0.3
			eSg	39	41.90	
CVT	0.79	185	P	39	41.00	0.2
GIB	1.02	117	P	39	44.30	-0.6
FAI	1.35	152	P	39	50.60	0.4
MNO	1.53	110	P	39	53.50	0.4
SOI	2.53	98	P	40	07.20	-0.1
S.D. = 0.5 on 6 of 6 obs.						

& APR 02, 1993 03h 02m 43.70s
37.020 N 89.020 W
DEPTH = 5.0km (geophysicist)
CAPE GIRARDEAU, MISSOURI REGION(487)
<SLM-P>. MD 2.5 (SLM). 2.6
(TEIC). mbLg 2.5 (GS). Felt (IV)
at Cunningham and (III) at
Kevil. Kentucky.

ELC	0.31	328	eP	02	48.84	-1.2
			eS	02	53.95	
DWM	0.43	240	ePc	02	52.29	-0.1
			S	02	57.70	
NMMO	0.61	225	ePd	02	55.24	-0.6
			S	03	03.21	
OGTN	0.71	212	eP	02	56.87	-1.0
			S	03	06.72	
ACTN	0.71	199	eP	02	57.07	-0.8
			S	03	06.92	

BBTN	0.72	209	ePd	02	57.63	-0.5
			S	03	09.29	
UTMA	0.73	177	ePc	02	56.30	-1.9
LDMO	0.75	216	eP	02	57.38	-1.3
			S	03	07.22	
GRT	0.82	203	(P)	02	58.55	-1.5
			eS	03	10.67	
MFTN	0.91	199	ePc	02	59.86	-1.7
			S	03	14.27	
DRTN	0.92	198	eP	03	00.20	-1.6
NHIL	1.13	36	ePd	03	04.19	-1.1
			S	03	19.59	
BPIL	1.23	16	ePc	03	06.04	-0.9
FVM	1.48	311	eP	03	09.95	-1.0
			eS	03	28.81	
WDIN	1.49	44	eP	03	09.50	-1.6
			S	03	31.51	
LRDO	1.71	233	eP	03	14.12	-0.2
			eS	03	37.14	
TYS	1.94	321	ePd	03	17.91	0.3
CCMO	2.05	326	eP	03	19.83	0.7
			S	03	48.29	
AFAR	2.21	247	eP	03	21.80	0.3
			eS	03	51.24	
OLY	2.49	233	(P)	03	25.15	-0.4
LGAR	2.71	210	ePd	03	27.12	-1.6
			eS	03	59.66	
TKL	4.45	106	P	04	00.70	7.3
MIAR	4.45	238	(P)	03	51.92	-1.5

& APR 02, 1993 03h 06m 46.70s
 69.751 N 130.646 W
 DEPTH = 18.0km (geophysicist)
 NORTHWEST TERRITORIES, CANADA (679
 <PGC-F>. mbLg 3.2 (PGC).

DAWY	6.66	215	P	08	23.40	-2.7
			S	09	33.77	
DWY	6.68	215	P	08	23.40	-2.9
			S	09	34.80	
MBC	7.29	22	eP	08	31.50	-3.3
YKR1	9.64	131	P	09	04.25	-3.1
			S	10	43.85	
YKA	9.73	131	eP	09	05.30	-3.3
	0.4s				1.10nm	4.6mb
	5 obs. associated					

% APR 02, 1993 03h 11m 41.74± 0.66
26.918 S ± 6.8km 26.715 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

BFS	0.07	73	iPd	11	44.10	0.6
			S <td>11 <td>44.80</td> <td></td> </td>	11 <td>44.80</td> <td></td>	44.80	
PRY	0.68	91	eP <td>11</td> <td>55.00</td> <td>-0.3</td>	11	55.00	-0.3
			S <td>12</td> <td>03.00</td> <td></td>	12	03.00	
KSR	1.06	9	eP <td>12</td> <td>02.00</td> <td>-0.3</td>	12	02.00	-0.3
			S <td>12</td> <td>17.20</td> <td></td>	12	17.20	
SWZ	1.27	258	eP <td>12</td> <td>06.70</td> <td>0.9</td>	12	06.70	0.9
			S <td>12</td> <td>22.30</td> <td></td>	12	22.30	
SEK	1.62	150	iPd <td>12</td> <td>12.00</td> <td>0.9</td>	12	12.00	0.9
			S <td>12</td> <td>30.50</td> <td></td>	12	30.50	
SLR	1.83	50	eP <td>12</td> <td>14.00</td> <td>-0.3</td>	12	14.00	-0.3
			S <td>12</td> <td>37.70</td> <td></td>	12	37.70	
BLF	2.23	192	eP <td>12</td> <td>20.00</td> <td>-0.1</td>	12	20.00	-0.1
			S <td>12</td> <td>48.50</td> <td></td>	12	48.50	
FRS	3.08	203	eP <td>12</td> <td>30.50</td> <td>-1.4</td>	12	30.50	-1.4
			S <td>13</td> <td>08.00</td> <td></td>	13	08.00	
S.D. = 0.9 on				8 of	8 obs.	

? APR 02, 1993 03h 49m 29.55± 3.94s
31.347 S ±57.5km 68.939 W ±22.6km
DEPTH = 121.4 ± 30.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.30	132	IPd eS	49 49	47.20 58.20	0.0
RTBS	0.54	234	IPd (S)	49 50	48.10 02.00	0.0
CFA	0.65	114	IPc S	49 50	49.00 02.00	0.0
MRA	2.95	112	ePc	50	15.80	0.0
TCA	3.72	91	IP	50	26.30	0.0

S. D. = 0.0 n = 5 of 5 obs.

* APR 02, 1993 06h 04m 39.86±2.17s
32.484 S ±11.5km 71.505 W ±19.9km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.2 (SAN).

JACH	0.80	105	IP	04 53.60	-1.1
			IS	05 08.70	
PEL	0.95	134	IP	04 56.49	-0.5
			IS	05 15.25	
LCCH	0.99	183	IP	04 56.91	-0.5
SAN	1.20	144	IP	05 00.09	-0.3
FCH	1.32	130	IP	05 02.74	0.3
			IS	05 26.65	
LNK	1.47	177	IP	05 03.96	-0.3
CHCH	1.61	154	IP	05 06.18	-0.2
CACH	1.80	155	IP	05 11.13	2.0
RTBS	1.93	65	ePc	05 10.60	-0.3
			S	05 41.20	
MDZ	2.27	101	IP	05 21.40	5.5X
			IS	05 54.30	
RTCB	2.51	67	eP	05 18.70	-0.6
			S	05 59.50	
ZON	2.58	69	eP	05 22.30	2.1
RTCV	2.59	77	ePc	05 20.60	0.2
RTLL	2.83	67	e(P)	05 23.00	-0.7
			S	06 06.00	

S.D. = 1.1 on 13 of 14 obs.

* APR 02, 1993 06h 21m 06.56±1.45s
15.956 N ±20.5km 96.523 W ±13.4km
DEPTH = 57.2 ± 21.5 km
3.6mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

IISM	3.12	345	IP	21 56.20	1.8
ACX	3.33	286	eP	21 58.30	0.9
			IS	22 32.00	
PPM	3.69	327	IP	22 02.30	-0.6
			(S)	22 45.00	
III	3.70	311	IP	22 01.50	-1.3
			IS	22 37.00	
IIA	3.77	328	eP	22 01.60	-2.0
SCX	3.81	78	(P)	22 21.50	17.4X
UNM	4.21	323	eP	22 09.80	-0.2
			(S)	22 59.00	
TPX	4.24	104	(P)	22 10.00	-0.2
CRX	4.56	319	eP	22 16.50	1.5
			(S)	23 29.00	
MRX	5.80	311	eP	22 32.00	-0.1
			(S)	23 47.00	
YKA	48.20	349	eP	29 43.00	0.0
				0.7s 0.50nm 3.6mb	

S.D. = 1.4 on 10 of 11 obs.

* APR 02, 1993 06h 34m 03.96±1.59s
37.564 N ±13.4km 21.290 E ±13.4km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
ML 3.1 (ATH).

VLS	0.83	318	eP	34 19.00	-0.2
VLI	1.56	122	ePb	34 30.00	0.3
AGG	1.67	29	eP	34 30.50	-0.8
			eS	34 50.92	
ATH	1.97	77	ePn	34 35.00	-0.6
KEK	2.44	332	ePg	34 50.00	7.6X
LIT	2.70	20	eP	34 48.92	2.9X
GRG	3.50	14	eP	35 04.52	7.2X
OHR	3.56	354	ePn	34 49.30	-9.0X
SOH	3.63	26	eP	35 00.96	1.8
KNT	3.80	19	eP	35 01.10	-0.5
SKO	4.40	1	e(Pn)	35 20.00	9.8X

S.D. = 1.2 on 6 of 11 obs.

? APR 02, 1993 06h 52m 16.51±8.51s
35.153 S ±75.3km 71.360 W ±27.0km
DEPTH = 100.0km (geophysicist)
CENTRAL CHILE (136)
MD 3.9 (SAN).

LNK	1.19	358	IP	52 39.87	0.5
			IS	53 01.06	
CACH	1.21	31	IP	52 39.65	-0.1
			IS	53 01.68	
CHCH	1.35	26	IP	52 41.11	-0.2
			IS	53 04.50	

LCCH	1.68	354	IP	52 44.98	-0.5
			IS	53 10.83	
FCH	2.02	26	IP	52 50.36	0.1
			IS	53 20.49	
PEL	2.08	16	IP	52 51.04	0.3
			IS	53 22.07	
JACH	2.55	15	IP	52 56.83	-0.2
			IS	53 32.06	

S.D. = 0.4 on 7 of 7 obs.

* APR 02, 1993 06h 53m 35.24±0.79s
44.929 N ±5.8km 6.981 E ±7.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (GEN).

RRL	0.14	267	P	53 38.83	0.1
			S	53 40.89	
BHB	0.22	113	P	53 40.12	0.1
			S	53 43.00	
RSP	0.30	41	P	53 41.49	0.0
			S	53 45.79	
PZZ	0.43	168	P	53 43.98	-0.1
			S	53 49.30	
LSD	0.54	13	P	53 46.22	-0.1
			S	53 53.02	

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

? APR 02, 1993 07h 29m 57.53±1.13s
60.106 N ±6.6km 5.193 E ±17.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.0 (BER).

EGD	0.17	6	iPc	30 01.38	0.1
			eS	30 04.51	
ASK	0.38	0	eP	30 05.23	-0.1
KMY	0.90	178	eP	30 14.70	0.0
			eS	30 28.95	
NRA0	3.21	76	ePn	30 48.96	0.0
			eLg	31 42.08	
			Rg	59 29.94	

S.D. = 0.1 on 4 of 4 obs.

* APR 02, 1993 07h 59m 58.63±0.75s
40.021 N ±11.8km 78.169 E ±19.8km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
SOUTHERN XINJIANG, CHINA (321)

NDI	11.34	184	eP	02 40.00	-1.3
GKN	13.13	154	P	03 05.20	-0.3
KKN	13.55	152	P	03 10.80	-0.3
DMN	13.65	153	P	03 13.00	0.5
			0.6s 37.00nm	5.4mb	
GUN	13.66	150	P	03 13.00	0.3
PKI	13.79	152	P	03 14.00	-0.4
			0.6s 19.00nm	5.1mb	
HYB	22.53	179	eP	05 00.00	3.0X
GBA	26.32	182	P	05 35.00	1.8
NB2	45.10	321	P	08 12.00	-1.2
			0.7s 1.60nm	4.0mb	
GEC2	45.61	303	ePd	08 18.30	0.9
			0.7s 1.07nm	3.9mb	
MBC	63.47	5	eP	10 27.00	0.0
			0.7s 2.00nm	4.3mb	
WRA	79.34	127	P	12 06.70	4.0X
			1.2s 0.30nm	3.2mb X	
ASPA	81.91	130	eP	12 08.50	-7.7X
			0.6s 7.70nm	4.9mb	

S.D. = 1.1 on 10 of 13 obs.

APR 02, 1993 08h 04m 11.77±0.10s
17.373 S ±3.2km 171.921 W ±2.9km
DEPTH = 9.3km (geophysicist)
5.8mb (81 obs.) 5.6Msz (43 obs.)
TONGA ISLANDS REGION (174)
Mw 6.0 (GS), 5.9 (HRV), Ms 5.6
(BRK), Mo=2.8×10¹⁸ Nm (PPT).

Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=205 Dip=67 Slip=-90
NP2: 25 23 -90
Principal Axes:
T P1g=22 Azm=295
P 68 115

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.

RADIATED ENERGY
No. of sta: 13 Focal mech. F
Energy 7.0±1.4×10¹² Nm

MOMENT TENSOR SOLUTION
Dep 6 No. of sta: 19
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-8.88 Mtt=-0.06
Mff=8.94 Mrt=2.86
Mrf=1.62 Mtf=3.12

Principal axes:
T Vol=10.22 P1g=7 Azm=289
N -0.47 14 21
P -9.75 74 172
Best Double Couple: Mo=1.0×10¹⁸ Nm
NP1: Strike=3 Dip=40 Slip=-112
NP2: 211 54 -73
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 39S, 92C
Centroid Location:
Origin Time 08:04:19.0 0.2
Lat 17.17S 0.02 Lon 171.59W 0.02
Dep 15.0 BDY Half-duration 2.3
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-6.28 0.11 Mtt=-1.23 0.18
Mff=7.52 0.17 Mrt=1.40 0.35
Mrf=2.05 0.50 Mtf=-0.69 0.10

Principal Axes:
T Vol=7.84 P1g=8 Azm=267
N -0.87 15 359
P -6.97 73 149
Best Double Couple: Mo=7.4×10¹⁷ Nm
NP1: Strike=340 Dip=39 Slip=-114
NP2: 190 55 -72

MBU	8.95	271	ePd	06 26.10	1.8
SVA	9.20	264	eP	06 29.00	1.4
RAR	12.09	110	IP	07 01.24	-5.9X
DZM	20.89	254	iPc	08 53.80	-3.2X
AFR	21.12	94	iPd	08 58.30	-1.0
			1.2s 623.60nm	5.9mb	
PAE	21.31	94	iPd	09 00.30	-0.8
			1.4s 1380.10nm	6.2mb	
PPT	21.32	94	iPd	09 00.50	-0.7
			1.4s 1408.00nm	6.2mb	
Z	30s	*****		8.3MszX	
PPN	21.45	94	iPd	09 02.00	-0.6
			1.4s 801.60nm	5.9mb	
TVD	21.61	95	iPd	09 03.70	-0.6
			1.4s 2502.40nm	6.4mb	
HBZ	21.91	201	eP	09 12.40	5.4X
KUZ	22.18	207	eP	09 12.10	2.4
NOZ	22.92	201	eP	09 18.20	1.2
URZ	22.92	203	eP	09 16.80	-0.3
WLZ	23.18	206	eP	09 20.30	0.7
PMO	23.19	88	iPd	09 19.50	-0.3
			1.4s 670.90nm	6.0mb	
VAH	23.41	88	iPd	09 21.10	-0.8
			1.4s 458.30nm	5.8mb	
TPT	23.46	88	iPd	09 22.00	-0.4
			1.3s 661.40nm	6.0mb	
PAHZ	23.47	202	P	09 24.00	1.5
RUV	23.65	88	iPd	09 23.50	-0.8
			1.4s 550.70nm	5.9mb	
MOZ	24.05	206	eP	09 29.00	1.0
WAHZ	24.47	202	eP	09 32.60	0.4
TEHZ	24.56	201	eP	09 34.70	1.6
PGZ	25.31	201	P	09 40.90	0.8
MNG	25.59	203	eP	09 42.60	-0.3
SNZO	26.48	203	eP	09 49.00	-2.0
			S	14 18.00	
ORZ	26.95	207	eP	09 59.10	3.8X
THZ	27.57	205	eP	09 59.80	-1.3
KHZ	27.88	203	eP	10 02.60	-1.2
DSZ	28.02	207	eP	10 02.40	-2.7
LTZ	28.68	205	eP	10 08.50	-2.6
			e	10 20.00	
			e	10 22.00	
BWZ	31.10	206	eP	10 31.20	-1.3
			e	10 42.80	
LSCZ	31.79	206	eP	10 36.20	-2.5
TUZ	32.37	204	eP	10 43.30	-0.3

02d 08h

BRS	34.03	247	iPd-	10	57.00	-1.4				eSKS	25	37.76		eS	25	48.70					
	0.9s		8.00nm			4.6mb	X			eLQ	34	08.76		iSP	26	32.56					
			i	11	08.00			SAO	71.87	41	iP	15	37.25	0.1	ePd	15	59.98	-0.6			
			eS	15	18.00				1.1s	115.64nm					90.00nm		5.8mb				
ARMA	35.61	242	iPd	11	11.30	-0.7		Z	20s	3.12um					0.70um		5.0MszX				
	0.5s		15.00nm			5.1mb				S	25	07.90									
RMQ	37.47	249	iPc	11	26.10	-1.4				PS	25	45.53									
	0.4s		22.00nm			5.3mb		PHAM	71.95	42	eP	15	37.63	0.0	iPpC	16	02.88	9kmX			
CNB	38.73	235	eP	11	38.00	-0.1		LLA	72.09	41	iPd	15	38.75	0.3	iS	25	46.20				
	1.1s		186.00nm			5.7mb		BKS	72.09	39	ePd	15	38.22	-0.2	eHSS	30	30.23				
CAN	39.01	235	iPd	11	40.90	0.4			1.4s	300.00nm					eSS	30	31.89				
			epP	11	50.90	34kmX		Z	20s	2210.00um					(SSS)	33	48.00				
BWA	39.22	237	eP	11	40.90	-1.3				ePP	18	23.09		TUC	76.56	50	ePd	16	04.41	-0.1	
CTAO	39.63	259	ePc	11	43.27	-2.5				eS	25	13.09			1.1s		89.98nm		5.8mb		
			epPc	11	46.66	11kmX				eSKS	25	47.09		Z	19s		2.75um		5.6Msz		
			ed	11	53.12					eLQ	34	10.09									
			e	12	38.30					eLR	37	18.09									
			ePP	13	19.52																
PMG	40.52	276	eP	11	54.00	0.9		MHC	72.11	40	iPd	15	39.06	0.3	ed	16	06.65				
CMS	40.70	242	iPd	11	53.60	-0.8			1.3s	230.00nm					S	25	42.62				
	0.6s		71.00nm			5.6mb		Z	20s	1810.00um											
HON	40.81	20	P	12	00.00	4.8X				eS	25	17.12		KDC	76.56	11	eP	16	02.97	-0.8	
	19s		3.33um			5.2Msz				eSKS	25	52.12		BMW	77.22	32	eP	16	07.39	-0.4	
DHH	40.82	20	eP	11	55.01	-0.4				eSS	29	40.12		TATO	77.31	301	eP	15	53.06	-15.6X	
KIP	40.89	20	eP	11	55.53	-0.4				eLQ	33	52.12		SHW	77.54	33	eP	16	10.08	0.4	
QLP	41.51	249	iPc	11	59.60	-1.5				eLR	37	03.12		ARUT	77.62	44	iPd	16	10.57	0.2	
TOO	42.37	233	iPc	12	08.20	0.1		ARN	72.19	40	iP	15	39.27	0.2	VGB	77.86	34	eP	16	10.49	-0.9
	0.7s		138.00nm			5.8mb		KUR	72.22	331	(P)	15	38.00	-1.0	LON	78.13	33	iPd	16	12.18	-0.6
STK	44.33	242	iPc	12	23.70	-0.3			1.0s	190.00nm											
	0.7s		32.80nm			5.3mb		Z	18s	2.90um				GMW	78.17	32	ePd	16	12.56	-0.4	
			eS	18	01.90			N	18s	2.90um				PGC	78.59	30	eP	16	15.00	-0.2	
BFD	44.53	234	eP	12	25.70	0.1									0.5s		19.00nm		5.4mb		
	0.9s		41.00nm			5.3mb		PKEM	72.27	42	eP	15	40.62	1.1	RMW	78.61	32	ePd	16	15.04	-0.4
ADE	47.16	238	ePc	12	46.30	-0.2		SPA	72.74	180	iPd	15	42.30	0.3	MRX	78.61	65	iP	16	17.50	1.6
WB2	50.79	258	iPc	13	13.10	-1.6			1.3s	425.00nm					MSU	78.85	44	iPd	16	17.96	0.8
	0.8s		110.90nm			5.8mb		Z	19s	1.01um				MCW	78.91	31	eP	16	16.92	-0.1	
			eS	20	31.80					i	38	19.10		LEM	78.92	266	ePd	16	19.00	1.0	
WRA	50.80	258	P	13	13.10	-1.7		SSK	72.75	45	iP	15	42.18	-0.5		1.5s		361.11nm		6.2mb	
	0.8s		16.90nm			5.0mb		PLM	72.82	46	iP	15	42.84	-0.2	RSO	79.09	10	eP	16	12.17	-5.8X
MTN	55.00	266	eP	13	45.00	-1.2		PEC	72.92	45	eP	15	43.02	-0.5	SVW	79.30	8	eP	16	17.09	-1.8
FORT	55.82	244	eP	13	50.40	-1.5			1.1s	79.36nm					1.8s		169.46nm		5.8mb		
	0.6s		38.00nm			5.6mb		SDN	73.07	7	eP	15	41.51	-2.3	DUG	79.35	42	ePc	16	19.32	-0.5
KNA	56.68	262	eP	13	57.60	-0.6			0.9s	254.22nm					1.1s		52.47nm		5.5mb		
WARB	57.28	250	iPd	14	01.20	-1.3		ISA	73.09	43	ePd	15	44.44	0.0	Z	20s		1.63um		5.4Msz	
	0.5s		31.00nm			5.6mb			1.6s	270.04nm											
SBA	61.41	185	iPd	14	32.10	1.9		Z	20s	2.66um				SLKM	79.56	11	eP	16	18.15	-2.2	
COOL	61.76	244	iPd	14	32.20	-1.1				iS	25	18.55		III	79.61	67	iP	16	03.30	-18.3X	
	0.8s		36.00nm			5.6mb		FRI	73.10	41	iPd	15	44.30	-0.1	QZH	79.67	300	Pc	16	22.00	0.4
MBL	64.10	255	iPd	14	48.20	-0.7				PS	26	10.07			Z	36s		3.01um		5.4MszX	
	0.4s		23.00nm			5.7mb		TGY	73.26	291	eP	15	46.00	0.2							
MEEK	64.39	248	iPc	14	50.00	-0.8		CMB	73.32	40	ePd	15	45.43	-0.3	CP2	79.94	10	P	16	21.20	-1.3
	0.6s		28.00nm			5.6mb			1.2s	130.00nm				CRP	79.95	10	ePd	16	20.31	-2.3	
KLB	64.59	243	iPd	14	51.40	-0.5				epPc	15	48.07	9kmX	UNM	80.22	66	(P)	16	26.60	1.6	
	0.6s		31.00nm			5.7mb				eS	25	17.23		HVU	80.25	41	ePd	16	24.49	-0.1	
NWAO	64.91	241	eP	14	53.50	-0.5				i	25	55.63		SRU	80.26	44	iPd	16	24.85	0.1	
BAL	65.59	244	iPd	14	57.90	-0.5				iSP	25	56.29		SSE	80.27	307	Pc	16	27.00	2.3	
	0.7s		51.00nm			5.8mb				eSS	29	51.68			1.1s		25.00nm		5.1mb		
MUN	65.86	242	iPc	15	00.20	0.1		ORV	73.61	38	iPd	15	47.12	-0.2	Z	20s		1.40um		5.3Msz	
	1.4s		146.00nm			6.0mb		WDC	73.67	37	(P)	15	46.95	-0.6	N	14s		0.40um			
Z	20s		6.60um			5.8Msz				epPc	15	49.68	9kmX				SKS	26	38.00		
DAV	66.35	286	eP	15	04.00	0.6				eLQ	34	14.68		EMUT	80.44	43	ePd	16	26.11	0.4	
MRWA	66.36	245	iPd	15	02.90	-0.5		CVP	73.93	295	ePd	15	49.90	0.3	DAU	80.47	42	iPd	16	26.02	0.0
	0.8s		38.00nm			5.6mb		GSC	73.98	44	(P)	15	48.95	-0.7	DPW	80.73	33	iPd	16	26.25	-0.6
CTB	67.65	286	ePc	15	14.00	2.3				epPc	15	52.09	10kmX	PMR	80.77	11	ePc	16	24.76	-1.9	
NANU	67.80	252	iPd	15	12.50	0.0				i	25	55.63			1.7s		282.56nm		6.0mb		
	0.6s		68.00nm			6.0mb		MEMM	74.00	41	iPc	15	50.29	0.8	Z	20s		2.10um		5.5Msz	
PLP	68.48	290	ePc	15	17.00	0.2		MIN	74.06	38	iPd	15	49.39	-0.7	ALQ	80.99	49	ePd	16	29.31	0.6
MAP	69.04	289	eP	15	21.00	0.6				epPc	15	52.09	10kmX		1.2s		134.95nm		5.9mb		
ADK	69.08	357	eP	15	20.45	0.6				iSP	25	56.29		ANMO	80.99	49	iPd	16	29.39	0.7	
	1.3s		202.83nm			6.2mb				eS	25	28.97					iS	26	44.36		
CSY	69.23	205	iPc	15	20.60	0.0		Z	20s	3230.00um				TTA	81.01	7	ePd	16	26.97	-1.0	
	0.5s		30.10nm			5.7mb				eSKS	26	09.97			1.3s		35.24nm		5.2mb		
SMY	70.85	351	P	15	40.00	9.4X				eLQ	33	53.97		KLU	81.29	12	eP	16	28.76	-0.8	
	Z	20s	4.17um			5.7Msz				eLR	38	06.97		MDJ	81.44	322	(P)	16	30.79	0.2	
MAJO	71.35	319	(P)	15	32.77	-1.3		GLA	74.06	47	iPc	15	50.41	0.3		1.6s		190.00nm		5.9mb	
			iPpC	15	36.08	11kmX		LBFM	74.54	37	iPd	15	52.74	-0.2				epPc	16	34.10	10kmX
			iS	24	53.90			PET	74.57	342	eP	15	51.50	-1.1	NEW	81.55	34	ePc	16	29.68	-1.4
			i	25	33.29				1.5s	142.00nm						1.5s		112.45nm		5.7mb	
			iPS	25	33.46					eS	25	28.00									
			eScS	25	33.63			BONR	74.57	41	iPd	15	53.46	0.1	BALM	81.66	14	eP	16	30.11	-1.4
			eSS	29	28.66			KKM	74.66	281	ePc	15	54.00	0.0	PMSA	81.67	156	(P)	16	30.44	-1.0
			eHSS	29	29.98			TPNV	75.30	43	eP	15	57.54	0.2	IISM	81.67	67	iP	16	34.80	2.6X
PRS	71.64	41	iPd	15	36.19	0.4			1.3s	163.23nm					KKC	82.35	296	eP	16	41.00	5.3X
GCC	71.70	40	iPd	15	36.21	0.1		Z	19s	4.44um				NJ2	82.48	307	Pd	16	39.00	2.8X	
PCC	71.76	40	eP	15	40.76	4.3X				eLQ	33	53.97			Z	22s		1.22um		5.2Msz	
	Z	20s	3580.00um			8.6MszX		TNP	75.34	42	iPd	15	57.54	-0.1							

	1.5s	120.00nm		5.9mb		1.8s	120.00nm		5.9mb	MOY	101.66	321	ePd	118	05.20	-0.7		
	Z 18s	1.10um		5.3Msz		Z 48s	2.59um		5.3MszX	CEH	102.21	56	Pd	118	20.00	11.2X		
	N 18s	1.00um				E 14s	0.69um			Z 21s			1.27um			5.4Msz		
		e	16	46.00			ePpC	17	21.41	10kmX	RSNY	107.18	48	PKP	22	50.00	10.8X	
		eS	26	52.00			eHPP	20	52.86		Z 21s		1.33um			5.5Msz		
		ePS	27	42.00			ePP	20	53.52		HRV	109.07	50	PKP	22	50.00	6.3X	
GZH	83.35	297 Pc	16	43.00	2.1		iSKS	27	50.20		Z 19s		3.77um			6.0Msz		
	1.3s	73.00nm		5.7mb			iS	28	21.05		WMQ	109.23	311	ePKP	22	44.20	0.2	
	Z 23s	1.98um		5.4MszX			iPS	29	22.90		Z 26s		1.19um			5.3MszX		
CN2	83.50	320 P	16	41.40	0.2		SS	34	20.00		ELT	110.77	321	ePKP	22	48.90	2.4X	
	1.4s	76.00nm		5.7mb		MDZ	91.22	125 i(P)	17	20.50	1.4	CBM	111.85	46	PKP	23	00.00	11.2X
	Z 20s	0.92um		5.2Msz		NNA	91.23	103 iPd	17	20.50	1.2	Z 18s		2.31um		5.8Msz		
	N 15s	0.59um					2.0s	176.47nm		6.1mb		PRZ	115.95	309	ePKP	22	57.00	0.0
	E 15s	0.75um					Z 20s	10.64um		6.3Msz		POO	117.75	282	ePKP	23	01.00	0.0
		ePp	16	49.00	24kmX	YKA	91.34	23 eP	17	18.60	-0.1	KSH	117.77	306	PKP	23	00.00	-0.6
		eS	27	07.00			1.6s	34.30nm		5.4mb		Z 22s		1.29um		5.5Msz		
DL2	83.57	314 P	16	43.00	1.4	HHC	91.40	312 P	17	20.20	0.6	E 22s		3.11um				
	Z 24s	0.68um		4.9MszX			1.2s	36.00nm		5.6mb			PP		24	18.40		
	N 15s	1.06um				Z 26s		1.98um		5.4MszX			SKS		30	02.00		
		SKS	27	03.00		E 15s		0.70um					SKS		31	01.00		
SNY	83.68	317 Pd	16	42.50	0.3			SKS	27	51.00		FRU	118.73	310	ePKP	23	02.00	-0.2
	1.2s	78.00nm		5.8mb		YAK	91.46	336 eP	17	03.00	-16.2X			70.00nm				
	Z 28s	1.05um		5.1MszX				i	17	18.00		DAG	119.01	7	ePKP	23	00.00	-1.6
		pP	16	56.50	48kmX			e	20	56.00				4.23nm				
		sP	17	02.00				e	27	44.00		SVE	124.55	328	iPKPd	23	12.00	-0.8
		S	26	55.00				e	34	24.00				60.00nm				
		sS	27	13.00		RTCB	91.77	124 iPd	17	23.20	1.5	Z 27s		1.00um		5.3MszX		
GOL	84.01	45 eP	16	44.64	0.4	RTCV	91.85	124 ePd	17	22.70	0.8	N 25s		0.40um				
	1.1s	110.69nm		6.0mb		NVL	92.05	181 eP	17	22.00	0.0	E 25s		0.50um				
		ePp	16	47.45	9kmX		Z 18s		3.00um		5.8Msz			e		30	20.00	
		ed	16	49.11			N 18s		2.00um			ARU	125.75	328	ePKPd	23	14.50	-0.6
		S	27	14.60			E 18s		0.80um			Z 20s		1.00um		5.5Msz		
FBA	84.07	10 ePd	16	42.47	-1.2			e	29	36.00		N 20s		0.50um				
	1.3s	133.98nm		6.0mb		RTLL	92.09	124 iPc	17	24.00	0.9	E 20s		0.50um				
IMA	84.32	7 eP	16	44.00	-1.1	SNA	92.24	176 iPd	17	23.80	0.9			e		23	30.00	
	1.7s	104.27nm		5.8mb			0.7s	48.00nm		6.0mb				i		25	03.70	
QIZ	84.95	292 P	16	54.00	5.0X	BTO	92.40	312 P	17	25.00	0.8			e		42	10.00	
WHN	85.37	304 eP	16	52.50	1.6		N 15s	0.76um				ABM	126.60	228	ePKP	23	18.60	0.4
	Z 24s	2.02um		5.4MszX			E 16s	0.59um				AVY	126.90	229	ePKP	23	19.00	0.3
	E 20s	1.75um						eSKS	27	53.00		VTY	126.93	229	ePKP	23	18.00	-0.8
		S	27	20.00		OLY	92.43	54 eP	17	24.58	0.3	OPO	127.63	229	ePKP	23	20.40	0.3
TIA	85.56	310 eP	16	52.00	0.3	KMI	93.15	295 Pd	17	30.00	1.9	AKU	128.68	14	ePKP	23	24.00	3.6X
	Z 25s	1.97um		5.4MszX			1.8s	200.00nm		6.2mb				1.0s	36.00nm			
		sP	17	10.00			Z 22s	3.20um		5.7Msz		MAIO	131.00	303	iPKPc	23	26.20	0.3
		eSKS	27	10.00		KHT	93.84	284 eP	17	33.40	2.2			1.8s	70.42nm			
KGM	85.60	273 ePc	16	54.00	1.6	MRA	93.85	126 ePd	17	32.10	1.1			e		25	43.00	
WMOK	86.57	52 (P)	16	55.26	-1.6	FVM	94.03	52 eP	17	31.56	-0.1	ASH	131.63	306	ePKP	23	23.50	-3.4X
	1.6s	166.39nm		6.0mb			0.8s	63.98nm		6.0mb		VAN	131.82	306	iPKPd	23	26.70	-0.6
	Z 19s	2.86um		5.7Msz			Z 18s	5.12um		6.0Msz				2.0s	40.00nm			
		S	27	33.49		CD2	94.04	301 eP	17	33.50	1.6			i		25	48.00	
MEO	86.74	52 iPc	16	57.60	0.0		Z 22s	1.95um		5.5Msz		KAT	132.96	308	ePKP	23	33.00	3.6X
RSSD	86.96	42 eP	16	57.64	-1.1			eSKS	28	03.00				e		25	56.00	
	1.4s	83.76nm		5.8mb		SLM	94.38	51 P	17	40.00	6.8X	PUL	134.69	344	ePKP	23	33.00	1.0
	Z 20s	1.50um		5.4Msz			Z 18s	1.61um		5.5Msz				0.8s	140.00nm			
		S	27	42.18		ULM	94.57	39 eP	17	34.50	0.7			Z 20s	1.20um		5.6Msz	
ACO	87.09	50 iPc	17	00.00	0.7	ELC	94.71	53 iPd	17	34.74	0.0	N 20s		0.90um				
FNO	87.82	52 iPd	17	03.50	0.7	ARE	94.72	109 eP	17	38.00	2.3	E 20s		0.60um				
BJI	87.85	313 (P)	17	02.71	-0.1	TCA	95.15	125 iPd	17	38.30	1.1			e		26	06.00	
	1.5s	170.00nm		6.1mb		LZH	95.53	306 eP	17	39.50	0.7			e		38	08.00	
	Z 24s	0.96um		5.1MszX			2.0s	120.00nm		6.0mb		NUR	135.30	348	ePKP	23	29.00	-4.2X
	N 16s	0.58um					Z 40s	2.41um		5.4MszX		MOS	135.61	337	ePKP	23	33.00	-0.9
		ePpC	17	05.69	9kmX		E 15s	0.85um				Z 21s		1.10um		5.6Msz		
		eS	17	18.00				pP	17	51.00	37kmX			e		26	09.00	
		eSKS	27	30.00				PP	21	25.00		NB2	136.33	358	PKP	23	35.20	0.0
IPM	88.54	275 ePc	17	08.00	1.2	ZOBO	97.82	110 P	17	52.00	1.9			1.2s	20.70nm			
	1.0s	55.40nm		5.8mb			1.6s	20.05nm		5.5mb		BUL	137.62	209	iPKPc	23	36.00	-3.0X
ENH	89.17	302 ePd	17	10.03	0.7			SKS	28	26.00				iPKP		23	43.30	
		ePpC	17	13.34	10kmX			LR	49	52.00		GRO	139.01	317	ePKP	23	32.00	-8.7X
		ePP	20	40.99		FCC	98.53	31 eP	17	53.50	2.0	KRV	139.74	313	iPKP	23	39.00	-3.1X
TIY	89.60	310 eP	17	12.50	1.2	MBC	98.58	11 eP	17	51.00	-0.5			1.4s	30.00nm			
	1.3s	74.00nm		5.8mb			1.0s	2.00nm		4.7mb X		GRS	140.19	312	ePKP	23	37.00	-6.2X
	Z 24s	2.97um		5.6MszX		LPA	98.63	131 eP-	17	52.00	-0.7			1.5s	30.00nm			
	N 20s	1.61um					Z 20s	4.26um		5.9Msz		MTA	140.34	315	ePKP	23	35.00	-8.1X
		sS	28	15.00		GTA	99.51	308 P	17	57.00	0.3	PYA	140.35	320	ePKP	23	38.00	-5.1X
HIA	89.62	322 eP	17	10.85	-0.2		2.0s	53.00nm		5.8mb				Z 24s	1.40um		5.6MszX	
		ePp	17	14.00	10kmX		Z 28s	2.26um		5.5MszX				e		23	47.00	
GYA	90.21	298 iPd	17	16.00	1.5		E 16s	0.39um				MNK	140.53	342	ePKP	23	35.00	-8.0X
	1.4s	82.00nm		5.8mb				sP	18	06.00				Z 20s	2.20um		5.9Msz	
	Z 60s	3.67um		5.3MszX				PP	22	03.50		TAB	140.73	309	ePKP	23	33.00	-11.2X
	N 22s	1.21um						SKS	28	30.00		MUD	140.97	359	ePKP	23	37.00	-6.7X
	E 22s	1.92um						sS	29	40.00				1.3s	63.00nm			
		sS	28	18.00				SS	36	20.00		KER	141.30	304	ePKP	23	38.00	-7.3X
MIAR	90.47	54 ePd	17	15.55	0.2	ZAK	99.93	320 eP	17	59.00	0.9	SOC	142.63	321	ePKP	23	44.00	-3.1X
	1.4s	66.20nm		5.7mb			1.6s	14.00nm		5.3mb				e		23	58.00	
	Z 18s	1.35um		5.4Msz			Z 20s	0.99um		5.3Msz				e		26	58.00	
		ePpC	17	18.70	10kmX		N 19s	0.31um				ANN	143.25	325	ePKP	23	44.00	-4.1X
		ePd	17	18.27	0.8		E 20s	1.08um						e		30	10.00	
XAN	90.93	305																

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RYD	143.40	288	PKP	23	46.00	-3.1X	VITF	149.19	3	PKP	23	57.99	0.2	KNT	153.08	335	ePKP	24	02.60	-1.2
MJMA	144.49	290	PKP	23	49.73	-1.2	LIBD	149.30	1	PKP	23	58.29	0.3	IZM	153.16	325	ePKP	24	02.90	-1.1
WIT	144.62	1	ePKP	23	49.50	-0.7	HAU	149.42	2	ePKP	23	58.10	-0.1	RSM	153.27	353	PKP	24	07.10	3.2X
SIM	144.91	327	ePKP	23	50.00	-1.0		1.4s	540.20nm					ECRI	153.27	18	iPKPc	24	07.75	3.7X
Z 24s		1.00um			5.5Msz		Z 22s		1.55um			5.8Msz	SFI	153.34	354	PKP	24	07.10	3.1X	
LVV	145.17	342	iPKP-	23	51.00	-0.3	BHG	149.48	354	ePKP	23	59.10	0.8	GRG	153.45	335	ePKP	24	03.60	-0.7
Z 19s		1.10um			5.7Msz		FEL	149.58	0	PKP	23	59.18	0.6	SDA	153.53	341	ePKP	24	02.50	-1.8
DBN	145.27	3	ePKP-	23	50.00	-1.3	UZD	149.59	346	iPKP	24	03.20	4.8X	FIR	153.54	355	ePKP	24	10.00	5.7X
Z 20s		0.60um			5.4Msz		MOF	149.59	1	PKP	23	59.18	0.6	PHP	153.55	339	ePKP	24	03.90	-0.6
WTS	145.44	1	iPKPd	23	51.10	-0.5	BSF	149.61	2	PKP	23	58.90	0.3	ARV	153.63	352	PKP	24	05.20	0.7
1.4s		264.30nm					LOR	149.99	6	ePKP	23	59.20	0.1	LACI	153.84	340	ePKP	24	07.60	2.8X
KIS	145.82	334	ePKP	23	48.00	-4.4X		1.4s	383.35nm				OHR	153.93	338	iPKP	24	05.50	0.5	
1.8s		900.00nm					Z 21s		1.95um			5.9Msz		1.4s	161.00nm					
Z 22s		0.90um			5.5Msz		BBS	149.99	1	PKP	23	59.94	0.8	TIR	154.05	339	ePKP	24	08.70	3.6X
i					23 52.00		EYL	150.04	325	ePKP	24	00.00	0.5	ASS	154.09	352	PKP	24	14.10	8.9X
ARO	145.87	265	iPKPd	23	56.40	2.8X	MFF	150.07	11	ePKP	23	59.50	0.3	LIT	154.14	334	ePKP	24	04.00	-1.3
OJC	145.90	347	iPKP	23	52.70	0.2		1.6s	492.55nm				EPLA	154.27	26	ePKP	24	06.14	0.6	
1.8s		375.00nm					LOMF	150.09	2	PKP	24	00.01	0.7	GUD	154.52	22	ePKP	24	05.96	0.1
i					23 55.50		GPA	150.15	324	ePKP	24	02.00	2.4X	LSK	154.84	337	ePKP	24	09.50	3.2X
e					24 05.20		SSF	150.15	6	ePKP	23	59.60	0.3	TPE	154.93	338	ePKP	24	02.00	-4.3X
QASM	146.03	291	PKP	23	53.30	-0.2		1.3s	504.00nm				ETOR	155.05	18	ePKP	24	16.57	10.0X	
BRG	146.25	353	iPKP	23	52.60	-0.4	LBF	150.28	6	ePKP	23	59.80	0.3	SRN	155.30	338	ePKP	24	06.30	-0.5
1.5s		230.00nm						1.3s	330.70nm				EVAL	156.01	30	iPKPc	24	09.01	1.1	
i					23 56.10		BHL	150.32	309	PKP	24	01.00	0.9	SGO	156.07	346	PKP	24	07.30	-0.5
DHJN	146.26	276	PKP	23	54.40	0.0	AVF	150.41	7	ePKP	23	59.70	0.0	MGR	156.41	346	PKP	24	07.50	-0.8
KVT	146.29	320	iPKP	23	45.00	-8.5X		1.3s	257.05nm				EHOR	156.50	27	ePKP	24	07.93	-0.6	
BNS	146.48	1	ePKPd	23	54.60	1.2	OGA	150.49	356	iPKPc	24	00.70	0.6	ECHE	156.51	18	ePKP	24	12.43	3.9X
1.6s		880.00nm						i				24 05.00	EBAN	156.82	24	iPKPd	24	09.91	1.0	
UCC	146.52	4	PKPd-	23	55.50	2.1X	HRI	150.53	308	ePKP	23	59.40	-1.0	EVIA	156.88	21	ePKP	24	09.55	0.4
ENN	146.64	2	iPKPd	23	55.30	1.7	CTT	150.54	328	iPKP	24	05.60	5.5X	EPRU	157.22	28	ePKP	24	10.09	0.6
1.4s		405.40nm					SMF	150.60	6	ePKP	24	00.20	0.2	EJIF	157.53	30	ePKP	24	11.40	1.6
MOX	146.69	356	ePKP	23	53.90	0.1		1.4s	244.85nm				EHUE	157.58	23	ePKP	24	10.27	0.3	
1.8s		658.00nm					FVI	150.60	353	PKP	24	00.30	0.4	MAL	157.78	27	iPKP+	24	12.00	1.9
Z 22s		0.80um			5.5Msz		RBL	150.66	352	PKP	23	59.70	-0.5	LIC	163.06	129	PKP	24	15.70	-0.6
UZH	146.74	343	ePKPc	23	54.00	0.1	LSF	150.70	9	ePKP	24	00.30	0.1		Z 20s		0.85um		25 06.00	
Z 20s		1.20um			5.7Msz			1.4s	310.20nm						e				25 06.00	
E 20s		1.20um					SHMJ	150.75	307	PKP	24	09.70	9.0X	TIC	163.35	128	PKP	24	16.16	-0.4
e					40 00.00		TCF	150.76	8	ePKP	24	00.50	0.2		e			25 07.50		
SPC	146.76	345	ePKP	23	54.30	0.1		1.3s	198.55nm					KIC	163.36	130	PKP	24	16.08	-0.5
SNF	146.80	4	iPKPd	23	55.80	1.9	PTJ	150.81	349	ePKP	23	58.70	-1.7		1.2s		22.50nm		25 07.50	
HOF	147.00	356	ePKP	23	54.50	0.2	MAF	150.87	8	ePKP	24	00.90	0.5	BCAO	163.56	220	iPKPd	24	16.50	-0.3
ABHA	147.01	277	PKP	23	56.70	1.2		1.3s	316.25nm						e			25 07.50		
JLP	147.16	12	ePKPd	23	56.50	2.0	ZAG	150.88	349	ePKP	24	01.00	0.6		0.9s		54.00nm		24 53.00	
JVM	147.16	12	ePKPd	23	56.50	2.0	LJU	150.91	351	ePKP	24	00.50	0.0			id		28 51.80		
JSA	147.19	12	ePKPd	23	56.60	2.1		e				24 06.50				ic		28 51.80		
JRS	147.21	12	ePKPd	23	56.80	2.2X	EMON	150.92	23	iPKPd	24	02.18	1.6							
TNS	147.23	360	iPKPd	23	57.40	2.7X	VOY	151.02	352	ePKP	24	00.20	-0.6							
i					23 59.00			e				24 03.20								
DOU	147.24	4	PKPd	23	57.30	2.7X		i				24 40.00								
i					24 00.00			i				25 19.30								
GRF	147.66	356	ePKP	23	54.20	-1.2	SALJ	151.10	305	PKP	24	07.60	6.3X							
Z 22s		0.80um			5.5Msz		MASJ	151.19	305	PKP	24	07.20	5.8X							
i					23 58.60		CEY	151.23	351	ePKP	24	00.60	-0.4							
e					24 01.50		KCT	151.23	327	ePKP	24	07.00	5.8X	IGT	0.10	109	iPg	45	03.38	-1.0
BNN	147.68	317	ePKP	23	58.50	2.6X	VVI	151.24	354	PKP	24	06.70	5.7X							
WLF	147.75	2	iPKPd	23	59.14	3.7X	CTI	151.25	355	PKP	24	01.20	0.1	SRN	0.35	333	ePg	45	09.70	0.8
FLN	147.92	11	ePKP	23	55.70	-0.1	VBV	151.32	349	ePKP	24	01.50	0.4							
1.3s		563.20nm						iPKPbc				24 07.40		LSK	0.66	27	ePg	45	18.50	3.7X
PSZ	148.03	345	ePKP	23	55.70	-0.4	TRI	151.35	352	ePKP	24	02.50	1.4							
WET	148.07	354	iPKPc	23	56.50	0.4		e				27 48.00		TPE	0.75	348	ePg	45	15.50	-0.8
LDF	148.15	10	ePKP	23	55.80	-0.3		e				37 40.00		KBN	1.15	22	ePn	45	22.50	-0.6
1.4s		531.50nm					BNT	151.38	327	ePKP	24	06.00	4.6X	FNA	1.51	36	ePb	45	31.86	3.1X
GRR	148.22	11	ePKP	23	56.00	-0.2	DSI	151.51	305	ePKP	24	01.40	-0.4							
1.4s		590.75nm					VAI	151.58	359	PKP	24	01.70	0.3	OHR	1.61	16	ePn	45	35.50	5.3X
GEC2	148.28	353	ePKPc	23	56.30	-0.2	RIY	151.62	351	ePKP	24	01.30	-0.2	AGG	1.73	108	ePb	45	32.34	0.3
1.3s		5.70nm					MDI	151.65	358	PKP	24	06.90	5.4X							
ec					24 00.20		COLF	151.70	7	PKP	24	05.02	3.3X							
e					24 02.70		RSL	151.74	2	PKP	24	02.07	0.1	LIT	1.83	72	ePn	45	34.74	1.3
e					24 05.00		SAL	151.77	356	PKP	24	08.20	6.5X							
e					24 12.20		ORO	151.83	0	PKP	24	08.00	6.0X	SKO	2.58	21	ePn	46	06.00	21.9X
LANF	148.47	0	PKP	23	57.27	0.6	SHWJ	151.87	302	PKP	24	02.20	-0.5							
SRO	148.50	347	ePKP	23	54.10	-2.6X	ERUA	151.88	24	ePKP	23	58.94	-3.1X							
i					24 01.00		ALN	151.90	330	ePKP	24	02.80	0.7							
i					25 21.20		KHL	151.93	322	iPKP	24	08.70	6.3X							
HOFF	148.51	0	PKP	23	57.61	0.9	SSB	152.02	5	PKP	24	03.20	1.0							
LPF	148.52	12	ePKP	23	56.70	0.0	BNI	152.38	2	PKP	24	04.10	1.2							
1.4s		611.65nm					MBH	152.59	302	ePKP	24	03.70	0.2							
BUD	148.65	346	ePKP	23	56.50	-0.5	BOB	152.67	358	PKP	24	12.70	9.5X	BIP	1.60	184	iPc	41	06.20	-0.7
SOP	148.98	349	iPKPd	24	00.20	2.7X	ELL	152.72	319	ePKP	24	11.00	7.4X	PLP	1.89	315	ePc	41	12.00	0.9
KMR	149.00</																			

MTN	23.02	168	eP	45	42.00	-0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</
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02d 10h

1.0s 2.00nm 4.1mb X
 WB2 57.28 183 eP 15 35.20 -2.7
 0.6s 22.20nm 5.4mb
 CTA 57.95 170 P 15 45.59 3.0
 GBA 58.10 263 Pd 15 42.00 -1.8
 POO 58.17 270 IPd 15 40.00 -4.4X
 MA10 60.51 295 eP 16 01.00 0.6
 ASH 60.59 297 eP 15 57.50 -3.3X
 ASPA 61.00 184 eP 16 01.70 -1.9
 0.7s 16.80nm 5.3mb
 MOS 64.89 322 eP 16 28.00 -1.0
 Z 14s 1.30um 5.3MszX
 YKA 64.92 29 eP 16 26.60 -2.6
 0.7s 1.20nm 4.2mb X
 OBN 65.72 322 eP 16 35.00 0.6
 1.2s 40.00nm 5.5mb
 PUL 66.08 328 (P) 16 38.00 1.4
 1.0s 120.00nm 6.0mb
 Z 13s 0.50um 4.9MszX
 KAF 66.34 331 IP 16 38.10 -0.1
 0.8s 15.20nm 5.2mb
 NUR 67.94 331 eP 16 48.10 -0.3
 0.5s 6.30nm 5.1mb
 GRS 68.09 304 eP 16 48.00 -2.0
 1.6s 60.00nm 5.5mb
 STK 69.21 176 eP 16 57.20 0.7
 1.3s 2.50nm 4.2mb
 MNK 70.74 324 eP 17 03.00 -2.7
 UPP 71.03 332 IP 17 08.10 0.8
 VGB 71.49 47 (P) 17 13.39 2.9X
 DPW 71.57 43 eP 17 09.42 -1.6
 NB2 72.42 336 P 17 14.20 -1.5
 1.1s 28.70nm 5.3mb
 FCC 74.90 25 eP 17 34.00 3.9X
 UZH 76.66 322 eP 17 41.50 1.2
 1.5s 55.00nm 5.4mb
 Z 15s 1.60um 5.5MszX
 E 15s 1.10um
 KVN 76.92 51 eP 17 43.24 1.0
 FRB 76.93 12 eP 17 43.00 1.5
 MEMM 77.25 52 (P) 17 45.61 1.9
 SPC 77.28 323 eP 17 44.80 0.9
 PHAM 77.43 54 (P) 17 47.17 2.4
 KSP 77.92 326 eP 17 46.50 -0.7
 1.0s 12.96nm 5.1mb
 TNP 78.07 51 eP 17 49.64 1.1
 0.8s 12.96nm 5.1mb
 PSZ 78.32 322 ePc 17 48.70 -0.9
 HVU 78.37 46 eP 17 51.78 1.7
 HRI 78.65 303 eP 17 50.40 -1.2
 BRG 78.92 327 eP 17 51.40 -1.3
 1.3s 27.00nm 5.1mb
 CLL 79.00 328 IPd 17 54.30 1.2
 1.0s 34.00nm 5.3mb
 SRO 79.16 323 eP 17 56.00 2.0
 PRU 79.31 327 eP 17 54.00 -0.8
 1.3s 14.40nm 4.8mb
 Z 13s 0.70um 5.2MszX
 DSI 79.92 302 eP 17 57.30 -1.2
 MOX 80.07 328 eP 17 59.10 0.2
 1.6s 22.00nm 4.9mb
 DAU 80.13 46 eP 18 00.10 0.3
 KHC 80.37 326 eP 18 00.00 -0.6
 1.3s 21.10nm 5.0mb
 Z 14s 1.00um 5.3MszX
 N 14s 0.60um
 E 14s 0.90um
 i 18 02.90 9km
 e 21 06.50
 GEC2 80.53 326 ePc 18 00.30 -1.2
 1.0s 7.28nm 4.6mb
 e 18 02.90 8km
 e 18 08.70
 e 18 17.70
 ARUT 80.56 49 eP 18 01.41 -0.6
 WET 80.67 327 IPc 18 04.60 2.5
 1.0s 14.00nm 4.9mb
 ULM 80.76 31 eP 18 06.50 4.0X
 MSU 80.84 48 eP 18 02.83 -0.7
 GRF 80.96 328 eP 18 03.40 -0.3
 1.2s 40.00nm 5.3mb
 Z 18s 0.20um 4.5Msz
 MBH 81.37 301 eP 18 04.90 -1.3
 SRU 81.41 47 eP 18 05.27 -1.2

VAY 81.49 316 eP 18 08.60 2.1
 RSSD 81.50 40 eP 18 04.88 -2.0
 1.4s 17.37nm 4.9mb
 KBA 82.01 325 IPc 18 08.60 -0.8
 1.1s 18.50nm 5.1mb
 WTTA 82.63 326 IP(P) 18 11.10 -1.5
 1.3s 21.50nm 5.1mb
 CDF 83.59 329 eP 18 18.90 1.5
 1.3s 37.20nm 5.4mb
 BSF 84.25 329 eP 18 21.80 1.0
 1.4s 27.90nm 5.3mb
 HAU 84.29 329 eP 18 22.00 1.1
 1.2s 16.65nm 5.1mb
 Z 17s 0.15um 4.4MszX
 TMA 84.74 327 ePc 18 24.80 1.5
 MMK 85.17 327 ePc 18 27.60 2.0
 LOR 85.88 330 eP 18 30.00 1.2
 1.2s 27.35nm 5.3mb
 Z 22s 0.20um 4.5MszX
 LBF 86.07 330 eP 18 30.70 0.9
 1.2s 20.85nm 5.2mb
 LPG 86.13 328 eP 18 31.90 1.4
 1.2s 17.25nm 5.1mb
 SSF 86.19 330 eP 18 31.96 1.6
 1.2s 20.55nm 5.2mb
 FLN 86.26 334 eP 18 31.70 1.1
 1.4s 39.65nm 5.4mb
 LDF 86.28 333 eP 18 31.80 1.1
 1.1s 20.50nm 5.2mb
 SMF 86.40 330 eP 18 32.50 1.1
 1.5s 43.35nm 5.4mb
 AVF 86.47 330 eP 18 33.00 1.3
 1.2s 42.25nm 5.5mb
 GRR 86.71 334 eP 18 34.30 1.4
 1.2s 32.45nm 5.4mb
 BGF 86.86 331 eP 18 35.00 1.3
 1.0s 13.40nm 5.1mb
 LPF 87.08 334 eP 18 35.50 0.9
 1.0s 14.60nm 5.2mb
 MAF 87.25 330 eP 18 37.20 1.6
 1.1s 23.95nm 5.4mb
 MFF 87.96 332 eP 18 40.70 1.8
 1.3s 35.00nm 5.5mb
 RJF 88.42 331 eP 18 42.90 1.7
 1.0s 12.20nm 5.2mb
 Z 19s 0.15um 4.4Msz
 ZOBO 149.05 54 PKP 25 38.60 4.1X
 CCH 151.14 52 ePKP 25 44.00 6.7X
 SIV 153.00 42 ePKP 25 51.00 11.3X
 S.D. = 1.4 on 132 of 145 obs.
 % APR 02, 1993 10h 22m 30.82±0.79s
 40.349 N ±10.6km 28.057 E ±5.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).
 BNT 0.10 274 IPg 22 34.00 0.4
 1.0s 22 36.50
 EDC 0.15 269 IPg 22 34.00 -0.2
 1.0s 22 36.00
 KCT 0.25 113 IPg 22 36.00 -0.2
 1.0s 22 39.60
 CTT 0.85 19 IPg 22 47.00 -0.1
 YLV 1.03 77 ePn 22 50.50 0.2
 S.D. = 0.4 on 5 of 5 obs.
 * APR 02, 1993 11h 02m 44.65±1.61s
 7.135 S ±9.0km 155.714 E ±8.2km
 DEPTH = 73.0 ±14.7 km
 4.5mb (10 obs.)
 SOLOMON ISLANDS (193)
 HNR 4.77 119 P 03 55.00 -0.7
 PMG 8.76 254 eP 04 52.00 1.0
 CTA 15.81 215 eP 06 23.00 -1.3
 DZM 18.10 146 IPd 06 53.70 0.8
 BRS 20.34 188 IP 07 19.00 1.5
 RMQ 20.36 198 eP 07 18.20 0.5
 0.5s 13.00nm 4.5mb
 QLP 22.21 208 eP 07 36.00 -0.3
 WB2 24.32 236 eP 07 55.10 -1.8
 0.4s 5.90nm 4.4mb
 CMS 25.93 200 eP 08 13.00 1.2
 0.8s 10.00nm 4.4mb

ASPA 26.62 229 eP 08 22.50 4.2X
 1.2s 3.70nm 3.8mb
 STK 27.92 206 eP 08 28.80 -1.2
 0.5s 1.80nm 3.9mb
 MDJ 56.63 338 eP 12 23.00 0.5
 GYA 58.10 307 eP 12 33.20 -0.1
 XAN 60.30 316 P 12 47.00 -1.2
 0.7s 3.10nm 4.5mb
 CD2 62.45 310 Pd 13 03.90 1.2
 GUN 75.80 301 P 14 25.20 -0.2
 PKI 76.11 301 P 14 27.20 0.1
 0.9s 25.00nm 5.1mb
 KKN 76.28 301 P 14 27.60 -0.3
 0.8s 20.00nm 5.1mb
 DMN 76.38 301 P 14 28.20 -0.3
 0.9s 67.00nm 5.6mb
 GKN 76.88 301 P 14 30.80 -0.4
 KSH 86.63 310 P 15 23.90 2.2
 0.5s 30.00nm 5.7mb X
 YKA 96.13 28 eP 16 04.60 -0.6
 0.9s 0.90nm 4.3mb
 NB2 120.07 341 PKP 21 27.30 -1.0
 0.8s 2.50nm
 GEC2 127.54 329 ePKPc 21 43.40 0.3
 0.7s 1.09nm
 e 21 52.40
 CNCB 130.67 119 ePKP 21 52.00 1.4
 LPB 130.69 119 ePKP 21 49.00 -1.5
 ZOBO 130.78 119 PKP 21 50.00 -0.8
 BAO 147.39 134 ePKP 22 21.00 0.8
 i 22 23.90
 i 22 26.00
 S.D. = 1.1 on 27 of 28 obs.
 * APR 02, 1993 11h 50m 36.85±2.36s
 36.269 N ±10.8km 1.956 W ±23.1km
 DEPTH = 10.0km (geophysicist)
 WESTERN MEDITERRANEAN SEA (387)
 mbLg 3.1 (MDD).
 ENIJ 0.73 344 IPnd 50 52.19 1.0
 eSn 51 18.30
 EGUA 1.41 294 ePn 51 01.88 -0.7
 eSn 51 30.70
 EHUE 1.62 342 ePn 51 06.18 0.5
 eSn 51 40.20
 ECOG 1.64 308 IPnd 51 06.47 0.6
 eSn 51 38.40
 ELUQ 2.26 306 ePn 51 14.17 -0.7
 EBAN 2.39 323 ePn 51 17.23 0.6
 eSn 51 58.40
 EVIA 2.40 350 IPnc 51 15.42 -1.5
 eSn 51 56.90
 IFR 3.79 224 eP 51 37.00 0.3
 i 52 33.00
 S.D. = 1.0 on 8 of 8 obs.
 * APR 02, 1993 11h 59m 44.81±0.89s
 5.118 S ±7.1km 153.550 E ±10.7km
 DEPTH = 54.5 ±6.7 km
 4.7mb (9 obs.)
 NEW IRELAND REGION, P.N.G. (190)
 RAB 1.66 304 IPc 00 14.00 2.0
 iS 00 40.00
 LAT 6.69 256 eP 01 21.90 -1.0
 PMG 7.64 236 eP 01 36.00 -0.1
 eS 03 04.00
 CTA 16.49 205 eP 03 34.00 0.0
 DZM 20.97 145 IPc 04 25.30 -0.5
 RMQ 21.74 192 IPd 04 35.10 1.7
 0.5s 7.00nm 4.3mb
 QLP 23.13 202 eP 04 37.60 -9.5X
 WB2 23.80 230 IPc 04 53.60 0.0
 1.0s 4.00nm 3.9mb
 IPcP 08 37.40
 eS 08 51.00
 ARMA 25.23 184 IPc 05 08.80 1.4
 0.9s 13.00nm 4.4mb
 ASPA 26.43 224 eP 05 17.50 -1.0
 0.6s 2.70nm 4.0mb
 CMS 27.21 195 IPd 05 24.70 -0.8
 XAN 57.37 316 P 09 28.80 -1.3
 1.0s 10.00nm 4.8mb
 CD2 59.51 310 eP 09 44.70 -0.4
 0.7s 23.00nm 5.4mb
 LZH 61.98 316 P 10 01.50 -0.4

GTA	1.2s	38.00nm	5.4mb	HOQJ	6.64	40 eP	51	33.20	0.1	LZH	26.89	277 eP	55	32.50	-1.7	
	66.40	317 P	10 31.00	0.4	VLA	7.08	325 eP	51	53.00	13.8X		1.5s	200.00nm		5.5mb	
	1.0s	14.00nm	4.9mb			1.0s	61.00nm				Z	16s	0.98um		4.5MszX	
		pP	10 41.00	32kmX	N	12s	1.30um				E	15s	0.77um			
GUN	72.92	301 P	11 11.20	0.1	KUMJ	7.34	230 P	51	42.70	-0.1	IRK	27.49	313 eP	55	42.20	2.9
KKN	73.40	301 P	11 13.00	-0.7	ASAJ	7.72	29 eP	51	48.00	-0.1	Z	14s	0.41um		4.2MszX	
DMN	73.51	301 P	11 14.60	0.3	KUSJ	7.89	42 eP	51	47.70	-2.8	E	12s	0.37um			
GKN	74.01	301 P	11 17.20	0.1	KAGJ	8.29	223 P	51	56.40	0.3						
WMO	76.48	317 eP	11 31.80	1.0	MDJ	9.30	323 eP	52	11.20	1.3	ZAK	27.55	309 eP	56	25.50	217kmX
SPA	84.91	180 iPd	12 15.90	0.8		1.2s	23.00nm		5.1mb			1.6s	19.00nm		55 38.50	
	1.0s	20.00nm	5.2mb		Z	16s	2.95um				Z	14s	0.98um		4.5mb	
OBN	109.39	327 ePKP	18 09.00	-1.5	N	13s	1.68um				E	14s	1.06um		4.5MszX	
BCAO	135.17	271 ePKPc	19 00.10	-1.0	E	12s	1.00um									
	0.5s	3.00nm					S	53	58.00		GYA	28.23	256 iPd	00	24.00	
S.D. = 1.0	on	22 of	23 obs.		YSS	10.31	20 iP	52	24.00	0.3		1.0s	15.00nm	55	45.20	
% APR 02, 1993	12h	17m	18.13±0.60s			1.1s	30.00nm		5.4mb		CD2	28.54	267 eP	55	47.40	
43.841 N ± 7.1km		11.945 E ± 4.8km			Z	16s	0.50um				GTA	29.43	286 eP	55	56.00	
DEPTH = 10.0km (geophysicist)					N	16s	0.50um				Z	18s	0.57um		-1.0	
CENTRAL ITALY			(381)		E	14s	0.50um				E	10s	0.26um		4.2Msz	
SFI	0.10	320 P	17 21.50	0.6	KUR	11.01	42 (P)	52	31.00	-2.2	KMI	31.95	257 eP	56	18.50	
		eSg	17 24.20			1.0s	180.00nm		6.2mb X			1.5s	50.00nm		-1.0	
PGD	0.16	282 P	17 22.70	0.7	CN2	11.11	309 eP	52	35.80	1.1					5.1mb	
		eSg	17 25.90			1.2s	8.20nm		4.7mb		WMO	37.83	296 P	56	25.00	
CRE	0.21	179 Pd	17 23.40	0.6	Z	14s	1.48um				ELT	38.40	311 eP	57	11.00	
		eSg	17 26.30		N	12s	0.47um					1.7s	25.00nm	57	12.80	
RSM	0.38	77 P	17 25.90	0.0	E	12s	0.96um				LSA	39.04	273 Pc	57	20.70	
		eSg	17 31.20		SNY	11.57	296 eP	52	41.40	0.6	NRI	41.43	336 ePc	57	39.00	
ARV	0.80	115 P	17 33.20	-0.5	Z	16s	1.41um					1.5s	16.00nm		4.5mb	
		eSg	17 44.20		N	11s	1.05um				Z	18s	2.60um		5.1Msz	
ASS	0.93	146 P	17 36.00	0.1	SSE	14.88	250 Pc	53	31.50	7.0X	E	18s	1.60um			
		eSg	17 48.10			1.1s	24.00nm		4.4mb						59 12.00	
BDI	1.00	283 P	17 36.30	-0.8	Z	12s	0.90um				GUN	43.99	273 PKP	58	04.00	
PII	1.04	264 P	17 37.00	-0.7	N	12s	0.50um					1.0s	42.00nm		3.4X	
S.D. = 0.7	on	8 of	8 obs.		E	12s	0.30um				PKI	44.51	273 PKP	58	04.60	
? APR 02, 1993	12h	17m	48.58±3.40s				eS	56	28.00		KKN	44.52	273 PKP	58	04.00	
42.787 N ±32.6km		24.057 E ±12.7km			SNJ2	16.22	256 Pd	53	42.80	1.1	DMN	44.74	273 PKP	58	06.40	
DEPTH = 10.0km (geophysicist)					Z	14s	0.35um				FRU	47.37	297 eP	58	29.00	
BULGARIA			(359)		N	14s	0.47um					2.5s	80.00nm		2.1	
SRS	1.70	192 ePb	18 18.02	-0.5	E	12s	0.59um				Z	16s	0.50um		5.3mb	
		eSb	18 39.42		TIA	16.34	272 eP	53	44.90	1.6	IMA	47.93	31 eP	58	30.76	
VAY	1.84	218 iPn	18 21.40	1.0	Z	15s	1.29um					0.8s	4.19nm		-0.3	
KNT	1.84	208 ePb	18 20.62	0.2	N	13s	0.72um				SVE	52.74	318 ePc	59	06.50	
		eSb	18 44.34		BJI	16.81	285 eP	53	49.00	-0.1		1.9s	40.00nm		-1.1	
SOH	2.03	195 iPb	18 22.69	-0.6	Z	15s	86.00nm		4.7mb		ARU	53.93	318 eP	59	15.00	
		iSb	18 49.30		N	12s	0.60um		7.7MszX			1.8s	100.00nm		-1.4	
SKO	2.10	248 ePn	18 28.00	3.7X	TIIY	19.83	278 Pc	54	25.50	0.2	Z	16s	0.50um		5.5mb	
GRG	2.21	215 ePn	18 25.62	-0.2	Z	15s	2.13um				E	16s	0.50um		4.7MszX	
		eSn	18 53.30		N	12s	0.37um									
ALN	2.40	141 ePn	18 30.18	1.6	WHN	20.35	257 eP	54	31.00	0.4	HYB	55.08	266 eP	59	25.00	
		eSn	19 00.30		Z	12s	0.49um		4.1MszX		MBC	57.00	16 eP	59	38.00	
OUR	2.45	181 ePn	18 28.46	-0.8	HHC	20.35	288 Pd	54	30.00	-0.8		1.0s	2.00nm		-0.4	
		eSn	18 59.90		Z	14s	31.00nm		4.5mb		WB2	57.17	183 eP	59	39.40	
DMK	2.91	108 ePn	18 35.00	-0.8	N	18s	0.85um		4.1Msz			0.6s	21.80nm		-0.7	
MLR	3.03	26 eP	18 45.00	7.5X	E	12s	0.23um				WRA	57.17	184 P	59	40.20	
S.D. = 1.1	on	8 of	10 obs.		OZH	20.36	238 eP	54	29.00	-1.8		0.6s	6.20nm		0.1	
APR 02, 1993	12h	49m	55.60±0.23s		PET	21.43	37 eP	54	44.00	2.6	GBA	58.13	263 Pd	59	45.00	
37.458 N ± 3.6km		137.473 E ± 3.4km			Z	20s	0.50um		3.9Msz		ASPA	60.89	184 iPc	00	05.70	
DEPTH = 46.4km (4 depth phases)					BTO	21.52	287 eP	54	41.50	-1.2		0.7s	14.70nm		-0.1	
4.8mb (39 obs.)		4.2Msz (6 obs.)			N	12s	0.39um				WARB	64.12	191 eP	00	28.00	
NEAR WEST COAST OF HONSHU, JAPAN(226)					E	13s	0.36um				YKA	65.00	29 eP	00	31.50	
							eP	54	49.00			0.9s	1.10nm		-1.1	
MTMJ	0.91	163 iP+	50 11.30	-1.0			ePP	55	07.00		OBN	65.84	322 eP	00	42.00	
MAT	1.09	147 iPc	50 14.30	-0.4	CIT	22.20	319 eP	54	50.00	0.8	Z	2.0s	80.00nm		3.9X	
		iS	50 30.60		Z	14s	2.11um		4.7MszX		E	14s	0.70um		5.4mb	
NIJJ	1.24	100 iP+	50 15.60	-1.2	N	14s	0.96um								5.0MszX	
		S	50 33.70		E	14s	1.92um									
CHJJ	1.86	139 iP+	50 26.30	0.7	XAN	23.38	270 P	55	00.30	-0.7	NUR	68.07	331 eP	00	51.30	
IJDJ	2.01	170 P	50 28.30	0.6		1.0s	7.10nm		4.1mb		GRS	68.20	304 eP	00	53.00	
YAMJ	2.15	70 P	50 28.10	-1.6	Z	10s	0.70um		4.4MszX						-0.5	
TSRJ	2.26	212 P	50 30.90	-0.3	N	12s	0.41um				STK	69.09	176 eP	00	59.40	
KAKJ	2.50	119 P	50 35.60	0.9	E	12s	0.46um					0.7s	1.60nm		0.8	
WKYJ	3.57	206 P	50 49.60	-0.4			eP	55	14.50		NB2	72.54	336 P	01	18.40	
OFUJ	3.68	63 P	50 50.20	-1.2	MGD	24.21	16 eP	55	07.00	-1.6		0.9s	6.10nm		-0.9	
AOMJ	3.83	35 P	50 52.00	-1.6			e	55	19.00	47km	KVN	76.96	51 eP	01	47.10	
		eS	51 36.90				e	59	28.00		SPC	77.40	323 eP	01	48.10	
YONJ	3.95	236 P	50 54.50	-0.8	YAK	25.05	351 eP	55	15.10	-1.6	KSP	78.05	326 eP	01	51.50	
TKSJ	4.45	220 P	51 01.60	-0.7		1.5s	60.00nm		4.9mb		TNP	78.10	51 eP	01	53.13	
SHK	4.86	235 iP	51 08.00	-0.1	Z	18s	1.10um		4.4Msz			0.8s	7.99nm		1.6	
	1.0s	480.00nm			N	16s	0.70um								4.8mb	
MRRJ	5.68	28 eP	51 18.10	-1.5			eS	59	43.00		PSZ	78.45	323 eP	01	54.00	
SHNJ	6.15	239 P	51 26.20	0.0	BOD	25.50	331 eP	55	19.20	-1.7	BRG	79.04	327 e(P)	01	57.00	
						1.3s	16.00nm		4.4mb		CLL	79.12	328 iPd	01	57.20	

02d 13h

	e	07 16.50		
	e	07 32.00		
	eSg	07 38.50		
	e	07 45.30		
BW06	79.56 44 eP	01 59.92	0.5	
	0.8s	6.33nm	4.6mb	
GSC	80.10 53 eP	02 05.88	3.7X	
DAU	80.18 46 eP	02 05.33	2.5	
KHC	80.50 326 eP	02 05.00	1.0	
	e	02 18.00	44km	
ARUT	80.60 49 eP	02 06.01	1.1	
GEC2	80.65 326 ePd	02 05.40	0.5	
	0.8s	2.60nm	4.2mb	
MSU	80.89 48 ePc	02 08.75	2.2	
GRF	81.09 328 eP	02 08.20	1.1	
	1.0s	10.00nm	4.7mb	
Z	20s	0.10um	4.2msz	
SRU	81.46 47 eP	02 11.15	1.7	
RSSD	81.56 40 eP	02 10.94	1.0	
	1.1s	6.20nm	4.5mb	
VBY	82.40 323 eP	02 14.50	0.5	
PV09	82.68 47 eP	02 18.29	2.4	
CDF	83.72 329 iPd	02 21.50	0.7	
	1.0s	10.00nm	4.8mb	
LOR	86.01 330 iPd	02 32.60	0.4	
	0.8s	4.85nm	4.8mb	
SSF	86.32 330 eP	02 34.30	0.6	
	0.5s	1.95nm	4.6mb	
AVF	86.60 330 iPd	02 35.70	0.6	
	0.8s	7.10nm	4.9mb	
MAF	87.38 331 iPd	02 40.00	1.1	
	0.9s	7.85nm	4.9mb	
ZOBO	149.08 54 PKP	09 42.90	5.8X	
CCH	151.18 52 (PKP)	09 55.00	15.1X	
SIV	153.05 42 ePKP	09 56.00	13.8X	
BAO	157.73 14 (PKP)	09 45.00	-3.6X	
	S.D. = 1.2	on 96 of 106 obs.		

? APR 02, 1993 12h 59m 45.88±1.01s
 39.134 N ±15.6km 27.570 E ±45.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).

I2M	0.77 198 iPg	00 01.00	0.0
	iSg	00 13.50	
EDC	1.23 10 ePn	00 08.50	-0.3
BNT	1.25 12 iPn	00 09.40	0.3
KCT	1.27 28 iPn	00 09.40	0.0
	S.D. = 0.4	on 4 of 4 obs.	

? APR 02, 1993 13h 13m 01.41±5.90s
 57.791 N ±48.6km 6.218 E ±22.8km
 DEPTH = 10.0km (geophysicist)
 NORTH SEA (534)
 MD 3.0 (BER).

ODD1	2.14 6 eP	13 37.89	0.2
	eSg	13 59.45	
EGD	2.54 349 iPc	13 43.66	0.4
	eSg	14 12.60	
BER	2.64 350 eP	13 45.14	0.4
	eSg	14 16.02	
ASK	2.75 349 iPd	13 46.49	0.2
	eSg	14 19.06	
SUE	3.36 348 iPc	13 54.43	-0.5
	eS	14 27.42	
HYA	3.39 360 eP	13 56.24	0.9
	eSg	14 38.96	
FOO	3.87 352 eP	14 01.30	-0.8
NRA0	4.02 41 ePn	14 04.07	-0.3
	ePg	14 13.54	
	eSn	14 46.47	
HFS	4.53 56 eP	14 12.00	0.5
	0.1s	1.50nm	
MOL	4.84 7 iPd	14 15.23	-0.7
FIA0	10.69 62 ePn	15 37.22	-0.2
	eSn	17 29.95	
	S.D. = 0.6	on 11 of 11 obs.	

% APR 02, 1993 13h 49m 57.00±1.43s
 41.145 N ±12.5km 21.953 E ±8.4km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.9 (THE), 1.5 (SKO).

GRG	0.39 119 iPg	50 05.00	0.0
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VAY	0.50 69 iPg	50 06.60	-0.5
	iSg	50 14.40	
FNA	0.57 231 ePg	50 08.76	0.2
KNT	0.71 88 ePg	50 10.92	-0.2
	iSg	50 21.04	
SOH	1.11 106 ePg	50 19.00	1.2
LIT	1.12 158 ePg	50 17.28	-0.7
	S.D. = 0.9	on 6 of 6 obs.	

APR 02, 1993 14h 32m 19.09±0.12s
 18.423 N ±2.5km 145.221 E ±2.8km
 DEPTH = 500.8km (8 depth phases)
 5.2mb (90 obs.)

MARIANA ISLANDS (216)
 Mw 5.4 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 28S, 44C
 Centroid Location:
 Origin Time 14:32:22.4 0.5
 Lat 18.67N 0.05 Lon 145.30E 0.03
 Dep 486.1 3.0 Half-duration 1.3
 Moment Tensor; Scale 10¹⁷ Nm
 Mrr=-0.66 0.04 Mtt=-0.38 0.06
 Mff= 1.03 0.06 Mrt=-1.04 0.07
 Mrf= 0.60 0.07 Mtf=-0.37 0.05
 Principal Axes:
 T Vol= 1.51 Plg=25 Azm=244
 N 0.07 29 140
 P -1.59 50 8
 Best Double Couple: Mo=1.5×10¹⁷
 NP1: Strike= 18 Dip=33 Slip= -27
 NP2: 131 76 -120

WKYJ	17.93 333 P	35 57.80	-0.7
KAGJ	18.16 317 P	36 02.20	1.5
IIDJ	18.18 341 P	36 00.60	-0.4
KAKJ	18.27 347 P	36 01.20	-0.5
CHJJ	18.40 344 P	36 02.50	-0.5
TKSJ	18.43 329 P	36 03.10	-0.2
TSRJ	18.91 336 P	36 08.50	0.5
MAJO	19.08 342 iPd	36 08.86	-0.8
MAT	19.08 342 iPd-	36 08.60	-1.0
	eS	39 16.00	
KUMJ	19.11 320 P	36 10.50	0.6
MTMJ	19.24 342 P	36 09.70	-1.5
NIJJ	19.53 345 P	36 13.90	0.0
YONJ	19.69 330 P	36 15.30	-0.2
SHNJ	20.08 324 P	36 18.80	-0.3
YAMJ	20.19 348 P	36 20.10	-0.1
	eS	39 44.60	
OFUJ	20.81 352 P	36 25.40	-0.5
	eS	40 14.90	
PLP	20.85 253 ePd	36 26.00	-0.4
8BP	22.02 279 ePc	36 36.80	-0.4
MAP	22.08 252 ePd	36 36.50	-1.2
CVP	22.26 272 ePd	36 39.00	-0.3
AOMJ	22.45 350 P	36 41.40	0.5
TATO	22.98 291 eP	36 47.35	1.5
BAG	23.59 269 eP	36 50.90	-0.8
TGY	23.70 263 eP	36 52.50	0.0
PGP	23.83 262 ePc	36 53.20	-0.4
HOOJ	23.94 356 eP	36 53.90	-0.5
MRRJ	24.18 352 eP	36 55.60	-1.0
KUSJ	24.60 359 eP	36 59.00	-1.3
SSE	25.14 305 Pc	37 04.00	-1.3
	1.0s	84.00nm	5.2mb
Z	16s	0.40um	4.0mszX
N	10s	0.10um	
E	10s	0.20um	
	sP	39 22.00	
	S	40 50.00	
	ScP	43 14.00	

QZH	25.55 289 eP	37 08.50	-0.5
ASAJ	25.71 356 P	37 10.20	0.0
KUR	26.82 4 iP	37 20.00	0.0
	0.5s	140.00nm	5.7mb
VLA	27.08 338 iPd-	37 23.00	0.7
	1.0s	444.00nm	5.9mb
	i	37 33.00	36kmX
	e	40 20.00	
NJ2	27.35 305 Pc	37 24.00	-0.8
	iPcP	40 28.20	
	iScP	43 21.00	
PMG	27.72 176 eP	37 28.00	-0.1
YSS	28.59 356 iPd	37 34.00	-1.4
	1.0s	80.00nm	5.2mb

DL2	28.92 320 eP	37 38.00	-0.3
MDJ	29.21 337 iPd	37 40.60	-0.2
	1.2s	100.00nm	5.2mb
SNY	29.75 326 iPd	37 44.40	-1.1
	1.2s	120.00nm	5.3mb
GZH	30.13 284 iPd	37 50.80	1.8
TSM	30.20 246 iPc	37 50.00	0.3
CN2	30.28 331 Pd	37 48.20	-1.9
	1.1s	95.00nm	5.2mb

	PcP	40 34.50	
	S	42 12.00	
	ScP	43 27.80	
	SS	44 50.00	
	ScS	47 24.00	

TIA	30.45 311 eP	37 51.30	-0.4
	PcP	40 35.90	
	eS	42 18.00	
WHN	30.47 299 Pd	37 52.70	0.8
	1.0s	36.00nm	4.9mb
	PcP	40 35.00	
	S	42 18.00	
	iScS	47 29.00	

KKM	30.84 250 ePc	37 55.50	0.2
	0.8s	604.40nm	6.2mb
BJI	33.02 317 eP	38 13.00	-0.3
	1.5s	200.00nm	5.4mb
	ePcP	40 42.50	
	eS	42 56.00	
	esS	45 36.00	
	eScS	47 41.00	

SKR	33.32 13 eP	38 15.30	-0.4
	0.6s	50.00nm	5.2mb
	e	38 24.40	31kmX
QIZ	33.48 277 P	38 20.00	2.6
	S	43 05.00	
MTN	34.04 205 iPc	38 21.70	-0.3
	0.3s	272.00nm	6.3mb X
TIY	34.48 311 Pd	38 26.00	0.3
Z	20s	0.50um	4.3msz
N	16s	0.72um	
	S	43 20.00	

XAN	35.87 303 iPd	38 37.70	0.4
	0.6s	74.00nm	5.4mb
Z	15s	0.29um	4.2mszX
	PcP	40 51.50	
	S	43 39.00	
PET	36.08 14 iP	38 39.00	0.3
	1.0s	85.00nm	5.2mb
	e	40 11.00	498km
	e	40 51.00	

GYA	36.42 290 iPc	38 43.80	1.8
	0.8s	33.00nm	4.9mb
	PcP	40 54.00	
	S	43 49.00	
	ScP	43 54.00	
	ScS	48 01.40	

HHC	36.47 315 Pd	38 43.10	0.8
	1.0s	120.00nm	5.4mb
	N	12s	0.15um
	S	43 49.00	
BTO	37.41 314 P	38 50.00	0.1
	1.4s	160.00nm	5.4mb
	ePp	40 20.50	483kmX

KNA	37.63 207 iPc	38 51.90	0.2
	0.5s	81.00nm	5.5mb
CTA	38.29 178 P	38 57.70	0.6
CTAO	38.29 178 eP	38 56.51	-0.6
	e	39 16.12	82kmX

CD2	39.46 296 iPd	39 07.40	0.6
	1.0s	160.00nm	5.5mb
	S	44 31.00	
WB2	39.59 196 iPd	39 07.60	-0.2
	0.5s	162.70nm	5.8mb
	i	39 36.80	
	ePp	40 02.40	266kmX
	iScP	44 05.20	
	eS	44 33.20	

KMI	39.89 287 Pc	39 12.30	1.8
	1.5s	90.00nm	5.1mb
N	12s	0.50um	
	S	44 41.50	
	SS	47 56.00	

LZH	40.42 304 iPd	39 16.20	1.5
	1.0s	280.00nm	5.7mb
	pP	40 49.00	507km
	PcP	41 05.00	

		ScP	44	08.50		KIP	53.21	77	eP	40	52.29	0.2	SVE	71.84	325	iPd	42	52.50	0.7	
		S	44	46.00		CAN	53.57	176	iPc	40	54.10	-0.3		1.6s	260.00nm			5.5mb		
		ScS	48	24.00		CNB	53.59	176	eP	40	54.30	-0.3	ARU	73.01	325	iPd	42	58.70	0.2	
SMY	40.98	27	eP	39	18.86		0.9s	17.00nm			4.4mb				e		43	09.00	33kmX	
	0.5s	313.21nm			6.1mb	WMO	54.15	311	iPd	40	59.20	0.6	MBC	73.53	14	ePd	43	01.10	-0.1	
LOE	41.32	276	iPc	39	22.00		2.0s	830.00nm			5.7mb			0.7s	34.00nm			5.0mb		
CIT	41.69	331	eP	39	25.00			PP	43	08.00			MAIO	75.98	304	iPd	43	17.20	1.5	
		e		41	11.00			S	47	59.00				0.8s	16.84nm			4.6mb		
MGD	41.82	4	iPd-	39	25.00			ScS	49	53.00				e		52	15.00			
	0.8s	220.00nm			5.7mb	COOL	54.21	206	eP	40	57.30	-1.7	ASH	76.51	306	eP	43	19.50	1.1	
NST	43.11	273	iPc	39	37.70		0.3s	13.00nm			4.7mb			1.3s	200.00nm			5.4mb		
ASPA	43.27	195	P	39	37.00		GUN	54.92	292	Pd	41	05.00	0.4	VAN	76.70	306	iPd	43	19.50	0.0
CHTO	43.76	278	ePd	39	41.90		SDN	54.94	35	ePd	41	02.27	-1.5		1.5s	72.00nm			4.9mb	
	0.7s	29.70nm			4.9mb			0.8s	609.61nm			6.0mb	PGC	77.26	43	eP	43	22.50	0.3	
BDT	43.92	276	eP	39	40.00		MRWA	55.13	211	iPc	41	04.40	-1.0		0.9s	58.00nm			5.0mb	
	0.8s	212.90nm			5.7mb			0.3s	22.00nm			5.0mb	MCW	77.65	43	eP	43	25.32	0.9	
NNT	44.13	269	iPc	39	42.00		BFD	55.36	183	iPd	41	05.90	-1.0	BMW	77.92	45	eP	43	26.64	0.7
KGM	44.18	253	ePc	39	46.00			0.9s	15.00nm			4.3mb	GMW	77.95	44	iPd	43	27.23	1.2	
GTA	44.36	308	P	39	46.50			e	42	41.60	476kmX		YKA	78.44	28	eP	43	28.00	-0.3	
	1.0s	66.00nm			5.1mb	PKI	55.36	291	Pd	41	07.40	-0.2		0.6s	38.10nm			5.0mb		
Z	20s	0.35um			4.3Msz	KKN	55.46	291	Pd	41	08.20	0.0	RMW	78.62	44	iPd	43	30.45	0.8	
N	12s	0.18um				DMN	55.63	291	Pd	41	09.40	0.0			epP	45	20.20	504km		
		pP	41	20.00	500km	TOO	55.69	180	eP	41	09.00	-0.3	SHW	78.66	45	ePd	43	31.13	1.2	
		PcP	41	23.00			0.6s	15.00nm			4.5mb		LON	78.80	44	eP	43	30.42	-0.2	
		PP	41	43.00		BAL	55.94	210	iPc	41	10.10	-0.9	KBS	79.50	352	iPd	43	34.00	0.4	
		sP	42	10.00			0.4s	76.00nm			5.4mb		VGB	79.82	45	iPd	43	36.57	0.6	
		ScP	44	24.00		GKN	56.01	292	Pd	41	12.20	0.2	WDC	79.90	51	iPd	43	36.98	0.6	
		S	45	43.00		KLB	56.28	208	iPc	41	12.30	-1.1		1.3s	155.39nm			5.3mb		
		sS	48	28.00			0.6s	31.00nm			4.8mb		LBFM	80.17	50	iPd	43	38.84	0.8	
		ScS	48	48.00		ELT	56.95	322	iPd	41	17.50	-0.3	NTYM	80.40	53	ePd	43	39.57	0.5	
KHT	44.74	273	iPc	39	50.00			1.7s	88.00nm			4.8mb	DPW	80.85	43	iPd	43	41.58	0.3	
QLP	44.75	181	iPc	39	47.30			e	42	04.00	205kmX		ORV	80.95	51	iPd	43	42.27	0.4	
		i		44	27.10			e	43	24.00			NEW	81.42	42	iPc	43	44.55	0.4	
RMQ	44.77	176	iPc	39	48.00		MUN	57.31	209	iPc	41	19.60	-0.9		0.8s	105.36nm			5.4mb	
	0.9s	40.00nm			4.9mb			1.0s	50.00nm			4.8mb	ARN	81.55	54	iPd	43	45.87	0.8	
		e	41	17.00	466kmX	NWAO	57.65	208	eP	41	22.00	-0.7	KEY	82.05	342	iP	43	47.00	0.1	
LEM	44.78	239	ePc	39	49.50		RKG	59.14	207	eP	41	32.30	-0.6		0.8s	61.60nm			5.2mb	
SNG	44.79	262	iPc	39	51.00		SVW	59.27	29	iPd	41	33.27	-0.3	CMB	82.22	53	iPd	43	49.21	0.7
	1.1s	253.16nm			5.7mb			0.8s	88.86nm			5.2mb		0.6s	70.74nm			5.4mb		
ADK	44.80	33	eP	39	48.51		TTA	59.70	27	iPd	41	35.62	-0.8	PHAM	82.87	55	eP	43	52.61	0.9
	0.7s	136.99nm			5.6mb			1.4s	115.69nm			5.1mb	PKEM	83.02	54	(P)	43	54.00	1.6	
YAK	44.89	350	iPd	39	48.00		KDC	59.88	33	iPd	41	36.61	-0.8	MEMM	83.43	53	eP	43	55.89	1.5
	1.0s	780.00nm			6.2mb			0.9s	34.88nm			4.8mb	SDF	83.51	340	iP	43	54.20	-0.1	
		iP	41	19.00	479kmX	RSO	60.43	30	iPd	41	39.77	-1.6	KVN	83.62	51	iPd	43	56.47	0.8	
		i	41	39.00		PRZ	60.80	309	iPc	41	45.50	1.4	TRO	84.40	344	iPc	43	58.00	-0.6	
DZM	45.29	152	iPd	39	52.90			1.0s	350.00nm			5.7mb	DAG	84.52	356	ePc	43	58.80	-0.3	
IPM	45.30	258	ePc	39	54.40		CP2	60.88	29	eP	41	43.32	-1.1		1.0s	180.00nm			5.7mb	
BOD	45.54	337	iPd	39	53.80		CRP	60.92	29	eP	41	42.93	-1.7	TNP	84.59	52	iPd	44	01.13	0.7
	1.1s	100.00nm			5.3mb	NR1	61.56	340	iPd-	41	46.40	-2.0		0.7s	36.38nm			5.1mb		
ZAK	46.10	324	iPd	39	59.00			1.5s	147.00nm			5.2mb	GRS	85.09	310	iPd	44	02.60	-0.2	
	0.8s	76.00nm			5.3mb			e	41	54.00	25kmX			1.0s	80.00nm			5.3mb		
		e	41	25.00	443kmX	SLKM	61.65	31	eP	41	47.37	-1.8	OBN	85.25	327	eP	44	02.00	-1.0	
BRS	46.13	171	iPc	39	59.30			e	44	10.00				1.2s	70.00nm			5.2mb		
	1.0s	5.00nm			4.0mb X	IMA	61.71	24	iPd	41	48.81	-0.8	MTA	85.44	312	iPd	44	04.80	0.7	
		i	40	16.00	66kmX			1.2s	44.07nm			4.8mb		1.0s	100.00nm			5.4mb		
		i	40	51.00				e	45	39.35			TPNV	85.69	53	iPd	44	06.38	0.6	
		i	41	05.00		PMR	62.41	29	iPc	41	52.34	-1.7		0.6s	53.65nm			5.4mb		
		i	41	26.50			0.4s	57.09nm			5.5mb		PYA	85.80	315	iPc	44	06.00	0.1	
IRK	46.47	326	iPd	40	01.80		NDI	62.46	293	iPd	41	54.50	-0.4	GSC	85.81	54	iPd	44	06.95	0.7
	1.3s	94.00nm			5.2mb			0.9s	92.44nm			5.3mb	PEC	86.01	56	iPd	44	07.40	0.2	
MBL	46.54	213	eP	40	02.10		BRW	62.65	18	iPc	41	55.40	0.0		0.9s	53.36nm			5.3mb	
	0.3s	25.00nm			5.2mb	KSH	62.66	305	P	41	57.90	1.7			epP	45	57.80	495km		
WARB	47.87	203	iPc	40	12.70			0.5s	70.00nm			5.4mb	KAF	86.48	336	iP	44	06.70	-2.1	
	0.3s	33.00nm			5.3mb			ScS	50	54.00				0.6s	33.60nm			5.2mb		
ARMA	48.95	173	iPc	40	19.90		HYB	63.10	281	iPd	41	58.80	-0.4	HVU	86.51	47	iPd	44	10.53	0.9
	0.7s	10.00nm			4.4mb			0.8s	38.50nm			5.0mb	DUG	87.07	49	iPc	44	12.78	0.5	
		iPcP	41	36.40		FRU	63.60	309	iPd	42	02.50	0.5		1.1s	164.07nm			5.7mb		
		iScP	44	45.20				1.6s	110.00nm			5.2mb			ePP	47	43.13			
SHL	49.70	288	iPd	40	26.80			e	42	26.00	93kmX		ARUT	87.49	51	iPd	44	15.19	0.8	
		eS	46	56.50		FBA	63.74	26	ePd	42	00.60	-1.9			epP	46	06.65	499km		
NANU	50.02	217	iPc	40	28.50			0.7s	28.00nm			5.0mb	NUR	88.05	335	iP	44	14.80	-1.4	
	0.3s	28.00nm			5.2mb	KLU	63.90	30	iPd	42	03.12	-0.6	DAU	88.09	48	iPd	44	17.90	0.6	
STK	50.14	184	iPc	40	28.30		QRZ	64.18	157	P	42	05.40	-0.1	GLA	88.13	56	iPc	44	18.07	0.8
	0.4s	9.40nm			4.6mb	GBA	65.01	277	Pd	42	11.00	-0.3	MSU	88.15	50	iPd	44	18.57	1.1	
		epP	40	47.80	78kmX	MNG	65.13	155	P	42	09.90	-1.7	BW06	88.34	45	iPd	44	17.96	-0.3	
		ePP	41	59.70				e	43	01.20	221kmX			1.1s	14.52nm			4.7mb		
		eScP	44	48.30		SNZO	65.42	156	eP	42	21.00	7.7X	EMUT	88.63	48	iPd	44	20.41	0.7	
		eS	47	03.20		WVZ	65.54	160	eP	42	14.70	0.7	FCC	89.11	27	ePd	44	23.90	2.8	
LSA	50.24	294	iPd	40	32.40		BALM	65.55	31	iPc	42	13.40	-0.7	SRU	89.11	49	iPd	44	22.25	0.4
	0.8s	80.00nm			5.2mb			ePcP	42	40.88				epP	46	15.64	507km			
		S	47	10.00		LTZ	65.80	158	P	42	14.90	-0.9	ANN	89.24	317	eP	44	21.00	-1.0	
FORT	51.63	199	eP	40	39.70		KOD	65.84	273	eP	42	17.00	0.0		1.0s	30.00nm				

02d 14h

TUC 91.57 55 iPd 44 34.20 1.1
1.1s 53.51nm 5.4mb
GOL 92.50 47 iPc 44 38.33 0.8
1.4s 79.87nm 5.6mb
NB2 92.67 339 P 44 36.10 -1.6
0.7s 9.40nm 4.9mb
MOL 92.67 342 eP 44 37.65 0.1
ULM 93.08 34 eP 44 41.50 1.9
FRB 93.99 14 eP 44 43.00 -0.6
KONO 94.24 339 (P) 44 39.56 -5.3X
ANTO 94.49 314 P 44 55.77 9.4X
PSZ 97.86 326 eP 45 00.40 -1.1
BRG 98.85 331 e(P) 45 04.60 -1.2
CLL 98.97 332 iP 45 05.30 -1.0
JAO 99.93 23 eP 45 09.50 -1.1
VAY 100.32 320 ePdfff45 12.00 -0.4
GEC2 100.36 330 ePdfff45 11.40 -1.2
0.8s 2.74nm 4.8mb
e 45 15.90
ec 45 22.00
ePP 49 24.00
e 49 32.40
SKO 100.62 321 iPdfff45 13.80 0.0
GRF 100.92 332 e(Pdfff45 15.00 0.1
1.1s 5.00nm 4.9mb
OHR 101.52 320 ePdfff45 17.20 -0.7
iPg 45 19.60
iSg 45 26.30
CCM 102.78 42 (Pdfff45 15.76 -7.7X
LOR 105.96 334 iPKPd 50 06.60 19.8X
1.0s 8.40nm
FLN 106.47 337 iPKPd 50 07.50 19.9X
0.8s 13.45nm
LDF 106.47 337 iPKPd 50 07.70 20.0X
1.0s 35.00nm
ETOR 113.68 333 ePKP 50 02.20 0.4
GUD 114.70 335 iPKPc 50 04.20 0.4
EVIA 115.68 332 iPKPc 50 06.00 0.3
EHUE 116.40 332 iPKPc 50 06.90 -0.2
ELUO 117.34 333 ePKP 50 08.90 0.1
EHOR 117.54 334 ePKP 50 09.50 0.4
EPRU 118.26 333 iPKPc 50 10.90 0.4
EVAL 118.36 335 iPKPc 50 11.00 0.3
EJIF 118.79 333 ePKP 50 11.90 0.4
BUL 120.47 257 iPKPd 50 15.10 -0.2
BCAO 122.78 288 iPKPc 50 19.70 -0.1
0.7s 18.00nm
ic 52 03.90
TIO 124.26 331 iPKPd 50 22.50 0.1
TOV 135.51 54 ePKP 50 44.00 -0.2
KIC 141.47 307 PKP 50 50.00 -5.0X
TIC 141.50 308 PKP 50 49.56 -5.5X
0.6s 11.50nm
LIC 141.78 307 PKP 50 50.96 -4.6X
0.6s 17.00nm
ARE 144.96 93 iPKPd 51 03.00 1.8
0.5s 59.86nm
RFA 145.96 125 ePKPc 51 03.00 0.9
RTCB 146.67 120 iPKPd 51 04.50 1.1
ZOBO 148.12 91 iPKPd 51 07.70 1.0
MRA 148.92 123 e(PKP) 51 12.00 5.3X
FSA 150.16 110 e(PKP) 51 10.00 1.2
i 51 16.00
TCA 150.16 121 ePKPc 51 09.60 0.8
i 51 15.00
CCH 150.16 93 PKP 51 16.00 6.6X
HJA 151.01 105 ePKPd 51 12.30 2.2X
i 51 18.50
SIV 154.77 89 PKP 51 30.00 14.4X
PPD 164.07 106 ePKP 51 27.40 1.7
e 52 23.90
BAO 167.06 80 iPKPc 51 29.50 1.1
S.D. = 0.9 on 233 of 250 obs.
APR 02, 1993 14h 45m 11.85 ± 0.81s
41.099 N ± 7.8km 20.296 E ± 7.7km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.7 (SKO), 2.3 (TIR).
TIR 0.41 307 iPg 45 20.00 -0.2
iSg 45 28.00
PHP 0.59 11 ePg 45 23.20 -0.7
LACI 0.69 321 ePg 45 25.50 -0.1
FNA 0.88 111 iPg 45 28.70 0.0
eSg 45 42.26
SDA 1.12 328 ePg 45 36.40 3.5X

SKO 1.22 44 iPn 45 36.00 1.4
0.3s 35.00nm
IGT 1.57 179 ePb 45 40.86 1.1
iSb 46 02.74
GRG 1.60 94 ePb 45 40.70 0.4
LIT 1.95 120 ePb 45 43.34 -1.9
KNT 1.97 87 ePb 45 48.46 2.9X
SOH 2.33 96 ePn 45 48.46 -2.4X
SRS 2.49 89 ePn 45 55.18 2.1X
S.D. = 1.2 on 8 of 12 obs.
APR 02, 1993 15h 00m 44.03 ± 1.30s
17.034 S ± 11.6km 177.592 W ± 14.6km
DEPTH = 431.5 ± 8.0 km
4.6mb (11 obs.)
FIJI ISLANDS REGION (181)
MBU 3.53 270 iPc 01 53.70 -0.9
VUN 3.89 255 iP 01 57.40 -0.2
SVA 3.92 253 iPd 01 58.70 0.8
DZM 15.85 249 iPc 04 06.40 0.3
KUZ 20.51 195 P 04 53.80 2.0
WLZ 21.60 195 P 05 04.00 1.9
URZ 21.65 191 eP 05 01.10 -1.4
NOZ 21.84 189 eP 05 06.70 2.4
MOZ 22.41 196 P 05 12.20 2.7
MNG 24.25 193 P 05 25.20 -1.2
ORZ 25.20 198 P 05 35.50 0.6
THZ 25.96 196 eP 05 41.30 -0.5
DSZ 26.26 198 P 05 44.10 -0.4
KHZ 26.41 195 P 05 44.50 -1.2
LTZ 27.08 197 P 05 50.40 -1.3
e 06 01.70
WVZ 27.79 199 P 05 57.60 -0.3
LMZ 28.84 200 P 06 06.90 -0.1
0.6s 137.00nm 5.5mb
BRS 29.24 244 iPc 06 11.00 0.3
BWZ 29.37 198 P 06 10.30 -1.3
0.6s 53.00nm 5.1mb
e 06 25.50
ODZ 29.62 197 P 06 14.50 0.7
LRCZ 30.02 199 P 06 16.50 -1.0
MSCZ 30.03 199 P 06 17.00 -0.4
MHZ 30.04 199 P 06 16.50 -1.1
SBCZ 30.06 199 P 06 16.60 -1.1
LSCZ 30.06 199 P 06 17.10 -0.6
CMCZ 30.12 199 P 06 17.70 -0.6
TLC 30.22 199 P 06 18.40 -0.8
TUZ 30.74 198 P 06 24.40 0.9
ARMA 31.06 239 iPd 06 26.80 0.2
0.6s 16.00nm 4.6mb
RMO 32.56 247 iPd 06 39.50 0.2
0.7s 21.00nm 4.6mb
CTA 34.37 259 eP 06 55.00 0.5
CNB 34.58 232 eP 06 57.00 0.8
CMS 36.13 240 iPd 07 09.50 0.3
0.3s 6.00nm 4.5mb
TOO 38.32 230 eP 07 27.70 0.5
0.9s 57.00nm 5.0mb
STK 39.74 240 eP 07 39.40 0.6
0.6s 9.00nm 4.3mb
BFD 40.39 232 eP 07 45.00 1.0
1.0s 14.00nm 4.3mb
WB2 45.55 259 eP 08 24.20 -1.0
0.5s 9.70nm 4.5mb
WRA 45.56 259 P 08 24.90 -0.4
0.7s 1.10nm 3.4mb X
ASPA 45.78 253 iPc 08 26.20 -0.8
0.5s 70.50nm 5.3mb
e 09 51.70
WARB 52.31 250 eP 09 15.30 -0.8
MUN 61.21 243 eP 10 18.00 0.4
YKA 93.22 24 eP 13 12.10 0.7
0.6s 0.50nm 3.7mb
GEC2 146.96 346 ePKP 19 41.00 5.4X
0.8s 0.67nm
e 19 46.80
S.D. = 1.1 on 42 of 43 obs.
APR 02, 1993 15h 36m 59.55 ± 1.97s
39.016 N ± 19.8km 27.784 E ± 47.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).
IZM 0.74 214 iPg 37 14.10 0.0

iSg 37 25.60
KCT 1.31 20 iPn 37 23.80 0.1
EDC 1.33 3 iPn 37 24.50 0.4
8NT 1.34 4 iPn 37 23.80 -0.5
S.D. = 0.6 on 4 of 4 obs.
APR 02, 1993 15h 37m 42.45 ± 1.07s
0.073 N ± 6.0km 120.495 E ± 8.1km
DEPTH = 82.2 ± 11.3 km
5.0mb (16 obs.)
MINAHASSA PENINSULA, SULAWESI (265)
TSM 4.94 328 iPd 38 55.90 0.1
0.3s 980.60nm
KKM 7.31 324 ePc 39 28.50 -0.2
eS 40 55.50
MTN 16.61 141 eP 41 32.00 0.3
0.4s 79.00nm 5.3mb
KNA 17.72 153 eP 41 45.60 0.3
IPM 19.96 283 ePd 42 11.60 1.0
SNG 21.05 290 eP 42 23.20 1.5
NNT 24.06 302 eP 42 49.70 -1.6
WB2 24.08 146 iPd 42 50.80 -0.7
0.5s 100.90nm 5.5mb
NST 25.39 309 eP 43 04.00 0.1
KHT 26.13 305 eP 43 12.00 1.2
WARB 26.77 168 eP 43 16.00 -0.5
0.5s 16.00nm 4.8mb
ASPA 26.95 152 iPc 43 17.10 -1.1
0.5s 25.00nm 5.0mb
BDT 27.19 310 eP 43 17.80 -2.6
CHTO 28.19 313 ePc 43 29.50 0.1
1.3s 20.42nm 4.6mb
MRWA 29.44 188 eP 43 40.00 -0.6
0.6s 6.00nm 4.4mb
FORT 31.51 167 eP 43 58.00 -0.8
NWA0 32.97 185 eP 44 11.00 -0.4
CD2 34.54 334 iPd 44 24.50 -0.6
0.8s 50.00nm 5.5mb
QLP 35.00 141 iPc 44 28.30 -0.7
STK 37.53 150 iPc 44 50.20 0.0
0.5s 32.30nm 5.5mb
epP 46 15.70 462kmX
TIY 38.19 350 P 44 55.50 -0.3
CMS 39.51 145 iPd 45 07.10 0.3
0.3s 4.00nm 4.8mb
BJI 39.97 355 eP 45 10.00 -0.5
LSA 40.62 319 Pd 45 17.70 1.2
0.6s 10.00nm 4.8mb
HHC 41.39 350 eP 45 22.40 0.1
1.0s 10.00nm 4.6mb
BTO 41.45 348 eP 45 22.60 -0.1
SNY 41.66 3 P 45 24.60 0.4
BFD 42.31 154 eP 45 29.80 0.1
0.9s 11.00nm 4.7mb
ARMA 42.37 138 iPd 45 31.60 1.1
0.8s 14.00nm 4.8mb
BWA 43.14 146 eP 45 38.10 1.5
GTA 43.48 337 P 45 40.00 0.6
TOO 44.00 151 eP 45 44.20 0.7
0.6s 16.00nm 5.0mb
CAN 44.12 146 iPc 45 45.00 0.5
CNB 44.32 146 iPc 45 46.80 0.6
0.7s 32.00nm 5.3mb
GBA 44.71 289 Pd 45 49.00 -0.4
HYB 44.72 295 iPd 45 50.00 0.4
1.0s 40.00nm 5.2mb
DZM 49.87 119 iPd 46 29.10 -0.8
WMO 52.46 330 eP 46 52.40 3.3X
S.D. = 0.9 on 37 of 38 obs.
APR 02, 1993 16h 44m 30.67 ± 1.63s
33.151 S ± 6.6km 70.268 W ± 13.2km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.9 (SAN).
FCH 0.18 186 iP 44 34.96 0.1
iS 44 37.83
PEL 0.35 271 iP 44 37.97 0.1
iS 44 43.25
JACH 0.54 330 iP 44 41.61 0.0
iS 44 48.92
CHCH 0.84 202 iP 44 46.98 0.0
iS 44 58.86
LCCH 1.14 253 iP 44 52.15 0.2
iS 45 07.61

Moment Tensor: Scale 10**16 Nm

02d 20h

Mff= 6.38 0.41 Mrt= 1.27 1.05
 Mrf= -1.09 1.81 Mtf= 1.81 0.47
 Principal Axes:
 T Val= 6.91 Plg= 3 Azm=105
 N 0.09 13 14
 P -7.01 77 208
 Best Double Couple: Mo=7.0*10**16
 NP1: Strike=208 Dip=43 Slip= -71
 NP2: 3 49 -107

AKU 11.00 35 iPc 26 06.50 4.2X
 1.8s 418.18nm 6.4mb X
 KPL 14.88 79 eP 26 59.70 5.8X
 DMU 15.26 92 eP 26 55.20 -3.7X
 DCN 15.30 94 eP 26 56.20 -3.2X
 DLF 15.72 94 eP 27 01.40 -3.5X
 ECB 16.01 97 eP 27 11.90 3.3X
 ELO 16.12 81 eP 27 09.70 -0.3
 ETA 16.16 95 eP 27 11.20 0.6
 EBH 16.29 81 eP 27 12.40 0.2
 1.3s 53.00nm 4.5mb
 ECP 16.32 97 eP 27 14.60 2.0
 EAU 16.44 83 eP 27 14.20 0.1
 1.3s 49.00nm 4.5mb
 EDU 16.47 80 eP 27 14.90 0.5
 EDI 16.56 82 eP 27 15.50 0.0
 EDR 16.63 79 eP 27 12.70 -3.7X
 EBL 16.68 83 eP 27 16.80 -0.3
 ESK 16.74 84 eP 27 18.20 0.3
 2.0s 440.00nm 5.2mb
 EKA 16.76 84 P 27 18.00 -0.1
 1.9s 411.10nm 5.2mb
 WME 16.88 91 eP 27 20.10 0.5
 YRH 16.95 93 eP 27 21.30 0.7
 HCG 17.72 94 eP 27 30.10 0.0
 HTR 18.04 94 eP 27 33.60 -0.5
 HAE 18.45 94 eP 27 39.10 -0.1
 DAG 20.14 10 eP 28 01.80 3.4X
 MOL 20.80 59 iPd 28 05.34 0.0
 STS 21.33 122 eP 28 10.20 -0.8
 FLN 21.34 100 eP 28 10.00 -1.0
 1.1s 58.85nm 4.9mb
 Z 22s 3.47um 4.7Msz
 GRR 21.36 101 eP 28 10.30 -0.9
 1.4s 198.65nm 5.3mb
 EMON 21.48 119 eP 28 11.00 -1.5
 LPF 21.48 102 eP 28 11.40 -1.0
 1.2s 108.60nm 5.1mb
 LDF 21.63 100 eP 28 13.20 -0.7
 1.1s 85.95nm 5.1mb
 EZAM 21.85 124 eP 28 15.80 -0.4
 KONO 22.23 66 iPc 28 21.60 1.8
 LMN 22.49 253 eP 28 26.50 4.0X
 DBN 22.60 87 eP 28 21.00 -2.5
 Z 20s 1.70um 4.5Msz
 NB2 22.73 62 P 28 24.20 -0.6
 1.6s 79.00nm 5.0mb
 UCC 22.81 91 P 28 25.00 -0.6
 e 33 06.00
 MFF 22.86 104 eP 28 25.80 -0.3
 1.7s 149.25nm 5.2mb
 SNF 22.92 91 P 28 25.70 -1.0
 MUD 22.93 74 iP 28 28.00 1.3
 1.3s 48.00nm 4.9mb
 WIT 23.07 84 eP 28 30.00 1.9
 DOU 23.32 92 P 28 30.70 0.2
 e 28 37.40 24km
 S 32 48.00
 CBM 23.53 259 P 28 40.00 7.4X
 Z 19s 4.32um 4.9Msz
 WTS 23.54 86 eP 28 33.50 0.9
 1.1s 67.20nm 5.1mb
 ENN 23.68 89 eP 28 34.50 0.5
 1.0s 39.00nm 4.9mb
 HYF 23.91 100 eP 28 36.40 0.1
 JAO 23.94 280 eP 28 38.00 1.4
 LSF 23.97 103 eP 28 36.70 -0.2
 1.0s 30.00nm 4.8mb
 TCF 24.30 102 eP 28 39.90 -0.3
 1.0s 20.60nm 4.7mb
 WLF 24.40 91 P 28 43.00 2.0
 ECR 24.43 114 eP 28 38.00 -3.5X
 BGF 24.47 101 eP 28 41.40 -0.4
 0.9s 25.55nm 4.8mb
 SSF 24.50 99 eP 28 41.60 -0.5
 1.1s 49.55nm 5.0mb

MAF 24.53 102 eP 28 41.60 -0.8
 1.4s 72.75nm 5.1mb
 LOR 24.56 98 eP 28 42.30 -0.4
 1.2s 36.30nm 4.9mb
 Z 21s 0.28um 3.7MszX
 RJF 24.58 104 eP 28 42.30 -0.6
 1.3s 64.25nm 5.1mb
 Z 21s 6.03um 5.1Msz
 AVF 24.59 100 eP 28 43.10 0.2
 1.5s 90.35nm 5.2mb
 EPLA 24.70 123 eP 28 44.80 0.7
 LBF 24.80 99 eP 28 44.40 -0.6
 1.2s 56.25nm 5.1mb
 LPO 24.83 106 eP 28 45.20 -0.1
 1.4s 74.95nm 5.1mb
 COP 24.91 74 eP 28 51.00 5.1X
 eS 33 18.00
 SMF 24.94 99 eP 28 46.40 0.1
 1.4s 93.25nm 5.3mb
 CAF 25.13 104 eP 28 48.10 0.0
 1.4s 27.00nm 4.7mb
 VITF 25.13 94 P 28 48.83 0.7
 GUD 25.13 119 iPc 28 48.70 0.3
 TNS 25.33 88 ePc 28 51.30 1.2
 HAU 25.46 94 eP 28 50.90 -0.3
 1.0s 44.00nm 5.1mb
 Z 20s 5.05um 5.0Msz
 EPF 25.55 110 eP 28 51.20 -1.0
 1.3s 29.25nm 4.8mb
 LANF 25.67 91 P 28 52.49 -0.7
 CDF 25.72 93 P 28 53.46 -0.3
 WLS 25.76 93 P 28 55.38 1.3
 ECH 25.77 93 P 28 55.38 1.3
 BSF 25.80 94 P 28 55.98 1.5
 PAB 25.91 121 iP 28 55.00 -0.6
 1.4s 46.51nm 5.0mb
 MOF 25.97 94 P 28 57.34 1.3
 ETOR 26.00 116 eP 28 57.50 1.1
 L18D 26.05 93 P 28 58.01 1.4
 UPP 26.10 63 iP 28 58.50 1.5
 LOMF 26.11 95 P 28 58.76 1.4
 BBS 26.41 94 P 29 01.25 1.2
 FEL 26.43 93 P 28 59.91 -0.5
 BSD 26.44 74 ePc 29 03.00 2.8
 0.7s 19.00nm 4.9mb
 EVAL 26.44 127 eP 29 04.00 3.6X
 MOX 26.82 85 iPd 29 03.70 -0.1
 1.9s 65.00nm 5.0mb
 eS 33 55.00
 GRF 27.12 87 iPc 29 06.30 -0.3
 1.4s 73.00nm 5.2mb
 Z 18s 1.40um 4.6Msz
 LPL 27.21 99 eP 29 07.50 -0.1
 1.3s 40.45nm 4.9mb
 CLL 27.22 83 iP 29 06.50 -0.9
 1.5s 39.00nm 4.9mb
 Z 17s 2.50um 4.8MszX
 LPG 27.23 99 eP 29 07.80 -0.1
 1.5s 56.95nm 5.0mb
 EBR 27.26 113 eP 29 10.00 2.2
 EPRU 27.62 126 eP 29 15.90 4.7X
 BRG 27.95 83 eP 29 13.80 -0.2
 1.4s 30.00nm 4.9mb
 e 29 17.20 12km
 VDL 28.07 94 P 29 21.42 6.0X
 RES 28.48 331 eP 29 19.50 0.9
 1.0s 4.00nm 4.1mb
 RSNY 28.49 261 P 29 30.00 11.1X
 Z 19s 3.88um 5.0Msz
 KHC 28.71 86 eP 29 20.00 -1.0
 e 29 37.50 75kmX
 e 30 05.60
 PRU 28.75 84 eP 29 22.50 1.3
 e 30 08.00 228kmX
 WTTA 28.76 91 iPc 29 20.70 -0.9
 GEC2 28.94 87 eP 29 22.40 -0.7
 1.1s 2.93nm 4.0mb X
 e 29 32.10 34kmX
 e 29 38.30
 NUR 29.22 59 iP 29 24.30 -1.0
 1.0s 13.20nm 4.7mb
 KSP 29.23 81 iPd 29 25.00 -0.5
 KAF 29.45 56 eP 29 27.40 0.0
 1.0s 10.50nm 4.6mb
 EEO 29.60 269 eP 29 34.00 5.1X
 KBA 29.80 90 iPc 29 30.60 -0.3
 1.8s 50.30nm 5.0mb

AVE 29.85 133 eP 29 27.00 -4.2X
 IFR 30.59 129 iPd 29 38.50 0.5
 FCC 31.21 299 eP 29 44.50 1.5
 SRO 32.04 85 iP 29 49.80 -0.6
 PUL 32.12 58 (P) 29 52.00 1.0
 2.0s 100.00nm 5.4mb
 Z 20s 1.20um 4.6Msz
 N 17s 0.40um
 E 22s 0.70um
 e 31 00.00 357kmX
 (S) 35 10.00
 SPC 32.27 81 eP 29 52.00 -0.6
 PSZ 32.83 83 iP 29 57.20 -0.2
 UZD 32.93 86 eP 29 58.00 -0.1
 MNK 33.52 69 eP 30 01.00 -2.1
 Z 16s 2.00um 4.9MszX
 UZH 33.69 81 eP 30 04.00 -0.7
 1.5s 118.00nm 5.6mb
 Z 15s 3.60um 5.2MszX
 N 15s 1.40um
 E 15s 3.00um
 e 31 18.00 392kmX
 LVV 33.92 78 eP 30 07.00 0.3
 Z 13s 1.20um 4.8MszX
 N 14s 1.40um
 E 14s 1.30um
 e 31 25.00 418kmX
 eSS 37 35.00
 MCWV 34.73 260 P 30 20.00 6.2X
 Z 20s 2.05um 4.9Msz
 ULM 36.42 286 eP 30 30.50 2.5
 CEH 37.13 255 P 30 50.00 15.9X
 Z 19s 0.83um 4.5Msz
 OBN 37.35 63 ePc 30 35.00 -0.7
 1.4s 90.00nm 5.4mb
 N 20s 0.80um
 E 19s 1.00um
 e 32 00.00 445kmX
 e 32 58.00
 (S) 36 24.00
 MOS 37.49 61 eP 30 37.00 0.1
 2.0s 130.00nm 5.4mb
 SKO 37.51 90 iPd 30 37.50 0.2
 1.5s 132.00nm 5.5mb
 Z 30s 1.54um 4.6MszX
 i 32 06.00 484kmX
 i 36 34.00
 LR 43 26.00
 OHR 37.76 92 eP 30 25.00 -14.4X
 KIS 38.18 78 eP 30 43.00 0.2
 Z 16s 1.90um 5.0MszX
 e 30 46.00 10km
 eS 36 36.00
 FNA 38.30 92 iP 30 43.82 -0.2
 YKA 38.50 312 eP 30 43.50 -1.8
 0.7s 3.50nm 4.2mb
 VAY 38.57 90 iP 30 45.60 -0.6
 GRG 38.73 90 eP 30 47.26 -0.3
 KNT 38.86 90 iP 30 49.18 0.6
 SRS 39.27 89 eP 30 52.02 0.0
 LIT 39.38 91 eP 30 52.22 -0.8
 AGG 40.07 93 eP 30 58.78 0.1
 FVM 41.63 268 eP 31 13.85 2.4
 2.2s 189.06nm 5.4mb
 SIM 42.30 77 eP 31 20.00 3.1X
 Z 14s 1.50um 5.0MszX
 N 14s 1.00um
 E 14s 1.50um
 IZM 43.19 89 iP 31 24.80 0.5
 ANN 44.02 75 eP 31 30.50 -0.3
 Z 16s 1.00um 4.8MszX
 N 16s 0.70um
 E 16s 1.60um
 e 33 19.00 625kmX
 eS 38 10.00
 RSSD 44.61 285 eP 31 36.18 0.2
 0.6s 2.36nm 4.3mb
 Z 21s 1.87um 5.0Msz
 MIAR 45.88 267 eP 31 45.82 0.0
 1.3s 24.32nm 5.0mb
 Z 19s 2.95um 5.2Msz
 SOC 46.17 74 eP 31 52.00 4.0X
 Z 17s 1.10um 4.9MszX
 N 15s 0.60um
 E 17s 0.55um
 ARU 46.46 50 iPc 31 50.20 0.0
 Z 16s 1.00um 4.9MszX

02d 20h

E 18s	0.50um				SAO	59.00	291 P	33 30.00	6.3X	WARB	145.69	33 ePKP	43 01.00	-0.6	
	e	31 54.50	14km		Z 20s	2.20um			5.3msz	SPA	147.22	180 ePKPc	43 04.30	1.4	
	e	33 26.00			PEC	59.02	285 eP	33 26.85	3.0		0.9s	345.45nm			
	e	33 42.00				0.4s	3.00nm		4.8mb	COOL	148.14	45 ePKP	43 08.00	2.6X	
	eS	38 38.50			ELT	59.24	37 eP	33 25.00	-0.1		1.2s	40.00nm			
	ePS	38 50.00				2.0s	77.00nm		5.5mb	RMQ	149.08	356 ePKP	43 11.80	4.8X	
NRI	46.65	25 iPc	31 52.40	1.0	BCH	59.53	288 (P)	33 35.37	7.9X	BRS	149.71	349 ePKP	43 14.00	6.1X	
	1.4s	29.00nm		5.1mb	VAN	59.71	66 iPd	33 27.50	-1.1		S.D. = 1.0 on 182 of 222 obs.				
	Z 20s	1.50um		4.9msz		1.0s	11.00nm		4.9mb		* APR 02, 1993 21h 09m 51.53±1.92s				
	E 20s	0.80um				Z 14s	0.40um		4.7mszX		24.815 N ±28.5km 96.576 E ± 7.9km				
		e	33 24.00	478kmX	YAK	60.19	9 eP	33 29.20	-2.3		DEPTH = 33.0km (normol)				
SVE	47.02	49 ePd	31 54.00	-0.6	MAIO	61.69	66 iPc	33 42.20	0.0		4.4mb (10 obs.)				
	2.4s	40.00nm		5.1mb			e	42 31.00		MYANMAR	(296)				
		e	33 28.00	494kmX	BOD	62.20	19 eP	33 42.80	-2.4						
		eS	38 50.00			1.5s	21.00nm		5.1mb	KMI	5.60	86 ePn	11 22.50	7.5X	
PYA	47.59	72 eP	32 01.00	1.7	FRU	63.45	51 eP	33 54.50	0.8		Z 10s	2.20um			
	Z 16s	1.50um		5.1mszX		2.0s	70.00nm		5.5mb			Pg	11 39.50		
	N 16s	1.00um				Z 16s	0.60um		4.9mszX			Sg	12 21.50		
	E 16s	1.00um				N 16s	0.60um			LSA	6.85	316 Pn	11 33.40	0.6	
		e	33 31.00	465kmX		E 16s	0.60um				N 10s	0.97um			
		eS	39 02.00		IRK	65.32	27 ePc	34 04.60	-1.1			Sn	12 48.30		
NEW	48.36	297 eP	32 04.58	-0.7		1.4s	22.00nm		5.1mb	GUN	10.08	290 P	12 17.20	-0.2	
	0.9s	12.69nm		5.0mb	Z 16s	0.30um			4.6mszX	KHT	10.16	169 eP	12 29.00	10.8X	
MEO	48.41	271 iPd	32 05.30	-0.5	BCAO	66.54	121 iPc	34 12.00	-1.9		PKI	10.40	288 P	12 21.60	-0.2
BW06	48.42	287 eP	32 05.07	-1.0		0.7s	21.00nm		5.4mb	KKN	10.56	289 P	12 23.00	-0.9	
	1.5s	30.67nm		5.1mb			ic	34 17.00	16km	DMN	10.67	288 P	12 24.80	-0.6	
WMOK	48.55	272 eP	32 06.67	-0.2	ZAK	66.79	29 iPc	34 15.20	0.2		GKN	11.16	289 P	12 31.40	-0.7
	1.6s	65.81nm		5.4mb		1.5s	20.00nm		5.1mb	LZH	12.86	27 eP	13 00.00	5.2X	
	Z 20s	1.83um		5.1msz	KSH	66.81	53 P	34 14.00	-1.6		E 10s	0.78um			
IMA	49.01	332 eP	32 09.47	-0.6		0.7s	13.00nm		5.2mb	XAN	14.14	47 P	13 10.80	-0.8	
	1.2s	8.70nm		4.7mb		Z 16s	1.42um		5.3mszX		1.0s	4.30nm		4.1mb	
DPW	49.16	298 eP	32 10.92	-0.5			pP	34 24.00	32kmX			sP	13 22.60		
GRO	49.42	71 eP	32 15.00	1.6			PcP	34 42.00		GTA	14.81	10 eP	13 25.00	4.6X	
	1.5s	160.00nm		5.8mb			PP	36 44.00			Z 10s	0.96um			
	Z 14s	2.00um		5.3mszX			eS	43 04.00			E 10s	0.62um			
	N 14s	2.50um			CIT	67.64	21 eP	34 20.00	-0.5	HYB	18.34	250 eP	14 12.50	7.3X	
	E 18s	1.50um			WMQ	67.77	42 P	34 22.00	0.5		1.0s	40.00nm		4.5mb	
		eS	39 32.00			Z 16s	0.78um		5.0mszX	BTO	19.34	32 eP	14 16.00	-1.2	
SIT	50.02	316 P	32 30.00	12.2X			pP	34 27.00	16km		N 10s	0.69um			
	Z 19s	3.01um		5.3msz	QUE	70.29	65 eP	34 24.00			E 10s	0.76um			
MTA	50.15	73 eP	32 12.00	-7.0X		eS	43 24.00					eS	17 49.50		
TIK	50.65	7 iPd	32 22.50	0.1	BAO	73.77	195 iPc	34 56.60	-1.3	HHC	20.31	34 eP	14 29.00	1.6X	
	1.3s	21.00nm		4.9mb		i	35 03.00	21km		WMQ	20.30	341 P	14 27.30	-0.1	
HVU	50.80	288 eP	32 23.87	-0.3	GTA	75.82	36 P	35 09.50	-0.1	TIA	20.99	52 eP	14 35.10	0.7	
DAU	51.01	286 eP	32 26.18	0.2		1.0s	24.00nm		5.2mb	GBA	21.21	242 P	14 46.00	9.3X	
EMUT	51.22	285 eP	32 27.15	-0.4		Z 16s	0.46um		4.9mszX	SSE	22.60	68 Pd	14 54.00	3.5X	
PWA	51.45	327 eP	32 30.00	1.4	YSS	75.90	3 eP	35 10.00	0.3			sP	15 04.50		
	0.8s	61.90nm		5.6mb	SIV	76.67	207 P	35 27.50	13.1X	KSH	22.67	315 P	14 53.00	1.7	
KRV	51.71	72 eP	32 30.00	-0.9	MDJ	77.35	12 eP	35 18.50	0.6		0.7s	10.00nm		4.4mb	
MAMI	51.86	88 eP	32 31.90	-0.2	CN2	77.61	16 eP	35 19.00	-0.3		N 15s	1.24um			
DUG	51.98	287 eP	32 32.71	-0.4		1.0s	5.80nm		4.6mb		E 15s	1.17um			
	0.7s	3.89nm		4.4mb	BT0	77.62	28 eP	35 19.60	0.1	MAIO	33.73	299 eP	16 36.00	3.8X	
	Z 19s	2.26um		5.2msz	HHC	77.77	27 P	35 20.20	-0.1	WRA	57.70	137 P	19 49.20	7.7X	
ALQ	52.54	278 P	32 50.00	12.5X		1.2s	24.00nm		5.1mb		0.7s	0.60nm		3.8mb	
	Z 19s	2.92um		5.3msz	Z080	78.88	214 P	35 26.50	-0.7	WB2	57.71	137 eP	19 48.60	7.0X	
GRS	52.55	73 eP	32 37.00	-0.5	BJI	79.59	23 eP	35 30.00	-0.1		0.8s	3.50nm		4.5mb	
	1.4s	70.00nm		5.4mb		1.5s	29.00nm		5.1mb	NB2	66.40	328 P	20 39.30	0.0	
DSI	52.70	88 eP	32 38.40	0.0		Z 20s	0.36um		4.7msz		0.9s	2.30nm		4.3mb	
SHE	52.90	71 iPd	32 40.00	0.2	LZH	80.12	34 eP	35 32.50	-0.8	GEC2	67.18	315 eP	20 46.10	1.6	
	1.0s	110.00nm		5.7mb		1.4s	42.00nm		5.2mb		1.1s	2.47nm		4.2mb	
	Z 14s	1.00um		5.0mszX		Z 17s	0.44um		4.9mszX			e	20 48.90		
	N 14s	1.10um					pP	35 42.50	32kmX			e	20 54.30		
	E 14s	1.20um			GKN	80.31	52 P	35 34.40	0.0			e	21 03.40		
TAB	53.62	75 eP	32 46.00	0.7	KKN	80.77	52 P	35 36.60	-0.3	LPG	72.62	313 eP	21 22.70	4.6X	
MBH	53.82	90 iPc	32 46.90	0.1	DMN	80.85	52 P	35 37.60	0.2		0.8s	6.30nm		4.7mb	
TIC	55.23	145 P	32 54.22	-2.9X	GUN	80.92	51 P	35 38.00	0.1	LPL	72.63	313 eP	21 21.90	3.9X	
KIC	55.58	145 P	32 56.20	-3.5X	TIY	80.95	27 eP	35 38.00	0.5		1.1s	14.90nm		4.9mb	
LIC	55.62	145 P	32 57.00	-3.0X		Z 15s	0.71um		5.1mszX	SSF	74.26	315 eP	21 30.80	3.7X	
	Z 22s	1.00um		4.9msz	PKI	81.01	52 P	35 38.40	0.0		0.8s	3.65nm		4.4mb	
LBFM	55.71	294 eP	33 00.01	-0.7	TIA	83.47	24 eP	35 50.10	-0.5		S.D. = 1.0 on 13 of 27 obs.				
TNP	55.83	288 eP	33 00.98	-0.6	XAN	83.51	31 P	35 50.20	-0.6		% APR 02, 1993 21h 38m 40.72±0.92s				
	1.0s	18.37nm		5.1mb		1.0s	7.10nm		4.8mb		33.176 S ± 7.0km 68.839 W ±10.8km				
SDV	56.33	226 eP	33 08.90	3.6X		Z 12s	0.63um		5.2mszX		DEPTH = 33.0km (normol)				
WDC	56.62	294 P	33 20.00	13.1X		N 12s	1.04um				MENDOZA PROVINCE, ARGENTINA (139)				
	Z 20s	1.47um		5.1msz	CD2	84.89	36 eP	35 57.80	0.0	RTBS	1.60	341 ePd	39 07.40	0.4	
KER	56.85	77 eP	33 08.00	-0.8	NJ2	87.85	23 Pc	36 12.50	0.2	RFA	1.62	169 ePc	39 07.30	-0.1	
TUC	56.87	279 P	33 20.00	11.1X	KMI	89.90	39 Pc	36 22.50	0.0			S	39 32.20		
	Z 20s	2.37um		5.3msz		1.8s	50.00nm		5.5mb	CFA	1.65	18 ePc	39 07.80	0.1	
CMB	57.48	291 P	33 20.00	6.9X			pP	36 29.50	22km			S	39 30.20		
	Z 20s	1.31um		5.0msz	GYA	89.94	35 P	36 22.60	0.1			S	39 08.50	0.1	
GSC	57.74	286 eP	33 14.89	-0.1		1.2s	16.00nm		5.1mb	RTCB	1.69	1 ePd	39 32.00		
ISA	58.33	288 P	33 30.00	10.9X	WRA	141.50	19 PKP	42 53.70	-0.9			S	39 10.20	-0.8	
	Z 21s	1.16um		5.0msz		1.0s	0.70nm			RTLL	1.87	10 eP	39 35.00		
GLA	58.44	283 eP	33 20.07	0.2	ASPA	145.05	21 iPKPd	42 58.80	-1.8			S	39 23.50	0.2	
		e	33 25.31	17km		1.4s	21.30nm			MRA	2.74	75 ePd			

02d 21h

e 39 29.10
 e 39 56.60
 e 40 05.40
 TCA 4.04 64 e(P) 39 42.00 0.1
 (S) 39 47.00
 S.D. = 0.5 on 7 of 7 obs.

* APR 02, 1993 21h 59m 31.73±0.82s
 22.937 N ±15.0km 95.899 E ± 9.9km
 DEPTH = 33.0km (normal)

MYANMAR (296)

CHTO 4.99 145 ePn 01 18.90 32.5X
 ePg 01 43.60
 eSg 03 10.60
 BDT 6.37 152 eP 01 05.50 -0.2
 KMI 6.62 69 ePn 01 09.00 -0.5
 Z 10s 1.30um

GUN 10.32 301 P 02 00.00 -1.0
 PKI 10.55 298 P 02 04.40 0.2
 0.6s 27.00nm 5.7mb
 KKN 10.75 299 P 02 06.40 -0.3
 0.7s 33.00nm 5.7mb
 DMN 10.82 298 P 02 07.60 -0.1
 0.6s 36.00nm 5.8mb
 GKN 11.35 299 P 02 14.40 -0.5
 HYB 17.18 255 eP 03 56.00 25.0X
 GBA 19.82 245 P 04 30.00 27.4X
 WRA 56.78 136 P 09 32.20 16.9X
 0.5s 0.20nm
 GEC2 68.06 315 eP 10 32.70 2.4
 0.9s 1.06nm 3.9mb X
 S.D. = 1.2 on 8 of 12 obs.

? APR 02, 1993 22h 03m 42.40±14.43s
 27.830 N ±130.km 33.738 E ±25.5km
 DEPTH = 10.0km (geophysicist)

EGYPT (553)

MD 4.1 (HLW).

MBH 2.18 27 eP 04 19.50 0.3
 SAGI 2.51 19 eP 04 23.50 -0.5
 KOT 2.68 322 ePn 04 26.50 0.2
 eSn 04 59.50
 RMN 2.77 16 eP 04 28.10 0.4
 HLW 2.92 314 eP 04 29.50 -0.2
 eS 05 15.50
 MKT 3.34 21 eP 04 36.00 0.2
 eS 05 33.30
 DSI 3.99 21 eP 04 44.50 -0.4
 S.D. = 0.4 on 7 of 7 obs.

APR 02, 1993 22h 12m 27.99±0.27s
 51.260 N ± 6.8km 176.695 W ± 3.6km
 DEPTH = 19.8km (7 depth phases)
 4.9mb (32 obs.) 4.4msz (1 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)

MD 4.1 (HLW).

EGYPT (553)

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

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MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MD 4.1 (HLW).

MDJ 35.89 281 eP 19 32.41 19km
 NEW 37.68 70 eP 19 27.50 -0.9
 0.8s 27.90nm 5.1mb
 CN2 38.87 282 eP 19 52.70 -0.6
 1.0s 5.80nm 4.3mb
 RES 39.30 25 eP 19 57.00 0.4
 SNY 41.10 281 Pc 20 12.20 0.5
 TNP 43.14 84 eP 20 30.11 1.3
 0.8s 4.78nm 4.3mb
 HVU 43.70 76 eP 20 39.83 6.6X
 TPNV 44.45 84 eP 20 40.40 1.0
 DUG 44.60 78 ePd 20 41.33 0.7
 0.5s 6.87nm 4.8mb
 epP 20 47.63 21km
 BW06 45.08 73 iPc 20 44.37 -0.1
 0.6s 13.44nm 5.1mb
 ipP 20 49.61 18km

RES

SNY

TNP

HVU

TPNV

DUG

BW06

FCC

GSC

DAU

MSU

EMUT

PLM

SRU

BJI

RSSD

TIA

ULM

HHC

GOL

BTO

TIY

TUC

FRB

XAN

JAO

WMOK

LZH

GTA

LTX

MIAR

CD2

GYA

KMI

KAF

CEH

NB2

KSH

GUN

KKN

PKI

GKN

DMN

QUE

WB2

WRA

HYB

ASPA

POO

POO

POO

POO

POO

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POO

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POO

GBA 89.15 291 Pd 25 23.00 -0.5
 STK 90.56 214 eP 25 29.10 -0.4
 0.4s 1.30nm 4.6mb
 TIC 121.88 10 PKP 31 21.30 -1.1
 KIC 122.19 9 PKP 31 21.80 -1.2
 LIC 122.30 10 PKP 31 22.10 -1.1
 BFT 147.32 311 ePKP 32 10.00 0.7
 SLR 148.18 314 iPKPd 32 09.00 -0.8
 0.7s 22.00nm
 KSR 148.91 316 ePKP 32 17.00 5.2X
 WIN 149.42 334 iPKPd 32 17.50 4.8X
 0.6s 21.00nm
 PRY 149.57 314 ePKP 32 16.50 3.8X
 0.7s 11.00nm
 BLF 152.02 314 ePKP 32 23.00 6.7X
 0.6s 38.00nm
 FRS 152.95 314 ePKP 32 26.10 8.7X
 S.D. = 1.0 on 73 of 83 obs.

% APR 02, 1993 22h 13m 45.13±1.26s

39.081 N ± 9.7km 28.723 E ±12.4km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

KHL 0.98 140 ePg 14 04.00 0.2

ALT 1.08 91 ePg 14 05.00 -0.5

KCT 1.20 346 iPn 14 07.10 -0.4

BNT 1.42 334 iPn 14 11.00 0.1

YLV 1.57 18 ePn 14 13.00 -0.1

EYL 1.85 36 ePn 14 18.00 0.8

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

& APR 02, 1993 22h 54m 58.13s

59.984 N 152.865 W

DEPTH = 102.3km

SOUTHERN ALASKA (2)

<AEIC>.

INE 0.13 308 eP 55 11.80 0.6

INW 0.16 302 eP 55 11.85 0.6

OPT 0.38 209 iP 55 12.87 -0.8

RED 0.44 6 eP 55 13.27 -0.8

RSD 0.48 7 eP 55 13.74 -0.8

RS2 0.48 6 eP 55 13.70 -0.8

RDW 0.50 3 eP 55 13.89 -0.7

NCT 0.58 357 iP 55 14.32 -0.8

DFR 0.62 8 iP 55 14.60 -0.8

AUL 0.67 206 eP 55 15.06 -0.7

AUE 0.68 203 eP 55 15.00 -0.8

PDB 0.70 254 eP 55 15.15 -0.8

AUI 0.71 204 eP 55 15.23 -0.9

CNPM 0.94 118 eP 55 17.62 -0.8

BRLK 1.02 102 eP 55 18.33 -1.0

MCNL 1.10 224 eP 55 19.02 -1.1

NKA 1.11 46 eP 55 21.38 1.2

CKL 1.24 12 iP 55 21.29 -0.6

CKT 1.26 15 iP 55 21.39 -0.7

SPU 1.27 18 eP 55 21.24 -0.9

CKN 1.29 15 iP 55 21.89 -0.5

BGL 1.31 10 eP 55 22.19 -0.4

CP2 1.32 13 eP 55 22.14 -0.8

CPAM 1.32 15 iP 55 22.32 -0.5

CRP 1.33 15 eP 55 22.51 -0.5

SYI 1.40 170 eP 55 22.84 -0.8

SLKM 1.42 67 eP 55 23.45 -0.5

SEW 1.72 85 eP 55 26.49 -1.1

SVW 1.77 311 eP 55 26.67 -1.7

SUA 1.81 34 eP 55 28.70 -0.3

MPA 1.82 72 eP 55 28.16 -0.8

PMS 2.06 51 eP 55 31.71 -0.4

PTE 2.10 63 eP 55 31.69 -0.9

SKT 2.11 17 eP 55 31.90 -0.8

PWA 2.22 40 eP 55 34.93 0.7
 GHO 2.63 45 eP 55 38.49 -1.3
 SML 2.87 48 eP 55 41.25 -1.8
 HIN 3.21 80 eP 55 45.72 -1.8
 38 obs. associated

APR 02, 1993 23h 14m 28.21 ± 0.44s
 38.739 N ± 4.8km 21.289 E ± 3.5km
 DEPTH = 9.9 ± 2.5 km
 3.5mb (2 obs.)
 GREECE (364)
 ML 3.7 (ATH), 3.7 (THE), 3.6 (SKO).

VLS 0.79 225 ePn 14 41.80 -1.7
 AGG 0.86 70 ePg 14 43.64 -1.2
 IGT 1.09 317 ePb 14 48.16 -0.5
 KEK 1.51 310 ePb 14 55.50 0.2
 KZN 1.61 13 ePn 14 57.00 0.2
 LIT 1.65 34 ePb 14 57.00 -0.3
 FNA 2.04 2 ePn 15 04.56 1.5
 ATH 2.06 111 ePn 15 04.00 0.8
 PAIG 2.20 57 ePn 15 04.29 -1.0
 THE 2.29 34 ePn 15 05.88 -0.7
 GRG 2.37 21 ePn 15 07.50 -0.3
 OHR 2.40 351 iPnc 15 09.30 1.1
 i 15 14.70
 i 15 37.10
 i 15 47.00

VLI 2.40 147 ePn 15 09.50 1.3
 SOH 2.62 37 ePn 15 12.12 0.8
 OUR 2.62 52 iPn 15 10.93 -0.4
 KNT 2.72 27 ePn 15 12.96 0.2
 eSn 15 46.76
 VAY 2.76 20 iPn 15 13.20 -0.1
 SRS 2.96 36 ePn 15 15.40 -0.7
 LCI 3.03 363 P 15 18.00 0.9
 SKO 3.23 2 iPn 15 13.20 -6.8X
 iPg 15 30.00
 iSn 15 59.00
 iSg 16 14.50

BRT 3.80 305 P 15 27.00 -1.1
 eSn 16 08.70
 PRK 3.91 81 ePn 15 33.00 3.3X
 TDS 3.96 285 P 15 31.80 1.6
 ORI 3.98 291 P 15 30.00 -0.5
 eSn 16 11.10

SOI 4.17 262 P 15 34.00 0.8
 MGR 4.65 289 P 15 39.50 -0.7
 SGO 4.96 293 P 15 45.00 0.5
 MEU 5.29 254 P 15 48.90 -0.4
 SDI 6.44 300 P 16 03.90 -1.6
 VBY 8.11 328 ePn 16 24.80 -3.9X
 iSn 17 54.10

PSZ 9.23 354 eP 16 44.30 -0.1
 NB2 23.19 348 P 19 31.50 -4.3X
 0.7s 1.60nm 3.7mb
 YKA 73.07 340 eP 26 01.10 1.2
 0.6s 0.20nm 3.4mb
 S.D. = 1.0 on 29 of 33 obs.

% APR 02, 1993 23h 47m 46.26 ± 0.46s
 39.277 N ± 4.3km 29.167 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK).

ALT 0.77 107 iPg 48 00.40 -0.9
 KHL 0.99 164 iPg 48 05.00 -0.1
 eSg 48 19.50
 KCT 1.15 327 iPn 48 07.40 -0.4
 YLV 1.30 7 iPn 48 10.00 -0.3
 BNT 1.44 319 iPn 48 11.90 -0.5
 EDC 1.47 317 iPn 48 12.50 -0.2
 EYL 1.50 30 ePn 48 13.40 0.2
 HRT 1.59 14 iPn 48 15.40 0.9
 IZM 1.73 240 iPn 48 16.90 0.3
 ISK 1.79 357 iPn 48 18.40 1.0
 CTT 1.95 343 ePn 48 18.90 -0.8
 BCK 2.13 148 ePn 48 23.00 0.6
 DMK 2.76 338 ePn 48 31.80 0.5
 S.D. = 0.7 on 13 of 13 obs.

% APR 03, 1993 00h 10m 36.89 ± 0.93s
 39.269 N ± 7.7km 29.112 E ± 13.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

KHL 1.00 161 ePn 10 56.00 0.1
 eSg 11 11.00
 KCT 1.14 329 ePn 10 58.90 0.7
 YLV 1.31 9 ePn 11 01.40 0.2
 BNT 1.42 320 ePn 11 02.00 -0.8
 EYL 1.52 32 ePn 11 04.00 -0.3
 S.D. = 0.8 on 5 of 5 obs.

% APR 03, 1993 00h 23m 30.63 ± 0.60s
 44.210 N ± 6.9km 7.778 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.7 (GEN).

ROB 0.11 38 P 23 34.09 0.6
 S 23 36.01
 ENR 0.26 274 P 23 36.24 0.1
 S 23 40.36
 FIN 0.31 90 P 23 36.83 -0.3
 S 23 41.00
 IMI 0.31 165 P 23 37.15 0.0
 S 23 41.43
 STV 0.33 276 P 23 37.79 0.3
 S 23 42.30
 PZZ 0.57 302 P 23 41.59 -0.7
 S 23 49.62
 PCP 0.64 59 P 23 43.42 -0.1
 S 23 51.89
 S.D. = 0.5 on 7 of 7 obs.

* APR 03, 1993 00h 58m 30.20 ± 0.81s
 16.269 S ± 10.1km 71.720 W ± 10.6km
 DEPTH = 138.6 ± 10.0 km
 3.8mb (1 obs.)

SOUTHERN PERU (117)

ARE 0.29 131 iPd 58 50.50 -0.4
 iS 59 03.40
 ZOBO 3.45 91 iPc 59 24.60 0.3
 LPB 3.49 95 P 59 25.00 0.5
 CNCB 3.63 99 iPd 59 27.90 1.4
 CCH 5.46 103 eP 59 50.00 -0.9
 NNA 6.54 310 iPc 00 05.90 0.6
 0.4s 19.49nm 4.8mb X
 eS 01 16.50
 ANT 7.50 171 iPd 00 16.40 -1.8
 HJA 9.11 140 eP 00 40.20 0.4
 S 02 18.20
 SIV 10.24 90 P 01 04.20 9.4X
 TCA 16.35 158 ePc 02 14.60 1.5
 PPD 20.11 110 eP 02 54.00 -1.2
 e 02 59.60
 SDV 25.02 3 eP 03 42.10 -1.1
 TOV 25.96 4 eP 03 50.50 -1.2
 YKA 85.40 342 eP 10 54.70 2.0
 0.5s 0.80nm 3.8mb
 WRA 135.83 216 PKP 17 40.50 3.6X
 0.4s 0.70nm
 GBA 150.10 91 PKP 18 08.00 6.5X
 S.D. = 1.4 on 13 of 16 obs.

* APR 03, 1993 01h 15m 45.58 ± 1.12s
 5.496 S ± 8.0km 151.924 E ± 15.7km
 DEPTH = 67.2 ± 10.5 km
 4.5mb (3 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.32 10 iPd 16 08.20 -0.2
 PMG 6.12 230 eP 17 16.00 0.5
 GUMO 20.21 340 eP 20 22.20 4.5X
 DZM 21.65 141 iPc 20 41.00 8.7X
 MTN 21.77 249 eP 20 33.00 -0.5
 BRS 21.79 178 iPc 20 34.00 0.4
 OLP 22.22 198 eP 20 38.10 0.3
 WB2 22.32 228 iPc 20 38.50 -0.4
 0.6s 14.90nm 4.6mb
 eS 24 38.50
 ASPA 25.05 222 iPd 21 06.60 1.3
 0.8s 31.30nm 4.8mb
 Z 23s 0.20um 3.6MszX

STK 27.98 199 eP 21 29.90 -2.1
 0.5s 1.50nm 3.9mb
 GUN 71.74 302 P 27 03.20 -0.2
 PKI 72.04 301 P 27 04.80 -0.4
 KKN 72.21 301 P 27 06.00 0.0
 DMN 72.31 301 P 27 06.80 0.1
 GKN 72.82 301 P 27 09.40 -0.1
 GEC2 124.18 328 ePKPc 34 39.50 1.1
 0.5s 0.80nm
 S.D. = 0.9 on 14 of 16 obs.

* APR 03, 1993 02h 14m 13.29s
 34.994 N 116.946 W
 DEPTH = 5.5km
 SOUTHERN CALIFORNIA (43)
 <PAS> ML 3.6 (PAS), 3.4 (GS).
 Feit (11) of Doggett and Yermo.

GSC 0.33 21 iPd 14 19.46 -0.5
 SSK 1.00 218 iPd 14 31.43 -1.3
 PEC 1.11 189 iPd 14 33.55 -1.1
 eS 14 48.07
 ISA 1.42 299 ePnc 14 37.86 -1.9
 eS 14 58.18
 PLM 1.64 178 ePn 14 41.90 -1.1
 eS 15 02.08
 TPNV 2.03 16 ePn 14 44.41 -4.2
 ePg 14 51.11
 BCH 2.58 275 eP 14 54.67 -1.8
 GLA 2.62 137 ePn 14 53.34 -3.6
 PKEM 2.79 293 (Pn) 14 55.97 -3.4
 PHAM 2.94 288 ePn 14 58.73 -2.8
 TNP 3.09 356 ePnd 15 02.30 -1.5
 MEMM 3.11 329 ePg 15 10.18 6.3
 BONR 3.15 340 ePn 15 02.72 -2.0
 ARUT 3.97 44 ePn 15 14.86 -1.4
 ePg 15 26.06
 CMB 4.11 319 ePn 15 17.26 -0.8
 ARN 4.39 304 eP 15 20.30 -1.9
 MSU 5.20 46 ePn 15 32.23 -1.5
 ePg 15 48.04
 DUG 6.14 31 (Pn) 15 51.31 4.4
 ePg 16 07.17
 SRU 6.58 49 ePg 16 13.60 20.4
 DAU 7.04 38 ePg 16 25.70 25.9
 20 obs. associated

? APR 03, 1993 02h 15m 30.54 ± 0.81s
 57.630 N ± 32.1km 33.748 W ± 12.4km
 DEPTH = 10.0km (geophysicist)
 4.4mb (8 obs.)
 NORTH ATLANTIC OCEAN (402)

FRB 17.92 304 eP 19 45.50 4.5X
 FLN 21.62 100 eP 20 23.50 1.1
 1.2s 20.55nm 4.4mb
 Z 21s 0.35um 3.7Msz
 GRR 21.64 101 eP 20 23.90 1.3
 1.1s 15.65nm 4.3mb
 LPF 21.77 102 eP 20 25.20 1.3
 1.3s 27.80nm 4.5mb
 MFF 23.15 104 eP 20 37.90 0.3
 1.3s 20.20nm 4.5mb
 JAO 23.67 279 eP 20 43.00 0.5
 APO 24.24 63 eP 20 48.40 0.3
 0.5s 0.40nm 3.3mb X
 MAF 24.82 102 eP 20 52.90 -0.9
 1.1s 12.70nm 4.5mb
 LOR 24.84 98 eP 20 52.00 -2.0
 0.8s 4.05nm 4.1mb
 Z 21s 0.25um 3.7Msz
 LBF 25.08 99 eP 20 55.20 -1.1
 1.1s 10.00nm 4.4mb
 YKA 38.16 312 eP 22 51.40 0.3
 0.6s 0.70nm 3.6mb
 WRA 141.35 18 PKP 35 03.20 0.1
 1.4s 0.30nm
 ASPA 144.92 20 ePKP 35 06.10 -3.0X
 1.0s 8.60nm
 BRS 149.43 349 e(PKP) 35 15.00 -1.3
 S.D. = 1.2 on 12 of 14 obs.

* APR 03, 1993 03h 10m 56.16 ± 1.85s
 37.021 S ± 14.6km 178.114 E ± 15.1km
 DEPTH = 82.0 ± 15.1 km
 3.2mb (1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

03d 03h

HBZ 0.60 166 P 11 10.60 -0.5
 PUZ 1.06 174 P 11 16.80 0.5
 URZ 1.47 212 P 11 22.00 0.5
 NOZ 1.60 182 P 11 23.80 0.6
 KUZ 1.94 277 P 11 26.70 -1.1
 PAHZ 2.02 204 P 11 29.90 1.0
 WLZ 2.18 246 eP 11 31.00 0.0
 MOH 2.24 200 eP 11 32.40 0.5
 WHH 2.26 214 P 11 32.90 0.6
 NGZ 2.93 222 P 11 42.40 0.9
 CNZ 2.97 222 eP 11 42.90 0.8
 WAHZ 3.01 207 eP 11 41.90 -0.7
 MOZ 3.01 240 eP 11 43.30 0.7
 TEHZ 3.13 199 eP 11 42.60 -1.7
 MNG 4.14 209 eP 11 55.40 -2.9
 WRA 4.17 282 P 18 38.80 0.6

0.5s 0.20nm 3.2mb
 S.D. = 1.2 on 16 of 16 obs.

& APR 03, 1993 03h 42m 31.37s
 34.995 N 116.948 W
 DEPTH = 5.5km
 SOUTHERN CALIFORNIA (43)
 <PAS>P>. ML 2.9 (PAS), 2.7 (GS).

GSC 0.33 21 iPd 42 37.54 -0.5
 SSK 0.99 218 ePd 42 49.55 -1.2
 PEC 1.11 189 eP 42 51.41 -1.3
 ISA 1.41 299 eP 42 56.09 -1.7
 PLM 1.64 177 ePn 43 00.88 -0.2
 TPNV 2.03 16 ePn 43 07.15 0.4
 GLA 2.62 137 ePn 43 12.82 -2.2
 MEMM 3.11 329 ePn 43 21.87 -0.1
 ARUT 3.97 44 ePn 43 33.30 -1.1

9 obs. associated

? APR 03, 1993 03h 50m 15.46±5.79s
 16.375 N ±48.3km 98.790 W ±21.6km
 DEPTH = 33.0km (normal)
 NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.14 296 iP 50 35.50 0.4
 III 2.09 342 iP 50 48.75 -0.3
 PPM 2.68 3 eP 50 57.00 -0.7
 IIA 2.76 3 (P) 51 01.25 2.9X
 IISM 2.93 27 eP 51 00.50 -0.2
 UNM 2.96 353 (P) 51 03.50 2.0
 CRX 3.13 344 (P) 51 08.00 4.1X
 MRX 4.02 326 eP 51 15.00 -1.3

S.D. = 1.5 on 6 of 8 obs.

APR 03, 1993 04h 02m 05.41±0.49s
 21.199 S ±4.7km 179.070 W ±4.5km
 DEPTH = 612.0 ± 7.2 km
 5.1mb (39 obs.)
 FIJI ISLANDS REGION (181)

SVA 3.85 322 eP 03 31.10 0.0
 VUN 3.94 323 eP 03 32.80 1.1
 DZM 13.50 264 iPd 05 00.50 1.7
 KUZ 16.14 195 eP 05 27.50 3.4X
 WLZ 17.24 194 eP 05 37.10 2.5
 URZ 17.32 190 eP 05 34.10 -1.2
 NOZ 17.54 188 eP 05 38.60 1.3
 MOZ 18.04 196 eP 05 44.90 2.9
 PGZ 19.76 191 eP 05 57.10 -0.7
 MNG 19.91 192 eP 05 57.60 -1.6
 ORZ 20.83 198 P 06 08.20 0.6
 THZ 21.59 196 P 06 14.10 -0.5
 DSZ 21.89 199 eP 06 17.40 0.2
 KHZ 22.05 195 P 06 17.10 -1.4
 LTZ 22.71 197 P 06 23.00 -1.6

WVZ 23.42 199 eP 06 30.20 -0.6
 MQZ 23.48 195 eP 06 29.80 -1.6
 EWZ 23.78 198 eP 06 33.60 -0.4
 LMZ 24.47 201 eP 06 39.50 -0.5
 BWZ 25.00 199 eP 06 42.90 -1.8
 MHZ 25.67 199 eP 06 49.50 -1.2
 SBCZ 25.68 199 eP 06 49.70 -1.1
 LSCZ 25.69 199 eP 06 49.40 -1.4
 CMCZ 25.75 199 eP 06 50.60 -0.8
 TLC 25.85 199 eP 06 52.00 -0.3
 BRS 26.36 251 iPc 06 58.00 1.2
 TUZ 26.37 198 eP 06 56.90 0.2
 AFR 27.85 88 iPc 07 09.50 -0.3
 ARMA 27.87 245 iPd 07 11.30 1.3
 PPT 28.04 88 iPc 07 11.20 -0.2

1.0s 169.60nm 5.6mb
 Z 28s 200.00um 6.6mszx
 PPN 28.18 88 iPc 07 12.40 -0.2
 TVO 28.29 88 iPc 07 13.40 -0.3
 RMO 29.85 254 iPd 07 28.00 1.1
 PMO 30.23 83 iPc 07 30.00 -0.1
 VAH 30.41 84 iPc 07 31.50 -0.2
 TPT 30.49 84 iPc 07 32.40 0.1
 RUV 30.65 84 iPc 07 33.60 -0.1
 CNB 31.01 236 iPc 07 38.00 1.3
 CAN 31.29 236 iPc 07 40.50 1.5
 BWA 31.48 238 iPc 07 39.80 -0.8
 CTA 32.43 266 iPd 07 49.00 0.3
 OLP 33.90 254 iPd 08 01.40 0.5

34.68 234 iPc 08 09.10 1.8
 0.7s 43.00nm 5.2mb
 STK 36.59 245 iPd 08 24.10 1.2
 BFD 36.82 236 eP 08 25.90 1.1
 MDG 37.58 290 eP 08 31.70 0.5
 ASPA 43.39 258 iPd 09 17.20 -0.3
 0.8s 112.70nm 5.4mb
 WB2 43.51 263 iPc 09 17.70 -0.7
 0.6s 77.90nm 5.4mb
 WRA 43.52 263 P 09 18.00 -0.4

1.1s 6.80nm 4.1mb
 DHH 47.04 28 eP 09 43.77 -1.5
 FORT 48.10 247 eP 09 52.50 -0.7
 MTN 48.18 272 eP 09 52.70 -1.3
 GUA 49.43 311 eP 10 01.30 -1.8
 PJG 49.49 311 eP 10 00.80 -2.8
 KNA 49.60 267 eP 10 04.00 -0.4
 WARB 49.67 253 eP 10 04.40 -0.5
 MBL 56.63 258 iPd 10 53.40 -0.8
 KLB 56.85 245 eP 10 55.00 -0.6
 MUN 58.12 245 eP 11 04.00 -0.2
 MRWA 58.66 248 eP 11 07.50 -0.3
 NANU 60.25 255 iPd 11 18.30 0.0
 SPA 68.93 180 iPc 12 13.30 1.2
 WKYJ 69.98 321 P 12 18.50 0.0
 MAT 70.19 324 eP 12 18.00 -1.6
 TKSJ 70.73 320 eP 12 22.70 -0.1
 YONJ 71.91 321 eP 12 29.10 -0.6

ADK 72.80 2 eP 12 32.58 -1.7
 PEC 80.45 48 eP 13 16.80 0.8
 MDJ 80.52 326 eP 13 16.70 0.6
 CMB 80.65 43 eP 13 17.23 0.2
 AIA 80.72 157 eP 13 19.00 2.2
 GSC 81.47 47 eP 13 22.28 1.0
 GLA 81.64 50 eP 13 23.32 1.2
 CN2 82.25 323 eP 13 25.00 0.2
 SLKM 84.72 14 eP 13 36.21 -0.5
 ARUT 85.08 46 eP 13 40.11 1.0
 MSU 86.31 46 eP 13 45.93 0.8
 KLU 86.59 15 eP 13 44.92 -0.8
 BALM 87.13 17 iPc 13 48.03 -0.3
 DPW 87.70 36 eP 13 51.81 0.6
 SRU 87.73 46 ePc 13 52.06 0.4
 XAN 87.76 308 P 13 52.50 0.7

1.0s 7.80nm 4.5mb
 DAU 87.88 45 eP 13 53.52 1.0
 BW06 90.16 44 eP 14 02.80 -0.1
 RSSD 94.35 44 eP 14 21.27 -0.7
 YKA 97.56 25 eP 14 36.00 0.2
 NB2 139.55 352 PKP 20 16.40 -9.1X
 HFS 140.06 350 ePKP 20 17.90 -8.5X
 EKA 145.78 4 PKP 20 38.00 1.7
 MLR 148.25 326 ePKP 20 45.00 4.2X
 CLL 148.50 345 iPKP 20 45.20 4.4X
 PRU 149.32 343 PKP 20 47.50 5.4X
 KHC 150.36 343 ePKP 20 49.50 5.8X
 GEC2 150.58 343 ePKPc 20 50.00 5.8X

0.5s 1.43nm 20 56.40
 e 21 00.50
 e 21 06.90
 FLN 152.48 2 ePKP 21 06.60 19.9X
 LDF 152.65 2 ePKP 21 07.20 20.2X
 VBY 153.05 337 ePKP 20 48.50 0.9
 LIC 164.03 158 PKP 21 01.26 0.2
 KIC 164.26 159 PKP 21 01.40 0.1
 TIC 164.43 157 PKP 21 01.58 0.2

S.D. = 1.1 on 90 of 100 obs.

* APR 03, 1993 04h 21m 15.88±1.35s
 27.127 N ±13.3km 111.902 W ±16.7km
 DEPTH = 10.0km (geophysicist)
 3.7mb (3 obs.)
 GULF OF CALIFORNIA (49)

TUC 5.26 10 eP 22 32.94 -3.5X
 GLA 6.43 337 eP 22 52.19 -0.7
 PLM 7.54 327 eP 23 14.50 5.8X
 ALQ 9.08 30 eP 23 31.00 0.9
 TNP 11.80 339 (P) 24 08.86 1.4
 SRU 12.01 5 (P) 24 09.58 -0.6
 BW06 15.73 6 eP 25 00.00 0.7
 RSSD 18.11 18 (P) 25 28.34 -0.9
 VGB 19.67 341 (P) 25 48.71 0.7
 NEW 21.49 350 eP 26 06.10 -0.7
 YKA 35.41 358 eP 28 12.60 -1.0
 ZO80 60.54 130 P 31 30.00 0.4

S.D. = 1.0 on 10 of 12 obs.

% APR 03, 1993 04h 43m 17.34±0.74s

36.834 N ± 8.1km 4.686 W ± 5.3km DEPTH = 10.0km (geophysicist) STRAIT OF GIBRALTAR (385) mbLg 2.6 (MDD).					EPRU 0.48 273 eP 53 37.70 0.6 ELUO 0.68 26 eP 53 41.50 0.5 EGUA 0.87 97 eP 53 43.20 -0.9 ECOG 0.92 68 eP 53 46.00 0.9 EHOR 1.00 331 eP 53 45.40 -1.0 S.D. = 1.3 on 5 of 5 obs.					e 08 07.50 e 08 14.20 e 08 31.30 eP 08 04.00 4.0X i 08 20.20 eP 08 21.00 9.9X e 08 59.00 e 08 27.00 1.5 eP 08 25.50 -1.1				
MAL 0.25 116 ePn 43 21.50 -1.0 iSg 43 27.50 EPRU 0.46 287 ePg 43 27.20 0.6 eSg 43 32.50 EJIF 0.74 239 ePg 43 32.00 0.2 eSg 43 42.00 ELUO 0.80 25 ePg 43 33.00 0.1 eSg 43 42.50 EGUA 0.90 90 ePg 43 35.00 0.4 eSg 43 47.00 ECOG 1.00 63 iPgc 43 37.30 0.9 eSg 43 49.50 EHOR 1.00 336 iPgc 43 36.50 -1.2 eSg 43 51.00 S.D. = 1.0 on 7 of 7 obs.					APR 03, 1993 05h 02m 52.06± 0.92s 39.726 N ± 4.6km 75.658 E ± 4.6km DEPTH = 23.5 ± 7.3 km 4.7mb (40 obs.) 4.4Msz (5 obs.) SOUTHERN XINJIANG, CHINA (321)					N 11s 0.26um E 13s 0.36um eS 12 57.50 Pd 08 40.50 6.4X 2.0s 60.00nm 4.9mb N 10s 0.30um E 10s 0.40um HHC 27.30 76 Pc 08 38.60 1.8 1.4s 15.00nm 4.5mb CIT 28.79 52 eP 08 49.00 -1.1 KOD 29.41 176 eP 09 03.50 7.2X MOS 29.71 315 eP 09 06.00 7.8X e 09 52.00 e 10 06.00 OBN 30.10 314 eP 09 00.00 -1.7 OBN 30.10 314 eP 09 09.00 7.3X 1.0s 28.00nm 5.0mb Z 12s 0.95um 4.7MszX N 13s 1.00um e 10 06.00 eS 14 05.00 NRI 30.47 9 iPc 09 04.50 -0.3 1.3s 52.00nm 5.2mb Z 20s 1.30um 4.6Msz e 10 02.00 BOD 30.62 41 eP 09 05.60 -0.7 PUL 34.58 321 (P) 09 49.00 8.3X 1.2s 110.00nm 5.7mb Z 14s 1.50um 4.9MszX E 14s 1.00um MNK 35.12 310 eP 09 44.00 -1.3 MLR 36.56 296 ePd 09 59.50 1.6 KAF 37.06 324 IP 10 01.70 0.1 NUR 37.51 321 eP 10 05.30 -0.1 SDF 38.60 332 eP 10 09.00 -5.5X YAK 39.21 37 eP 10 18.70 -1.0 1.2s 50.00nm 5.1mb Z 12s 0.90um 4.8MszX E 13s 0.70um SPC 39.86 303 eP 10 27.10 1.6 UPP 40.92 319 iP 10 41.30 7.5X HFS 42.90 320 eP 10 49.80 -0.2 0.5s 6.40nm 4.6mb Z 18s 0.54um 4.5Msz LR 28 02.00 PRU 43.39 305 P 10 54.00 -0.2 BRG 43.61 306 iP 10 56.20 0.3 1.1s 12.00nm 4.6mb e 12 44.00 VBY 43.91 298 e(P) 11 02.80 4.4X NB2 44.11 321 P 10 59.20 -0.7 0.7s 5.40nm 4.5mb CLL 44.12 307 eP 11 01.00 1.0 GEC2 44.16 303 ePc 11 01.40 0.9 0.6s 6.37nm 4.6mb e 11 05.10 e 11 07.80 e 11 12.90 ec 11 24.30 e 11 31.00 KHC 44.18 304 eP 11 01.50 0.9 1.0s 5.40nm 4.4mb e 11 12.00 e 12 10.00 MOX 45.11 306 eP 11 09.10 1.1 Z 21s 0.50um 4.4Msz GRF 45.56 305 iPc 11 13.00 1.4 1.1s 13.00nm 4.8mb Z 22s 0.40um 4.3Msz CDF 48.39 304 eP 11 33.90 -0.1 1.1s 9.30nm 4.7mb BSF 48.87 303 eP 11 37.70 0.0 1.0s 11.20nm 4.8mb HAU 49.11 304 eP 11 39.20 -0.2 1.1s 11.00nm 4.8mb Z 23s 0.38um 4.3MszX LPG 49.63 301 eP 11 44.00 0.2 0.9s 7.20nm 4.7mb				
APR 03, 1993 04h 50m 44.67± 4.30s 41.647 N ±30.2km 22.844 E ±10.2km DEPTH = 10.0km (geophysicist) NORTHWESTERN BALKAN REGION (383) ML 2.7 (THE).					KSH 0.37 137 iPgd 03 01.40 1.2 Sg 03 11.00 PRZ 3.45 36 iPn 03 49.50 3.8X iS 04 31.50 TLG 3.77 20 iPnc 03 52.00 1.9 i 04 42.00 WMO 9.88 62 P 05 15.70 -0.1 Z 10s 1.42um S 07 02.00 NDI 11.09 173 iPd 05 32.70 0.4 0.6s 50.00nm 5.9mb X QUE 11.89 220 eP 05 45.20 1.9 eS 08 07.20 MAIO 13.20 260 eP 05 59.00 -1.7 e 06 26.00 ASH 13.61 268 eP 05 54.00 -12.0X e 08 29.00 VAN 13.80 268 eP 06 06.00 -2.6 1.0s 15.00nm 4.8mb GKN 13.86 145 P 06 07.50 -2.0 KKN 14.33 143 P 06 13.80 -2.0 DMN 14.41 144 P 06 15.00 -1.8 GUN 14.51 141 P 06 16.80 -1.5 PKI 14.58 143 P 06 17.20 -1.9 KAT 14.99 274 eP 06 31.00 6.9X ELT 15.35 25 eP 06 27.20 -1.4 2.0s 133.00nm 4.9mb Z 12s 3.00um 4.1Msz LSA 16.17 123 Pd 06 43.00 3.1X 1.4s 42.00nm 4.4mb GTA 18.62 83 eP 07 12.00 2.0 1.0s 10.00nm 4.0mb Z 15s 1.15um E 10s 0.66um pP 07 18.00 sP 07 20.50 PP 07 28.00 S 10 42.00 SHL 19.60 131 eP 07 20.00 -1.8 eS 11 06.00 SVE 19.73 335 eP 07 29.00 6.3X eS 11 04.00 ARU 20.11 332 eP 07 28.00 1.3 2.0s 300.00nm 5.3mb e 07 38.00 e 07 52.00 e 08 04.00 POO 21.18 185 iPc 07 40.00 1.9 POO 21.18 185 iPc 07 43.50 5.4X MOY 21.23 47 ePc 07 39.00 0.7 1.3s 40.00nm 4.7mb ZAK 22.11 52 iPc 07 48.20 1.1 1.5s 25.00nm 4.4mb Z 13s 0.59um 4.2MszX E 14s 0.58um HYB 22.37 173 eP 07 52.00 2.0 1.0s 40.00nm 4.8mb KRV 22.38 282 eP 07 40.00 -10.0X LZH 22.50 90 eP 07 55.00 3.7X 1.4s 37.00nm 4.7mb Z 12s 0.61um 4.3MszX N 11s 0.50um GRS 22.55 279 eP 07 52.00 0.1 1.1s 40.00nm 4.8mb GRO 22.67 289 eP 08 04.00 11.3X 2.0s 240.00nm 4.9MszX Z 12s 3.00um N 12s 1.50um E 12s 1.00um IRK 23.35 48 eP 08 01.80 2.4 Z 12s 0.42um 4.1MszX					VAY 0.39 212 iPg 50 52.50 -0.1 iSg 51 00.00 KNT 0.49 175 ePg 50 54.50 -0.1 iSg 51 02.82 GRG 0.77 206 ePg 50 59.46 -0.2 eSg 51 11.38 SRS 0.77 133 ePg 50 58.94 -0.8 eSg 51 11.66 SOH 0.91 155 ePg 51 02.22 0.1 eSg 51 16.78 THE 1.02 175 ePg 51 04.10 0.2 eSg 51 19.30 OUR 1.57 146 ePb 51 13.46 0.9 S.D. = 0.6 on 7 of 7 obs.				
APR 03, 1993 04h 52m 59.92± 0.38s 41.829 N ± 3.3km 22.863 E ± 3.2km DEPTH = 10.0km (geophysicist) NORTHWESTERN BALKAN REGION (383) ML 3.2 (THE), 3.2 (SKO).					KKB 0.17 77 iPgd 53 04.00 0.2 VAY 0.55 203 iPg 53 10.60 -0.5 iSg 53 18.20 KNT 0.67 178 iPg 53 12.66 -0.5 MMB 0.69 110 iPg 53 14.00 0.4 VTS 0.80 19 iPg 53 15.00 -0.6 SRS 0.90 142 ePg 53 17.16 0.0 eSg 53 31.40 GRG 0.94 202 iPg 53 17.25 -0.6 iSg 53 29.72 SKO 1.07 278 iPnc 53 21.00 0.9 0.7s 95.00nm iSn 53 35.50 SOH 1.07 160 ePg 53 20.44 0.3 eSg 53 34.52 THE 1.20 176 ePb 53 22.40 0.2 eSb 53 37.60 PGB 1.21 53 iP 53 22.00 -0.4 RZN 1.39 95 iP 53 26.00 0.4 FNA 1.53 227 ePb 53 27.32 -0.1 eSb 53 45.76 OHR 1.71 246 ePn 53 30.00 0.0 OUR 1.72 150 iPb 53 30.14 0.2 LIT 1.75 189 ePb 53 31.32 0.8 eSb 53 54.52 PAIG 2.00 162 ePn 53 33.84 -0.2 ALN 2.57 110 iPn 53 42.28 0.0 eSn 54 14.24 AGG 2.83 188 ePn 53 45.76 -0.3 GZR 3.56 359 ePd 54 30.00 33.6X MLR 4.29 30 eP 54 11.50 4.7X VRI 4.91 33 eP 54 20.00 4.5X S.D. = 0.5 on 19 of 22 obs.					APR 03, 1993 04h 53m 27.44± 1.24s 36.943 N ±13.6km 4.637 W ± 6.8km DEPTH = 10.0km (geophysicist) STRAIT OF GIBRALTAR (385) mbLg 2.3 (MDD).				

03d 05h

LPL	49.64	301	eP	11	44.20	0.4
	1.2s	25.00nm			5.1mb	
LOR	50.94	304	eP	11	52.70	-0.7
	0.9s	3.60nm			4.3mb	
Z	22s	0.40um			4.4msz	
SSF	51.23	303	eP	11	55.10	-0.5
	1.1s	6.60nm			4.5mb	
AVF	51.42	303	eP	11	56.50	-0.6
	0.8s	6.30nm			4.6mb	
EKA	52.56	315	P	12	05.00	-0.6
	1.0s	6.10nm			4.5mb	
DAG	52.72	343	eP	12	05.80	-0.7
	1.0s	8.00nm			4.6mb	
LDF	53.00	306	eP	12	08.00	-0.9
	0.6s	3.25nm			4.4mb	
GRR	53.53	306	eP	12	11.80	-1.0
	1.0s	6.00nm			4.5mb	
BCAO	62.21	251	iPc	13	14.00	-0.3
	0.7s	18.00nm			5.3mb	
		ic		13	21.10	
RES	65.70	357	eP	13	36.50	0.3
IMA	67.90	20	eP	13	49.05	-1.5
	0.8s	3.22nm			4.5mb	
FBA	70.31	18	eP	14	03.78	-1.4
	1.0s	6.39nm			4.7mb	
CP2	72.10	22	eP	14	15.31	-0.9
CRP	72.12	22	(P)	14	13.90	-2.4
FRB	73.03	344	eP	14	21.00	-0.3
YKA	77.79	5	eP	14	47.80	-0.6
	0.7s	11.80nm			5.0mb	
KIC	78.59	269	P	14	54.00	0.4
TIC	78.62	269	P	14	54.20	0.3
LIC	78.89	269	P	14	55.80	0.5
WRA	80.72	125	P	15	06.80	1.9
WB2	80.73	125	iPd	15	05.90	0.9
	0.7s	5.50nm			4.7mb	
		eS		15	15.20	
ASPA	83.22	128	eP	15	19.60	1.7
	0.9s	7.30nm			4.8mb	
JAO	83.63	343	eP	15	19.00	-0.6
ULM	90.09	355	eP	15	53.50	2.4
LCCM	94.55	5	eP	16	12.00	0.0

S.D. = 1.3 on 73 of 92 obs.

APR 03, 1993 05h 26m 56.87 ± 1.66s
 7.448 S ± 8.8km 127.535 E ± 8.5km
 DEPTH = 109.0 ± 16.0 km
 4.4mb (5 obs.)

BANDA SEA (280)

MTN	6.43	147	eP	28	31.30	0.8
	0.3s	167.00nm			5.9mb	X
		eS		29	36.00	
KNA	8.34	172	eP	28	56.20	-0.4
	0.2s	20.00nm			5.5mb	X
		eS		30	21.00	
WB2	14.07	153	iPc	30	08.90	-3.7X
		eS		32	31.10	
MBL	15.53	208	eP	30	30.50	-0.6
		eS		33	13.00	
ASPA	17.25	160	iPc	30	52.00	-0.4
		eS		33	48.00	
WARB	18.65	183	eP	31	08.30	-0.9
	0.3s	7.00nm			4.4mb	
		eS		34	37.00	
NANU	18.96	216	eP	31	13.00	0.7
	0.3s	5.00nm			4.3mb	
MEEK	20.88	203	eP	31	32.50	0.3
		eS		35	21.00	
CTA	22.07	127	e(P)	31	44.00	0.0
		e		32	10.50	
FORT	23.22	179	eP	31	55.00	0.0
MRWA	24.23	205	eP	32	06.00	1.1
	0.4s	2.00nm			3.9mb	
		eS		36	35.00	
OLP	24.78	142	eP	32	11.00	0.9
STK	27.62	154	eP	32	34.70	-1.3
	0.3s	2.60nm			4.3mb	
		i		32	38.90	
BWA	33.03	147	eP	33	24.30	0.4
CAN	34.02	148	eP	33	32.20	-0.2
BJI	48.40	348	eP	35	16.00	-13.7X
Z	20s	0.30um			4.3msz	
GUN	53.43	313	P	36	08.40	0.1
PKI	53.59	312	P	36	09.60	0.2
KKN	53.80	312	P	36	10.40	-0.5
GKN	54.39	312	P	36	15.00	-0.2

0.4s 9.00nm 5.1mb
 CNCB 151.42 148 PKP 46 41.00 6.4X
 S.D. = 0.7 on 18 of 21 obs.

% APR 03, 1993 05h 49m 37.63 ± 0.52s
 36.910 N ± 5.3km 4.683 W ± 4.0km
 DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)

mbLg 3.6 (MDD).

MAL	0.28	130	iPg	49	44.00	0.4
		iSg		49	47.20	
EPRU	0.44	277	iPg	49	47.13	0.5
		eSg		49	52.50	
ELUQ	0.73	27	iPg	49	52.67	0.7
		eSg		50	01.60	
EJIF	0.78	234	iPg	49	52.36	-0.5
		eSg		50	04.20	
EGUA	0.90	95	iPg	49	54.26	-0.6
		eSg		50	06.30	
ECOG	0.97	67	iPg	49	57.03	1.0
		eSg		50	08.30	
EHOR	1.02	334	iPg	49	57.35	0.5
		eSg		50	09.80	
EBAN	1.44	29	iPnd	50	03.32	-0.5
		eSn		50	21.50	
EHUE	1.90	61	ePn	50	10.46	0.1
		eSn		50	33.10	
ENIJ	1.99	87	ePn	50	11.68	0.0
		eSn		50	36.10	
EVIA	2.44	44	ePn	50	17.67	-0.6
		eSn		50	45.90	
PAB	2.65	6	ePn	50	35.00	13.9X
		iPg		50	40.50	
		eSg		51	03.00	
GUD	3.75	6	ePn	50	35.88	-1.0
		eSn		51	16.80	

S.D. = 0.7 on 12 of 13 obs.

& APR 03, 1993 05h 54m 06.98s
 61.716 N 149.962 W
 DEPTH = 38.6km

SOUTHERN ALASKA (2)
 <AEIC>. ML 3.0 (AEIC), 3.1
 (PMR).

PWA	0.08	149	P	54	13.60	0.3
PLRM	0.42	107	iPc	54	15.81	-0.7
		S		54	23.42	
PMR	0.42	107	iPd	54	15.50	-1.0
		eS		54	22.59	
SUA	0.45	236	iPc	54	16.83	-0.3
		eS		54	25.20	
GHO	0.50	83	iPc	54	17.07	-0.7
		eS		54	26.20	
PMS	0.51	158	P	54	17.20	-0.7
SML	0.78	82	iPc	54	20.61	-1.0
SKT	0.79	290	iPc	54	20.72	-1.0
		eS		54	31.77	
PTE	0.97	152	ePd	54	23.21	-1.0
		eS		54	37.45	
CGLM	1.06	248	eP	54	25.21	-0.5
SPU	1.14	243	iPc	54	25.87	-0.9
		iS		54	41.47	
CPAM	1.14	247	iPc	54	26.28	-0.6
CRP	1.14	248	iPc	54	25.70	-1.2
NKA	1.16	213	ePc	54	27.84	1.0
CKN	1.17	246	ePc	54	26.75	-0.5
CP2	1.18	248	iPc	54	26.45	-1.1
CKT	1.20	245	ePc	54	26.72	-0.8
		S		54	42.61	
SLKM	1.22	186	ePd	54	26.56	-1.3
BGL	1.25	250	ePc	54	27.68	-0.7
CKL	1.25	246	ePc	54	27.53	-0.9
SCM	1.26	83	iPc	54	27.91	-0.5
MPA	1.27	166	ePd	54	27.16	-1.3
HUR	1.28	7	ePd	54	28.43	-0.2
		S		54	45.22	
SEW	1.64	171	eP	54	32.41	-1.3
RDT	1.65	227	eP	54	33.45	-0.6
DFR	1.74	231	iPc	54	34.66	-0.6
TRF	1.75	355	ePd	54	35.02	-0.5
RND	1.77	16	eP	54	35.55	-0.3
REF	1.81	228	eP	54	35.85	-0.6
		eS		54	58.23	
RDN	1.82	230	eP	54	35.72	-0.8
VLZ	1.84	107	ePc	54	35.13	-1.6

NCT	1.85	232	ePc	54	58.10	-0.6
RSO	1.85	228	ePc	54	36.38	-0.7
RS2	1.85	228	ePc	54	36.38	-0.7
RS1	1.85	228	ePc	54	36.41	-0.7
RDW	1.86	229	ePc	54	36.52	-0.6
RED	1.89	228	ePc	54	36.77	-0.7

S

KLU	1.94	95	iPc	54	37.05	-1.3
BRLK	2.01	193	eP	54	37.38	-1.8
MCK	2.08	13	eP	54	40.18	0.0
HIN	2.14	127	ePc	54	39.02	-2.0
TZL	2.17	79	eP	54	41.21	-0.3
SDG	2.23	67	eP	54	42.50	0.2
INE	2.25	224	eP	54	42.01	-0.7
INW	2.27	225	eP	54	42.09	-0.8
CNPM	2.29	197	eP	54	41.20	-1.9
CVA	2.36	118	eP	54	43.06	-1.0
PAX	2.45	57	eP	54	44.98	-0.4
THY	2.59	47	P	54	48.50	1.0
SGAM	2.61	116	eP	54	46.21	-1.5
SVW	2.79	260	eP	54	47.93	-2.4
PDB	2.84	229	eP	54	49.36	-1.6
WRH	2.89	16	eP	54	50.64	-1.1
RAGM	2.90	115	eP	54	51.87	0.1
GLB	2.95	93	ePc	54	51.01	-1.6
HDA	3.03	26	eP	54	52.57	-1.0
TTA	3.08	296	eP	54	51.39	-2.9
CCB	3.10	17	eP	54	53.61	-1.0
MCNL	3.34	222	eP	54	56.96	-1.0
DOT	3.34	52	eP	54	56.42	-1.7
FBA	3.34	16	eP	54	55.57	-2.5
MDM	3.35	13	eP	54	56.81	-1.4
CROM	3.44	103	eP	54	58.95	-0.6
GLM	3.48	18	eP	54	59.03	-1.1
TGL	3.58	102	eP	55	00.58	-1.0
BALM	3.73	97	eP	55	01.41	-2.2
YAH	4.22	105	eP	55	08.97	-1.8
CTGM	4.22	96	eP	55	09.86	-0.9
IMA	4.67	341	eP	55	14.27	-2.7

69 obs. associated

APR 03, 1993 06h 11m 22.20 ± 0.98s
 13.207 N ± 7.1km 120.413 E ± 8.0km
 DEPTH = 30.3 ± 8.9 km
 4.5mb (7 obs.)

MINDORO, PHILIPPINE ISLANDS (250)

PGP	0.60	61	ePd	11	33.80	-0.5
OVP	1.52	22	ePd	11	48.20	0.6
			eS	12	10.00	
BCP	3.20	3	eP	12	25.00	13.3X
			eS	12	53.00	
PPR	3.79	206	eP	12	20.00	0.1
			iS	13	03.00	
CVP	4.67	17	eP	12	32.50	0.0
PLP	4.90	114	ePd	12	37.00	1.2
GUN	35.34	300	P	18	18.20	0.7
PKI	35.64	299	P	18	20.40	0.4
WB2	35.68	157	iPd	18	19.20	-0.8
	0.6s	34.60nm				5.5mb
KKN	35.81	299	P	18	21.60	0.2
DMN	35.91	299	P	18	22.80	0.6
GKN	36.42	299	P	18	25.00	-1.4
ASPA	38.95	160	iPc	18	47.70	0.3
	0.5s	43.70nm				5.5mb
STK	49.21	156	eP	20	09.50	-0.3
	0.5s	2.60nm				4.5mb
BRS	51.13	142	iP	20	24.00	-0.6
KAF	80.35	332	iP	23	36.40	4.6X
	0.6s	1.80nm				4.3mb
NUR	81.44	330	iP	23	42.30	4.8X
	0.4s	1.40nm				4.3mb
NB2	87.57	333	P	24	12.40	3.9X
	0.8s	2.80nm				4.6mb
GEC2	90.84	321	ePd	24	30.30	6.1X
	0.7s	0.81nm				4.1mb

TRN 0.72 127 eP 17 50.48 -0.2
 eS 18 02.32
 TPP 0.92 145 eP 17 53.57 0.4
 eS 18 07.46
 GRW 1.12 16 eP 17 55.80 0.1
 eS 18 13.01
 S.D. = 0.5 on 4 of 4 obs.

* APR 03, 1993 06h 38m 34.13±1.10s
 54.019 N ±17.8km 160.334 W ±11.5km
 DEPTH = 33.0km (normal)
 4.3mb (4 obs.)

ALASKA PENINSULA (12)

SDN 1.33 356 ePc 38 56.80 0.3
 eS 39 08.00
 KDC 5.78 47 eP 40 00.01 0.2
 CRP 8.48 28 eP 40 37.45 -0.3
 ADK 10.10 264 (P) 40 57.92 -1.9
 KLU 10.72 40 eP 41 07.72 -0.7
 BALM 11.92 47 eP 41 24.31 -0.4
 KAF 64.09 357 iP 49 06.10 -0.4
 0.5s 3.40nm 4.7mb
 NB2 65.09 5 P 49 13.00 -0.1
 1.0s 3.40nm 4.4mb
 NUR 65.75 357 iP 49 17.20 0.0
 0.2s 0.50nm 4.3mb
 HFS 66.10 3 eP 49 19.20 -0.3
 0.4s 0.90nm 4.2mb
 GUN 80.49 305 P 50 45.40 0.9
 KKN 80.88 305 P 50 47.60 1.2
 PKI 81.00 305 P 50 47.20 0.0
 GKN 81.01 306 P 50 47.80 0.8
 DMN 81.11 305 P 50 48.40 0.7
 S.D. = 0.8 on 15 of 15 obs.

? APR 03, 1993 07h 03m 53.14±1.81s
 31.363 S ±24.6km 69.683 W ±14.4km
 DEPTH = 130.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)
MD 3.8 (SAN).

RTBS 0.36 147 ePd 04 12.10 0.2
 S 04 24.90
 RTLL 1.04 88 iPc 04 17.00 0.2
 S 04 33.50
 RTCV 1.10 117 iPc 04 17.30 0.0
 S 04 33.50
 CFA 1.26 102 ePd 04 19.20 0.2
 S 04 37.80
 JACH 1.52 210 iP 04 22.90 0.9
 iS 04 44.45
 PEL 1.97 205 iP 04 27.51 0.3
 iS 04 51.66
 FCH 2.02 195 iP 04 29.11 0.9
 iS 04 54.65
 LCCH 2.64 217 iP 04 35.34 -0.3
 iS 05 09.95
 CHCH 2.69 197 iP 04 35.88 -0.5
 iS 05 08.25
 LNV 2.97 209 iP 04 38.61 -1.3
 MRA 3.54 108 iPc 04 47.70 0.2
 S 05 24.60
 TCA 4.36 91 iP 04 57.80 -0.8
 (S) 05 43.50
 S.D. = 0.7 on 12 of 12 obs.

% APR 03, 1993 07h 41m 12.75±0.66s
 36.869 N ±6.8km 4.701 W ±4.8km
 DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)
mbLg 2.6 (MDD).

MAL 0.27 121 ePg 41 19.00 0.5
 iSg 41 22.60
 EPRU 0.44 283 ePg 41 22.20 0.5
 eSg 41 27.60
 EJIF 0.75 236 ePg 41 27.00 -0.3
 eSg 41 37.00
 ELUO 0.77 26 ePg 41 27.50 -0.4
 eSg 41 39.50
 EGUA 0.91 92 ePg 41 29.00 -1.2
 eSg 41 42.00
 ECOG 0.99 65 ePg 41 32.50 0.8
 EHOR 1.05 336 iPg 41 32.00 -0.5
 eSg 41 46.00
 EBAN 1.48 29 ePn 41 40.00 0.5

eSn 42 00.00
 S.D. = 0.8 on 8 of 8 obs.

% APR 03, 1993 07h 41m 55.78±0.66s
 36.866 N ±6.9km 4.704 W ±4.9km
 DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)
mbLg 2.7 (MDD).

MAL 0.27 120 ePg 42 01.60 0.1
 iSg 42 05.50
 EPRU 0.43 283 ePg 42 05.30 0.6
 eSg 42 11.70
 EJIF 0.74 236 ePg 42 10.00 -0.3
 eSg 42 20.00
 ELUO 0.78 27 ePg 42 10.20 -0.7
 eSg 42 20.90
 EGUA 0.91 92 ePg 42 12.50 -0.8
 eSg 42 25.00
 ECOG 1.00 65 ePg 42 15.90 1.1
 EHOR 1.05 336 iPg 42 15.00 -0.6
 eSg 42 30.00
 EBAN 1.49 29 ePn 42 23.10 0.5
 eSn 42 42.50
 S.D. = 0.8 on 8 of 8 obs.

? APR 03, 1993 08h 07m 27.03±1.49s
 39.193 N ±14.2km 27.385 E ±46.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

IZM 0.80 187 ePg 07 42.60 0.0
 iSg 07 54.10
 EDC 1.21 18 ePn 07 49.50 0.0
 BNT 1.23 19 ePn 07 50.00 0.1
 KCT 1.29 35 iPn 07 51.00 0.0
 S.D. = 0.1 on 4 of 4 obs.

* APR 03, 1993 08h 29m 05.16±0.63s
 5.968 S ±9.1km 75.066 W ±15.7km
 DEPTH = 33.0km (normal)
 4.6mb (6 obs.)

NORTHERN PERU (111)

NNA 6.23 196 eP 30 35.70 -1.7
 0.8s 59.70nm 5.3mb
 i 30 42.00
 eS 31 44.00
 ZOBO 12.29 147 P 31 57.00 -4.4X
 Z 22s 0.18um
 S 34 28.00
 LR 36 56.00
 CCH 14.32 143 P 32 30.00 2.0
 SDV 15.40 17 eP 32 41.30 -0.7
 TOV 16.51 19 eP 32 55.00 -1.0
 MEO 46.21 333 iPd 37 28.90 0.0
 ALQ 50.31 326 ePc 38 01.30 0.2
 0.8s 7.63nm 4.8mb
 iPp 38 12.41 39kmX
 EEO 52.50 357 eP 38 20.00 2.8
 SRU 55.57 327 eP 38 40.22 0.1
 MSU 56.07 325 eP 38 43.77 0.0
 RSSD 56.28 335 iPc 38 45.35 0.1
 0.9s 11.00nm 4.9mb
 e 38 56.32
 BW06 57.74 330 eP 38 54.70 -0.9
 1.2s 3.88nm 4.3mb
 ULM 58.82 345 eP 39 04.00 1.3
 JAO 59.55 360 eP 39 06.00 -1.6
 ORV 62.32 321 eP 39 27.42 0.7
 iPp 39 37.99 35kmX
 FCC 66.30 349 eP 39 53.50 1.3
 FRB 69.70 3 eP 40 12.50 -0.8
 KIC 71.25 81 P 40 22.00 -1.8
 YKA 74.65 342 eP 40 41.50 -1.3
 0.7s 2.90nm 4.4mb
 RES 81.43 355 eP 41 21.00 1.3
 1.0s 2.00nm 4.1mb
 GKN 150.82 39 PKP 48 57.00 6.1X
 0.8s 34.00nm
 KKN 151.38 38 PKP 48 58.20 6.4X
 DMN 151.40 39 PKP 48 58.40 6.5X
 PKI 151.61 39 PKP 48 58.40 6.1X
 GUN 151.66 37 PKP 48 59.00 6.6X
 S.D. = 1.4 on 19 of 25 obs.

& APR 03, 1993 09h 39m 21.80s
 36.760 N 121.483 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.7 (BRK), 3.6 (GS).
 Felt (iV) at Prunedale. Also
 felt in the Hollister-San Juan
 Bautista area.

SAO 0.03 81 ePn 39 22.65 -0.7
 ARN 0.59 356 iPd 39 33.39 -0.2
 MHC 0.59 348 iPd 39 33.68 -0.1
 BKS 1.27 332 iPc 39 43.60 -2.0
 PHAM 1.27 136 ePn 39 44.19 -1.5
 PKEM 1.31 122 ePn 39 45.67 -0.6
 eS 40 05.41
 CMB 1.54 34 iPd 39 48.14 -1.7
 NTYM 1.88 330 ePn 39 51.19 -3.3
 iPg 39 52.45
 BCH 1.94 144 ePn 39 53.61 -2.0
 MEMM 2.22 65 eP 39 59.55 0.0
 eS 40 27.13
 ISA 2.67 113 eP 40 04.08 -2.0
 ORV 2.79 360 ePn 40 06.20 -1.5
 BONR 2.80 64 ePn 40 07.08 -1.1
 KVN 3.52 48 ePn 40 16.88 -1.3
 ePg 40 25.84
 TNP 3.64 67 ePn 40 18.36 -1.6
 ePg 40 28.12
 SSK 4.00 128 eP 40 22.37 -2.7
 GSC 4.06 110 eP 40 23.37 -2.4
 TPNV 4.20 86 eP 40 26.79 -1.1
 PEC 4.55 128 eP 40 29.71 -2.9
 LBFM 4.59 356 (Pn) 40 34.53 1.1
 ePg 40 44.48
 PLM 5.09 131 eP 40 37.63 -2.9
 SRU 8.97 72 ePn 41 34.63 -0.3
 22 obs. associated

% APR 03, 1993 11h 01m 46.04±0.84s
 46.963 N ±5.6km 2.310 E ±6.3km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 1.9 (LDG).

HYF 0.38 36 Pg 01 54.00 0.2
 Sg 01 59.10
 BGF 0.55 138 Pg 01 56.90 -0.2
 Sg 02 04.60
 TCF 0.68 186 Pg 01 59.90 0.4
 Sg 02 08.80
 AVF 0.74 103 Pg 02 00.50 0.0
 Sg 02 09.70
 MAF 0.76 167 Pg 02 01.00 0.0
 Sg 02 11.40
 SSF 0.82 83 Pg 02 01.80 -0.2
 Sg 02 12.10
 LSF 0.89 217 Pg 02 02.90 -0.3
 Sg 02 14.70
 SMF 1.10 106 Pg 02 06.90 0.2
 Sg 02 20.80
 LOR 1.10 73 Pg 02 06.50 -0.2
 Sg 02 20.90
 LBF 1.14 88 Pg 02 07.50 0.1
 Sg 02 22.30
 S.D. = 0.2 on 10 of 10 obs.

APR 03, 1993 12h 18m 32.53±1.12s
 5.506 S ±4.6km 151.798 E ±5.7km
 DEPTH = 38.6 ±10.3 km
 4.9mb (27 obs.) 4.5Msz (2 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.35 16 iPd 18 56.50 1.2
 HNR 8.97 116 P 20 41.00 -1.7
 CTA 15.46 200 P 22 16.50 6.8X
 RMQ 21.07 188 iPc 23 16.10 0.2
 0.9s 48.00nm 4.9mb
 MTN 21.65 249 eP 23 21.00 -0.8
 DZM 21.72 141 iPc 23 22.00 -0.6
 BRS 21.78 178 iPd 23 23.00 -0.1
 1.0s 8.00nm 4.1mb
 i 23 36.50
 eS 27 27.00
 OLP 22.17 198 iPd 23 27.10 0.2
 WB2 22.22 228 eP 23 28.20 0.7
 0.7s 27.90nm 4.8mb

03d 12h

WRA 22.23 228 eS 27 24.30
ARMA 24.78 180 eP 23 29.10 1.5
0.7s 4.00nm 4.1mb
KNA 24.79 244 eP 23 52.70 0.2
e 23 56.00
ASPA 24.96 222 iPc 23 55.60 1.5
0.8s 62.80nm 5.2mb
Z 23s 0.40um 3.9MszX
eS 28 18.70
CMS 26.45 192 iPc 24 06.80 -1.0
0.5s 9.00nm 4.6mb
STK 27.93 199 eP 24 21.50 0.2
3.3s 2.30nm 3.3mb X
WARB 31.63 227 eP 24 53.00 -1.4
MRWA 41.23 231 iPc 26 19.80 4.2X
0.6s 10.00nm 4.7mb
MUN 42.42 227 eP 26 30.00 4.7X
1.0s 20.00nm 4.8mb
XAN 56.45 317 P 28 12.20 -0.9
0.8s 5.50nm 4.6mb
Z 20s 0.30um 4.4Msz
pP 28 27.70 58kmX
TIY 56.47 323 eP 28 13.20 0.0
Z 22s 0.65um 4.7Msz
KMI 56.56 305 eP 28 14.50 0.2
1.5s 40.00nm 5.2mb
pP 28 23.50 29kmX
CD2 58.44 311 eP 28 26.80 -0.4
HHC 59.04 325 P 28 31.20 -0.1
0.9s 15.00nm 5.1mb
BTO 59.77 324 eP 28 36.00 -0.3
LZH 61.04 317 eP 28 45.00 -0.1
1.4s 26.00nm 5.2mb
pP 28 55.00 33kmX
GTA 65.50 318 P 29 14.00 -0.4
1.0s 8.00nm 4.7mb
SHL 65.81 301 iPc 29 16.00 -0.7
eS 37 48.50
YAK 69.45 349 eP 29 39.00 0.4
1.8s 35.00nm 5.1mb
GUN 71.63 302 P 29 52.20 -0.8
0.8s 30.00nm 5.3mb
PKI 71.94 301 P 29 53.80 -1.0
KKN 72.11 301 P 29 54.40 -1.3
0.8s 19.00nm 5.1mb
DMN 72.21 301 P 29 55.40 -0.9
GKN 72.71 301 P 29 58.60 -0.6
0.8s 31.00nm 5.3mb
WMO 75.59 318 P 30 15.60 0.2
KOD 75.65 282 eP 30 17.50 1.0
HYB 75.78 289 eP 30 16.00 -0.9
GBA 76.19 285 P 30 19.00 -0.2
SVW 77.85 23 eP 30 27.87 0.3
0.8s 19.18nm 5.2mb
TTA 78.79 22 eP 30 32.91 0.1
0.8s 3.32nm 4.4mb
SLKM 79.73 25 eP 30 36.98 -0.9
IMA 81.45 20 eP 30 47.62 0.6
0.7s 1.46nm 4.1mb
KSH 82.62 311 eP 30 56.00 2.4
1.0s 50.00nm 5.5mb
FBA 82.91 22 eP 30 53.11 -1.3
0.6s 3.97nm 4.7mb
BALM 83.40 27 eP 30 57.13 0.0
GMW 90.93 42 eP 31 34.74 1.0
e 32 46.76
MCW 91.04 41 eP 31 34.56 0.3
RMW 91.58 43 eP 31 37.20 0.4
TNP 94.13 52 eP 31 49.75 0.8
0.9s 4.52nm 4.9mb
NEW 94.79 42 eP 31 51.91 0.4
0.9s 12.30nm 5.3mb
YKA 96.51 28 eP 31 58.40 -0.6
0.7s 1.70nm 4.7mb
BW06 100.06 48 ePdiff 32 15.76 -0.1
1.0s 4.43nm 4.9mb
RES 101.33 14 ePdiff 32 23.00 2.5X
RSSD 103.98 46 ePdiff 32 33.45 0.2
0.6s 2.51nm 5.2mb
KHC 124.02 328 ePKP 37 29.50 1.0
GEC2 124.12 328 ePKPd 37 28.40 -0.4
0.5s 1.55nm
GRF 124.88 330 ePKP 37 31.00 0.9
ZOBO 134.97 119 PKP 37 53.20 2.2
CCH 136.17 122 ePKP 38 06.00 13.0X
PPD 144.49 141 ePKP 38 05.60 -1.8

BAO 151.27 137 iPKPd 38 24.00 5.6X
e 38 40.90
S.D. = 0.9 on 54 of 60 obs.
APR 03, 1993 12h 27m 07.71 ± 0.78s
5.482 S ± 4.7km 151.822 E ± 8.6km
DEPTH = 62.9 ± 6.9 km
5.0mb (13 obs.)
NEW BRITAIN REGION, P.N.G. (192)
RAB 1.32 15 iPd 27 30.50 0.0
PMG 6.05 230 eP 28 36.80 0.1
1.0s 220.00nm 5.5mb
CTA 15.50 200 iP 30 47.50 3.6X
GUMO 20.16 340 eP 31 43.50 3.8X
0.9s 128.40nm 5.3mb
PJG 20.16 340 eP 31 43.50 3.8X
MTN 21.69 249 eP 31 55.00 -0.1
0.3s 57.00nm 5.4mb
BRS 21.81 178 iPd 31 56.00 -0.3
1.0s 3.50nm 3.7mb X
eP 32 11.00 66kmX
QLP 22.20 198 eP 32 00.50 0.4
WB2 22.26 228 iPd 32 00.40 -0.4
0.6s 23.40nm 4.8mb
eS 35 59.60
ARMA 24.81 180 eP 32 33.20 7.7X
KNA 24.82 244 eP 32 25.70 0.0
e 32 28.50
ASPA 25.00 222 eP 32 28.20 0.9
0.7s 50.30nm 5.1mb
Z 21s 0.40um 3.9Msz
eS 36 55.80
CMS 26.47 192 eP 32 40.00 -0.9
0.5s 6.00nm 4.4mb
STK 27.96 199 eP 32 54.60 0.3
1.0s 2.00nm 3.7mb X
WARB 31.66 227 eP 33 26.50 -0.9
MRWA 41.27 231 eP 34 52.00 3.5X
0.4s 5.00nm 4.6mb
BJI 55.93 327 eP 36 34.00 -7.6X
Z 20s 0.30um 4.4Msz
XAN 56.45 317 Pd 36 45.00 -0.6
1.4s 14.00nm 4.8mb
HHC 59.04 325 P 37 04.00 0.3
1.0s 8.50nm 4.8mb
Z 18s 0.48um 4.7Msz
BTO 59.77 324 eP 37 08.10 -0.6
GUN 71.64 302 P 38 25.40 0.0
0.8s 16.00nm 5.0mb
PKI 71.95 301 P 38 26.80 -0.4
KKN 72.12 301 P 38 28.00 -0.1
DMN 72.21 301 P 38 28.80 0.1
1.0s 45.00nm 5.4mb
GKN 72.72 301 P 38 31.60 0.0
1.0s 30.00nm 5.2mb
WMO 75.58 318 eP 38 47.80 0.1
Z 30s 1.30um 5.1MszX
GBA 76.21 285 Pd 38 52.00 0.4
YKA 96.48 28 eP 40 30.70 -0.4
0.7s 1.10nm 4.5mb
APO 116.59 338 ePKP 45 45.30 -0.7
0.4s 0.80nm
KHC 124.01 328 ePKP 46 01.00 0.4
GEC2 124.12 328 ePKPd 46 01.30 0.4
0.5s 1.13nm
e 46 15.40
BCAO 133.46 271 ePKPc 46 21.00 1.3
0.5s 3.00nm
BAO 151.27 137 ePKP 46 57.00 6.5X
S.D. = 0.6 on 26 of 33 obs.
APR 03, 1993 12h 30m 10.63 ± 0.79s
48.549 N ± 16.3km 153.175 E ± 13.1km
DEPTH = 110.0km (geophysicist)
4.3mb (8 obs.)
KURIL ISLANDS (221)
YAK 18.83 324 eP 34 25.00 0.9
1.2s 25.00nm 4.4mb
IMA 32.34 38 eP 36 29.37 -1.6
0.7s 2.40nm 4.1mb
FBA 34.74 40 eP 36 50.90 -0.6
1.0s 12.50nm 4.7mb
LZH 37.91 270 eP 37 17.50 -1.2
1.2s 20.00nm 4.9mb
RES 49.12 19 eP 38 49.00 0.9

YKA 49.46 38 eP 38 50.70 -0.2
0.8s 1.60nm 4.0mb
BW06 63.65 55 eP 40 32.50 0.3
0.9s 3.11nm 4.2mb
SRU 65.62 58 eP 40 45.45 0.6
RSSD 65.64 50 eP 40 45.48 0.5
0.7s 5.17nm 4.6mb
WRA 70.23 199 P 41 13.90 0.5
0.4s 0.70nm 3.8mb
ZOBO 133.43 61 ePdiff 46 24.00 9.9X
S.D. = 1.0 on 10 of 11 obs.
APR 03, 1993 12h 31m 54.24 ± 0.58s
40.593 N ± 5.1km 23.740 E ± 5.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.7 (THE).
OUR 0.32 144 ePg 32 00.36 -0.5
eSg 32 04.96
SOH 0.37 308 iPg 32 01.64 -0.3
iSg 32 07.16
SRS 0.54 348 ePg 32 03.92 -1.2
eSg 32 11.56
THE 0.59 274 ePg 32 06.00 -0.2
eSg 32 14.36
PAIG 0.67 184 iPg 32 07.01 -0.5
eSg 32 16.24
KNT 0.85 312 iPg 32 10.72 0.0
eSg 32 23.24
LIT 1.07 243 ePg 32 14.80 0.3
GRG 1.08 290 iPg 32 15.08 0.5
VAY 1.15 310 ePn 32 16.30 0.6
ALN 1.78 79 ePb 32 26.24 1.0
S.D. = 0.7 on 10 of 10 obs.
APR 03, 1993 13h 59m 57.74 ± 0.82s
26.369 S ± 6.4km 27.451 E ± 8.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).
PRY 0.56 178 eP 00 08.20 -0.7
S 00 13.50
KSR 0.71 315 e(P) 00 11.50 -0.4
S 00 21.00
SLR 0.98 50 eP 00 17.00 0.1
S 00 29.50
SEK 1.95 175 eP 00 32.50 0.5
S 00 58.00
SWZ 2.07 246 eP 00 34.20 0.5
BLF 2.95 202 eP 00 51.00 4.7X
S.D. = 0.8 on 5 of 6 obs.
APR 03, 1993 14h 11m 54.46 ± 0.65s
57.846 N ± 19.1km 33.468 W ± 7.8km
DEPTH = 10.0km (geophysicist)
4.4mb (12 obs.) 3.7Msz (3 obs.)
NORTH ATLANTIC OCEAN (402)
FRB 17.92 304 eP 16 07.50 2.5
LMN 22.55 251 eP 16 56.00 0.4
JAO 23.78 278 eP 17 08.00 0.4
HFS 24.00 64 eP 17 09.80 0.1
0.9s 9.70nm 4.4mb
Z 18s 0.09um 3.3Msz
LR 22 55.00
SSF 24.67 100 eP 17 12.20 -4.0X
1.2s 15.45nm 4.5mb
LOR 24.72 99 eP 17 11.20 -5.6X
0.7s 2.45nm 4.0mb
Z 21s 0.32um 3.8Msz
CDF 25.83 94 eP 17 27.00 -0.3
0.9s 6.70nm 4.3mb
BSF 25.93 95 eP 17 29.60 1.4
1.0s 6.80nm 4.3mb
PAB 26.22 122 eP 17 33.00 2.0
MOX 26.87 86 eP 17 36.00 -0.8
GRA2 27.29 88 e(P) 17 41.00 0.4
1.0s 8.00nm 4.4mb
Z 19s 0.30um 3.9Msz
GEC2 29.01 87 eP 17 55.60 -0.7
1.0s 0.95nm 3.5mb
e 18 05.10
KSP 29.25 82 eP 17 57.00 -1.3
OBN 37.22 63 eP 19 07.00 -0.3
1.4s 30.00nm 4.9mb

YKA 38.13 312 eP 19 14.60 -0.2
0.6s 1.80nm 4.0mb
FBA 47.91 328 eP 20 34.01 -0.1
1.4s 8.78nm 4.7mb
BW06 48.21 287 eP 20 34.73 -2.3
0.4s 1.77nm 4.5mb
IMA 48.57 332 eP 20 40.37 1.1
1.1s 3.37nm 4.3mb
MSU 52.69 285 eP 21 08.85 -2.4
S.D. = 1.4 on 17 of 19 obs.

? APR 03, 1993 14h 37m 37.23±2.39s
40.670 N ±29.1km 28.938 E ±17.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV 0.35 107 iPg 37 44.60 0.2
HRT 0.57 74 iPg 37 49.00 0.1
eSg 37 56.80
CTT 0.61 321 iPg 37 49.60 0.0
EYL 0.93 96 ePg 37 54.80 -0.3
eSg 38 07.10
S.D. = 0.4 on 4 of 4 obs.

* APR 03, 1993 14h 39m 55.27±0.86s
19.983 S ±8.8km 67.653 W ±18.0km
DEPTH = 206.6 ±13.7 km
3.5mb (1 obs.)
SOUTHERN BOLIVIA (125)

CCH 2.96 29 eP 40 44.00 -1.6
YJA 2.96 138 ePd 40 46.50 0.8
CNCB 3.17 354 P 40 49.30 1.0
S 41 29.00
LPB 3.46 353 P 40 52.00 0.4
ZOB0 3.72 353 P 40 54.90 -0.1
S 41 42.00
ANT 4.51 214 eP 41 03.50 -0.6
SIV 7.41 59 P 41 51.60 9.7X
YKA 90.16 340 eP 52 32.70 0.0
0.6s 0.40nm 3.5mb
S.D. = 1.2 on 7 of 8 obs.

? APR 03, 1993 15h 08m 31.97±12.27s
39.967 N ±67.8km 27.838 E ±47.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

EDC 0.38 3 iPg 08 39.50 -0.3
eSg 08 45.50
KCT 0.49 55 iPg 08 41.80 -0.1
CTT 1.26 21 ePn 08 55.80 0.4
YLV 1.32 62 ePn 08 56.30 -0.1
S.D. = 0.5 on 4 of 4 obs.

% APR 03, 1993 15h 20m 34.26±1.87s
36.896 N ±14.5km 30.228 E ±15.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.6 (ISK).

ELL 0.30 240 iPg 20 40.50 0.0
eSg 20 47.00
BCK 0.63 27 ePn 20 47.10 0.1
KHL 1.53 339 ePn 21 01.90 0.2
ALT 2.16 358 ePn 21 10.90 0.1
IZM 2.79 303 iPn 21 19.80 0.0
EYL 3.66 359 ePn 21 32.00 -0.3
S.D. = 0.2 on 6 of 6 obs.

* APR 03, 1993 15h 29m 23.32±0.90s
27.228 S ±14.2km 176.453 W ±18.8km
DEPTH = 33.0km (normol)
4.6mb (6 obs.)
KERMADEC ISLANDS REGION (177)

RAO 2.39 212 eP 30 02.50 1.4
S 30 31.80
DZM 16.37 285 iPc 33 18.90 6.5X
BRS 27.31 263 iP 35 07.50 0.4
TOO 33.55 242 eP 36 01.80 -0.5
CTA 34.79 274 iP 36 03.00 -10.2X
ASPA 44.74 263 eP 37 35.50 -0.1
0.8s 4.90nm 4.4mb
WB2 45.43 268 eP 37 39.10 -2.0

0.9s 4.60nm 4.4mb
WRA 45.44 268 P 37 39.80 -1.4
0.3s 0.60nm 4.0mb
SPA 62.93 180 iPc 39 48.00 -0.6
0.9s 19.09nm 5.2mb
MAT 76.45 324 eP 41 11.00 -0.5
0.8s 5.97nm 4.7mb
CN2 88.46 322 eP 42 14.30 0.9
1.0s 4.60nm 4.7mb
epP 42 23.00 27kmX
TIA 88.83 312 eP 42 16.50 1.2
TIY 92.79 311 eP 42 35.30 1.6
XAN 93.30 307 P 42 37.80 1.7
LZH 97.93 306 eP 43 03.00 5.7X
N82 145.80 353 PKP 48 58.70 -0.9
0.9s 7.70nm
UPP 145.97 347 iPKP 48 58.80 -1.0
HFS 146.38 351 ePKP 49 00.20 -0.3
0.6s 10.60nm
S.D. = 1.2 on 15 of 18 obs.

? APR 03, 1993 16h 02m 42.60±3.03s
7.063 S ±17.3km 130.065 E ±19.5km
DEPTH = 135.9 ±31.4 km
4.2mb (2 obs.)
TANIMBAR ISLANDS REG., INDONESIA (281)

MTN 5.84 170 eP 04 09.30 1.1
0.3s 154.00nm 5.7mb X
eS 05 12.00
KNA 8.73 188 eP 04 46.00 -1.1
0.2s 40.00nm 5.7mb X
eS 06 17.00
WB2 13.46 162 iPc 05 48.20 -1.2
0.4s 31.20nm 5.1mb X
eS 08 09.60
ASPA 16.92 168 eP 06 34.50 1.8
eS 09 28.50
MBL 17.16 214 eP 06 34.50 -1.1
eS 09 31.00
WARB 19.29 189 eP 07 01.00 1.5
NANU 20.82 221 eP 07 15.00 0.0
QLP 23.64 147 eP 07 41.00 -1.5
STK 26.93 158 eP 08 19.90 6.9X
0.7s 1.10nm 3.6mb
GUN 55.04 311 P 12 02.40 -0.6
0.4s 6.00nm 4.8mb
PKI 55.21 311 P 12 05.00 0.8
KKN 55.43 311 P 12 05.00 -0.6
DMN 55.46 310 P 12 07.00 1.1
GKN 56.02 311 P 12 09.40 -0.4
ZOB0 150.65 142 PKP 22 26.00 10.1X
e 25 05.00
S.D. = 1.3 on 13 of 15 obs.

APR 03, 1993 17h 01m 56.49±1.04s
7.221 N ±7.0km 76.995 W ±6.3km
DEPTH = 35.4 ±9.6 km
4.5mb (8 obs.)
NORTHERN COLOMBIA (99)

UPA 3.06 305 iPd 02 42.45 -1.2
iS 03 12.89
BOG 3.89 131 eP 03 01.00 5.2X
eS 03 44.00
DVD 5.54 283 eP 03 12.77 -6.0X
BRU 5.73 286 eP 03 22.22 0.3
eS 04 45.90
PSO 6.00 183 eP 03 30.00 4.3X
SDV 6.51 75 ePnc 03 34.30 1.6
iSn 04 46.60
TOV 7.57 70 ePc 03 47.60 0.3
iPP 03 48.90
eSn 05 09.80
CEOS 8.76 78 iPc 04 02.20 -1.7
iS 05 37.20
GUAC 10.06 72 iP 04 20.80 -1.0
OLLA 10.45 74 iP 04 25.30 -1.9
PCJ 10.46 359 iPd 04 30.48 3.3X
STH 10.79 1 iPd 04 33.02 1.2
BBJ 11.10 359 iPd 04 38.26 2.3
ARE 24.15 167 eP 07 15.00 4.1X
ZOB0 24.94 159 P 07 19.50 0.7
LPB 25.19 160 P 07 23.00 2.0
CNCB 25.49 160 P 07 25.00 1.0
CCH 26.70 156 eP 07 33.00 -1.9
GOGA 26.74 348 eP 07 36.09 1.3

0.7s 8.95nm 4.5mb
SIV 27.94 146 P 07 56.40 10.6X
ALQ 38.66 320 eP 09 18.71 -0.1
0.9s 6.68nm 4.4mb
e 09 30.13
EEO 39.32 358 eP 09 28.50 4.6X
LMN 39.90 13 eP 09 33.50 4.7X
TCA 40.14 163 e(P) 09 31.30 0.4
RSSD 43.69 332 eP 09 59.63 -0.4
1.2s 8.60nm 4.4mb
SRU 43.79 322 eP 10 00.90 0.0
EMUT 44.39 322 eP 10 05.75 -0.1
MSU 44.47 320 eP 10 06.99 0.5
DAU 45.03 323 eP 10 11.14 0.1
BW06 45.56 326 eP 10 14.31 -0.8
1.4s 9.25nm 4.5mb
ULM 45.70 343 eP 10 29.00 13.2X
JAO 46.46 1 ePc 10 21.70 0.0
FCC 53.07 349 eP 11 15.00 2.7X
VGB 53.67 323 eP 11 16.37 -0.7
FRB 56.75 4 eP 11 38.00 -1.0
YKA 61.61 341 eP 12 10.30 -2.4
0.6s 2.20nm 4.5mb
KLU 73.70 332 eP 13 27.71 -0.8
N82 82.87 29 P 14 19.40 0.7
1.0s 4.70nm 4.5mb
KHC 84.97 41 eP 14 31.00 1.4
GEC2 85.08 42 eP 14 30.30 0.1
0.9s 2.34nm 4.4mb
e 14 49.30
NUR 89.46 29 iP 14 51.30 0.3
0.6s 3.50nm 4.8mb
KAF 89.84 27 eP 14 43.80 -9.0X
HYB 145.60 44 ePKP 21 33.50 -0.3
e 21 41.00
ASPA 146.15 238 ePKP 21 33.40 -1.1
1.2s 6.60nm
WB2 147.09 244 iPKPc 21 35.40 -0.7
0.5s 6.40nm
WRA 147.10 244 PKP 21 36.00 -0.1
0.9s 0.70nm
GBA 147.25 51 PKP 21 38.00 1.6
S.D. = 1.2 on 36 of 47 obs.

APR 03, 1993 17h 56m 48.47±0.69s
26.400 S ±5.9km 27.459 E ±7.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE). mbLg 2.8 (BUL).

PRY 0.53 179 iPc 56 59.70 0.7
S 57 05.50
KSR 0.73 316 eP 57 03.50 0.3
S 57 11.50
BFS 0.78 230 iPc 57 05.00 0.8
S 57 14.60
SLR 0.99 48 iPc 57 08.10 0.2
S 57 20.00
SEK 1.92 176 eP 57 24.60 2.3X
S 57 48.00
SWZ 2.06 247 eP 57 26.40 2.1X
S 57 50.20
BFT 2.43 74 eP 57 30.00 0.3
BLF 2.92 202 eP 57 35.00 -1.7
S 58 11.10
BUL 6.32 10 iPn 58 24.10 -0.6
iSn 59 33.00
iSg 00 05.50
S.D. = 1.1 on 7 of 9 obs.

* APR 03, 1993 18h 18m 31.65±1.59s
3.890 S ±8.8km 141.419 E ±9.1km
DEPTH = 49.3 ±17.0 km
4.6mb (6 obs.)
NEW GUINEA, PAPUA NEW GUINEA (202)

MNDI 3.17 135 eP 19 22.00 1.5
eS 20 05.00
MDG 4.55 107 eP 19 40.60 0.9
YYYY 5.10 117 eP 19 47.60 -0.1
FINC 6.96 113 eP 20 11.80 -1.8
PMG 7.91 134 eP 20 25.00 -1.8
MTN 13.51 228 eP 21 43.00 0.3
0.3s 61.00nm 5.9mb X
eS 24 05.00
CTA 16.78 164 iP 22 26.00 1.2
KNA 17.14 226 eP 22 29.70 0.3

03d 18h

WB2	17.38 203	eS	25 34.00	
	0.4s	16.60nm	22 31.10	-1.3
				4.5mb
ASPA	20.96 200	eP	25 39.70	
	0.6s	18.20nm	23 12.00	-1.0
				4.6mb
Z	22s	0.20um		3.5Msz
QLP	22.73 173	eP	27 01.50	
RMQ	23.54 163	eP	23 21.90	-8.6X
			23 40.40	1.9
WARB	26.31 211	eP	24 02.00	-2.7
STK	27.84 180	eP	24 20.60	2.0
	0.8s	1.00nm		3.5mb X
ARMA	28.10 161	eP	24 20.60	-0.4
XAN	48.61 324	P	27 12.80	0.2
CN2	49.60 345	eP	27 19.20	-0.8
	0.8s	2.90nm		4.4mb
LZH	53.06 322	eP	27 26.00	23kmX
	1.2s	20.00nm	28 02.50	16.0X
GTA	57.63 322	eP	28 19.50	0.1
GUN	62.08 304	P	28 51.20	0.7
PKI	62.35 304	P	28 52.40	0.2
KKN	62.53 304	P	28 53.80	0.5
DMN	62.61 304	P	28 54.40	0.5
GKN	63.14 304	P	28 57.00	-0.2
	0.4s	6.00nm		5.1mb
GBA	65.81 287	P	29 14.00	-0.5
YAK	66.33 354	eP	29 15.70	-1.3
	1.2s	25.00nm		5.1mb
WMO	67.62 321	eP	29 27.00	1.3
CNCB	144.41 126	PKP	38 04.00	-1.8
LPB	144.46 126	ePKP	38 07.00	1.3
ZOBO	144.58 125	iPKPc	38 03.80	-2.3X
SIV	150.25 132	PKP	38 32.00	17.5X
	S.D. = 1.3 on 27 of 31 obs.			

• APR 03, 1993 19h 01m 27.32 ± 0.97s
 2.678 S ± 8.0km 138.632 E ± 23.0km
 DEPTH = 33.0km (normal)
 4.8mb (5 obs.) 3.9Msz (1 obs.)
 IRIAN JAYA, INDONESIA (201)

MTN	12.54 216	eP	04 26.10	-0.2
WB2	17.66 193	iPd	05 31.30	-1.3
	0.3s	11.10nm		4.5mb
ASPA	21.36 192	iPc	06 13.60	-0.6
	0.5s	16.50nm		4.7mb
Z	18s	0.40um		3.9Msz
WARB	26.05 205	eP	07 00.00	0.4
STK	29.18 175	eP	07 30.20	2.3
	0.6s	1.40nm		3.9mb
LZH	50.41 323	eP	10 24.50	0.6
	1.0s	25.00nm		5.2mb
GUN	59.11 305	P	10 29.50	17kmX
PKI	59.37 304	P	11 28.20	0.5
KKN	59.55 304	P	11 29.40	-0.1
DMN	59.63 304	P	11 31.00	0.4
GKN	60.16 304	P	11 32.00	0.8
YAK	64.88 355	eP	11 34.20	-0.5
	1.0s	25.00nm		5.3mb
GEC2	114.37 324	ePKP	20 04.60	-1.1
	0.6s	0.42nm		
LKO	143.80 282	PKP	20 58.10	-3.9X
	S.D. = 1.1 on 13 of 14 obs.			

? APR 03, 1993 19h 14m 54.34 ± 6.55s
 30.516 S ± 25.8km 71.632 W ± 57.3km
 DEPTH = 164.2 ± 33.9 km
 NEAR COAST OF CENTRAL CHILE (135)

RTBS	2.19 122	ePc	15 31.60	-1.3
		(S)	16 07.60	
ZON	2.73 113	eP	15 40.60	1.1
RTCV	2.97 118	ePd	15 42.70	0.2
CFA	3.11 111	e(P)	15 44.70	0.5
MDZ	3.34 136	e(P)	15 51.70	4.5X
RFA	5.01 149	ePd	16 09.20	0.2
MRA	5.40 112	ePd	16 13.70	-0.3
CYA	5.49 69	ePd	16 15.40	0.1
TCA	6.10 100	eP	16 23.00	-0.5
	S.D. = 0.9 on 8 of 9 obs.			

? APR 03, 1993 19h 32m 09.57 ± 4.06s
 8.738 S ± 38.4km 118.262 E ± 28.3km
 DEPTH = 33.0km (normal)
 4.5mb (7 obs.)
 SUMBAWA REGION, INDONESIA (285)

MBL	12.44 173	eP	35 07.00	-0.3
	0.3s	5.00nm		5.1mb
MTN	13.28 109	eP	37 23.00	
NANU	13.99 191	eP	35 17.00	-1.4
	0.3s	3.00nm		4.5mb
MEEK	17.81 179	eP	37 55.00	
			36 19.00	2.4
WARB	19.09 156	eP	39 28.00	
	0.4s	10.00nm		4.4mb
WB2	19.14 127	iPd	36 32.30	-0.7
	0.5s	5.60nm		4.1mb
MRWA	20.48 186	eP	40 02.80	
	0.5s	5.00nm		4.1mb
ASPA	21.08 137	iPc	40 27.00	0.4
	0.5s	13.30nm		4.6mb
MUN	23.20 184	eP	37 32.00	17.4X
			41 36.00	
QLP	30.35 129	eP	38 21.00	0.3
STK	31.62 140	eP	38 31.50	-0.3
	0.5s	4.30nm		4.6mb
BRS	37.50 124	iPc	39 23.20	0.9
TOO	37.81 144	eP	39 26.00	1.2
	S.D. = 1.3 on 12 of 13 obs.			

& APR 03, 1993 20h 53m 49.70s
 36.927 N 121.578 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.6 (BRK), 3.2 (GS).
 Felt (III) at Aptos. Also felt
 in the Gilroy area.

SAO	0.19 147	eP	53 52.68	-1.0
GCC	0.35 287	iPc	53 56.53	-0.2
MHC	0.42 353	iPd	53 58.26	0.2
ARN	0.42 5	ePd	53 58.12	-0.1
LLA	0.60 121	iPc	54 00.81	-0.8
PRS	0.62 164	iPd	54 01.15	-0.9
			54 09.77	
STAN	0.67 315	iPd	54 02.73	-0.4
		iS	54 12.81	
PCC	0.86 312	iPd	54 05.79	-0.9
		eS	54 18.62	
BKS	1.08 331	eP	54 08.93	-1.6
		eS	54 24.89	
ZSP	1.15 332	iPc	54 10.27	-1.4
		eS	54 28.50	
PHAM	1.45 138	eP	54 13.44	-3.2
CMB	1.46 40	iPc	54 14.99	-1.8
PKEM	1.47 126	eP	54 14.51	-2.3
FRI	1.50 87	eP	54 13.95	-3.3
NTYM	1.69 330	eP	54 17.67	-2.4
		S	54 40.95	
BCH	2.12 145	eP	54 22.38	-4.0
MEMM	2.23 70	eP	54 27.68	-0.1
ORV	2.63 1	eP	54 31.22	-2.2
BONR	2.80 68	eP	54 35.78	-0.5
		S	55 20.59	
ISA	2.81 116	eP	54 33.13	-3.0
KVN	3.47 51	ePn	54 44.46	-1.2
		ePg	54 53.42	
TNP	3.65 70	ePn	54 47.46	-0.8
GSC	4.19 111	eP	54 52.95	-2.8
TPNV	4.27 88	(P)	54 59.04	2.0
LBFM	4.42 357	eP	54 59.53	0.4
	25 obs. associated			

% APR 03, 1993 21h 00m 19.30 ± 0.72s
 26.954 S ± 6.4km 26.776 E ± 7.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.5 (PRE).

BFS	0.06 8	iPd	00 21.00	0.1
		S	00 21.80	
PRY	0.62 88	eP	00 31.20	-0.6
KSR	1.09 6	eP	00 40.20	-0.2

SWZ	1.31 260	S	00 53.50	
SEK	1.56 151	eP	00 43.40	-0.8
		eP	00 47.00	-0.9
		S	01 10.50	
SLR	1.82 48	iPc	00 52.50	0.9
		S	01 13.00	
BLF	2.21 193	eP	00 58.70	1.4
	S.D. = 1.1 on 7 of 7 obs.			

APR 03, 1993 21h 11m 02.80 ± 0.99s
 37.200 N ± 9.0km 21.427 E ± 6.1km
 DEPTH = 5.0km (geophysicist)
 3.5mb (1 obs.)
 SOUTHERN GREECE (368)
 ML 3.8 (THE), 3.7 (ATH).

VLS	1.18	326	ePg	11 25.00	-0.3
VLI	1.30	111	ePb	11 37.80	10.4X
AGG	1.95	21	iPb	11 36.24	-0.7
			eSb	11 57.44	
ATH	1.98	66	ePb	11 41.40	4.2X
			eSb	12 07.00	
IGT	2.48	340	ePn	11 45.04	0.5
			eSn	12 12.12	
KEK	2.82	334	ePg	11 56.50	7.2X
SRN	2.90	338	ePn	11 50.90	0.4
LIT	3.01	16	ePn	11 52.52	0.4
			eSn	12 23.48	
LSK	3.02	348	ePn	11 59.00	6.8X
KZN	3.11	5	ePn	11 53.50	0.0
PAIG	3.25	32	ePn	11 55.32	0.0
			eSn	12 31.36	
TPE	3.28	341	ePn	11 50.00	-5.9X
FNA	3.58	359	ePn	12 00.72	0.6
			eSn	12 37.24	
VLO	3.60	336	ePn	12 00.70	0.4
THE	3.63	19	ePn	12 01.24	0.4
OUR	3.71	32	ePn	12 02.40	0.4
GRG	3.83	11	ePn	12 03.80	0.1
NPS	3.90	118	ePb	12 20.00	15.3X
SOH	3.92	22	ePn	12 04.64	-0.3
OHR	3.94	353	iPn	12 05.30	0.1
			i	12 12.20	
			i	12 47.50	
			i	12 57.50	
			i	13 04.80	
KNT	4.12	16	ePn	12 07.80	0.1
LCI	4.14	320	P	12 10.00	2.0
			eSn	12 44.00	
VAY	4.21	12	iPn	12 09.60	0.6
SRS	4.26	23	ePn	12 09.08	-0.7
TIR	4.32	344	ePn	12 13.50	2.9X
SOI	4.35	283	P	12 18.70	7.6X
ROI	4.49	303	P	12 17.20	4.1X
PHP	4.54	351	ePn	12 17.20	3.4X
			iSn	13 17.70	
LACI	4.63	344	ePn	12 13.50	-1.4
SKO	4.77	0	ePn	12 22.50	5.5X
			i	12 27.50	
			i	12 40.50	
			i	13 04.00	
ORI	4.83	308	P	12 21.50	3.5X
BRT	4.93	319	P	12 18.80	-0.5
			eSn	13 06.00	
MMN	5.04	304	P	12 15.20	-5.6X
SGO	5.83	307	P	12 36.10	4.1X
			eSn	13 30.00	
VBY	9.50	333	iPn	13 20.60	-2.6X
			eSn	15 01.40	
VOY	10.47	330	eP	13 34.40	-2.2
			eS	15 22.50	
GEC2	12.93	337	ePn	14 11.20	1.3
			e	14 21.00	
			e	14 27.10	
NUR	23.42	4	eP	16 21.00	7.7X
NB2	24.72	348	P	16 24.80	-1.2
	0.5s	0.50nm			3.5mb
GKN	53.17	80	P	20 24.40	0.1
DMN	53.72	81	P	20 28.60	0.2
GUN	54.19	80	P	20 32.00	0.0
S.D. = 0.9 on 26 of 42 obs.					
APR 03, 1993 21h 50m 04.20±0.60s					
16.990 N ± 4.8km 62.215 W ± 5.3km					
DEPTH = 10.0km (geophysicist)					
LEEWARD ISLANDS (92)					
ML 3.0 (FDF), MD 3.1 (TRN).					

% APR 04, 1993 02h 06m 06.82±3.92s
43.180 N ±16.2km 18.148 E ±24.9km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.3 (TTG).

BRY	0.40	134	iPgc	06	15.12	0.0
			iSg	06	22.75	
NKY	0.72	120	iPgc	06	20.63	-0.5
			iSg	06	33.40	
HCV	0.78	161	iPgd	06	21.28	-0.7
			iSg	06	34.21	
PLE	0.92	80	iPgc	06	23.75	-0.8
			iSg	06	39.00	
BDV	1.03	151	iPgd	06	26.00	-0.2
			iSg	06	42.76	
TTG	1.11	132	iPgd	06	27.62	0.0
			iSg	06	46.15	
IVA	1.32	103	iPgc	06	31.78	0.5
			iSg	06	52.81	
PVY	1.46	113	iPnc	06	34.12	0.7
			iSn	06	57.13	
ULC	1.46	146	iPnc	06	34.08	0.8
			iSn	06	56.71	

S.D. = 0.7 on 9 of 9 obs.

* APR 04, 1993 02h 52m 24.72±3.41s
7.567 S ±17.7km 128.548 E ±14.5km
DEPTH = 53.0 ± 34.0 km
4.0mb (1 obs.)
BANDA SEA (280)

MTN	5.83	154	eP	53	51.40	0.7
	0.3s	104.00nm			5.8mb X	
			eS	54	53.00	
KNA	8.14	179	eP	54	23.20	0.3
	0.3s	21.00nm			5.5mb X	
			eS	55	47.00	
WB2	13.53	156	eP	55	31.90	-3.9X
			eS	57	50.70	
MBL	15.92	211	eP	56	06.00	-0.9
			eS	58	53.00	
ASPA	16.81	163	iPd	56	16.00	-2.1
			i	56	22.60	
			e	56	43.20	
			eS	59	11.50	
NANU	19.48	219	eP	56	52.00	1.8
CTA	21.20	128	iPc	57	09.00	0.9
STK	27.07	155	eP	58	04.10	-0.2
	0.5s	2.00nm			4.0mb	
GUN	54.25	312	P	01	48.20	0.0
PKI	54.41	312	P	01	49.20	-0.2
DMN	54.66	312	P	01	50.60	-0.5
GKN	55.22	312	P	01	55.20	0.1
CNCB	150.77	146	iPKPd	12	16.30	7.8X
ZOBO	151.13	145	PKP	12	16.00	6.9X

S.D. = 1.2 on 11 of 14 obs.

& APR 04, 1993 02h 57m 59.70s
61.783 N 147.130 W
DEPTH = 37.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.6 (AEIC).

SCM	0.11	298	iP	58	05.84	-0.3
			eS	58	11.21	
SML	0.57	273	iP	58	10.35	-1.1
			eS	58	19.56	
KLU	0.65	116	iP	58	11.60	-0.9
			eS	58	21.12	
VLZ	0.76	149	iP	58	12.96	-1.0
			eS	58	23.77	
TZL	0.85	71	eP	58	14.60	-0.7
			eS	58	26.14	
GHO	0.85	270	iP	58	14.35	-1.1
PLRM	0.97	260	iP	58	16.39	-0.6
PMR	0.97	260	eP	58	15.91	-1.1
			eS	58	28.37	
SDG	1.05	44	eP	58	16.96	-1.3
			eS	58	30.67	
PMS	1.28	246	P	58	22.00	0.5
PTE	1.30	226	eP	58	22.25	0.6
PWA	1.32	265	P	58	22.00	0.1
CVA	1.41	151	eP	58	23.48	0.3
PAX	1.42	32	eP	58	22.26	-1.2
HIN	1.42	167	eP	58	23.88	0.4

SGAM	1.59	143	eP	58	25.69	-0.2
GLB	1.62	101	eP	58	25.36	-1.0
			eS	58	46.46	
HUR	1.67	317	eP	58	26.39	-0.7
MPA	1.69	221	eP	58	28.19	0.9
SUA	1.76	261	eP	58	28.70	0.3
RND	1.81	335	eP	58	28.46	-0.7
RAGM	1.84	139	eP	58	30.35	0.9
SLKM	1.97	231	eP	58	31.37	0.0
SEW	2.03	215	eP	58	33.11	1.0
SKT	2.09	277	iP	58	33.12	0.1
MCK	2.13	338	eP	58	33.34	-0.2
CROM	2.19	116	eP	58	34.20	-0.3
TRF	2.22	320	eP	58	34.35	-0.7
NKA	2.24	244	eP	58	36.80	1.7
KAIM	2.29	143	eP	58	35.10	-0.7
TGL	2.32	114	eP	58	35.40	-1.0
MID	2.40	170	P	58	38.00	0.7
BALM	2.42	106	iP	58	36.73	-1.1
SPU	2.44	258	eP	58	37.72	-0.3
CPAM	2.46	260	eP	58	38.29	-0.1
CRP	2.46	260	ePc	58	38.68	0.2
			eS	59	09.08	
CKN	2.49	259	eP	58	39.21	0.5
CKT	2.50	259	eP	58	38.88	-0.1
CP2	2.50	260	eP	58	39.40	0.3
			eS	59	10.48	
CKL	2.57	259	eP	58	39.36	-0.5
BGL	2.57	261	eP	58	40.23	0.2
HDA	2.63	2	eP	58	40.45	-0.3
SNH	2.64	126	eP	58	42.03	1.2
WRH	2.73	351	eP	58	42.31	0.2
CTGM	2.91	104	eP	58	43.94	-0.9
DFR	2.94	249	eP	58	45.33	0.1
YAH	2.98	116	eP	58	44.35	-1.6
CNPM	3.04	224	eP	58	46.21	-0.3
FBA	3.14	355	eP	58	47.14	-0.8

49 obs. associated

? APR 04, 1993 04h 01m 53.91±4.63s
5.623 S ±45.6km 146.680 E ±55.2km
DEPTH = 219.3 ± 22.0 km
4.6mb (2 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY	0.94	229	eP	02	26.20	0.5
MDG	0.97	292	eP	02	25.40	-0.3
LAT	1.08	163	eP	02	26.60	0.1
			eS	02	52.40	
PMG	3.79	173	eP	02	54.00	-0.3
WB2	18.61	219	iPc	05	56.60	-0.8
	0.6s	15.10nm			4.7mb	
ASPA	21.76	213	eP	06	29.60	0.9
	0.3s	5.00nm			4.5mb	

S.D. = 1.0 on 6 of 6 obs.

APR 04, 1993 04h 08m 09.96±0.66s
10.910 N ± 8.5km 62.573 W ± 5.8km
DEPTH = 28.5 ± 7.8 km
NEAR COAST OF VENEZUELA (97)
MD 3.8 (TRN).

TCE	0.83	105	eP	08	26.92	1.2
			eS	08	33.81	
TRN	1.18	103	eP	08	30.53	0.0
			eS	08	42.91	
TPP	1.25	118	eP	08	31.82	0.2
			eS	08	41.31	
PALR	1.32	274	iPd	08	30.50	-2.1
			iS	08	40.10	
GRW	1.53	36	eP	08	36.81	1.1
			eS	08	56.68	
TBH	1.54	106	eP	08	34.81	-1.0
			eS	08	52.70	
TPR	1.78	81	eP	08	37.90	-1.4
			eS	08	57.66	
BOT	1.84	82	eP	08	38.38	-1.7
			eS	08	58.62	
SVB	2.68	29	eP	08	51.83	-0.3
			eS	09	27.66	
SVV	2.74	29	eP	08	52.71	-0.2
			eS	09	28.60	
SLB	3.26	27	eP	08	59.73	-0.7
			eS	09	37.19	
SLW	3.48	27	eP	09	03.78	0.2
LLAV	4.18	264	eP	09	17.40	3.8X
OLLA	4.25	258	eP	09	16.50	1.9

CEOS	5.97	252	iP	09	38.40	-0.5
			iS	10	45.80	
TOV	7.19	262	eP	09	57.40	1.4
			eS	11	19.00	
SDV	8.19	257	ePn	10	08.50	-1.6

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

? APR 04, 1993 04h 40m 02.53±2.13s
32.693 S ±18.3km 70.152 W ±25.4km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

JACH	0.37	272	iP	40	18.23	0.4
			iS	40	29.14	
PEL	0.63	225	iP	40	19.33	-0.3
			iS	40	30.93	
FCH	0.64	190	iP	40	19.19	-0.9
			(S)	40	29.96	
SAN	0.87	209	iP	40	22.13	0.2
			iS	40	34.73	
CHCH	1.31	199	iP	40	26.80	0.0
			iS	40	43.84	
LCCH	1.42	236	iP	40	28.38	0.2
			iS	40	45.97	
CACH	1.47	195	(P)	40	30.00	1.1
			iS	40	48.55	
LNV	1.64	220	iP	40	30.28	-0.6
			iS	40	49.69	

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

& APR 04, 1993 04h 46m 24.29s
63.250 N 151.129 W
DEPTH = 13.6km
CENTRAL ALASKA (1)
<AEIC>. ML 2.5 (AEIC).

TRF	0.43	62	iP	46	32.73	-0.6
			S	46	40.05	
HUR	0.73	111	eP	46	38.64	0.3
			eS	46	49.02	
RND	1.04	80	eP	46	43.39	-0.2
			eS	46	58.68	
MCK	1.10	63	iP	46	44.45	-0.1
			eS	46	59.75	
SKT	1.29	188	iP	46	47.32	-0.5
			eS	47	04.56	
NEA	1.61	33	eP	46	52.71	0.3
			S	47	14.05	
PWA	1.71	160	eP	46	54.30	0.5
GHO	1.80	144	eP	46	55.33	0.1
			S	47	19.73	
SUA	1.80	174	eP	46	55.02</	

APR 04, 1993 04h 47m 24.12±0.70s 63.157 N ± 7.0km 151.169 W ± 6.5km DEPTH = 10.0km (geophysicist) CENTRAL ALASKA (1) ML 2.8 (GS).				45.389 N ± 66.0km 150.920 E ± 47.7km DEPTH = 33.0km (normal) 3.1mb (1 obs.) KURIL ISLANDS (221)				TOV 4.33 46 IPnd 30 40.40 0.9 IPP 30 40.80 ISn 31 30.10 CEOS 5.09 63 IPc 30 49.60 0.1 CANV 5.88 43 eP 30 59.40 -0.6 MORO 6.13 48 eP 31 03.10 -0.3 UPA 6.90 289 ePd 31 08.11 -5.6X IS 32 21.33 PSO 7.05 219 eP 31 16.50 0.4 LLAV 7.10 58 ePc 31 16.30 -0.2 PCJ 11.67 340 Pd 32 17.82 1.1 GWJ 11.85 342 Pd 32 20.79 1.7 STH 11.87 342 Pd 32 20.88 1.5 BBJ 12.30 340 Pd 32 26.69 1.7 ZOBO 23.37 168 P 34 29.90 -0.1 0.9s 20.55nm 4.6mb LPB 23.63 168 P 34 32.00 -0.3 e 40 05.00 CNCB 23.92 168 P 34 36.00 0.7 e 39 45.00 SIV 25.47 153 P 35 02.40 13.3X BAO 33.25 132 eP 35 59.00 0.7 PPD 35.60 144 eP 36 18.30 0.1 LTX 36.64 312 eP 36 25.59 -1.3 LMN 39.58 9 ePc 36 54.50 3.4X EEO 40.09 353 eP 36 58.50 3.3X GOL 43.86 323 ePc 37 26.05 -0.4 0.6s 7.37nm 4.5mb SRU 46.71 319 eP 37 48.04 -0.9 epP 38 23.57 158km JAO 46.96 358 ePc 37 49.50 -0.9 ULM 47.41 340 eP 37 55.00 1.1 MSU 47.47 318 eP 37 54.13 -0.8 epP 38 30.15 160km DAU 47.90 320 eP 37 57.34 -0.9 epP 38 32.83 157km BW06 48.24 324 eP 37 59.11 -1.7 0.6s 1.83nm 3.9mb FCC 54.38 347 ePc 38 48.00 1.8 DPW 56.15 325 eP 38 57.78 -1.5 FRB 56.97 2 eP 39 03.00 -1.6 YKA 63.39 340 eP 39 46.60 -1.6 0.6s 7.70nm 4.8mb LIC 67.42 86 P 40 13.80 -1.1 KIC 67.70 86 P 40 15.50 -1.1 NB2 81.30 29 P 41 33.60 0.1 0.6s 1.30nm 3.8mb GEC2 82.75 42 ePc 41 41.50 0.1 0.6s 0.59nm 3.5mb ASPA 149.22 234 iPKPd 49 05.30 3.9X 0.9s 6.80nm WB2 150.45 241 ePKP 49 08.10 4.8X 0.3s 8.40nm e 49 48.30 WRA 150.46 241 PKP 49 06.20 2.9X 0.8s 1.00nm S.D. = 1.2 on 33 of 40 obs.							
& APR 04, 1993 05h 21m 25.27s 35.940 N 120.494 W DEPTH = 7.6km 4.0mb (2 obs.) CENTRAL CALIFORNIA (39) <GM-P>. MD 4.3 (GM). ML 4.3 (BRK). Felt (V) at Parkfield and (III) at Avenal, Coolingo, San Miguel and Shandon. Also felt at Arroyo Seco, King City and San Luis Obispo.				? APR 04, 1993 06h 53m 54.68±0.99s 37.836 N ± 9.1km 26.742 E ± 12.4km DEPTH = 5.0km (geophysicist) DODECANESE ISLANDS (369) MD 3.5 (ATH). 3.3 (ISK).				APR 04, 1993 07h 43m 27.69±0.47s 38.559 N ± 6.1km 12.805 E ± 6.5km DEPTH = 25.3 ± 9.6 km SICILY (398)				? APR 04, 1993 08h 19m 29.25±3.44s 16.797 N ± 25.8km 100.198 W ± 18.4km DEPTH = 33.0km (normal) NEAR COAST OF GUERRERO, MEXICO (58)			
PHAM 0.13 143 iPd 21 28.64 0.5 PRI 0.24 325 iPc 21 31.02 0.6 PKEM 0.33 69 iPc 21 33.84 1.7 LLA 0.77 332 iPd 21 40.61 0.1 PRS 0.81 299 iPc 21 40.54 -0.7 BCH 0.82 156 iPd 21 40.95 -0.6 SAO 1.13 317 eP 21 45.71 -0.9 FRI 1.23 31 iPd 21 47.49 -0.8 GCC 1.63 312 iPd 21 52.65 -1.7 ARN 1.64 330 iPc 21 53.64 -0.9 ISA 1.67 99 eP 21 53.70 -1.3 STAN 1.99 318 eP 21 58.22 -1.4 CMB 2.09 2 iPd 22 00.30 -0.9 MEMM 2.13 35 iPd 22 02.40 0.8 PCC 2.17 316 ePc 21 59.83 -2.4 BKS 2.38 325 iPd 22 03.73 -1.6 ZSP 2.45 325 iPc 22 04.79 -1.4 BONR 2.67 40 eP 22 09.81 0.1 SSK 2.87 126 ePn 22 10.66 -1.8 NTYM 3.00 325 eP 22 11.80 -2.1 GSC 3.07 101 eP 22 13.14 -2.0 TNP 3.38 50 ePn 22 19.22 -0.5 PEC 3.42 126 ePn 22 17.70 -2.3 TPNV 3.57 72 ePnd 22 21.94 -0.3 KVN 3.64 31 ePn 22 23.80 0.4 ePg 22 30.34 ORV 3.70 348 eP 22 23.77 -0.2 PLM 3.95 130 eP 22 25.61 -2.1 GLA 5.49 120 ePn 22 47.75 -1.8 FHC 5.57 332 eP 22 49.98 -0.6 ARUT 5.95 70 ePn 22 55.33 -0.6 MSU 7.12 66 ePn 23 12.28 -0.2 ePg 23 35.62 DUG 7.40 53 ePn 23 16.61 0.3 ePg 23 46.02 eS 25 20.52 HVU 8.38 44 (Pn) 23 29.28 -0.8 SRU 8.53 65 ePn 23 32.74 0.5 DAU 8.53 56 ePn 23 32.74 0.3 VGB 9.57 359 (P) 23 50.46 4.1 LON 10.85 355 (Pn) 24 03.30 -0.6 BW06 10.87 48 ePn 24 03.16 -1.3 NEW 12.56 10 eP 24 27.93 0.8 RSSD 15.01 52 eP 24 59.68 0.1 0.9s 2.74nm 3.7mb MIAR 22.01 86 iPd 26 20.76 -1.0 0.8s 7.79nm 4.2mb ULM 22.83 44 eP 26 32.00 2.3 FRB 41.77 32 eP 29 17.00 0.7 43 obs. associated				KUSJ 5.01 245 eP 40 36.60 -1.4 eS 41 29.80 ASAJ 6.03 261 eP 40 54.90 2.6X HOOJ 6.28 244 eP 40 56.60 0.8 eS 42 05.80 MRRJ 7.70 251 eP 41 16.70 1.0 YKA 52.92 35 eP 48 38.00 0.2 0.4s 0.10nm 3.1mb GUN 53.59 275 P 48 43.20 -0.4 DMN 54.32 275 P 48 48.80 -0.1 GKN 54.41 275 P 48 43.20 -6.2X S.D. = 1.1 on 6 of 8 obs.				ERC 0.55 198 P 43 37.60 -1.1 eSg 43 43.80 LVI 0.68 213 P 43 41.40 0.6 eSg 43 51.60 CVT 0.88 181 P 43 44.80 0.6 eSg 43 56.00 GIB 1.12 120 P 43 47.80 0.0 eSg 44 02.80 FAI 1.45 151 P 43 52.30 -0.2 SOI 2.60 100 P 44 09.50 0.5 TDS 2.96 67 P 44 13.80 -0.3 ROI 3.10 70 P 44 16.00 -0.1 PGF 4.93 325 Pn 44 44.60 2.5X Sn 45 31.40 SBF 6.67 324 Pn 45 06.80 0.2 LMR 6.74 317 Pn 45 07.20 -0.3 LRG 6.90 317 Pn 45 10.00 0.2 S.D. = 0.6 on 11 of 12 obs.				ACX 0.33 77 IP 19 37.50 0.0 iS 19 44.50 III 1.72 24 IP 19 56.50 -1.0 iS 20 20.00 CRX 2.64 11 eP 20 11.50 0.7 iS 20 44.00 UNM 2.70 21 eP 20 11.50 0.0 PPM 2.71 33 eP 20 11.50 -0.4 (S) 20 47.50 IIA 2.76 32 eP 20 13.00 0.9 (S) 20 50.00 MRX 3.04 342 eP 20 16.00 -0.2 iS 20 53.00 IISM 3.46 51 eP 20 22.00 -0.1 iS 21 02.00 CGX 4.24 313 (P) 20 40.50 7.2X S.D. = 0.7 on 8 of 9 obs.			
? APR 04, 1993 05h 39m 23.12±2.72s				APR 04, 1993 08h 24m 53.56±0.65s 43.063 N ± 6.8km 0.643 W ± 5.5km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 1.0 (STR).				? APR 04, 1993 08h 29m 33.91±0.38s 6.756 N ± 5.2km 72.937 W ± 6.2km DEPTH = 158.6km (3 depth phases) 4.2mb (6 obs.) NORTHERN COLOMBIA (99)				? APR 04, 1993 09h 36m 54.34±6.99s 8.688 S ± 64.3km 121.452 E ± 27.1km DEPTH = 235.8 ± 28.5 km 4.5mb (5 obs.) FLORES REGION, INDONESIA (286)			
				BOG 2.40 208 iPd 30 17.00 2.0 iS 30 48.00 SDV 3.11 47 iPnd 30 25.30 1.5 iSn 31 03.30											

04d 09h

KNA 10.02 135 eP 39 14.00 -0.3
 MTN 10.37 114 eP 39 18.00 -0.7
 0.3s 274.00nm 5.9mb X
 MBL 12.50 187 eP 39 45.00 -0.6
 0.4s 4.00nm 4.2mb
 NANU 14.92 202 eP 40 18.00 2.5
 0.4s 4.00nm 4.2mb
 WB2 16.76 133 iPd 42 55.00
 0.3s 35.20nm 5.3mb
 MEEK 18.05 188 iPc 43 41.40
 0.4s 44 18.00 -0.4
 WARB 18.09 165 eP 40 52.00 0.8
 0.3s 8.00nm 4.7mb
 ASPA 19.08 143 iPd 41 02.00 1.4
 0.4s 44 30.20
 MRWA 21.06 193 eP 41 20.70 -0.3
 COOL 22.09 181 eP 41 30.50 -0.5
 BAL 22.25 191 eP 41 31.00 -1.6
 KLB 23.05 188 eP 41 39.00 -1.3
 STK 29.71 144 iPd 42 41.00 0.3
 0.4s 3.30nm 4.3mb
 BRS 34.95 126 iPc 43 27.00 1.0
 0.5s 7.00nm 4.5mb
 S.D. = 1.3 on 14 of 14 obs.

? APR 04, 1993 09h 42m 51.75±11.48s
 18.940 N ± 76.6km 67.219 W ± 56.3km
 DEPTH = 33.0km (normol)
 MONA PASSAGE (89)

APR 0.67 136 P 43 04.80 0.0
 LRS 0.73 151 P 43 05.10 -0.6
 S 43 10.00
 MGP 0.94 172 P 43 08.60 0.1
 PORP 1.04 148 P 43 10.00 -0.1
 SJG 1.31 129 iP 43 14.00 0.1
 LPR 1.43 116 P 43 15.20 -0.4
 CPD 1.53 126 P 43 17.30 0.2
 S.D. = 0.4 on 7 of 7 obs.

% APR 04, 1993 09h 45m 23.32±0.77s
 32.336 S ± 8.6km 67.492 W ± 7.5km
 DEPTH = 10.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.97 319 ePc 45 41.70 0.0
 S 45 55.00
 RTLL 1.30 320 eP 45 47.50 0.0
 S 46 05.50
 MRA 1.51 93 iPc 45 50.50 0.1
 (S) 46 08.00
 RFA 2.56 198 ePd 46 05.60 0.0
 (S) 46 44.70
 TCA 2.66 69 e(P) 46 07.00 -0.1
 (S) 46 44.00
 S.D. = 0.1 on 5 of 5 obs.

% APR 04, 1993 10h 16m 57.30±1.20s
 39.192 N ± 6.2km 27.347 E ± 16.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

Izm 0.80 185 iPg 17 12.90 0.1
 iSg 17 24.40
 EDC 1.22 19 ePn 17 19.50 -0.5
 BNT 1.24 21 ePn 17 20.50 0.1
 KCT 1.31 36 iPn 17 21.00 0.2
 KHL 1.91 116 ePn 17 30.00 -0.3
 YLV 2.08 48 ePn 17 33.00 0.3
 S.D. = 0.4 on 6 of 6 obs.

* APR 04, 1993 11h 20m 16.34±0.73s
 27.443 N ± 16.8km 99.504 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 YUNNAN, CHINA (318)
 ML 3.6 (BJI).

KMI 3.71 128 ePn 21 15.50 0.3
 Z 10s 0.80um Pg 21 22.00

CD2 5.08 46 Pg 22 09.00
 GYA 6.46 97 Pn 21 54.20 0.2
 LSA 7.68 269 Pn 22 13.80 2.4
 XAN 10.43 49 P 22 48.50 -0.5
 GUN 12.09 275 P 23 11.40 -0.5
 0.4s 20.00nm 5.8mb
 PKI 12.51 274 P 23 00.00 -17.6X
 0.5s 14.00nm
 KKN 12.62 275 P 23 18.60 -0.3
 0.5s 24.00nm 5.7mb
 DMN 12.78 274 P 23 20.60 -0.5
 0.5s 14.00nm 5.4mb
 GKN 13.18 276 P 23 25.40 -1.0
 0.4s 6.00nm 5.1mb
 S.D. = 1.2 on 8 of 10 obs.

* APR 04, 1993 11h 35m 42.85±1.38s
 18.209 S ± 16.5km 69.829 W ± 14.3km
 DEPTH = 149.3 ± 11.3 km
 3.5mb (1 obs.)
 NORTHERN CHILE (123)

CNCB 2.24 52 iPd 36 22.80 1.0
 LPB 2.35 45 iPd 36 22.80 -0.2
 ARE 2.35 317 iPc 36 21.80 -1.1
 iS 36 48.80
 ZOBO 2.53 40 iPd 36 25.20 -0.1
 CCH 3.61 77 P 36 39.20 0.1
 YJA 5.66 135 ePc 37 07.60 1.2
 SIV 8.66 77 P 37 57.20 10.9X
 NNA 9.17 311 eP 37 48.50 -4.6X
 eS 38 51.00
 PPD 17.80 105 (P) 39 40.00 -2.7
 e 39 42.80
 LIC 68.35 75 P 46 30.80 0.3
 KIC 68.67 75 P 46 32.20 -0.2
 YKA 87.81 341 eP 48 17.30 1.5
 0.4s 0.20nm 3.5mb
 S.D. = 1.5 on 10 of 12 obs.

% APR 04, 1993 12h 20m 51.78±0.80s
 39.223 N ± 7.3km 29.125 E ± 9.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

ALT 0.78 102 ePg 21 07.00 -0.1
 KHL 0.95 161 ePg 21 10.00 0.1
 eSg 21 25.00
 KCT 1.18 330 iPn 21 13.90 0.0
 YLV 1.36 8 iPn 21 16.50 -0.3
 EDC 1.49 320 ePn 21 18.50 0.0
 EYL 1.56 30 ePn 21 20.00 0.3
 S.D. = 0.2 on 6 of 6 obs.

? APR 04, 1993 12h 25m 22.64±2.89s
 8.298 N ± 36.2km 83.192 W ± 14.2km
 DEPTH = 5.0km (geophysicist)
 COSTA RICA (78)
 MD 3.8 (UPA). Felt at Baqueron
 and David, Panama.

DVD 0.75 79 iPc 25 36.56 -1.0
 iS 25 42.89
 BRU 0.80 51 iPd 25 39.26 0.3
 UPA 3.68 79 ePc 26 22.49 1.1
 eS 27 06.12
 YKA 58.73 344 eP 35 23.20 -0.4
 0.7s 0.20nm 3.3mb
 S.D. = 1.5 on 4 of 4 obs.

? APR 04, 1993 14h 52m 21.51±11.65s
 22.140 S ± 93.3km 178.045 W ± 155.6km
 DEPTH = 420.0km (geophysicist)
 4.4mb (3 obs.)
 SOUTH OF FIJI ISLANDS (171)

URZ 16.60 193 eP 55 51.90 0.4
 MNG 19.22 195 eP 56 16.90 -0.6
 QRZ 20.27 201 P 56 29.20 1.6
 KHZ 21.41 197 P 56 39.10 0.6
 LTZ 22.12 199 eP 56 44.00 -1.1
 WVZ 22.87 202 eP 56 50.90 -1.1
 CTA 33.32 267 iPd 58 24.00 -0.1
 ASPA 44.13 258 eP 59 52.20 -0.3
 1.3s 6.00nm 3.8mb

WB2 44.34 264 iPd 59 54.30 0.1
 0.4s 9.40nm 4.5mb
 NANU 60.94 256 iPd 01 54.60 0.3
 0.4s 8.00nm 4.6mb
 HFS 141.14 351 ePKP 11 11.00 7.1X
 0.3s 2.40nm
 S.D. = 0.9 on 10 of 11 obs.

APR 04, 1993 15h 26m 29.43±0.82s
 34.507 N ± 9.0km 27.411 E ± 7.3km
 DEPTH = 72.5 ± 14.6 km
 3.8mb (4 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.0 (ATH).

NPS 1.66 298 ePb 26 58.10 1.0
 KSL 2.40 47 ePn 27 07.60 0.4
 YER 2.72 15 ePn 27 12.00 0.3
 ELL 3.02 42 iPn 27 17.00 1.0
 KHL 4.17 23 ePn 27 31.00 -1.1
 VLI 4.26 302 ePn 27 32.00 -1.3
 8GIO 7.01 111 eP 28 10.90 -0.8
 SAGI 7.47 123 eP 28 18.00 0.0
 eS 29 35.30
 MBH 7.90 125 eP 28 24.10 0.2
 KHC 17.84 329 eP 30 33.00 -1.1
 SMF 21.53 311 eP 31 18.70 4.6X
 0.9s 3.10nm 3.7mb
 LBF 21.60 312 eP 31 19.70 4.9X
 0.8s 2.55nm 3.7mb
 AVF 21.90 311 eP 31 18.90 1.2
 0.8s 3.65nm 3.8mb
 SSF 21.92 312 eP 31 18.10 0.2
 0.9s 3.75nm 3.8mb
 S.D. = 1.0 on 12 of 14 obs.

* APR 04, 1993 16h 40m 44.00±1.33s
 11.010 N ± 8.3km 62.063 W ± 12.5km
 DEPTH = 131.6 ± 22.2 km
 WINDWARD ISLANDS (95)
 MD 3.5 (TRN).

TCE 0.44 136 eP 41 02.99 -0.1
 eS 41 14.65
 TRN 0.74 119 eP 41 04.98 -0.1
 eS 41 16.22
 TPP 0.91 139 eP 41 07.46 0.9
 eS 41 24.33
 TBH 1.11 118 eP 41 08.75 0.4
 eS 41 25.73
 GRW 1.21 19 eP 41 09.14 -0.3
 eS 41 26.91
 TPR 1.27 82 eP 41 09.50 -0.6
 eS 41 26.87
 BOT 1.33 83 eP 41 09.91 -0.7
 eS 41 27.52
 FCV 2.28 20 eP 41 21.66 -0.3
 eS 41 54.17
 SV8 2.38 19 eP 41 23.85 0.5
 SVV 2.44 20 eP 41 24.55 0.5
 eS 41 57.05
 SLB 2.97 20 eP 41 31.17 0.2
 eS 42 05.21
 CEOS 6.48 253 eP 42 18.10 -0.3
 eS 43 31.10
 S.D. = 0.6 on 12 of 12 obs.

* APR 04, 1993 16h 48m 59.03±0.87s
 40.677 N ± 7.4km 23.402 E ± 7.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.0 (THE).

SOH 0.15 346 iPg 49 02.94 0.4
 eSg 49 05.10
 THE 0.34 263 ePg 49 06.06 0.1
 eSg 49 10.38
 SRS 0.46 18 iPg 49 08.38 -0.1
 iSg 49 15.33
 OUR 0.56 127 ePg 49 10.34 0.0
 eSg 49 18.06
 KNT 0.62 322 ePg 49 11.06 -0.4
 eSg 49 19.34
 S.D. = 0.4 on 5 of 5 obs.

APR 04, 1993 17h 21m 36.20±0.24s
 53.443 N ± 5.2km 164.520 W ± 3.0km

CLL	75.60	2 eP	33 19.00	0.1
	2.0s	32.00nm		5.0mb
		e	33 29.00	

H8

04d 19h

WLZ	4.20	221	P	56	04.80	6.2X	KNT	0.64	321	ePg	08	09.72	-0.2	1.0s	21.00nm	5.2mb										
PAHZ	4.40	201	eP	56	04.00	2.5X			eSg	08	18.40			KSH	67.22	318	eP	57	41.00	0.9						
WHH	4.61	206	eP	56	06.30	1.9	PAIG	0.76	165	iPg	08	11.68	-0.3	MAIO	77.69	310	eP	58	43.00	1.0						
MOH	4.63	199	eP	56	06.00	1.5			eSg	08	22.08			YKA	108.95	26	ePdiff	01	09.80	0.5						
MOZ	5.09	222	P	56	16.70	6.0X	LIT	0.91	232	ePg	08	14.72	0.2		0.6s	0.10nm			4.2mb							
WAHZ	5.39	203	eP	56	14.50	-0.4	VAY	0.92	316	ePn	08	15.20	0.5	YKA	108.95	26	ePKP	05	13.30	-0.7						
PGZ	6.26	200	eP	56	24.20	-2.5	S.D. = 0.4 on 8 of 8 obs.										0.8s	0.30nm								
MNG	6.51	205	eP	56	28.70	-1.4	% APR 04, 1993 21h 41m 52.09±1.13s										CNCB	150.96	146	PKP	06	39.20	5.9X			
			S	57	57.10		40.650 N ± 6.1km 22.410 E ± 9.5km										LPB	151.13	146	PKP	06	40.00	6.7X			
KIW	6.93	207	eP	56	35.70	-0.1	DEPTH = 10.0km (geophysicist)										ZOBO	151.33	146	PKP	06	39.30	5.5X			
CAW	7.09	205	eP	56	37.70	-0.3	GREECE							CCH	151.45	150	ePKP	06	42.00	8.3X						
SNZO	7.40	207	eP	56	50.00	7.9X	ML 1.8 (THE).										SIV	154.88	158	(PKP)	06	54.00	15.9X			
			eS	58	12.00		(364)										S.D. = 1.0 on 32 of 43 obs.									
KHZ	8.79	208	eP	56	59.50	-1.4	GRG	0.31	359	iPg	41	58.46	0.0	* APR 04, 1993 22h 19m 07.31±1.33s												
			eS	58	48.50				eSg	42	03.46			11.238 N ± 28.3km 86.349 W ± 15.2km												
LTZ	9.62	212	eP	57	13.30	1.3	THE	0.42	92	iPg	42	00.38	-0.3	DEPTH = 164.1 ± 12.0 km												
			eS	59	08.40				eSg	42	07.38			3.4mb (1 obs.)												
DZM	16.82	315	iPd	58	43.80	-1.0	LIT	0.55	174	ePg	42	03.34	0.0	NEAR COAST OF NICARAGUA												
BRS	23.67	281	eP	00	00.00	3.8X	KNT	0.63	36	iPg	42	04.61	-0.2	YUP	4.47	312	eP	20	14.80	-0.2						
CAN	24.61	260	e(P)	00	11.90	6.8X			eSg	42	13.62		IXG	4.96	307	eP	20	21.67	0.3							
BWA	25.21	262	eP	00	14.20	3.4X	SOH	0.74	76	ePg	42	06.86	0.3			eS	21	19.53								
RMQ	27.30	279	eP	00	31.40	1.5	SRS	1.01	62	ePg	42	11.46	0.2	MRL	5.01	320	eP	20	21.57	-0.4						
	0.6s	9.00nm			4.6mb		S.D. = 0.3 on 6 of 6 obs.										RDG	5.49	313	eP	20	28.85	0.3			
CTA	32.44	288	iP	01	16.00	0.6	APR 04, 1993 21h 46m 46.58±0.37s										SDV	15.65	97	iPd	22	40.00	-0.6			
ASPA	40.67	273	eP	02	23.30	-1.3	7.508 S ± 6.2km 128.295 E ± 10.9km										TOV	16.34	94	eP	22	49.50	0.5			
	0.7s	13.40nm			4.8mb		DEPTH = 33.0km (normal)										EEO	35.82	9	eP	25	52.50	-0.1			
WB2	42.05	279	iPd	02	35.70	-0.3	4.9mb (13 obs.)										SIV	36.85	137	iPc	26	17.60	16.1X			
	0.3s	20.40nm			5.3mb		BANDA SEA							LMN	39.08	24	eP	26	20.50	0.7						
WRA	42.06	279	P	02	36.50	0.5			eS	49	25.00		JAQ	43.29	9	ePd	26	50.00	-4.2X							
	0.5s	1.90nm			4.1mb		MTN	5.99	152	eP	48	14.00	-1.4	FCC	47.79	355	eP	27	29.50	0.0						
WARB	45.58	266	eP	03	04.00	-0.3			eS	49	25.00		FRB	53.92	10	eP	28	11.00	-4.7X							
SPA	55.42	180	iPc	04	18.20	-0.2	KNA	8.20	177	eP	48	45.80	-0.5	YKA	55.06	344	eP	28	20.10	-3.8X						
	1.0s	27.50nm			5.1mb				0.2s	45.00nm				0.5s	0.30nm			3.4mb								
YKA	110.43	27	ePKP	13	05.20	-7.9X	WB2	13.69	155	iPd	49	54.70	-6.1X	WRA	139.95	252	PKP	38	22.00	3.4X						
	0.7s	0.40nm							eS	50	19.00			0.7s	0.70nm											
OBN	147.13	320	ePKP	14	16.00	-5.7X	MBL	15.85	210	eP	50	29.00	0.1	S.D. = 0.5 on 11 of 16 obs.												
	1.5s	42.00nm					ASPA	16.94	162	iPc	50	39.80	-3.1X	? APR 04, 1993 22h 49m 36.73±21.33s												
AKU	147.38	13	iPKP	14	14.90	-6.9X	Z	20s	0.80um					34.983 S ± 150.0km 71.830 W ± 84.6km												
	0.8s	20.90nm							eS	53	45.20			DEPTH = 33.0km (normal)												
KAF	147.70	336	iPKP	14	14.90	-7.5X	KKM	18.07	318	ePc	50	58.00	1.0	NEAR COAST OF CENTRAL CHILE												
	0.5s	7.10nm					WARB	18.64	185	eP	51	03.00	-0.9	MD 3.7 (SAN).												
NUR	149.40	335	iPKP	14	20.00	-5.1X			0.4s	9.00nm				LNV	1.08	19	iP	49	55.31	-0.3						
	0.4s	9.40nm					NANU	19.37	218	eP	51	15.00	2.4X			iS	50	08.28								
LIC	151.35	171	PKP	14	30.54	1.1	MEEK	21.13	205	eP	51	34.00	2.9X	CACH	1.33	50	iP	49	59.33	0.0						
KIC	151.51	172	PKP	14	30.72	1.0	CTA	21.43	128	iPc	51	46.00	11.9X			iS	50	15.91								
	0.6s	11.50nm							eS	55	30.00		CHCH	1.43	43	iP	50	00.75	0.1							
TIC	151.76	171	PKP	14	31.30	1.2	OLP	24.28	143	eP	52	02.50	0.4	LCCH	1.52	8	iP	50	01.95	0.1						
NB2	152.57	347	PKP	14	27.00	-2.9X	MRWA	24.51	207	eP	52	05.00	0.8	SAN	1.81	33	iP	50	06.48	0.4						
	0.9s	11.30nm					MUN	26.83	203	eP	52	30.00	4.1X			iS	50	28.45								
HFS	152.89	344	ePKP	14	20.50	-9.8X	STK	27.23	155	iPd	52	29.50	-0.1	PEL	2.07	28	iP	50	09.93	0.1						
	0.5s	2.40nm							0.7s	4.90nm				iS	50	35.30										
LKO	154.53	169	PKP	14	31.56	-2.4			eS	57	55.10		FCH	2.09	38	iP	50	10.03	-0.4							
	S.D. = 1.3 on 25 of 40 obs.						BWA	32.58	148	eP	53	18.80	1.6			iS	50	34.46								
? APR 04, 1993 20h 25m 26.11±1.23s										CAN	33.57	148	eP	S.D. = 0.3 on 7 of 7 obs.												
23.569 S ± 15.2km 68.309 W ± 15.8km										TOO	33.75	155	eP	* APR 04, 1993 22h 58m 25.14±0.62s												
DEPTH = 223.9 ± 9.4 km														9.329 S ± 13.2km 107.322 E ± 16.8km												
3.2mb (1 obs.)														DEPTH = 33.0km (normal)												
NORTHERN CHILE														4.8mb (9 obs.)												
(123)										CHG	39.01	312	eP	SOUTH OF JAWA, INDONESIA												
ANT	1.94	266	eP	26	06.00	-0.1			0.8s	21.00nm				(282)												
			eS	26	42.00				1.1s	19.30nm				LEM	2.50	7	iPc	59	04.70	0.1						
CNCB	6.73	3	P	27	04.20	-0.1	GYA	39.76	329	P	54	19.00	0.7			iS	59	57.00								
LPB	7.00	2	P	27	08.00	0.3			1.0s	9.60nm				NANU	15.33	150	eP	01	59.00	-1.8						
ZOBO	7.26	1	P	27	11.00	-0.2									0.2s	3.00nm			4.2mb							
			e	28	38.00		KMI	40.88	323	Pd	54	29.50	1.9			eS	04	36.00								
SIV	10.16	43	P	27	47.80	-0.2			1.5s	50.00nm																
YKA	93.31	340	eP	38	15.80	-0.2	CD2	44.85	330	P	55	01.00	1.3			iS	59	57.00								
	0.5s	0.10nm			3.2mb		XAN	45.22	337	P	55	00.70	-1.9													
HFS	106.28	31	ePKP	43	25.10	0.4			0.7s	5.20nm																
	0.4s	1.10nm					BJI	48.62	348	eP	55	28.00	-1.1			eS	04	36.00								
	S.D. = 0.4 on 7 of 7 obs.							1.4s	24.00nm																	
APR 04, 1993 21h 07m 57.10±0.56s										LZH	49.08	334	eP	S.D. = 0.3 on 7 of 7 obs.												
40.665 N ± 4.4km 23.427 E ± 5.4km														* APR 04, 1993 22h 58m 25.14±0.62s												
DEPTH = 10.0km (geophysicist)										LSA	51.41	318	P	9.329 S ± 13.2km 107.322 E ± 16.8km												
GREECE											1.0s	21.00nm		DEPTH = 33.0km (normal)												
ML 2.2 (THE).										GTA	53.62	333	eP	4.8mb (9 obs.)												
(364)											1.0s	24.00nm		SOUTH OF JAWA, INDONESIA												
SOH	0.17	341	iPg	08	01.16	0.2								LEM	2.50	7	iPc	59	04.70	0.1						
			eSg	08	03.56		GUN	54.03	312	P	56	10.20	-0.4			iS	59	57.00								
THE	0.35	265	ePg	08	04.02	-0.3	PKI	54.19	312	P	56	10.80	-1.0													
			eSg	08	08.72		KKN	54.40	312	P	56	12.60	-0.6			0.6s	7.60nm									
SRS	0.47	15	ePg	08	06.24	-0.4	DMN	54.43	312	P	56	12.80	-0.7													
OUR	0.54	128	ePg	08	08.25	0.3	GBA	54.67	292	P	56	14.00	-1.1													
			eSg	08	16.08		GKN	54.99	312	P	56	17.00	-0.5													
							HYB	55.03	297	eP	56	17.00	-0.3													
							WQ	62.91	328	P	57	11.00	-1.0			0.8s	72.00nm		5.5mb							

04d 23h

KKN 42.63 331 P 06 19.60 -0.9
0.8s 44.00nm 5.2mb
GKN 43.12 330 P 06 23.00 -1.4
0.8s 50.00nm 5.3mb
BRS 46.43 119 iPd 06 54.70 3.9X
BJI 49.80 9 eP 07 15.50 -1.2
1.0s 15.00nm 5.0mb
MAIO 63.87 318 eP 08 58.00 0.9
BCAO 89.51 275 ePd 11 34.30 13.1X
0.8s 4.00nm
YKA 118.92 21 ePKP 17 11.60 0.1
0.3s 0.10nm
BAO 145.17 225 (PKP) 18 05.00 2.9X
MEO 145.30 39 iPKP 18 02.90 1.2
S.D. = 1.3 on 16 of 20 obs.

APR 04, 1993 23h 05m 17.79± 0.48s
13.383 N ± 2.6km 120.551 E ± 4.0km
DEPTH = 61.9 ± 4.5 km
5.4mb (74 obs.)
MINDORO, PHILIPPINE ISLANDS (250)
Mw 5.1 (HRV). Felt (III RF) on
Mindoro.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 14C
Centroid Location:
Origin Time 23:05:17.1 1.2
Lat 13.07N 0.11 Lon 120.81E 0.14
Dep 53.0 FIX Half-duration 1.0
Moment Tensor: Scale 10**16 Nm
Mrr= 4.21 0.40 Mtt= 0.75 0.64
Mff=-4.96 0.91 Mrt=-0.24 0.83
Mrf=-0.38 0.98 Mtf= 3.38 0.46
Principal Axes:
T Val= 4.29 Plg=79 Azm=148
N 2.25 11 335
P -6.53 1 245
Best Double Couple: Mo=5.4*10**16
NP1: Strike=324 Dip=45 Slip= 74
NP2: 165 47 105

PGP 0.41 73 iPd 05 27.80 -1.3
QVP 1.31 20 iPc 05 42.00 1.8
iS 06 02.50
BAG 3.01 1 ePc+ 06 03.60 -0.6
1.0s 420.00nm
BCP 3.02 1 eP 06 09.00 4.7X
eS 06 43.00
PPR 4.00 207 eP 06 13.00 -5.0X
eS 07 58.00
SZP 4.15 359 ePd 06 25.00 5.0X
CVP 4.47 16 ePd 06 25.00 0.5
eS 07 26.00
MAP 4.53 132 eP 06 25.00 -0.4
eS 07 17.00
PLP 4.86 117 ePd 06 31.30 1.2
PIP 4.91 1 eP 06 32.50 1.6
BBP 7.15 11 ePc 07 02.00 0.0
DAV 7.97 141 eP 07 12.20 -1.2
KKM 8.45 211 ePc 07 24.00 3.9X
e 08 41.00
QIZ 11.71 300 eP 08 04.00 -0.5
E 16s 2.55um
SSE 17.64 2 eP 09 04.00 -16.8X
Z 20s 1.40um
eS 12 40.00
WHN 18.01 342 eP 09 27.00 1.6
0.7s 13.00nm 4.2mb X
Z 16s 2.84um 4.1msz
N 17s 2.35um
NJ2 18.65 355 Pc 09 34.20 1.1
1.2s 18.00nm 4.2mb X
Z 20s 1.18um 3.9msz
N 11s 1.06um
E 10s 0.46um
KMI 20.44 307 Pc 09 53.00 0.1
2.0s 90.00nm 4.8mb
Z 20s 1.90um 4.5msz
N 14s 0.90um
E 18s 1.40um
sP 10 09.00
S 13 28.00
sS 13 46.00
KGM 20.45 238 eP 09 51.50 -1.3
IPM 21.16 247 ePc 09 59.10 -0.9
0.9s 36.50nm 4.7mb

KUMJ 21.26 25 P 10 06.80 6.0X
KHT 21.34 276 eP 10 01.80 0.0
TIA 22.94 353 eP 10 17.30 -0.1
Z 18s 1.56um 4.5msz
N 14s 0.70um
XAN 23.12 335 Pc 10 18.60 -0.6
0.7s 31.00nm 4.9mb
Z 16s 1.56um 4.6mszX
N 15s 1.64um
pP 10 28.00 34kmX
sP 10 32.20
CD2 23.32 321 P 10 21.00 -0.2
1.2s 250.00nm 5.5mb
Z 17s 2.17um 4.7mszX
N 12s 0.85um
pP 10 32.60 46kmX
S 14 31.00
sS 14 49.00
eP 10 12.50 -11.9X
GUMO 23.64 87 eP 10 12.50 -11.9X
Z 21s 0.53um 4.0msz
LEM 23.83 213 ePd 10 29.00 2.6
TKSJ 23.90 29 eP 10 28.90 2.2
YONJ 24.64 26 eP 10 37.20 3.2X
WKYJ 24.83 31 eP 10 38.00 2.2
TIY 25.29 345 eP 10 40.00 -0.1
1.0s 55.00nm 5.0mb
N 14s 1.11um
E 18s 1.58um
DL2 25.44 2 eP 10 40.00 -1.4
Z 18s 0.67um 4.2msz
N 14s 0.90um
BJI 26.83 353 eP 10 53.50 -0.7
1.4s 140.00nm 5.3mb
Z 18s 1.00um 4.4msz
N 14s 0.49um
LZH 27.14 329 Pc 10 57.50 0.2
2.0s 84.00nm 5.0mb
Z 16s 1.46um 4.6mszX
N 15s 1.30um
pP 11 04.50 25kmX
SNY 28.46 5 eP 11 07.80 -1.1
1.3s 31.00nm 4.8mb
Z 16s 1.06um 4.5mszX
sP 11 23.40
HHC 28.47 346 Pd 11 09.40 0.2
1.0s 75.00nm 5.3mb
Z 20s 1.12um 4.5msz
N 16s 0.72um
E 16s 0.42um
pP 11 19.50 37kmX
BTO 28.64 343 eP 11 10.00 -0.7
CN2 30.60 7 eP 11 25.80 -2.2
Z 20s 0.92um 4.4msz
N 11s 0.43um
E 11s 0.17um
LSA 31.67 306 Pc 11 37.90 -0.2
1.2s 13.00nm 4.6mb
GTA 31.73 329 P 11 37.50 -0.6
1.5s 49.00nm 5.1mb
Z 18s 2.28um 4.9msz
E 14s 0.76um
pP 11 45.00 26kmX
PcP 14 29.00
S 16 49.00
MDJ 32.07 12 eP 11 39.20 -1.7
Z 20s 1.23um 4.6msz
MBL 34.33 181 eP 12 00.00 -0.7
GUN 35.37 300 P 12 09.20 -0.8
PKI 35.68 299 P 12 11.40 -1.1
WRA 35.79 157 P 12 12.89 -0.2
WB2 35.79 157 iPc 12 12.80 -0.3
0.7s 169.60nm 6.1mb
eS 17 45.20
KKN 35.85 299 P 12 12.80 -1.1
DMN 35.94 299 P 12 13.60 -1.1
NANU 36.06 188 eP 12 15.00 -0.3
GKN 36.45 299 P 12 17.80 -1.1
CIT 38.92 353 eP 12 40.00 0.9
ASPA 39.07 160 iPc 12 41.20 0.6
0.6s 221.80nm 6.2mb
eS 18 36.20
ZAK 39.50 343 iPc 12 43.00 -0.8
1.4s 44.00nm 5.1mb
Z 16s 0.59um 4.5mszX
N 16s 0.29um
E 19s 0.52um
WARB 39.77 171 iPc 12 47.00 0.6

0.5s 21.00nm 5.3mb
MEEK 39.82 183 iPc 12 46.00 -0.8
HYB 40.63 281 iPc 12 53.50 -0.1
1.0s 30.00nm 5.1mb
IRK 40.92 345 ePc 12 55.80 0.2
1.7s 63.00nm 5.1mb
Z 18s 0.57um 4.5msz
e 13 06.50
MOY 41.33 342 eP 12 59.60 0.7
WMO 41.37 324 P 13 00.80 1.3
2.0s 210.00nm 5.6mb
Z 18s 1.57um 4.9msz
N 15s 1.20um
pP 13 10.00 31kmX
PP 14 40.50
ScP 18 37.00
PcS 18 47.00
sS 19 36.00
CTA 41.78 142 P 13 07.59 4.6X
GBA 41.88 276 Pc 13 04.00 0.1
MRWA 42.58 186 eP 13 09.00 -0.3
COOL 44.01 179 eP 13 20.00 -1.0
FORT 44.50 171 eP 13 25.00 0.1
BOD 44.64 355 eP 13 24.50 -1.2
1.3s 12.00nm 4.5mb
KLB 44.80 183 eP 13 26.50 -0.8
POO 45.10 283 eP 13 29.50 -0.5
QLP 45.92 150 iPc 13 36.60 0.4
NWA0 46.16 184 eP 13 37.50 -0.5
PRZ 46.49 317 iP 13 43.00 2.2
Z 16s 1.00um 4.9mszX
E 16s 0.70um
KSH 46.98 312 P 13 46.20 1.5
0.7s 36.00nm 5.4mb
Z 20s 1.24um 4.9msz
E 12s 0.47um
pP 13 56.40 34kmX
ELT 48.16 333 eP 13 53.00 -0.5
1.8s 94.00nm 5.5mb
Z 12s 0.40um 4.6mszX
RMO 48.19 145 iPc 13 54.40 0.3
0.9s 17.00nm 5.0mb
YAK 49.01 6 eP 13 58.00 -1.9
Z 14s 0.40um 4.6mszX
N 16s 0.40um
FRU 49.18 316 eP 14 02.40 0.8
1.2s 40.00nm 5.3mb
Z 22s 0.90um 4.7msz
E 22s 1.00um
e 15 18.00
STK 49.32 156 iPc 14 02.80 0.1
0.7s 12.90nm 5.1mb
ADE 51.08 161 ePc 14 16.50 0.4
BRS 51.19 143 iPd 14 17.50 0.4
0.8s 12.00nm 5.0mb
ic 14 22.20
MGD 51.67 19 eP 14 19.00 -1.2
Z 18s 0.30um 4.4msz
N 18s 0.30um
e 14 33.00
ARMA 52.83 146 iPc 14 29.90 0.4
0.7s 12.00nm 5.0mb
BFD 54.38 158 eP 14 40.20 -0.4
1.0s 47.00nm 5.5mb
BWA 54.42 152 iPc 14 42.20 1.2
CAN 55.43 152 iPc 14 48.30 0.0
CNB 55.60 151 eP 14 49.40 -0.1
1.1s 42.00nm 5.4mb
TOO 55.84 156 iPc 14 51.30 0.1
0.7s 31.00nm 5.4mb
DZM 57.15 128 iPc 15 01.00 0.1
TIK 58.44 3 iPc 15 07.00 -2.1
1.2s 20.00nm 5.1mb
i 15 15.00
e 17 13.00
MAIO 58.93 304 iPc 15 13.60 0.3
0.6s 26.09nm 5.5mb
eS 23 24.00
NRI 59.62 347 iPc 15 15.20 -2.1
1.0s 24.00nm 5.3mb
Z 20s 2.70um 5.4msz
E 20s 1.30um
e 16 00.00
ASH 60.02 306 P 15 21.00 0.4
1.0s 220.00nm 6.2mb
VAN 60.22 306 iPc 15 21.80 -0.1
1.2s 67.00nm 5.6mb

SVE	62.59	328	IPc	15	37.00	-0.5	1.4s	29.00nm	5.4mb	FIA0	15.76	114	Pn	05	13.00							
	1.8s	140.00nm				5.8mb		e	18	24.00			02	10.17	-2.9X							
Z	16s	0.60um				4.9MszX	KHC	90.76	321	P	18	16.40	1.0	04	51.87							
N	16s	0.30um						1.0s	8.90nm	5.1mb	PRU	23.40	147	eP	03	40.50	1.3					
E	16s	0.50um							e	18	24.00			03	49.21	0.5						
ARU	63.54	327	IPc	15	43.00	-0.8	GEC2	90.78	321	ePc	18	16.00	0.4	BSF	24.42	161	eP	03	58.10	8.8X		
	1.8s	200.00nm				5.8mb		1.1s	17.18nm	5.3mb			0.9s	11.45nm		4.5mb						
		e				15	50.00		e	18	23.00		LOR	24.70	165	eP	03	52.50	0.6			
		e				16	22.00		ePP	21	55.60			0.6s	5.50nm		4.4mb					
DHR	66.78	293	IPc	16	04.60	-0.6			e	22	03.10		LBF	24.99	165	eP	03	54.70	-0.1			
KRV	69.47	309	IP	16	21.00	-0.8	VBY	90.98	317	eP	18	17.00	0.6		0.8s	7.95nm		4.5mb				
	0.8s	20.00nm				5.1mb	HOF	91.33	323	eP	18	19.00	1.0	AVF	25.14	166	eP	03	55.90	-0.2		
GRS	69.48	307	eP	16	22.00	-0.1	MOX	91.36	323	iPd	18	19.00	0.9	SMF	25.32	166	eP	03	57.80	0.0		
	1.1s	30.00nm				5.1mb		1.6s	25.00nm	5.4mb				0.5s	2.75nm		4.2mb					
GRO	69.96	311	eP	16	24.50	-0.2	CEY	91.44	318	ePc	18	19.00	0.4	TCF	25.56	168	eP	04	00.40	0.3		
RYD	70.09	292	IPc	16	25.00	-0.9	KBA	91.65	319	IPc	18	19.40	-0.4		0.9s	4.90nm		4.2mb				
MJMA	71.17	293	IPc	16	31.70	-0.7		0.8s	9.20nm	5.2mb			MAF	25.65	168	eP	04	01.10	0.2			
PYA	71.86	312	IP	16	35.00	-1.2			i	18	23.20			0.7s	3.00nm		4.1mb					
	1.0s	100.00nm				5.7mb	VOY	91.68	318	IPc	18	19.70	-0.1	YKA	37.83	315	eP	05	49.50	1.9		
Z	16s	500.00um				7.9MszX	BHG	91.71	320	iPd	18	20.60	0.8		0.7s	0.50nm		3.4mb				
BRW	75.07	19	eP	16	54.90	0.6		0.9s	31.00nm	5.7mb	KIC	65.10	180	P	09	16.60	4.0X					
MOS	75.08	324	IP	16	54.00	-0.6	RBL	91.74	319	P	18	19.60	-0.4	S.D. = 1.2 on 13 of 18 obs.								
	1.4s	100.00nm				5.6mb	TRI	91.88	318	eP	18	20.70	0.1	% APR 05, 1993 00h 10m 38.11 ± 0.82s								
Z	20s	0.60um				4.9Msz	GRF	91.97	322	IPc	18	21.80	0.9	38.587 S ± 4.8km 175.723 E ± 4.6km								
		e				17	10.00		1.0s	32.00nm	5.7mb		DEPTH = 208.1 ± 8.8 km									
TTA	75.20	28	eP	16	55.56	0.2	FUR	92.54	321	eP	18	24.30	0.7	NORTH ISLAND, NEW ZEALAND (159)								
	1.0s	5.72nm				4.5mb	WTTA	92.66	320	IPc	18	24.30	-0.1	NGZ	0.60	189	P	11	06.90	0.1		
OBN	75.69	324	IPc	16	57.50	-0.6		0.8s	45.00nm	5.9mb			CNZ	0.63	193	P	11	07.10	0.0			
	1.0s	74.00nm				5.6mb			i	18	31.10		WHH	0.67	116	P	11	06.00	-1.2			
Z	20s	0.60um				4.9Msz	WATA	92.67	320	IPc	18	24.20	-0.2	WLZ	0.72	352	P	11	07.40	0.1		
E	20s	0.60um					SQTA	92.95	320	IPc	18	25.50	-0.1		S		11	26.80				
		e				17	05.00		0.7s	28.60nm	5.8mb		MOZ	0.73	276	Pc	11	07.30	-0.1			
IMA	76.16	25	eP	17	00.75	0.0			i	18	32.30			S		11	26.40					
	0.9s	5.84nm				4.5mb	MOTA	92.97	320	IPc	18	25.50	-0.3	PAHZ	1.08	105	P	11	09.10	-0.4		
		e				17	10.25		0.9s	40.50nm	5.9mb		URZ	1.14	74	P	11	09.40	-0.5			
CRP	77.08	30	eP	17	05.44	-0.6			i	18	32.00			S		11	29.60					
SLKM	78.09	30	eP	17	09.02	-2.4	YKA	93.12	22	eP	18	25.70	-0.3	WAHZ	1.21	156	Pc	11	10.30	-0.3		
PMS	78.33	30	eP	17	11.80	-0.9		0.9s	2.00nm	4.5mb			MOH	1.24	117	eP	11	10.40	-0.3			
	0.7s	8.00nm				4.8mb	CTI	93.13	319	P	18	26.20	-0.3	TTH	1.28	138	P	11	11.30	0.3		
HRI	78.50	302	IPc	17	15.50	1.2	OGA	93.20	320	eP	18	27.30	0.4	BSZ	1.36	207	Pc	11	12.30	0.7		
PUL	78.68	329	(P)	17	14.00	-0.5		0.8s	29.00nm	5.8mb			NRZ	1.58	241	P	11	14.10	0.5			
	1.8s	120.00nm				5.5mb	SDI	93.29	314	P	18	26.70	-0.5	TEHZ	1.64	149	P	11	13.90	-0.1		
Z	16s	1.50um				5.4MszX	AQU	93.34	315	P	18	27.90	0.4	MAHZ	1.79	110	eP	11	15.20	-0.3		
		e				17	20.00						NOZ	1.81	92	P	11	16.40	0.7			
		e				17	23.00		MNS	93.83	315	Pd	18	29.20	-0.5	KUZ	1.84	360	P	11	16.20	0.3
FBA	78.70	26	eP	17	13.65	-0.9	SFI	93.81	317	P	18	30.90	1.4	MNG	2.04	185	Pc	11	18.30	0.4		
	1.0s	6.30nm				4.5mb	OSS	93.83	320	IPc	18	30.40	0.6		S		11	45.30				
KEV	78.78	339	eP	17	15.00	0.1	PGD	93.92	317	P	18	31.50	1.3	PUZ	2.06	76	P	11	18.20	0.0		
VTY	78.80	247	eP	17	16.70	0.5	SLE	94.40	321	ePd	18	32.60	0.4		S		11	45.20				
DSI	79.06	300	IPc	17	18.40	1.1	LLS	94.47	320	iPd	18	33.40	0.6	PGZ	2.07	168	P	11	18.80	0.5		
OPD	79.11	248	eP	17	17.70	-0.2	BDI	94.59	317	P	18	32.60	-0.6	HBZ	2.26	65	P	11	20.60	0.4		
ABM	79.18	247	eP	17	18.80	0.5	CDF	94.86	322	eP	18	34.40	0.0	KIW	2.36	195	Pc	11	21.50	0.2		
CSY	79.79	184	eP	17	20.80	0.5		1.1s	25.40nm	5.6mb			CAW	2.57	191	P	11	23.90	0.3			
	0.5s	34.20nm				5.5mb	TMA	94.87	320	ePc	18	34.30	-0.3	DIW	2.61	212	P	11	24.20	0.1		
SAGI	79.89	299	IPc	17	22.80	1.0	WLF	94.96	324	iPd	18	35.96	1.3	MRW	2.76	196	P	11	25.80	0.1		
CSS	80.22	304	eP	17	24.00	0.6		1.1s	13.80nm	5.3mb				S		11	59.40					
KAF	80.26	332	IP	17	22.50	-0.6	BSF	95.41	322	eP	18	36.60	-0.3	BLW	2.78	184	P	11	26.10	0.0		
	0.7s	25.50nm				5.3mb		1.3s	24.20nm	5.5mb			TCW	2.85	203	P	11	26.90	0.1			
NUR	81.35	330	IP	17	28.60	-0.2	MMK	95.47	320	ePc	18	38.00	0.6	MOW	2.85	187	P	11	26.80	-0.1		
	0.6s	18.90nm				5.2mb	SNF	95.62	325	P	18	38.50	0.8	QRZ	3.33	227	eP	11	31.40	-1.1		
UPP	84.91	330	IP	17	46.30	-0.7	DOU	95.65	324	P	18	38.90	1.1	THZ	3.84	213	P	11	38.30	-0.4		
UZH	85.44	319	IPc	17	50.70	0.8	DIX	95.80	320	eP+	18	39.50	0.5		S		12	23.00				
	1.0s	138.00nm				6.0mb	EMS	96.11	320	ePd	18	40.80	0.5	KHZ	4.17	203	Pc	11	43.00	0.2		
		i				17	58.00		LPG	96.47	320	eP	18	42.20	0.1		S		12	29.40		
DEV	85.75	316	ePd	17	53.50	2.0		0.9s	20.95nm	5.7mb			ODZ	7.48	209	P	12	25.20	-0.3			
OJC</																						

05d 00h

WAHZ	2.76	186	Pc	13	28.30	-0.5
BSZ	3.17	206	P	13	33.70	1.1
PGZ	3.68	185	P	13	38.10	0.3
MNG	3.79	194	Pc	13	39.00	0.0
			S	14	25.80	
KIW	4.16	199	P	13	42.80	-0.1
MTW	4.31	192	P	13	44.30	-0.3
CAW	4.35	197	P	13	45.00	0.0
DIW	4.42	209	P	13	45.90	0.0
BLW	4.52	192	P	13	47.20	0.3
MRW	4.56	199	P	13	47.10	-0.2
			S	14	40.30	
WEL	4.59	199	eP	13	48.00	0.3
MOW	4.61	194	eP	13	47.50	-0.4
QRZ	5.07	219	P	13	52.90	-0.2
THZ	5.64	210	eP	13	59.70	-0.2
KHZ	5.99	203	P	14	04.40	0.6
			eS	15	10.60	
DSZ	6.12	217	eP	14	04.70	-0.8
LTZ	6.76	209	P	14	13.30	0.2
MOZ	7.43	203	P	14	20.25	-0.9
			S	15	40.60	
WVZ	7.65	215	eP	14	23.30	-0.5
ODZ	9.30	208	eP	14	44.90	1.0
			S	16	21.90	

S.D. = 0.6 on 30 of 30 obs.

APR 05, 1993 00h 56m 30.74 \pm 0.33s
 45.887 N \pm 3.8km 9.892 E \pm 3.0km
 DEPTH = 8.2 \pm 2.5 km
 NORTHERN ITALY (545)
 MD 3.1 (LJU). ML 3.0 (STR), 2.9
 (LDG), 2.5 (VIE).

MDI	0.17	229	Pc	56	34.10	-0.3
			eSg	56	37.40	
SAL	0.52	122	Pc	56	39.20	-2.1
			eSg	56	49.50	
VDL	0.67	334	iPc	56	42.50	-1.8
TMA	0.74	287	iPd	56	44.70	-0.9
VAI	0.78	269	P	56	45.90	-0.2
OSG	0.82	12	ePc	56	44.30	-2.6
LLS	1.16	328	iPc	56	51.20	-1.5
BOB	1.16	196	P	56	54.10	1.4
			eSg	57	10.00	
CTI	1.24	82	P	56	53.90	-0.1
			eSg	57	12.50	
ORO	1.36	260	P	56	56.00	-0.1
			eSg	57	16.00	
SOTA	1.61	34	iPgd	56	58.30	-1.4
			iSg	57	19.20	
MOTA	1.68	29	iPnc	56	59.30	-1.4
			iP	57	01.90	
			iSg	57	26.10	
DIX	1.74	277	iPd	57	03.00	1.3
VVI	1.77	86	P	57	01.80	0.0
			eSn	57	24.00	
WTTA	1.83	41	iPgc	57	04.20	1.3
			i	57	05.40	
			iSg	57	28.40	
WATA	1.86	38	iPgd	57	04.60	1.4
			iSg	57	30.70	
BDI	1.89	164	P	57	04.80	1.1
			eSn	57	28.20	
ZLA	1.90	328	ePd	57	04.90	1.1
EMS	2.07	276	ePc	57	08.50	2.1
SLE	2.11	333	ePc	57	07.20	0.4
FVI	2.13	70	P	57	07.70	0.8
			eSn	57	34.30	
PII	2.21	168	P	57	08.00	-0.2
LPG	2.24	261	Pn	57	10.60	1.7
			Sn	57	39.10	
LPL	2.24	262	Pn	57	11.00	2.1
			Sn	57	38.80	
BBS	2.28	315	Pn	57	10.63	1.4
			Sg	57	42.15	
FEL	2.37	328	Pn	57	10.64	0.0
			Pg	57	15.07	
LOMF	2.57	306	Pn	57	15.35	1.9
RBL	2.61	76	P	57	14.50	0.5
KBA	2.67	62	iPgc	57	17.20	2.3
			i	57	19.60	
			i	57	47.20	
			iSg	57	50.70	
SBF	2.67	222	Pn	57	13.80	-1.1
TRI	2.71	92	e(P)	57	14.90	-0.5
			e	57	51.10	

MOF	2.73	317	Pn	57	16.70	1.0
			Pg	57	21.65	
VOY	2.79	86	ePn	57	15.20	-1.5
			e	57	21.30	
			eSn	57	56.20	
BSF	2.88	314	Pn	57	18.40	0.5
			Pg	57	25.40	
			Sn	57	51.70	
			Sg	58	02.80	
ECH	2.99	322	Pn	57	18.65	-0.6
WLS	3.06	326	Pn	57	20.37	0.0
CDF	3.09	326	Pn	57	20.62	-0.2
CEY	3.17	91	e(Pn)	57	28.00	6.1X
			eSn	58	09.00	
HAU	3.22	312	Pn	57	22.70	0.1
			Sn	58	00.00	
			Sg	58	14.60	
FRF	3.28	226	Pn	57	22.40	-1.0
LRG	3.50	227	Pn	57	25.10	-1.4
LMR	3.51	225	Pn	57	25.20	-1.5
VITF	3.54	313	Pn	57	27.95	0.8
GRB1	3.70	18	e(Pg)	57	40.20	10.7X
			eSg	58	31.00	
VBY	3.78	94	ePn	57	32.40	1.9
GEC2	3.93	40	Pn	57	32.20	-0.5
			Sn	58	18.70	
KHC	4.10	36	ePn	57	46.00	11.0X
			Pg	57	57.50	
			e	58	21.50	
			eSg	58	37.00	
			e	58	44.50	
			e	00	20.00	
			e	00	36.00	
			eSg	00	48.50	
LBF	4.23	287	Pn	57	36.60	-0.4
			Sn	58	24.40	
SMF	4.26	282	Pn	57	37.00	-0.4
			Sn	58	27.00	
LOR	4.38	291	Pn	57	38.50	-0.6
			Sn	58	29.90	
SSF	4.57	287	Pn	57	40.90	-0.8
			Sn	58	34.10	
			Sg	58	56.50	
AVF	4.62	284	Pn	57	41.10	-1.3
			Sn	58	34.20	
BGF	4.94	280	Pn	57	45.00	-1.9
			Sn	58	42.30	
TCF	5.36	277	Pn	57	52.90	-0.1
			Sn	58	53.20	

S.D. = 1.3 on 51 of 54 obs.

APR 05, 1993 00h 59m 03.38 \pm 0.92s
 49.963 N \pm 7.0km 8.551 E \pm 8.5km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 2.6 (LDG).

KOE	0.70	312	iPgc	59	16.87	-0.3
	0.2s		*****nm			
			iSg	59	24.97	
BGG	0.82	288	iPgc	59	20.35	1.1
	0.1s		66.00nm			
			iSg	59	30.80	
BNS	1.33	319	ePg	59	27.89	-0.1
			eSg	59	44.31	
WLF	1.58	260	iP	59	58.00	26.5X
CDF	1.76	209	Pn	59	35.20	1.0
			Sn	59	58.70	
			Sg	00	06.60	
BSF	2.43	209	Pn	59	44.70	0.9
			Pg	59	52.90	
			Sn	00	14.80	
			Sg	00	27.20	
HAU	2.44	217	Pn	59	44.70	0.8
			Sg	00	27.30	
DOU	2.56	275	P	59	52.20	6.7X
			iS	00	24.70	
GEC2	3.54	106	Pn	59	59.50	-0.1
			Sn	00	40.30	
			Sg	00	56.00	
LOR	4.12	231	Pn	00	07.10	-0.6
			Sn	00	55.40	
LBF	4.26	227	Pn	00	08.60	-1.2
SSF	4.44	231	Pn	00	10.60	-1.6
			Sn	01	02.70	

S.D. = 1.1 on 10 of 12 obs.

% APR 05, 1993 01h 25m 35.11 \pm 0.65s
 37.383 N \pm 5.2km 2.168 W \pm 5.6km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 3.4 (MDD). Felt (IV) in the
 Contorio area.

ENIJ	0.41	184	iPgd	25	43.44	-0.1
EHUE	0.55	322	ePg	25	45.64	-0.6
			eSg	25	54.50	
EALH	0.76	51	iPgd	25	50.24	0.3
			eSg	26	00.90	
ECOG	1.12	265	iPgd	25	55.70	-0.5
			eSg	26	12.20	
EGUA	1.24	244	iPnc	25	57.81	-0.4
			eSn	26	15.40	
EVIA	1.28	348	iPnd	25	59.87	0.9
			eSn	26	18.10	
EBAN	1.50	302	iPnd	26	03.02	0.9
			eSn	26	23.30	
ELUO	1.68	277	iPnd	26	06.30	1.6
			eSn	26	26.50	
ACU	1.79	50	iPnd	26	05.44	-0.8
			eSn	26	28.10	
MAL	1.91	251	ePn	26	09.50	1.5
			iSg	26	36.50	
EHOR	2.49	281	iPnd	26	15.75	-0.5
			eSn	26	46.80	
PAB	2.76	322	ePn	26	20.50	0.3
			e(Pb)	26	27.00	
			ePg	26	30.00	
			eSn	26	53.00	
			eSg	27	07.00	
ETOR	3.43	1	ePn	26	30.44	0.6
			eSn	27	10.90	
GUD	3.60	335	ePn	26	31.42	-0.8
			eSn	27	13.20	
EVAL	3.65	275	ePn	26	31.31	-1.5
			eSn	27	13.90	
EPLA	4.07	312	ePn	26	37.72	-1.0

S.D. = 1.0 on 16 of 16 obs.

? APR 05, 1993 01h 29m 31.74 \pm 6.15s
 22.863 S \pm 50.3km 178.378 W \pm 73.1km
 DEPTH = 420.0km (geophysicist)
 4.2mb (6 obs.)

SOUTH OF FIJI ISLANDS (171)

MNG	18.45	195	P	33	19.30	-0.8
QRZ	19.48	201	P	33	32.00	1.8
THZ	20.21	199	P	33	38.50	1.1
DSZ	20.55	201	P	33	41.70	1.1
KHZ	20.63	197	P	33	40.80	-0.5
LTZ	21.34	199	P	33	47.10	-0.9
WVZ	22.09	202	eP	33	54.40	-0.6
ARMA	27.79	248	iPd	34	47.00	0.4
	0.4s		4.00nm			4.2mb
RMO	30.04	256	iPd	35	07.30	1.1
CAN	30.95	239	iPc	35	13.40	-0.6
			e	38	24.80	
BWA	31.20	241	iPc	35	14.70	-1.5
			e	38	20.50	
CMS	32.87	247	iPc	35	29.80	-0.5
	0.7s		8.00nm			4.2mb
OLP	34.00	256	iPd	35	42.20	1.6
STK	36.50	247	eP	36	00.50	-0.3
	0.5s		3.50nm			4.0mb
ASPA	43.69	259	iPd	36	59.50	0.3
	0.7s		11.10nm			4.3mb
WB2	43.96	265	iPc	37	01.60	0.2
	0.3s					

GBA 35.08 16 P 04 26.00 -0.2
SLR 36.74 254 eP 04 40.00 -0.5
0.8s 20.00nm 5.0mb
KSR 37.99 254 eP 04 56.00 5.0X
BLF 38.70 249 e(P) 04 50.50 -6.4X
HYB 39.02 16 eP 04 59.00 -0.5
DMN 50.55 20 P 06 32.20 0.3
1.0s 91.00nm 5.7mb
PKI 50.62 20 P 06 32.20 -0.3
1.0s 30.00nm 5.2mb
GKN 50.77 19 P 06 33.40 -0.1
1.0s 66.00nm 5.5mb
KKN 50.78 20 P 06 33.40 -0.2
1.0s 74.00nm 5.6mb
GUN 51.08 21 P 06 36.20 0.1
0.8s 47.00nm 5.5mb
BCAO 54.38 291 iPc 07 00.00 -0.5
0.6s 25.00nm 5.4mb
id 07 07.00
KMI 56.53 38 eP 07 16.00 -0.1
2.0s 80.00nm 5.4mb
MAIO 56.96 352 eP 07 15.00 -3.8X
e 15 28.00
CTB 61.75 70 ePd 07 43.00 -9.2X
WRA 61.95 102 P 07 54.70 1.1
0.8s 0.60nm 3.8mb X
WBZ 61.96 102 eP 07 54.10 0.4
0.9s 4.30nm 4.6mb
SNA 64.30 201 e(P) 08 09.80 1.5
1.0s 60.00nm 5.7mb
LZH 65.68 31 eP 08 17.50 -0.3
2.0s 34.00nm 5.2mb
STK 66.02 117 eP 08 25.10 5.0X
0.5s 2.90nm 4.7mb
QLP 69.34 112 eP 08 47.00 6.0X
SPA 69.71 180 iPc 08 40.30 -2.5
0.6s 8.13nm 5.0mb
ARMA 74.74 117 eP 09 20.40 7.2X
1.1s 15.00nm 4.9mb
KIC 76.12 282 P 09 21.36 0.2
LIC 76.33 282 P 09 22.24 -0.1
Z 20s 0.20um 4.4MsZ
TIC 76.48 282 P 09 23.04 -0.1
ROI 76.53 322 P 09 24.20 1.2
LKO 78.13 285 P 09 32.26 0.0
0.7s 5.50nm 4.8mb
GEC2 84.13 327 eP 10 09.10 5.8X
1.3s 1.79nm 4.2mb X
YKA 137.91 2 ePKP 16 51.60 -5.3X
0.6s 0.40nm
ULM 147.57 340 ePKP 17 19.00 5.0X
S.D. = 0.8 on 23 of 33 obs.

? APR 05, 1993 02h 23m 51.69±5.09s
36.387 N ±33.6km 26.975 E ±29.4km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.3 (ISK).

YER 1.29 54 iPn 24 16.00 0.4
eSg 24 33.00
IZM 2.02 6 iPn 24 26.40 0.2
ELL 2.39 80 ePn 24 32.00 0.4
KHL 2.80 46 ePn 24 37.00 -0.5
BCK 3.09 69 ePn 24 41.00 -0.5
S.D. = 0.6 on 5 of 5 obs.

* APR 05, 1993 02h 27m 31.83±1.19s
17.810 N ±9.7km 61.504 W ±14.2km
DEPTH = 33.0km (normal)
3.5mb (1 obs.)
LEEWARD ISLANDS (92)
ML 3.6 (FDF). MD 3.5 (TRN).

CPB 0.35 241 eP 27 41.36 1.1
eS 27 52.99
BPA 0.83 204 eP 27 45.28 -1.9
eS 27 57.38
NEV 1.22 237 eP 27 52.37 -0.3
eS 28 08.84
MGH 1.28 212 iPd 27 53.08 -0.5
SEG 1.40 180 eP 27 55.60 0.4
DEG 1.55 164 eP 27 56.70 -0.8
DOG 1.77 184 eP 28 01.53 0.8
PAG 1.78 185 eP 28 01.33 0.5
S 28 23.56
MGG 1.89 175 eP 28 02.85 0.5

YKA 57.67 334 eP 37 19.20 -1.9
0.4s 0.20nm 3.5mb
KLU 71.87 330 (P) 38 55.31 2.0
S.D. = 1.3 on 11 of 11 obs.

? APR 05, 1993 03h 15m 54.03±3.45s
7.000 N ±14.8km 72.661 W ±51.4km
DEPTH = 207.3 ±39.9 km
3.9mb (1 obs.)
NORTHERN COLOMBIA (99)

SDV 2.75 47 ePnc 16 41.30 -0.5
eSn 17 18.60
TOV 3.96 46 iPnc 16 57.10 0.8
iSn 17 46.50
CEOS 4.74 65 iPc 17 05.60 -0.4
iS 18 03.70
CANV 5.52 43 eP 17 23.50 7.6X
iS 18 14.40
ZOBO 23.55 169 P 20 47.00 -0.8
i 21 29.00
LPB 23.81 169 P 20 51.00 0.9
CNCB 24.11 169 P 20 53.00 0.0
SIV 25.56 153 P 22 09.00 63.2X
BAO 33.21 133 eP 23 09.30 55.7X
YKA 63.25 340 eP 26 02.20 -0.1
0.5s 1.10nm 3.9mb
WRA 150.82 241 PKP 35 09.40 -8.7X
0.8s 0.30nm
S.D. = 0.9 on 7 of 11 obs.

* APR 05, 1993 03h 36m 58.49±0.88s
59.923 N ±6.7km 5.620 E ±8.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.5 (BER).

EGD 0.40 331 eP 37 06.60 -0.1
eSg 37 12.00
ODD1 0.51 91 iPd 37 08.46 -0.3
eS 37 14.68
ASK 0.60 339 eP 37 10.00 -0.6
eSg 37 18.00
KMY 0.74 195 eP 37 13.13 0.2
eSg 37 22.84
HYA 1.28 12 eP 37 23.00 0.8
eSg 37 39.96
NRA0 3.06 72 ePn 37 50.91 3.2X
ePg 37 57.22
eSg 38 29.82
S.D. = 0.8 on 5 of 6 obs.

APR 05, 1993 04h 00m 05.39±0.10s
59.801 S ±3.3km 26.312 W ±3.3km
DEPTH = 33.0km (normal)
6.0mb (34 obs.) 6.2MsZ (69 obs.)

SOUTH SANDWICH ISLANDS REGION (153)
Mw 6.3 (GS), 6.2 (HRV).
Mo=2.7*10¹⁸ Nm (PPT).
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=258 Dip=72 Slip=-90
NP2: 78 18 -90
Principal Axes:
T P1g=27 Azm=348
P 63 168

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.

MOMENT TENSOR SOLUTION
Dep 9 No. of sta: 7
Moment Tensor: Scale 10¹⁸ Nm
Mrr=-1.22 Mtt=1.14
Mff=0.09 Mrt=3.22
Mrf=-0.10 Mtf=-0.03
Principal axes:
T Vol=3.39 P1g=35 Azm=2
N 0.09 0 92
P -3.47 55 182

Best Double Couple: Mo=3.4*10¹⁸
NP1:Strike=91 Dip=10 Slip=-90
NP2: 272 80 -90
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 41S, *C M.W.: 29S, 50C
Centroid Location:

Origin Time 04:00:12.6 0.1
Lat 60.47S 0.02 Lan 25.69W 0.02
Dep 18.4 0.7 Half-duration 3.1
Moment Tensor: Scale 10¹⁸ Nm
Mrr=-1.06 0.02 Mtt=-0.17 0.03
Mff=1.23 0.02 Mrt=1.57 0.09
Mrf=0.00 0.06 Mtf=1.25 0.02
Principal Axes:
T Val=2.20 P1g=16 Azm=308
N 0.21 38 51
P -2.42 48 199
Best Double Couple: Mo=2.3*10¹⁸
NP1:Strike=357 Dip=44 Slip=-152
NP2: 246 71 -50

SNA 14.47 147 e(P) 03 24.90 -4.5X
0.7s 466.00nm 6.1mb
e 05 55.50
AIA 18.12 236 eP 04 19.90 4.3X
PMSA 18.18 238 (P) 04 17.83 1.4
iS 07 39.95
NVL 18.95 141 iPd- 04 24.00 -1.8
1.2s 844.00nm 5.8mb
Z 15s 25.00um 3.3MsZ
N 15s 28.00um
E 15s 13.00um

SPA 30.37 180 iPd 06 16.30 0.1
1.4s 1191.18nm 6.5mb
Z 20s 4.32um 5.1MsZ
i 12 58.10
LPA 32.29 306 iPd+ 06 37.20 4.2X
1.0s 2400.00nm 7.0mb X
Z 20s 59.57um 6.3MsZ
MAW 36.90 140 iPd 07 12.50 0.5
1.1s 336.96nm 6.1mb
Z 16s 39.58um 6.3MsZ
eS 08 00.00

RFA 37.03 293 ePc 07 13.00 -0.6
MRA 37.75 299 ePc 07 18.90 -0.7
TCA 38.18 301 iP 07 23.00 -0.3
CACH 38.56 292 iP 07 28.78 2.2
CHCH 38.74 292 iP 07 27.78 -0.2
MDZ 38.77 295 i(P) 07 22.00 -6.3X
BLE 39.06 69 eP 07 34.00 3.5X
1.5s 14.00nm 4.5mb X
FCH 39.07 293 iP 07 31.53 0.5
LNV 39.08 291 iP 07 30.80 0.1
SAN 39.14 292 iP 07 31.91 0.6
PEL 39.41 292 iP 07 34.47 0.9
1.0s 870.00nm 6.5mb

RTCV 39.49 296 ePc 07 33.50 -0.7
LCCH 39.55 291 iP 07 34.87 0.3
VAO 39.55 329 eP 07 35.60 0.8
e 07 37.30
e 07 51.90

CFA 39.57 296 ePc 07 34.20 -0.7
S 07 38.20
JACH 39.75 293 iP 07 34.63 -1.8
CER 39.80 69 iPd 07 35.50 -1.3
1.0s 22.00nm 4.9mb X
ZON 39.82 296 eP 07 36.50 -0.5
RTLL 39.90 296 iPc 07 37.00 -0.7
RTPR 39.91 300 ePc 07 37.40 -0.2
RTBS 40.07 295 iPc 07 40.10 1.2
CYA 41.20 302 ePd 07 46.80 -1.5
SUR 41.33 70 ePc 07 49.59 0.1
CDCB 41.66 334 eP 07 52.50 0.3
i 07 55.70
e 08 02.40
i 08 35.40
i 09 44.10

PPD 41.68 324 eP 07 52.60 0.4
e 07 55.00
e 08 34.40
e 09 38.60

SBA 42.36 184 iPd 07 59.00 1.8
GRM 43.36 77 iPd 08 07.60 1.7
1.5s 34.00nm 4.9mb X
Z 20s 25.30um 6.1MsZ
POF 43.43 67 iPd 08 07.50 1.1
1.0s 18.00nm 4.8mb X
SLA 44.33 305 ePd 08 12.80 -1.2
CRZF 45.99 110 iPd 08 33.00 6.2X
ePP 10 33.00
iS 15 24.00
eSS 18 50.00

05d 04h												
YJA	46.61	306	ePc	08	32.20	-0.3	SS	27	02.00	i	13	29.50
BLF	46.62	73	iPd	08	32.70	0.6	PKKP	29	44.00	e(S)	17	04.00
	0.7s	155.00nm				6.1mb	LO	36	20.00	iPd	13	19.40 0.3
BDF	46.82	331	(P)	08	32.86	-0.9	P	11	48.00 0.3	iPd	13	21.10 0.3
			ePcP	10	12.83			11	54.50 0.5	75.00nm		6.1mb
			eS	15	27.07					eS	17	04.10
BAO	46.87	331	iPc	08	33.60	-0.5	KHZ	76.84	195 P	11	54.40	-0.6
			e	08	36.50		SDV	77.00	315 iPd	11	55.10	-1.4
			e(SS)	18	56.20		TOV	77.53	316 eP	11	58.00	-1.3
			e(PP)	08	55.80		TOV	77.53	316 eP	11	58.20	-1.1
			e	09	04.00		THZ	77.56	195 P	11	59.30	0.1
			e(PPP)	11	15.00		MOW	77.58	196 P	11	59.40	0.2
			e(S)	15	10.20		DSZ	77.72	194 P	11	59.00	-1.0
			e(sScS)	18	47.80		SNZO	77.77	196 P	12	01.50	1.3
			eLR	21	42.00				PP	15	02.00	
ANT	47.34	300	eP	08	38.50	0.9			S	21	54.00	
WIN	48.04	59	iPd	08	44.50	1.1			SS	27	16.00	
	1.0s	500.00nm				6.5mb	MTW	77.80	197 P	12	00.50	0.1
Z	22s	107.00um				6.8Msz	MRW	77.84	196 P	12	01.10	0.5
PRY	49.06	72	iPc	08	50.70	-0.5	PGZ	78.22	197 P	12	03.30	0.6
KSR	49.67	71	iPd	08	56.00	0.0	MNG	78.34	197 P	12	03.50	0.1
	1.0s	46.00nm				5.5mb	TEHZ	78.75	198 P	12	05.90	0.2
CSY	50.21	159	eP	08	59.80	0.5	WAHZ	79.11	198 P	12	07.50	-0.2
	0.7s	114.40nm				6.0mb	FDF	79.43	326 eP	12	11.75	2.1
SLR	50.45	72	iPc	09	00.40	-1.4	NRZ	79.81	196 P	12	11.10	-0.3
	0.8s	18.00nm				5.1mb	URZ	80.39	199 P	12	14.90	0.4
Z	20s	96.60um				6.8Msz	UPA	80.49	307 iPc	12	17.19	1.9
SIV	50.53	315	iPd	09	14.80	12.5X	MGG	80.60	326 eP	12	15.50	-0.3
		(S)		17	42.00		PAG	80.81	326 eP	12	16.50	-0.5
CCH	51.17	308	P	09	07.00	-0.6	DEG	80.91	326 eP	12	17.00	-0.4
BFT	51.34	74	iPc	09	08.00	-0.7	RKG	81.21	150 eP	12	19.00	0.1
	1.0s	90.00nm				5.7mb	BRU	81.58	304 ePc	12	22.22	0.7
PAF	52.04	125	eP	09	19.00	5.6X	MGH	81.62	325 eP	12	22.77	1.7
			eS	16	54.00		BPA	81.83	326 eP	12	23.76	1.6
			SS	20	17.00		BPA	81.83	326 eP	12	20.00	-2.2
CNCB	52.43	307	iPd	09	17.70	0.3	NEV	82.12	325 eP	12	24.43	0.8
		S		16	44.00		CPB	82.38	326 eP	12	25.83	0.8
LPB	52.73	307	iPd	09	19.30	-0.2	TOO	82.75	173 iPd	12	26.90	0.0
	1.0s	664.00nm				6.6mb		0.9s	228.00nm			6.3mb
Z	18s	18.01um				6.2Msz	NWAO	82.83	150 eP	12	26.50	-0.8
			S	16	46.00		BFD	82.9				

VOY	110.49	29	ePKP	19 12.00 18 26.80 18 38.00 19 14.20	-8.2X	BRG	115.03	27	ePKP	18 33.40 18 46.00 18 45.00	-10.0X	SKS	25 56.00 PPS 31 46.00 SSP 37 12.00 SSS 41 20.80				
LJU	110.65	29	e(Pdiff14	22.00	-13.1X	CLL	115.22	26	ePKP	18 45.00	1.3	TPNV	121.06	291	ePKP	18 56.60	1.1
LJU	110.65	29	ePKP	18 33.50 ePP 19 07.00	-1.6				2.0s	42.00nm					7.37um	6.3Msz	
PTJ	110.87	30	ePKP	18 38.60	2.9X	GRS	115.46	55	ePKP	18 44.00	-0.8	ISA	121.09	288	ePKP	18 55.48	0.0
CCM	111.13	310	Pdiff14	44.70	7.3X	SIM	115.49	43	ePdiff15	09.00	12.4X				3.56um	6.0Msz	
			eSKS	25 09.86 eSKKS 26 06.97 eHSKKS 26 07.80 eSDIF 27 31.96 IPS 28 37.61					Z 22s	5.20um	6.1Msz	MNK	121.27	34	iPKP	18 55.00	-0.1
RSNY	111.24	325	PKP	18 40.00	3.7X	KIS	115.57	39	iPKPd-18	48.00	3.5X				6.70um	6.3Msz	
	Z 21s		7.95um		6.3Msz				1.2s	200.00nm					5.05um		
KBA	111.34	28	ePdiff14	46.00	7.7X				Z 20s	2.90um	5.9Msz				eSS	37 00.00	
			e	18 31.00 i 19 22.40					N 20s	1.60um		RSSD	121.41	304	ePKP	18 54.09	-1.9
WMOK	111.35	303	PKP	18 50.00	13.2X				E 20s	2.30um					7.32um	6.3Msz	
	Z 21s		6.00um		6.1Msz				i	19 50.00 e 25 32.00 e 25 48.00		BCH	121.48	287	ePKP	18 57.46	1.2
OCO	111.46	304	iPKPc	18 33.00	-4.0X	SOC	116.32	48	ePKP	18 50.00	3.9X	DUG	122.07	296	PKP	18 57.23	-0.1
CBM	111.72	331	PKP	18 40.00	2.9X				e	29 36.00					4.65um	6.1Msz	
	Z 20s		6.24um		6.2Msz	KRV	116.43	54	iPKP	18 45.00	-1.4	TNP	122.43	291	ePKP	18 58.09	-0.1
WLF	112.25	22	PKP	18 37.00	-1.0				0.8s	140.00nm		BW06	122.69	300	ePKP	18 57.26	-1.3
HYB	112.36	94	ePKPc	18 38.60	-0.6	ANN	116.55	45	ePKP	18 50.00	3.6X				ePP	20 30.98	
	1.0s		45.00nm						Z 19s	2.20um	5.8Msz	SUE	122.90	17	ePKP	19 00.75	2.8X
GEC2	113.08	27	ePKP	18 40.90	1.1				N 19s	3.00um		ULM	123.24	314	ePKPc	18 59.80	0.8
	0.6s		1.27nm						E 19s	2.00um		DAV	123.25	146	ePKP	19 02.00	1.9
			e	18 46.80 e 18 51.00 e 18 56.60 e 19 03.80 e 19 19.30 e 19 29.70 e 19 33.00 e 19 35.10 e 19 39.90 e 19 45.30 e 19 52.80		GLA	117.22	289	ePKPd	18 47.64 ePP 19 59.62	-0.5	HVU	123.32	297	ePKP	18 59.43	-0.3
			ePKKP	29 28.90 e 29 33.20 e 29 37.20 e 29 41.50 e 29 45.10 e 29 52.00		SHE	117.37	56	iPKP	18 50.00	1.9	SAO	123.40	287	PKP	19 10.00	10.2X
ACO	113.17	303	iPKPd	18 28.10	-12.2X							CHTO	123.57	112	Pdiff1	15 44.80	11.6X
SRO	113.26	31	e(Pdiff15	02.20	15.6X				Z 20s	5.00um	6.1Msz				eSKS	26 03.28	
			e(PP)	19 26.10					N 20s	7.00um					eSKKS	27 36.53	
ZST	113.30	30	e(Pdiff15	07.80	21.0X				E 20s	6.00um					eHSKKS	27 37.36	
MLR	113.30	37	ePdiff14	54.00	6.9X										eSDIF	28 43.28	
			e	18 24.00											IPS	30 37.65	
GRF	113.31	26	e(Pdiff14	54.00	7.2X	MAIO	118.60	67	ePKP	18 51.00	0.2	HFS	123.58	23	ePKP	18 57.30	-2.1X
	Z 20s		9.30um		6.4Msz										0.6s	14.00nm	6.4Msz
			e	19 24.70 e 19 31.70		PEC	119.02	288	ePKP	18 52.74	1.2	Z 19s			7.50um		
KHC	113.31	27	ePKP	18 19.50	-20.7X	BSD	119.19	26	ePKP	18 53.00	1.9	KVN	123.62	291	ePKP	19 01.33	0.9
	1.5s		30.30nm			VAN	119.30	64	ePKP	18 53.50	1.6				e	19 03.83	
	Z 20s		7.30um		6.3Msz							NAO	123.69	21	ePKP	18 59.30	-0.3
	N 22s		5.20um									CMB	123.90	288	Pdiff15	50.84	16.5X
	E 20s		4.00um												eSKS	26 01.43	
			e	18 28.50 e 19 33.70 e 19 56.00 e 20 25.50 e 29 28.00		GOL	118.35	301	ePKP	18 49.34	-1.1				eSKKS	26 47.51	
KHC	113.31	27	ePdiff14	58.50	11.6X				eSKP	22 23.40		CMB	123.90	288	ePKP	19 00.37	-0.5
			e	15 09.50 e 16 25.50		MAIO	118.60	67	ePKP	18 51.00	0.2				2.28um	5.8Msz	
MOX	114.30	25	ePKP	18 42.80	0.8				0.8s	9.70nm		ARN	123.91	287	ePKP	19 01.40	0.6
	Z 21s		38.00nm			PEC	119.02	288	ePKP	18 52.74	1.2				e	19 04.27	
			7.70um		6.3Msz	BSD	119.19	26	ePKP	18 53.00	1.9				eSKP	22 34.63	
PRU	114.34	28	ePKP	18 23.00	-19.1X	VAN	119.30	64	ePKP	18 53.50	1.6	NB2	123.96	21	PKP	18 59.80	-0.4
	Z 21s		6.40um		6.2Msz										0.8s	21.10nm	
	N 20s		4.80um									UPP	124.13	25	iPKP	18 59.30	-1.1
	E 20s		2.90um									DMN	124.16	93	PKP	19 01.40	-0.5
			e	18 44.50 e 18 54.30 e 19 38.10 e 29 23.00		ASH	119.42	65	ePKP	18 54.00	1.9	GKN	124.25	93	PKP	19 01.20	-0.7
EEO	114.49	323	ePKP	18 47.50	5.0X							PKI	124.29	94	PKP	19 01.60	-0.7
TUC	114.69	292	Pdiff15	10.18	16.7X	KAT	119.50	62	ePKP	18 55.00	2.8X	KKN	124.40	93	PKP	19 02.00	-0.3
			eSKS	25 28.57					Z 20s	7.00um	6.3Msz	MOL	124.77	18	ePKP	19 01.85	0.3
TUC	114.69	292	ePKP	18 42.68	-0.8				N 20s	5.60um		GUN	124.80	94	PKP	19 02.60	-0.6
	Z 20s		6.06um		6.2Msz				E 20s	8.40um		OBN	125.01	39	iPKPd	19 02.00	-0.3
ANMO	114.89	297	(Pdiff15	10.88	16.4X										0.8s	93.00nm	6.1Msz
			e	18 44.50 e 18 54.30 e 19 38.10 e 29 23.00		KHT	119.91	114	ePKP	18 54.00	0.4				Z 20s	4.10um	
			ePKP	18 47.50	5.0X	JAQ	119.97	329	ePKP	18 51.00	-1.7				N 20s	3.30um	
			Pdiff15	10.18	16.7X	GSC	119.99	289	Pdiff1	15 28.81	11.8X				E 20s	4.10um	
			eSKS	25 28.57											e	19 13.00 i 20 54.00 ePPP 23 36.00 e 26 00.00 ePPS 32 12.00 eSSS 42 32.00	
			ePKP	18 42.68	-0.8	SRU	120.16	296	ePKP	18 51.35	-2.4X	NTYM	125.28	287	ePKP	19 03.82	0.5
			6.06um		6.2Msz				e	18 55.84 e 19 04.44 ePP 20 19.96					e	19 06.90	
			(Pdiff15	10.88	16.4X							AKU	125.32	4	iPKP	19 06.80	4.2X
			e	18 44.50 e 18 54.30 e 19 38.10 e 29 23.00		ARUT	120.42	293	ePKP	18 56.45	2.2X				1.0s	68.00nm	6.6Msz
			ePKP	18 47.50	5.0X	MSU	120.43	295	ePKP	18 54.12	-0.2	ORV	125.63	289	ePKP	19 04.46	0.4
			Pdiff15	10.18	16.7X				e	18 57.66 ePP 20 17.64 eSKP 22 27.68					iPP	21 08.83	
			eSKS	25 28.57								MOS	125.87	39	ePKP	19 02.00	-2.0
			ePKP	18 42.68	-0.8	NDI	121.06	86	ePKP	18 55.50	0.0				1.8s	350.00nm	
			6.06um		6.2Msz				ePP	20 32.00							

05d 04h

Z	20s	6.50um	6.3Msz	CVP	132.07	137	ePKP	19	10.50	-6.4X	GTA	140.94	97	PP	22	35.00				
		e	19 14.00	GMW	132.32	294	ePKP	19	15.44	-1.1		Z	20s	4.90um	19	26.00	-7.1X			
LCCM	126.13	300	ePKPc	19 04.50			i	19	19.56			E	18s	2.03um			6.3Msz			
NUR	126.32	28	iPKP	19 03.80			ePP	21	45.32					PP	22	28.00				
			ePP	21 04.00	JCW	132.40	296	PKP	19	16.33	-0.4			SKKS	29	16.00				
			ePKS	22 28.00	PRZ	132.50	76	iPKP	19	20.00	2.7X	XAN	141.15	111	PKP	19	26.70	-6.8X		
			eSS	38 00.00		1.4s	190.00nm					Z	20s	2.79um			6.0Msz			
WDC	126.93	289	ePKP	19 06.69		Z	20s	8.00um		6.4Msz		E	20s	4.07um						
Z	19s	2.31um	5.9Msz			N	20s	3.50um						SKS	26	32.00				
		e	19 09.62			E	20s	8.00um						SKKS	29	28.00				
		e	19 29.39	TLG	132.58	75	ePKP	19	16.00	-1.3	ELT	143.73	70	iPKPd	19	34.00	-3.2X			
PUL	127.12	32	(PKP)	19 05.00		3.0s	63.00nm			6.7Msz		1.9s	767.00nm	eSS	41	29.00				
N	20s	4.60um				Z	19s	15.00um						e	46	48.00				
E	19s	4.50um				N	17s	2.30um						e	19	37.00	-1.2			
		e	19 16.00			E	18s	3.30um						PKPc	19	37.00	6.0Msz			
		e	21 10.00					i	21	45.00		NJ2	143.90	125	PKPc	19	37.00			
		e	26 08.00					ePPP	24	31.00		Z	18s	2.12um						
		e	31 00.00					ePS	31	48.00		N	18s	2.60um						
		(SS)	38 08.00					ePPS	33	43.00		E	18s	1.87um						
FRB	127.32	338	ePKP	19 05.50				eSSS	44	16.00				pPKP	19	47.00				
KAF	128.11	28	iPKP	19 07.70	SDF	132.65	25	iPKP	19	15.20	-1.4	SSE	144.01	128	ePKPd	19	35.49	-2.9X		
	0.8s	80.20nm						i	22	41.00		Z	20s	3.70um			6.2Msz			
QIZ	128.65	123	PKP	19 11.00	MCW	133.17	295	PKP	19	18.20	0.0	N	18s	2.80um						
N	20s	5.45um			GUMO	133.41	168	(Pdiff)	16	14.10	-2.9X	E	18s	3.00um						
HON	128.71	243	PKP	19 20.00		e	16	24.10						ePP	22	53.45				
Z	19s	3.33um	6.0Msz		GUMO	133.41	168	(PKP)	19	12.00	-7.5X	SIT	144.35	298	PKP	19	50.00	11.8X		
LSA	128.91	97	PKP	19 11.60		Z	21s	2.10um		5.8Msz		Z	21s	5.11um			6.3Msz			
Z	20s	8.07um	6.4Msz		PGC	133.43	295	ePKP	19	22.00	3.5X	TIY	145.79	112	PKPd	19	40.80	-0.6		
N	19s	4.81um			GZH	133.73	124	PKP	19	22.00	2.1X	Z	19s	6.88um			6.5Msz			
		PP	21 20.00			Z	18s	4.84um		6.3Msz		N	18s	3.01um						
KSH	129.01	77	PKP	19 09.70				PP	21	52.00				pPKP	19	50.50				
Z	20s	6.22um	6.3Msz		GYA	133.73	115	PKP	19	19.60	-0.4	TIA	146.71	119	PKPc	19	43.10	0.3		
N	20s	9.54um				Z	26s	3.07um		5.9MszX		Z	20s	5.70um			6.4Msz			
E	20s	5.31um				N	20s	3.02um				E	20s	3.98um						
		SKS	26 09.00			E	20s	4.35um						SS	42	08.00				
		SKKS	28 09.00					sPKP	19	35.00		BTO	146.90	106	iPKPc	19	45.00	1.9		
LNOR	129.01	296	PKP	19 13.11				PP	21	48.00		N	20s	2.24um						
VIPM	129.04	293	PKP	19 14.42				PKS	22	50.00		E	18s	3.35um						
DBO	129.22	290	PKP	19 14.94				SKKS	28	40.00				pPKP	19	55.00				
JBO	129.41	295	PKP	19 14.63	ARU	133.81	50	ePKP	19	03.00	-16.1X			eSKS	26	45.50				
MOR7	129.41	20	ePKP	19 09.99		Z	20s	6.00um		6.3Msz		KAGJ	147.56	142	PKP	19	47.20	2.9X		
FCC	129.55	321	ePKP	19 13.00		N	20s	3.50um				HHC	147.84	107	PKP	19	45.00	0.4		
CROR	129.58	293	PKP	19 15.43		E	20s	2.50um				Z	20s	4.48um			6.3Msz			
VGB	129.88	294	(PKP)	19 13.13				i	19	20.00		N	20s	3.42um						
		i	19 15.27					e	19	30.00		E	19s	4.13um						
		eSKP	22 33.20					e	21	53.00				PP	23	19.00				
VBEM	129.91	293	PKP	19 15.59				e	24	41.00		KUMJ	148.79	141	PKP	19	52.90	6.6X		
RNO	130.06	291	PKP	19 16.42	KEV	134.73	23	ePKP	19	21.00	0.6	BJI	149.40	113	ePKPd	19	46.65	-0.3		
SSOR	130.17	292	PKP	19 15.63				ePP	22	00.00		Z	20s	3.59um			6.2Msz			
WAH2	130.26	296	PKP	19 16.61				e	22	48.00		N	19s	3.23um						
NEW	130.29	299	ePKP	19 12.40	SVE	134.89	51	iPKPc	19	09.00	-12.1X			ePKPbc	19	53.93				
Z	20s	2.58um	5.9Msz					e	21	57.50				e	19	59.23				
		e	19 15.09					e	25	03.00				e	23	25.30				
		eSKP	22 26.14	CD2	136.11	108	PKP	19	21.70	-2.6X			eSKKS	30	08.00					
BAG	130.44	136	PKP	19 14.00		Z	20s	4.12um		6.2Msz			eSS	42	28.00					
		e	21 18.00			N	17s	2.18um			BALM	149.51	300	ePKP	19	46.34	-0.3			
		e	21 36.00					sPKP	19	34.50				ePKPbc	19	52.95				
DPW	130.48	298	PKP	19 16.30				PP	22	03.00		MOY	149.99	82	ePKPd	19	47.00	0.4		
ASR	130.73	294	PKP	19 17.32				SS	40	04.00		1.6s	85.00nm	i	19	54.10				
KMI	130.77	112	ePKP	19 14.97	DAG	136.40	3	ePKP	19	12.20	-11.2X			SHNJ	150.35	140	PKP	19	54.40	5.9X
Z	16s	1.50um	5.8MszX			0.5s	47.89nm							ZAK	150.35	86	iPKPd	19	48.00	0.0
N	16s	1.30um				QZH	137.51	129	ePKP	19	24.00		1.7s	177.00nm	e	19	59.20			
		eHPP	21 24.46				Z	20s	3.74um	6.1Msz				e	19	59.20				
		ePP	21 25.29					PP	22	08.00				ePPS	36	30.00				
		iSKP	22 36.47					SS	40	16.00				eSS	42	48.00				
		eSKKS	28 23.36					eSKP	23	11.23		DL2	150.92	122	ePKP	19	48.50	-0.7		
		eHSKKS28	26.94					eSKS	26	45.73		Z	24s	2.37um			5.9MszX			
LOF	130.89	19	ePKP	19 15.43	WMO	138.09	82	(PKP)	19	28.18	0.4			PP	23	38.00				
SAW	130.89	297	PKP	19 17.20				ePP	22	18.26		TKSJ	151.12	145	PKP	19	53.00	3.3X		
FRU	130.92	73	ePKP	19 14.00				eSKP	23	11.23		SHK	151.22	142	ePKP	19	52.60	2.7X		
	2.0s	160.00nm						ePS	29	10.74		KLU	151.26	300	ePKP	19	48.24	-1.0		
Z	20s	9.00um	6.5Msz					ePKP	19	28.02	-0.3			ePKPbc	19	54.63				
E	20s	11.00um						ec	19	36.55				i	19	57.84				
		e	21 36.00					ePP	22	14.32		TLY	151.32	84	ePKP	19	49.53	0.0		
SHW	131.06	294	ePKP	19 16.15				eSKP	22	56.53				ePKPbc	19	56.98				
		iSKP	22 35.81					eSKS	26	45.73				e	20	05.58				
WTV	131.14	296	PKP	19 16.52	YKA	139.22	315	ePKP	19	24.50	-4.5X			e	23	38.11				
KMOR	131.23	292	PKP	19 18.14		0.8s	66.50nm							e	19	56.00				
LON	131.28	294	ePKP	19 14.42	KBS	140.32	11	ePKP	19	27.90	-2.7X			i	23	43.00				
		e	19 18.05		LZH	140.36	104	ePKP	19	25.00	-7.2X			e	19	58.30	7.5X			
		eSKP	22 33.24			Z	20s	2.72um		6.0Msz				e	19	50.80	1.2			
FMW	131.35	295	PKP	19																

			i	20	01.30		YAK	168.15	69	ePKP	20	08.00	0.4	PKI	124.30	94	PKP	35	30.40	-1.1	
			e	23	41.00			2.2s	246.00nm					KKN	124.42	93	PKP	35	30.80	-0.8	
YONJ	152.07	143	PKP	19	58.60	7.5X			i	25	09.00			GUN	124.82	94	PKP	35	31.80	-0.7	
KDC	152.66	290	ePKP	19	51.97	0.8			e	27	10.00			LCCM	126.11	300	ePKP	35	34.30	0.0	
			e	19	57.54				e	29	14.00			NUR	126.31	29	iPKP	35	33.10	-0.8	
			ePKPbc	20	00.44				e	38	52.00				0.5s	5.60nm					
PMR	152.72	299	ePKP	19	49.80	-1.3			e	45	46.00			FRB	127.30	338	ePKP	35	35.00	-0.7	
	1.5s	83.00nm					PET	172.67	204	ePKP	20	10.00	-0.1	KAF	128.10	28	iPKP	35	36.50	-0.8	
Z	20s	5.00um			6.3Msz			1.5s	125.00nm						0.7s	18.10nm					
PMS	152.78	298	ePKP	19	50.40	-0.9			e	25	28.00			LSA	128.93	97	PKP	35	40.80	0.3	
SLKM	152.79	296	ePKP	19	49.79	-1.6		MGD	178.52	77	iPKP	20	10.00	-1.3	FCC	129.53	321	ePKP	35	41.50	1.4
			e	19	57.24			4.0s	2000.00nm					GVA	133.75	115	ePKP	35	50.00	0.7	
TSRJ	153.13	147	ePKP	19	55.40	2.8X			i	25	56.00			WMO	138.10	82	PKP	35	53.00	-4.0X	
FBA	153.25	306	ePKP	19	51.10	-0.7			i	27	04.00			XAN	141.17	111	PKP	35	58.50	-4.3X	
	0.9s	23.80nm							iPPP	30	22.00			TIY	145.81	112	iPKPc	36	10.40	-0.3	
IIDJ	153.59	150	ePKP	19	56.10	2.8X		S.D. = 0.9 on 246 of 391 obs.						KAGJ	147.59	142	PKP	36	16.60	3.0X	
RSO	153.93	295	ePKP	19	50.32	-2.9X		APR 05, 1993 04h 16m 34.63± 0.22s						HHC	147.86	107	PKP	36	17.00	3.1X	
CRP	153.95	297	ePKP	19	49.99	-3.2X		59.786 S ± 6.4km 26.344 W ± 6.4km						KUMJ	148.81	141	ePKP	36	19.10	3.6X	
			e	20	03.34			DEPTH = 33.0km (normal)						BJI	149.42	113	ePKP	36	16.00	-0.2	
			ePKPab	20	12.43			5.5mb (18 obs.)							Z	20s	4.49um		6.3Msz		
CP2	153.99	297	ePKP	19	51.18	-2.1X		SOUTH SANDWICH ISLANDS REGION (153)							N	19s	3.80um				
			e	20	03.12												pPKP	36	21.00		
SNY	154.17	121	PKPd	19	53.00	-0.8		AIA	18.11	236	eP	20	46.40	1.6	DL2	150.94	122	ePKP	36	24.50	6.0X
	Z	22s	6.42um		6.4Msz		MAW	36.92	140	iP	23	42.00	0.5	TKSJ	151.15	145	PKP	36	25.70	6.7X	
	E	22s	5.85um					1.1s	43.48nm			5.2mb		WKYJ	151.81	147	PKP	36	27.30	7.2X	
			SS	43	28.00		VAO	39.53	329	eP	24	04.70	0.8	YONJ	152.09	143	PKP	36	27.40	7.0X	
CHJJ	154.39	152	ePKP	20	02.80	8.5X		PPD	41.66	324	iPd	24	21.50	0.2	MAT	154.69	150	ePKP	36	13.00	-10.9X
MTMJ	154.61	149	ePKP	19	57.10	2.4X		BLF	46.63	73	eP	25	01.80	0.4	MDJ	159.01	126	ePKP	36	28.40	-0.6
MAJO	154.67	150	ePKP	19	55.85	1.2			0.7s	44.00nm		5.5mb			S.D. = 0.9 on 52 of 65 obs.						
			e	20	04.04			WIN	48.04	59	eP	25	13.00	0.3		APR 05, 1993 04h 34m 57.41± 0.31s					
			ePP	23	50.56				1.0s	70.00nm		5.6mb			59.888 S ± 9.0km 26.287 W ± 9.1km						
			eHPP	23	51.55			PRY	49.07	73	eP	25	20.70	0.2		DEPTH = 33.0km (normal)					
MAT	154.67	150	(PKP)	19	55.00	0.3			0.7s	11.00nm		5.0mb			5.2mb (7 obs.)						
	Z	20s	3.19um		6.1Msz		KSR	49.68	71	eP	25	24.50	-0.8		SOUTH SANDWICH ISLANDS REGION (153)						
SDN	155.43	280	ePKP	19	54.30	-0.7			1.0s	60.00nm		5.6mb		SNA	14.39	146	iPd	38	18.40	-2.0	
SVW	155.47	295	ePKP	19	54.90	-0.1		SLR	50.46	72	eP	25	30.00	-1.1		0.7s	154.79nm		5.7mb		
IMA	155.91	307	ePKP	19	53.60	-2.0X			0.7s	27.00nm		5.4mb		NVL	18.87	141	eP	39	17.00	0.1	
	1.6s	45.30nm					ARE	54.18	303	eP	26	00.00	0.8	CFA	39.62	297	e(P)	42	27.10	-0.2	
TTA	156.20	299	ePKP	19	54.30	-1.7		BUL	55.38	69	iPd	26	07.00	-0.8	VAO	39.63	329	eP	42	28.50	1.0
CN2	156.57	120	PKPc	19	57.00	0.0			0.9s	42.02nm		5.5mb		PPD	41.76	324	eP	42	44.10	-0.8	
	N	17s	2.19um				NNA	60.47	300	eP	26	42.80	-0.6				e	42	44.80		
	E	17s	1.27um					0.8s	37.31nm		5.6mb		BAO	46.95	331	eP	43	26.00	-0.8		
			pPKP	20	06.00		ABM	64.92	86	iPd	27	15.30	2.2				e	43	29.80		
			PKPab	20	21.00		VTY	65.60	86	iPd	27	19.40	1.9	CCH	51.24	308	P	43	59.50	-0.6	
BRW	157.29	321	ePKP	19	52.79	-4.2X		OPO	65.77	85	iPd	27	20.80	2.3	CNCB	52.49	307	P	44	10.00	0.1
OFUJ	157.91	154	ePKP	19	59.00	0.2		LIC	67.94	23	P	27	32.00	0.0	LPB	52.79	307	P	44	11.90	0.0
HIA	157.92	103	ePKPd	19	57.75	-0.8		KIC	68.13	23	P	27	33.40	0.2	ZOBO	53.04	307	P	44	13.70	-0.3
			ePKPab	20	32.18			LKO	71.07	22	P	27	51.50	0.3	ARE	54.26	303	eP	44	23.00	0.4
			ePP	24	12.81				0.7s	29.00nm		5.5mb		BUL	55.39	69	iPd	44	30.30	-0.3	
VLA	158.64	132	iPKPc	20	02.50	3.1X		TOO	82.76	173	iPc	28	55.80	-0.4		0.9s	20.59nm		5.2mb		
			i	20	16.00				0.9s	99.00nm		5.9mb		NNA	60.55	300	eP	45	05.50	-1.2	
			i	20	35.00			BFD	82.96	171	iPc	28	56.80	-0.4		0.8s	14.18nm		5.1mb		
MDJ	158.99	126	ePKPd	19	59.48	-0.3			0.7s	33.00nm		5.5mb		LIC	68.03	23	P	45	54.98	-0.4	
	Z	20s	5.66um		6.4Msz		CAN	85.17	176	iPc	29	08.40	0.0	KIC	68.22	23	P	45	56.62	0.1	
	N	20s	4.19um				CNB	85.18	176	iPd	29	08.70	0.2	LKO	71.16	22	P	46	14.82	0.3	
			ePKPab	20	34.58				0.7s	29.00nm		5.6mb			0.7s	13.00nm		5.1mb			
			eSKP	23	31.18		BWA	86.04	176	iPc	29	12.60	-0.2	BCAO	73.12	47	iPd	46	27.00	0.8	
			eHPP	24	14.22		STK	88.13	170	iPc	29	23.10	0.2		0.4s	23.00nm		5.5mb			
			ePP	24	14.78				0.9s	14.90nm		5.3mb		STK	88.02	170	eP	47	47.10	1.9	
			SS	44	16.00		CMS	88.84	173	iPc	29	26.30	0.0		0.7s	4.30nm		4.9mb			
BOD	159.66	78	ePKP	19	58.10	-2.0X			0.9s	22.00nm		5.5mb		ASPA	95.18	162	iPd	48	19.50	0.9	
	1.0s	73.00nm							89.19	149	eP	29	28.00	-0.1		0.6s	8.90nm		5.4mb		
ERM	161.04	155	ePKP	20	01.22	-0.8	MEEK	89.19	149	eP	29	28.00	-0.1	NB2	124.03	21	PKP	53	51.90	-0.5	
ADK	161.70	257	ePKP	19	59.20	-3.1X	ARMA	90.12	178	iPd	29	32.30	-0.2		0.7s	1.00nm					
KUSJ	162.39	158	ePKP	20	05.80	2.5X			0.8s	13.00nm		5.3mb		DMN	124.15	93	PKP	53	53.80	-0.1	
ASAJ	162.92	152	ePKP	20	07.00	3.2X	TIO	91.74	16	iP	29	43.00	3.4X		0.8s	30.00nm					
TIK	164.53	30	iPKPd	20	03.00	-1.5	BRS	93.15	179	ePc	29										

APR 05, 1993 04h 52m 32.00± 0.17s 59.806 S ± 4.7km 26.352 W ± 5.0km DEPTH = 33.0km (normal) 5.3mb (23 obs.) 5.8Msz (3 obs.) SOUTH SANDWICH ISLANDS REGION (153)					WARB 0.8s 15.00nm 5.3mb 91.49 156 iPd 05 36.10 -0.1 BRS 93.13 179 iP 05 43.50 -0.2 RMO 93.93 176 iPd 05 48.00 0.6 0.9s 17.00nm 5.5mb e 07 30.40 5.8mb ASPA 95.27 162 iPc 05 52.90 -0.8 0.9s 34.00nm 5.8mb WRA 98.99 162 P 06 09.90 -0.6 0.8s 1.60nm 4.6mb WB2 98.99 162 iPd 06 09.60 -0.9 0.8s 4.20nm 5.0mb HY8 112.38 94 ePKP 11 05.20 -0.8 QUE 117.19 76 ePKP 11 16.40 1.3 JAO 119.96 329 ePKP 11 18.00 -1.3 ULM 123.23 314 ePKP 11 26.50 0.8 CHG 123.59 112 ePKP 11 27.00 -0.4 HFS 123.60 23 ePKP 11 24.20 -1.9 0.4s 1.10nm Z 21s 1.38um 5.6Msz LR 58 09.00 NB2 123.97 21 PKP 11 26.00 -0.9 0.9s 6.00nm DMN 124.18 93 PKP 11 28.40 -0.3 0.8s 61.00nm GKN 124.27 93 PKP 11 28.20 -0.5 0.8s 50.00nm PKI 124.31 94 PKP 11 28.40 -0.6 0.8s 43.00nm KKN 124.42 93 PKP 11 28.80 -0.2 0.6s 32.00nm GUN 124.82 94 PKP 11 29.40 -0.6 LCCM 126.11 300 ePKP 11 32.00 0.3 NUR 126.33 29 ePKP 11 30.50 -0.9 FRB 127.32 338 ePKP 11 32.00 -1.2 KAF 128.12 28 iPKP 11 33.70 -1.1 0.6s 9.50nm LSA 128.93 97 PKPd 11 38.20 0.2 FCC 129.54 321 ePKP 11 39.00 1.5 SVE 134.91 51 ePKP 11 48.00 0.2 DAG 136.41 3 ePKP 11 49.80 -0.3 0.8s 8.96nm YKA 139.20 315 ePKP 11 45.70 -10.0X 0.5s 3.80nm LZH 140.38 104 ePKP 12 00.00 1.1 Z 22s 2.51um 5.9Msz E 17s 0.96um PP 15 02.50 GTA 140.96 97 PKP 12 02.00 2.2X XAN 141.17 111 PKP 11 57.50 -2.7X ELT 143.76 70 ePKP 12 00.00 -3.9X 1.0s 47.00nm TIY 145.81 112 PKPd 12 08.00 -0.1 TIA 146.72 119 ePKP 12 11.10 1.6 BTO 146.92 106 ePKP 12 09.00 -0.9 HHC 147.86 107 PKP 12 14.60 3.2X BJI 149.41 113 ePKP 12 18.50 4.9X MOY 150.01 82 ePKPc 12 14.00 -0.1 1.2s 96.00nm i 12 19.90 ZAK 150.37 86 ePKPc 12 14.00 -0.7 1.1s 14.00nm i 12 20.30 DL2 150.94 122 PKPc 12 21.80 5.8X TKSJ 151.13 145 PKP 12 23.00 6.6X NRI 151.77 43 ePKP 12 16.00 -0.3 e 12 23.00 WKYJ 151.79 147 PKP 12 25.00 7.5X IRK 152.02 83 ePKP 12 14.00 -3.2X 2.3s 51.00nm e 12 23.30 YONJ 152.08 143 ePKP 12 24.80 7.0X PMR 152.70 299 ePKP 12 24.90 7.1X 0.8s 31.00nm FBA 153.24 306 ePKP 12 25.60 7.1X 0.9s 15.70nm MAT 154.67 150 (PKP) 12 25.00 3.7X 1.1s 21.52nm IMA 155.90 307 ePKP 12 31.30 9.0X 0.8s 4.80nm CN2 156.59 121 ePKP 12 23.00 -0.7 MDJ 159.00 126 ePKP 12 26.30 -0.2 BOD 159.68 78 ePKP 12 24.70 -2.1X S.D. = 0.9 on 82 of 103 obs.					DEPTH = 33.0km (normal) 5.2mb (4 obs.) SOUTH SANDWICH ISLANDS REGION (153) SNA 14.28 146 e(P) 59 42.20 -2.0 0.7s 73.00nm 5.4mb NVL 18.76 141 eP 00 49.00 8.2X PPD 41.87 324 eP 04 08.50 -2.6 BAO 47.06 331 eP 04 51.70 -1.3 CCH 51.35 308 eP 05 27.00 0.8 CNCB 52.61 306 P 05 36.80 0.8 LPB 52.91 306 P 05 38.00 0.0 ZOBO 53.15 307 P 05 40.20 0.1 ARE 54.37 303 eP 05 49.00 0.3 BUL 55.35 69 iPd 05 56.00 0.4 1.0s 15.00nm 5.0mb LIC 68.08 23 P 07 21.00 0.1 KIC 68.27 23 P 07 22.20 0.1 TIC 68.49 23 P 07 23.60 0.1 LKO 71.21 21 P 07 40.36 0.2 BCAO 73.13 47 iPd 07 52.20 0.7 0.3s 12.00nm 5.4mb STK 87.92 170 eP 09 12.30 2.3 0.8s 3.40nm 4.7mb S.D. = 1.3 on 15 of 16 obs.					APR 05, 1993 04h 59m 41.77± 0.84s 40.626 N ± 5.3km 23.809 E ± 7.9km DEPTH = 10.0km (geophysicist) GREECE (364) ML 2.4 (THE). OUR 0.32 156 iPg 59 48.68 0.3 eSg 59 53.36 SOH 0.40 300 iPg 59 49.90 0.0 eSg 59 55.32 SRS 0.52 342 iPg 59 51.93 -0.3 THE 0.64 271 ePg 59 54.52 -0.1 eSg 00 02.96 PAIG 0.70 188 ePg 59 55.32 -0.3 eSg 00 04.56 KNT 0.87 308 iPg 59 58.32 -0.2 eSg 00 10.92 GRG 1.12 288 ePg 00 02.80 0.0 eSg 00 18.00 LIT 1.14 243 ePg 00 03.04 0.0 eSg 00 18.48 VAY 1.17 307 ePn 00 04.30 0.7 S.D. = 0.4 on 9 of 9 obs.					* APR 05, 1993 05h 02m 39.00± 0.32s 59.894 S ± 9.6km 26.257 W ± 10.0km DEPTH = 33.0km (normal) 5.1mb (9 obs.) SOUTH SANDWICH ISLANDS REGION (153) SNA 14.38 146 e(P) 05 59.00 -2.8 0.8s 71.64nm 5.3mb RTBS 40.14 295 ePd 10 14.40 1.3 PPD 41.77 324 eP 10 26.20 -0.4 BAO 46.96 331 iPd 11 08.00 -0.5 e 11 12.40 e 11 23.10 CCH 51.25 308 P 11 41.50 -0.3 CNCB 52.51 307 P 11 51.00 -0.6 LPB 52.81 307 P 11 53.20 -0.4 ZOBO 53.06 307 P 11 54.60 -1.1 BUL 55.37 69 iPd 12 11.90 -0.2 0.9s 21.01nm 5.2mb NNA 60.57 300 iPd 12 47.50 -0.9 0.8s 14.93nm 5.2mb LIC 68.03 23 P 13 36.96 0.0 KIC 68.22 23 P 13 38.40 0.3 0.9s 17.50nm 5.1mb TIC 68.44 23 P 13 39.34 -0.2 0.8s 9.50nm 4.9mb LKO 71.16 22 P 13 56.30 0.2 0.7s 12.00nm 5.1mb STK 88.01 170 eP 15 28.10 1.4 0.9s 4.20nm 4.7mb ASPA 95.17 162 iPd 16 00.70 0.6 0.9s 10.20nm 5.3mb WRA 98.89 162 P 16 18.20 1.2 0.8s 0.70nm 4.2mb CHG 123.51 112 ePKP 21 34.70 0.6 NB2 124.03 21 PKP 21 33.30 -0.6 0.9s 3.00nm				
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GKN 124.22 93 PKP 21 35.60 0.1
0.8s 21.00nm
PKI 124.25 94 PKP 21 35.60 -0.2
0.7s 14.00nm
KKN 124.37 93 PKP 21 36.00 0.1
0.7s 17.00nm
GUN 124.77 94 PKP 21 37.00 0.2
0.8s 26.00nm
BGMT 125.80 300 ePKP 21 38.50 0.4
YKA 139.30 315 ePKP 21 55.20 -7.6X
0.8s 3.90nm
XAN 141.09 111 PKP 22 06.90 -0.1
TIY 145.73 112 PKP 22 16.50 1.6
TIA 146.64 119 ePKP 22 16.90 0.6
BTO 146.85 106 ePKP 22 19.00 2.3X
HHC 147.79 107 PKP 22 21.80 3.6X
BJI 149.34 113 ePKP 22 25.00 4.6X
MDJ 158.91 126 ePKP 22 33.00 -0.3
S.D. = 0.9 on 28 of 32 obs.

* APR 05, 1993 05h 33m 47.29±0.36s
59.892 S ± 8.4km 26.125 W ±10.8km
DEPTH = 33.0km (normal)
5.1mb (6 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.34 146 IPd 37 06.70 -2.9
0.7s 94.52nm 5.5mb
NVL 18.82 141 eP 38 06.00 -0.1
SPA 30.28 180 IPc 39 58.20 1.0
0.9s 42.27nm 5.2mb
PPD 41.81 324 eP 41 34.00 -1.2
BAO 46.99 331 (P) 42 16.00 -1.0
CNCB 52.56 306 P 43 00.70 0.4
LPB 52.86 306 eP 43 01.00 -1.3
ZOBO 53.11 307 P 43 04.60 0.3
ARE 54.33 303 eP 43 13.00 0.0
BUL 55.31 69 eP 43 19.50 -0.5
LIC 68.00 23 P 44 45.40 0.4
KIC 68.19 23 P 44 46.50 0.3
TIC 68.41 23 P 44 47.40 -0.2
LKO 71.13 21 P 45 04.58 0.3
BCAO 73.07 47 IPd 45 16.90 1.1
0.4s 14.00nm 5.3mb
STK 88.00 170 IPd 46 36.20 1.2
0.7s 2.80nm 4.7mb
ASPA 95.15 162 IPd 47 08.90 0.6
0.7s 6.00nm 5.1mb
WRA 98.87 161 P 47 26.40 1.2
0.6s 0.40nm 4.1mb
NB2 124.01 21 PKP 52 41.80 -0.4
0.9s 1.60nm
DMN 124.06 93 PKP 52 44.00 0.4
GKN 124.15 92 PKP 52 43.80 0.1
PKI 124.19 93 PKP 52 44.00 0.0
KKN 124.30 93 PKP 52 44.20 0.2
0.6s 9.00nm
GUN 124.70 94 PKP 52 45.20 0.3
YKA 139.35 315 ePKP 53 03.00 -8.1X
0.7s 1.30nm
S.D. = 1.0 on 24 of 25 obs.

APR 05, 1993 05h 54m 32.94±0.31s
59.894 S ± 9.9km 26.234 W ± 9.0km
DEPTH = 33.0km (normal)
5.1mb (7 obs.) 4.7Msz (1 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.37 146 IPc 57 53.60 -2.1
0.7s 267.00nm 5.9mb
NVL 18.85 141 IP 58 53.00 0.8
1.0s 55.00nm 4.7mb
CFA 39.64 296 ePc 02 03.00 0.0
VAO 39.65 329 eP 02 03.50 0.3
RTLL 39.98 296 ePd 02 06.00 0.1
RTBS 40.15 295 ePd 02 08.90 1.8
PPD 41.78 324 eP 02 20.30 -0.3
0.2s 02.50nm
BAO 46.97 331 IPc 03 02.00 -0.5
CCH 51.26 308 P 03 35.80 0.0
CNCB 52.52 307 P 03 45.90 0.3
LPB 52.82 307 P 03 47.40 -0.3
ZOBO 53.07 307 IPc 03 49.00 -0.7
1.0s 23.75nm 5.1mb
ARE 54.29 303 IPd 03 59.00 0.7
BUL 55.36 69 IPc 04 06.10 0.1

1.0s 10.00nm 4.8mb
NNA 60.58 300 eP 04 39.80 -2.7
0.7s 23.29nm 5.4mb
LIC 68.02 23 P 05 30.00 -0.8
Z 21s 0.50um 4.7Msz
KIC 68.21 23 P 05 32.00 0.0
LKO 71.15 22 P 05 50.14 0.1
BCAO 73.11 47 IPc 06 02.20 0.5
0.8s 21.00nm 5.2mb
ic 06 17.50
ASPA 95.16 162 eP 07 55.40 1.4
0.9s 5.60nm 5.0mb
ULM 123.34 314 ePKP 13 29.00 2.3X
NB2 124.03 21 PKP 13 27.80 -0.1
1.0s 3.50nm
DMN 124.12 93 PKP 13 29.60 0.2
0.7s 22.00nm
GKN 124.21 93 PKP 13 30.00 0.6
PKI 124.24 94 PKP 13 29.60 -0.1
0.6s 10.00nm
KKN 124.36 93 PKP 13 30.20 0.4
0.6s 13.00nm
GUN 124.76 94 PKP 13 30.80 0.1
0.8s 23.00nm
FRB 127.42 338 ePKP 13 34.00 -0.2
KAF 128.17 28 IPK 13 35.20 -0.5
0.5s 4.50nm
FCC 129.64 321 ePKP 13 41.50 2.9X
DAG 136.49 2 ePKP 13 51.50 0.3
0.9s 5.04nm
LZH 140.30 104 ePKP 13 57.50 -2.1
GTA 140.89 97 ePKP 14 01.00 0.5
XAN 141.08 111 PKP 14 01.10 0.2
TIY 145.72 112 PKPc 14 10.20 1.4
TIA 146.63 119 ePKP 14 13.40 3.2X
BTO 146.84 106 ePKP 14 13.50 2.9X
HHC 147.78 107 PKP 14 16.40 4.3X
BJI 149.33 113 ePKP 14 20.00 5.6X
DL2 150.84 122 ePKP 14 23.50 6.8X
CN2 156.49 121 ePKP 14 25.00 0.6
S.D. = 0.9 on 34 of 41 obs.

? APR 05, 1993 06h 33m 13.45±1.06s
21.436 S ±17.2km 69.004 W ±35.3km
DEPTH = 174.2 ± 13.2 km
3.7mb (1 obs.)

NORTHERN CHILE (123)

ANT 2.61 210 eP 33 57.50 0.0
CNCB 4.70 12 IPc 34 24.50 -0.2
CCH 4.86 34 P 34 26.50 0.0
LPB 4.95 10 P 34 27.90 0.1
ZOBO 5.21 9 P 34 31.20 -0.1
YKA 91.10 341 eP 45 58.80 0.0
0.6s 0.40nm 3.7mb
S.D. = 0.1 on 6 of 6 obs.

? APR 05, 1993 06h 41m 40.50±4.01s
5.260 S ±52.4km 143.348 E ±21.4km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)

NEW GUINEA, PAPUA NEW GUINEA (202)

MDG 2.42 90 eP 42 18.40 -0.2
YYYY 2.78 111 eP 42 23.90 0.0
LAT 3.89 111 eP 42 39.60 0.1
WB2 17.02 210 IPd 45 36.70 -1.0
0.4s 2.80nm 3.7mb
ASPA 20.44 206 eP 46 19.10 1.2
0.4s 6.20nm 4.3mb
S.D. = 1.1 on 5 of 5 obs.

* APR 05, 1993 06h 47m 17.05±0.56s
48.753 S ±12.0km 106.461 E ± 8.4km
DEPTH = 10.0km (geophysicist)
5.0mb (12 obs.)

SOUTHEAST INDIAN RIDGE (435)

STK 31.30 70 eP 53 38.20 -1.1
0.7s 1.80nm 4.1mb
ASPA 33.09 51 IPd 53 53.90 -1.2
1.1s 13.90nm 4.8mb
Z 23s 1.00um 4.5MszX
CAN 33.88 83 e(P) 54 01.20 -0.6
BWA 34.04 81 eP 54 04.60 1.4
WRA 36.43 48 P 54 23.50 -0.2
0.6s 2.30nm 4.2mb

WB2 36.44 48 IPc 54 23.40 -0.4
0.8s 10.10nm 4.7mb
e 54 32.60
ARMA 38.67 79 IPc 54 43.20 0.6
0.9s 16.00nm 4.7mb
RMO 39.53 71 eP 54 50.00 0.4
1.0s 36.00nm 5.0mb
SPA 41.43 180 IPc 55 05.30 0.2
1.7s 81.25nm 5.2mb
BRS 41.45 76 IP 55 02.00 -3.4X
CTA 42.78 62 IPc 55 16.50 0.1
I 55 25.00
CHG 67.59 352 eP 58 31.10 15.3X
HYB 70.41 332 eP 58 33.50 0.3
KMI 73.61 356 eP 58 58.00 5.7X
1.5s 90.00nm 5.6mb
GYA 74.87 0 eP 59 01.00 1.6
PKI 78.28 341 PKP 59 18.60 -0.2
DMN 78.38 341 PKP 59 19.40 0.1
GUN 78.51 341 PKP 59 19.40 -0.7
1.0s 52.00nm 5.5mb
KKN 78.52 341 PKP 59 19.60 -0.4
GKN 78.86 340 PKP 59 21.20 -0.6
CD2 79.34 358 P 59 25.40 1.2
XAN 82.45 2 P 59 40.70 0.2
1.0s 7.10nm 4.8mb
LZH 84.50 358 eP 59 51.00 0.0
1.5s 27.00nm 5.3mb
TIA 85.12 9 eP 59 54.60 0.6
GTA 87.98 355 P 00 08.50 0.5
1.0s 24.00nm 5.5mb
Z 16s 2.29um 5.7MszX
N 12s 0.22um
pP 00 16.00 23kmX
HHC 89.33 4 eP 00 13.80 -0.6
SNY 91.45 13 Pd 00 24.20 0.2
KLD 92.95 332 IP 00 48.00 17.0X
2.0s 60.00nm
YSS 100.46 24 ePdiff01 06.00 0.9
1.7s 110.00nm 6.1mb X
DAG 144.83 341 ePKP 06 52.20 -1.9
0.8s 6.72nm
YKA 153.59 43 ePKP 07 14.40 6.4X
1.2s 1.50nm
LCCM 154.02 82 ePKP 07 18.20 8.8X
S.D. = 0.8 on 26 of 32 obs.

APR 05, 1993 06h 49m 16.92±0.14s
57.342 N ± 4.1km 33.224 W ± 2.0km
DEPTH = 10.0km (geophysicist)
5.3mb (94 obs.) 5.1Msz (25 obs.)

NORTH ATLANTIC OCEAN (402)

Mw 5.3 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 19S, 32C

Centroid Location:

Origin Time 06:49:19.5 0.7

Lat 57.74N 0.12 Lon 32.66W 0.09

Dep 15.0 FIX Half-duration 1.2

Moment Tensor: Scale 10¹⁶ Nm

Mrr=-8.89 1.14 Mtt=-0.84 1.67

Mff= 9.73 0.92 Mrt= 0.00 0.00

Mrf= 0.00 0.00 Mtf= 3.59 0.99

Principal Axes:

T Val= 10.83 Plg= 0 Azm=107

N -1.95 0 17

P -8.89 90 180

Best Double Couple:Mo=9.9*10¹⁶ Nm

NP1:Strike=197 Dip=45 Slip= -90

NP2: 17 45 -90

REY 8.77 34 IP 51 41.50 14.9X
AKU 11.02 34 IPc 52 01.20 3.8X
1.9s 1326.32nm 7.0mb X
i 56 12.00
DMU 15.22 92 eP 52 50.00 -3.2X
DCN 15.25 94 eP 52 59.00 5.4X
DLF 15.68 94 eP 52 56.00 -3.1X
ESK 16.71 84 eP 53 12.50 0.2
2.0s 444.00nm 5.2mb
EKA 16.72 84 P 53 12.00 -0.5
2.0s 423.90nm 5.2mb
FRB 18.32 305 eP 53 32.00 -0.3
HAE 18.41 94 eP 53 33.50 0.0
HGH 18.47 95 eP 53 34.30 0.1
DAG 20.18 10 eP 53 54.50 0.6

05d 06h

MOL	1.5s	133.33nm	5.1mb	EGRA	25.77	112	iPd	54	53.57	4.4X	SFI	30.96	96	P	55	35.70	-0.3				
FLN	20.79	58	iPc	53	59.16	-1.1	PAB	25.85	121	iPc	54	51.00	1.0	ZST	31.12	85	eP	55	36.10	-1.3	
	1.2s	163.05nm	5.3mb		1.1s	37.97nm				5.0mb	FCC	31.27	299	eP	55	42.00	3.5X				
	22s	5.00um	4.9MszX	MOF	25.93	94	P	54	50.05	-0.6	OJC	31.41	80	eP	55	38.30	-1.6				
GRR	21.31	101	eP	54	04.10	-1.6	ETOR	25.94	116	iPd	54	52.40	1.5								
	1.6s	354.50nm	5.5mb	LOMF	26.06	95	P	54	54.16	2.2	VBY	31.78	91	eP	55	42.40	-0.7				
LPF	21.43	102	eP	54	05.40	-1.5	UPP	26.08	63	iP	54	51.60	-0.3	PTJ	31.90	90	eP	55	36.60	-7.0X	
	1.5s	243.40nm	5.4mb	EVAL	26.38	127	eP	54	53.06	-1.8	SRO	32.00	85	iP	55	44.90	-0.2				
LDF	21.58	100	eP	54	06.80	-1.6	FEL	26.39	93	P	54	54.51	-0.5	PUL	32.12	58	ePd	55	46.00	0.1	
	1.5s	226.70nm	5.4mb	SLE	26.71	93	ePd	55	00.10	2.2		1.2s	160.00nm				5.8mb				
KONO	22.21	66	eP	54	14.50	-0.1	MOX	26.78	85	iPc	54	58.30	-0.1					56	52.00		
ERUA	22.31	121	iPc	54	15.68	0.0		1.7s	84.00nm	5.2mb	SPC	32.23	81	eP	55	48.00	0.6				
LMN	22.52	253	eP	54	21.00	3.2X	Z	19s	3.30um	4.9Msz	MNK	33.50	69	eP	55	55.00	-3.0X				
NB2	22.72	62	P	54	18.70	-1.0	ZLA	26.83	94	ePd	55	01.30	2.4	UZH	33.66	81	ePc	55	58.50	-1.0	
	1.5s	169.60nm	5.3mb	EHOR	26.84	125	eP	54	59.13	0.1		1.7s	90.00nm				5.4mb				
UCC	22.77	91	P	54	19.00	-1.2	EMS	26.92	97	ePd	55	01.10	1.2					57	34.00		
MFF	22.80	104	eP	54	19.40	-1.2	GRF	27.09	87	iPc	55	01.60	0.4	LVV	33.89	78	eP	56	01.00	-0.5	
	1.5s	162.95nm	5.3mb		1.4s	106.00nm				5.3mb		Z	20s	3.80um			5.1Msz				
SNF	22.88	91	P	54	22.20	0.9	EROO	Z	18s	2.60um	4.8Msz		N	18s	3.50um						
MUD	22.90	74	eP	54	21.80	0.4	LPL	27.16	98	eP	55	01.60	-0.6		E	18s	1.60um				
	1.2s	51.00nm	4.9mb		1.5s	58.00nm				5.1mb	MCWV	34.76	260	P	56	20.00	10.9X				
WIT	23.04	84	eP	54	26.00	3.2X	CLL	27.18	83	ePc	55	01.00	-1.1	Z	20s	4.64um		5.2Msz			
DOU	23.27	92	P	54	25.10	0.0		1.7s	57.00nm	5.0mb	ULM	36.47	286	eP	56	26.00	2.5				
				54	35.00		LPG	27.19	98	eP	55	01.70	-0.8	CEH	37.16	255	eP	56	31.25	1.9	
LOF	23.34	44	iPc	54	27.88	2.3		1.8s	129.45nm	5.3mb		0.8s	13.05nm				4.8mb				
WTS	23.50	86	ePc	54	27.50	0.2	EBAN	27.22	122	iPd	55	04.09	1.5	CMP	37.22	83	ePd	56	32.00	2.1	
	1.4s	142.90nm	5.3mb	ETER	27.31	108	eP	55	03.71	0.4	OBN	37.34	63	iPd+	56	30.50	-0.2				
CBM	23.56	259	ePc	54	29.40	1.5	ECHE	27.42	116	eP	55	05.37	1.0		2.0s	290.00nm		5.7mb			
	0.8s	26.09nm	4.8mb	BNI	27.43	99	P	55	05.90	1.3		Z	13s	1.40um			4.9MszX				
	Z	19s	5.56um	5.0Msz	EVIA	27.44	120	iPd	55	06.10	1.5		N	13s	1.30um						
ENN	23.64	89	ePc	54	29.00	0.4	MMK	27.48	96	ePc	55	06.90	1.7		E	12s	1.00um				
	1.5s	190.00nm	5.4mb	LLS	27.53	94	ePd	55	06.60	1.1							56	34.00			
HYF	23.86	99	eP	54	30.10	-0.8	EPRU	27.56	126	iPc	55	04.11	-1.5					57	51.00		
LSF	23.92	103	eP	54	30.90	-0.5	ORO	27.76	97	P	55	08.10	0.6					ePPP	58	19.00	
	1.3s	80.15nm	5.1mb	EJIF	27.88	127	eP	55	06.71	-1.8							e	58	44.00		
JAO	23.99	280	eP	54	32.50	0.4	BRG	27.92	83	ePc	55	07.40	-1.4					(S)	02	16.00	
HFS	24.11	64	eP	54	32.80	-0.3		2.0s	66.00nm	5.1mb							eSSS	04	55.00		
	Z	15s	1.62um	4.6MszX			FUR	27.99	90	eP	55	09.90	0.5	SKO	37.47	90	iP	56	31.20	-0.8	
		LR	00	24.00			VDL	28.02	94	P	55	10.36	0.4		1.9s	186.00nm		5.5mb			
TCF	24.25	102	eP	54	34.20	-0.5	VAI	28.04	96	P	55	10.90	1.1	Z	16s	2.72um		5.1MszX			
	1.5s	122.20nm	5.3mb	ECOG	28.04	123	eP	55	10.40	0.2							i	56	32.20		
WLF	24.35	91	P	54	37.00	1.4	EHUE	28.06	121	iPd	55	12.21	2.0					i	59	46.00	
ECRI	24.37	114	eP	54	35.36	-0.6	OSS	28.26	93	P	55	09.09	-3.0X					i	02	24.00	
LFF	24.37	106	eP	54	35.70	-0.1	HRV	28.34	255	P	55	20.00	7.4X					LR	12	38.50	
	1.3s	81.25nm	5.2mb		Z	19s	1.69um	4.7Msz			MOS	37.48	61	iPc	56	31.00	-0.9				
BGF	24.42	101	eP	54	35.60	-0.7	EGUA	28.41	123	iPd	55	15.34	2.0		2.0s	240.00nm		5.6mb			
SSF	24.45	99	eP	54	35.90	-0.7	RSNY	28.52	261	eP	55	14.32	0.1	Z	15s	1.80um		5.0MszX			
	1.6s	161.05nm	5.4mb		1.5s	23.56nm				4.8mb	MLR	37.56	82	eP	56	34.00	1.1				
MAF	24.48	102	eP	54	36.30	-0.6		Z	21s	5.16um	5.1Msz	OHR	37.72	92	iP	56	34.10	0.0			
	1.2s	89.55nm	5.3mb	ACU	28.53	117	iPd	55	17.48	3.0X	VRI	37.74	81	eP	56	35.50	1.3				
LOR	24.51	98	eP	54	36.20	-1.0	MDI	28.60	95	P	55	15.10	0.2	KIS	38.15	78	iPc+	56	37.00	-0.6	
	1.0s	33.20nm	4.9mb	OGA	28.63	92	iPd	55	16.90	1.4		2.0s	300.00nm				5.7mb				
	Z	23s	3.72um	4.8MszX	KHC	28.68	86	eP	55	15.50	-0.2		Z	15s	3.00um		5.2MszX				
RJF	24.53	104	eP	54	36.90	-0.5		1.5s	17.50nm	4.6mb			N	14s	1.50um						
	1.4s	75.35nm	5.1mb		Z	18s	3.60um	5.0Msz				E	15s	1.50um							
	Z	22s	8.02um	5.2MszX		N	18s	2.10um									e	58	02.00		
AVF	24.54	100	eP	54	36.50	-0.9		E	18s	3.50um							iS	02	31.00		
	1.6s	155.45nm	5.4mb							55	24.00						eSS	05	12.00		
EPLA	24.64	123	iPc	54	38.48	0.0				56	09.00		VAY	38.53	90	iP	56	41.00	0.1		
LBF	24.75	99	eP	54	38.40	-1.2				57	20.50		YKA	38.56	313	eP	56	39.50	-1.4		
	1.2s	71.70nm	5.2mb				PRU	28.72	84	eP	55	15.50	-0.5		1.4s	16.70nm		4.6mb			
LPO	24.78	106	eP	54	39.30	-0.5		Z	15s	3.30um	5.1MszX		GRG	38.69	90	eP	56	41.92	-0.4		
	1.5s	109.15nm	5.3mb					N	15s	1.50um		KNT	38.82	90	iP	56	43.04	-0.3			
COP	24.89	74	iP+	54	43.00	2.3		E	15s	2.80um		SRS	39.23	89	eP	56	46.60	-0.1			
	Z	18s	2.34um	4.7Msz						56	02.00		SOH	39.30	90	eP	56	46.96	-0.5		
AGO	24.89	101	P	54	41.86	1.0				57	28.50		LIT	39.34	91	eP	56	46.64	-1.1		
SMF	24.89	99	eP	54	40.00	-0.9	WTTA	28.72	91	i(P)	55	15.10	-1.1	AGG	40.02	93	eP	56	52.88	-0.5	
	1.7s	235.25nm	5.0mb		1.5s	39.00nm				5.0mb	PAIG	40.11	91	eP	56	53.60	-0.4				
PYM	25.02	102	P	54	43.16	0.9	GEC2	28.91	87	e(P)	55	16.90	-0.9	ALN	40.71	88	eP	56	58.32	-0.6	
GUD	25.07	119	iPd	54	42.47	-0.3		2.0s	18.40nm	4.5mb	DMK	40.99	85	iP	57	00.90	-0.3				
CAF	25.07	104	eP	54	42.20	-0.4	GEC2	28.91	87	ePc	55	17.30	-0.5	GOGA	41.36	257	eP	57	06.21	1.9	
	1.2s	25.60nm	4.8mb		2.0s	19.57nm				4.5mb		0.8s	14.98nm				4.8mb				
VITF	25.09	94	P	54	42.76	0.0				55	21.80		SIM	42.27	77	eP	57	12.00	0.3		
PLDF	25.21	101	P	54	45.79	1.8	ENIJ	28.92	121	eP	55	19.64	1.7		Z	16s	2.00um		5.1MszX		
TNS	25.29	88	ePc	54	43.80	-0.9	NUR	29.21	59	eP	55	19.00	-1.2					eS	03	40.00	
HAU	25.41	94	eP	54	44.90	-0.9	EEO	29.64	269	eP	55	27.00	2.7	IZM	43.15	89	iP	57	18.50	-0.5	
	1.1s	98.15nm	5.4mb		FVI	29.75	91	P	55	26.10	0.9	ANN	43.99	75	eP	57	26.00	0.4			
	Z	21s	6.57um	5.1Msz	KBA	29.76	90	iPc	55	25.90	0.3		Z	13s	2.20um		5.3MszX				
EPF	25.50	110	eP	54	46.20	-0.5		1.8s	71.90nm	5.2mb			N	14s	1.20um						
	1.4s	44.85nm	5.0mb							56	17.00			E	14s	1.50um					
CDF	25.67	93	P	54	48.83	0.5	AVE														

MIAR	45.92	267	eP	57	39.99	-1.2		ALQ	52.59	278	eS	58	03.00		WMQ	2.0s	97.00nm	5.6mb				
	1.6s		57.58nm			5.3mb			1.8s		46.86nm		-0.6		67.78	42	eP	00 17.00	0.3			
	Z	20s	4.09um			5.4Msz			Z	19s	4.00um		5.1mb		2.0s	45.00nm		5.3mb				
			e	59	17.02								5.5Msz			pP	00 21.00	13kmX				
SOC	46.15	74	eP	57	45.00	2.1		BMW	52.61	300	eP	58	32.63	-0.1		PCP	00 38.00					
ARU	46.46	50	eP	57	44.00	-1.2		DSI	52.66	88	eP	58	33.70	0.5		PP	02 43.50					
	1.8s		250.00nm			5.9mb		SHE	52.88	71	iPc	58	34.00	-0.7	BAO	73.73	195	eP	00 51.00	-1.0		
	Z	14s	1.50um			5.1MszX			1.2s		120.00nm		5.7mb			e	00 54.00					
	N	14s	0.50um						Z	14s	1.10um		5.1MszX			i	00 56.00					
	E	16s	1.00um						N	14s	1.20um				NDI	76.42	58	eP	01 08.00	0.0		
			e	59	35.00				E	14s	1.30um				MDJ	77.40	12	eP	01 12.10	-1.1		
			eS	04	37.00						iS	06	08.00			1.6s		62.00nm		5.4mb		
NRI	46.68	25	iPc	57	47.50	0.8		MSU	52.94	285	eP	58	35.05	-0.5	BTO	77.65	28	P	01 15.00	0.2		
	2.0s		107.00nm			5.6mb					e	58	46.16		HHC	77.80	27	P	01 15.80	0.2		
	Z	20s	2.60um			5.2Msz							5.0mb			1.4s		46.00nm		5.4mb		
			e	59	21.00				SVW	53.60	329	(P)	58	38.18	-1.6							
			e	59	38.00					1.0s		17.57nm		5.0mb		NNA	77.84	224	eP	01 16.50	0.5	
SVE	47.03	49	ePc	57	49.00	-0.7		BAK	53.71	70	iPc	58	40.00	-0.8		1.4s		46.51nm		5.4mb		
	2.8s		120.00nm			5.5mb					iS	06	10.00		ZOBO	78.86	214	P	01 22.90	0.7		
			e	59	18.00								58	42.20	0.6			LR	47	32.00		
			e	00	22.10			MBH	53.78	90	eP	58	42.20	0.6		LPB	79.10	214	P	01 21.00	-2.3	
			e	00	22.10			ARUT	54.15	286	eP	58	44.94	0.6		SNY	79.29	17	Pd	01 24.20	0.6	
			e	00	22.10			TIC	55.16	145	P	58	49.56	-2.2		CCH	79.33	212	eP	01 24.00	-0.5	
ACO	47.33	274	iPd	57	52.20	-0.2				0.9s		26.50nm		5.3mb		CNCB	79.33	214	P	01 26.00	1.2	
FNO	47.46	271	iPc	57	54.10	0.7		TOV	55.17	226	eP	58	52.50	0.6		BJJ	79.62	23	eP	01 26.00	0.6	
LCCM	47.52	292	ePc	57	54.90	0.9		LTX	55.39	271	eP	58	52.32	-1.1			1.5s		69.00nm		5.4mb	
PYA	47.57	72	iP	57	55.00	0.8		KIC	55.52	145	P	58	51.86	-2.4		LZH	80.14	34	eP	01 29.00	0.5	
	2.0s		220.00nm			5.9mb				0.9s		21.00nm		5.2mb			1.6s		60.00nm		5.3mb	
	Z	16s	2.00um			5.2MszX		LIC	55.56	145	P	58	53.22	-1.3		Z	20s		0.74um		5.0Msz	
	N	16s	1.50um							0.8s		20.00nm		5.2mb				sP	01 39.50			
	E	16s	2.00um						Z	20s		1.35um		5.0Msz		PPD	80.51	197	eP	01 25.20	-5.1X	
			i	59	51.00									0.5			e	01 34.50				
			eS	04	58.00			KVN	55.60	290	eP	58	55.51	0.5					01 33.40	0.6		
FBA	48.41	329	eP	57	59.40	-1.0		LBFM	55.77	294	ePc	58	56.09	-0.1		TIY	80.98	27	eP			
	0.6s		6.13nm			4.8mb					e	59	05.72		Z	16s		0.95um		5.2MszX		
NEW	48.42	297	eP	58	00.68	-0.1		TNP	55.88	289	eP	58	56.94	-0.1		TIA	83.50	24	eP	01 46.40	0.6	
	1.2s		35.71nm			5.3mb			1.0s		20.27nm		5.1mb		XAN	83.53	31	P	01 46.00	-0.1		
MEO	48.45	271	iPc	58	01.10	-0.1					e	59	06.72				1.4s		19.00nm		5.1mb	
BW06	48.48	287	eP	57	59.78	-1.8		SDV	56.32	226	eP	59	01.40	1.1		CD2	84.91	36	Pd	01 53.90	0.9	
	1.0s		15.03nm			5.0mb		WDC	56.67	294	P	59	10.00	7.6X	HON	89.12	310	P	02 20.00	6.4X		
GOL	48.48	281	eP	58	02.03	0.4			Z	22s		1.36um		5.0Msz			Z	19s		0.36um		4.8Msz
	1.5s		65.33nm			5.5mb							59	04.40	0.0	ASPA	145.09	21	iPKPd	08 53.60	-2.2X	
WMOK	48.59	272	eP	58	02.24	0.0		TUC	56.92	279	eP	59	04.40	0.0			1.6s		28.40nm			
	0.8s		16.25nm			5.1mb			1.5s		23.91nm		5.0mb			WARB	145.71	33	ePKP	08 56.20	-0.6	
IMA	49.08	332	eP	58	04.83	-0.8			Z	20s		3.09um		5.4Msz		SPA	147.17	180	iPKPc	09 00.50	2.5X	
	0.7s		8.04nm			4.9mb					e	59	19.53				1.1s		50.60nm			
DPW	49.22	298	eP	58	06.15	-0.8		CMB	57.54	291	P	59	20.00	11.4X		RMQ	149.14	357	ePKP	09 07.30	5.0X	
			e	58	16.54				Z	19s		2.01um		5.2Msz			1.8s		168.00nm			
GRO	49.40	71	iPc	58	10.00	1.7		GSC	57.79	286	eP	59	10.86	0.4		QLP	149.21	4	ePKP	09 06.70	4.4X	
	2.0s		240.00nm			5.9mb		ISA	58.38	288	eP	59	14.05	-0.5		BRS	149.77	349	iPKP	09 08.00	4.8X	
	Z	14s	4.00um			5.6MszX			1.5s		68.17nm		5.5mb							09 13.00		
	N	16s	4.00um						Z	19s		1.46um		5.1Msz		ARMA	152.87	351	ePKP	09 15.60	7.8X	
	E	17s	2.00um											10.8X		S.D. = 1.1		on 230		of 262 obs.		
			eS	05	24.00			GLA	58.49	283	eP	59	15.32	0.0								
BALM	49.64	323	eP	58	10.48	0.4		SAO	59.05	291	P	59	30.00	10.8X								
SIT	50.09	316	P	58	20.00	6.6X			Z	21s		2.57um		5.3Msz		% APR	05. 1993	07h	03m	48.82±	1.23s	
	Z	18s	4.09um			5.5Msz		PEC	59.07	285	ePc	59	19.69	0.3			38.118	S ± 6.4km	176.224	E ± 5.6km		
			e	59	17.02				1.7s		114.94nm		5.7mb				DEPTH =	204.7 ± 12.2	km			
MTA	50.13	73	iPc	58	14.80	0.9		ELT	59.25	37	iPc	59	20.00	-0.3								
KLU	50.44	325	eP	58	14.31	-1.8			2.0s		370.00nm		6.2mb									
MAK	50.53	70	iP+	58	18.20	1.3					e	03	00.00									
	Z	15s	2.00um			5.3MszX					eS	07	33.00		WLZ	0.55	296	P	04 16.60	-0.1		
	N	15s	1.50um					PLM	59.33	285	eP	59	21.80	0.5			S	04 34.50				
	E	15s	1.50um					VAN	59.69	66	iP	59	23.50	0.0	URZ	0.71	102	iPc	04 16.20	-1.4		
			e	00	20.00				2.0s		81.00nm		5.5mb				S	04 33.10				
			eS	05	40.00				Z	16s		1.30um		5.2MszX		WHH	0.79	165	P	04 17.30	-0.9	
HVU	50.86	288	eP	58	19.64	0.0		ASH	59.82	66	eP	59	25.00	0.6	PAHZ	0.99	139	P	04 18.90	-0.4		
DAU	51.06	286	eP	58	21.71	0.2		SDN	59.86	328	P	59	30.00	5.5X	NGZ	1.16	205	P	04 20.70	0.0		
EMUT	51.27	285	eP	58	22.62	-0.4			Z	20s		0.79um		4.8Msz	MOZ	1.18	250	P	04 21.00	0.4		
PMR	51.34	327	P	58	30.00	7.2X		MAIO	61.67	66	iPc	59	36.80	-0.4			S	04 42.90				
	Z	21s	0.79um			4.7Msz		BOD	62.24	19	eP	59	37.20	-3.4X								
			e	59	17.02				1.8s		71.00nm		5.6mb		CNZ	1.20	206	P	04 21.00	0.1		
SRU	51.64	285	eP	58	25.77	0.1		MGD	62.86	358	eP	59	45.00	0.4	MOH	1.25	145	P	04 21.40	0.3		
LON	51.74	299	(P)	58	24.97	-1.2		UER	63.17	34	eP	59	48.00	1.3	KUZ	1.43	344	Pd	04 22.90	0.4		
PMS	51.75	327	eP	58	26.60	0.6			1.6s		110.00nm		5.8mb		TTH	1.50	162	P	04 24.00	0.8		
	0.7s		22.30nm			5.2mb		FRU	63.45	52	iPc	59	40.80	-8.0X	NOZ	1.51	110	P	04 23.60	0.3		
MML	52.01	88	eP	58	28.60	0.2			2.0s		100.00nm		5.7mb		WAHZ	1.58	176	iPc	04 24.30	0.3		
DUG	52.03	287	eP	58	28.47	-0.2			Z	18s		1.00um		5.0Msz	PUZ	1.60	89	P	04 23.90	-0.3		
	1.7s		37.37nm			5.0mb		PRZ	65.32	49	eP	00	03.50	2.4	MAHZ	1.68	130	P	04 25.40	0.5		
VGB	52.14	297	eP	58	29.36	0.1			1.8s		60.00nm		5.5mb		HBZ	1.72	73	P	04 25.50	0.3		
TTA	52.21	331	eP	58	28.00	-1.5		IRK	65.35	27	eP	00	02.20	1.2	TEHZ	1.92	166	P	04 27.70	0.5		
	1.7s		38.23nm			5.1mb			Z	15s		0.42um		4.8MszX	BSZ	1.96	211	P	04 28.30	0.8		
LKO	52.25	145	P	58	28.62	-1.7					e	00	33.20		PGZ	2.50	179	P	04 33.70	0.4		

05d 07h

MOW 3.38 192 P 04 43.30 -0.4
 TCW 3.44 205 P 04 44.20 -0.1
 KHZ 4.76 205 P 05 00.70 -0.1
 S.D. = 0.5 on 28 of 28 obs.

APR 05, 1993 07h 05m 27.53 ± 1.03s
 9.732 N ± 10.9km 83.859 W ± 8.7km
 DEPTH = 42.5 ± 12.2 km
 3.9mb (4 obs.)

COSTA RICA (78)

Felt at San Jose and in the
 Central Valley. Also felt at
 Bajo Boquete and Chiriqui
 Grande, Panama.

BRU 1.58 126 iPc 05 54.15 0.3
 DVD 1.90 133 iPc 05 57.91 -0.1

UPA 4.33 100 ePc 06 32.22 -0.5
 IS 07 23.39

SDV 13.08 93 eP 08 32.70 -0.7
 TOV 13.86 89 eP 08 45.00 1.3

OXX 14.48 302 (P) 08 51.50 -0.4

IISM 15.99 307 (P) 09 15.00 3.8X

PPM 17.04 305 (P) 09 24.00 -0.9

III 17.40 301 (P) 09 29.50 0.4

CRX 18.07 304 (P) 09 38.50 1.0

MRX 19.46 303 (P) 09 56.50 2.7

MIAR 26.25 342 (P) 11 00.38 -0.2

0.8s 2.92nm 3.9mb

LTX 26.91 319 eP 11 06.01 -0.8

ZOBO 30.16 149 P 11 37.00 0.2

LPB 30.40 149 eP 11 38.00 -0.7

CNCB 30.70 149 eP 11 40.00 -1.4

CCH 32.14 147 P 11 54.80 1.0

ALO 32.50 324 e(P) 11 54.30 -2.4

0.7s 0.68nm 3.6mb

SRU 37.73 325 eP 12 40.85 -0.4

ULM 41.60 348 eP 13 13.00 0.1

FCC 49.54 353 eP 14 23.00 7.1X

YKA 57.17 344 eP 15 08.30 -4.0X

0.8s 1.20nm 4.0mb

GEC2 87.69 41 eP 18 14.10 1.0

1.5s 3.49nm 4.4mb

GBA 150.30 39 PKP 25 12.00 0.8

S.D. = 1.2 on 21 of 24 obs.

* APR 05, 1993 07h 38m 02.95 ± 2.82s

28.482 N ± 25.0km 113.843 W ± 13.3km

DEPTH = 5.0km (geophysicist)

BAJA CALIFORNIA, MEXICO (48)

ML 4.0 (GS).

GLA 4.63 350 ePn 39 16.40 1.1

TUC 4.64 34 ePn 39 16.04 0.6

eP 39 31.63

eS 40 24.61

PLM 5.50 333 (Pn) 39 28.25 0.5

eSg 41 05.06

PEC 6.10 333 (Pn) 39 35.07 -0.9

eP 40 03.40

eSg 41 22.55

LTX 8.96 82 eP 40 16.16 0.1

eSg 42 37.82

ALO 9.00 42 ePn 40 16.44 -0.3

MSU 10.10 7 ePn 40 31.31 -0.7

Sg 43 29.10

SRU 10.95 14 ePn 40 43.13 -0.5

Sg 43 47.31

S.D. = 0.8 on 8 of 8 obs.

? APR 05, 1993 07h 55m 20.15 ± 1.24s

59.560 S ± 29.9km 24.877 W ± 41.1km

DEPTH = 10.0km (geophysicist)

4.8mb (1 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.28 148 iPd 58 44.30 0.1

0.6s 58.67nm 5.5mb X

SPA 30.61 180 iPc 01 36.10 -0.1

0.9s 14.09nm 4.8mb

PPD 41.92 322 eP 03 16.70 4.4X

CNCB 52.88 305 P 04 39.80 1.0

LPB 53.18 305 eP 04 40.00 -0.9

ZOBO 53.43 305 P 04 43.00 0.1

YKA 139.57 314 ePKP 14 47.80 -0.3

0.6s 0.30nm

S.D. = 0.8 on 6 of 7 obs.

% APR 05, 1993 08h 18m 09.66 ± 1.02s

40.374 N ± 7.9km 23.312 E ± 9.4km

DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.2 (THE).

THE 0.37 314 ePg 18 17.84 0.6

SOH 0.45 4 iPg 18 17.90 -0.9

eSg 18 23.52

OUR 0.51 94 iPg 18 20.22 0.2

eSg 18 28.32

PAIG 0.53 148 iPg 18 20.14 -0.2

eSg 18 28.56

SRS 0.77 16 ePg 18 25.72 1.0

KNT 0.85 338 ePg 18 25.36 -0.6

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

APR 05, 1993 08h 46m 29.57 ± 0.49s

42.710 N ± 4.2km 12.934 E ± 6.4km

DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

MNS 0.38 210 Pc 46 36.80 -0.5

eSg 46 42.50

ASS 0.41 331 Pd 46 37.90 -0.1

eSg 46 44.80

AQU 0.50 136 Pd 46 38.10 -1.6

eSg 46 45.90

ARV 0.79 0 P 46 44.70 -0.2

eSg 46 56.80

RMP 0.91 191 P 46 48.50 1.4

eSg 46 59.60

RDP 0.96 190 P 46 49.30 1.3

CRE 1.17 322 P 46 52.40 1.0

eSg 47 09.60

SDI 1.20 147 P 46 51.60 -0.3

eSg 47 09.80

SFI 1.45 327 P 46 54.90 -0.8

PGD 1.46 323 P 46 55.40 -0.8

eSn 47 16.90

DUI 1.54 132 P 46 56.50 -0.7

BDI 2.17 389 P 47 05.30 -1.1

eSn 47 32.50

HVAR 2.62 79 iPn 47 13.00 0.3

VBV 3.26 30 ePn 47 23.90 2.2

eSn 48 02.50

PTJ 3.86 33 iP 48 15.60 45.3X

FVI 3.88 358 P 47 30.30 -0.2

KBA 4.38 4 iPnc 47 40.70 2.9X

iSn 48 29.10

S.D. = 1.1 on 15 of 17 obs.

? APR 05, 1993 08h 56m 09.34 ± 2.10s

26.670 S ± 18.6km 26.850 E ± 8.3km

DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 2.4 (PRE).

BFS 0.23 194 iPc 56 14.00 -0.1

S 56 15.10

PRY 0.61 115 eP 56 21.50 -0.1

S 56 27.50

SWZ 1.45 249 eP 56 36.40 0.0

S 56 56.50

SLR 1.59 54 iPd 56 43.50 5.2X

S 57 06.00

SEK 1.78 157 eP 56 41.50 0.3

S 56 59.10

S.D. = 0.4 on 4 of 5 obs.

APR 05, 1993 09h 24m 59.20 ± 0.29s

59.896 S ± 7.6km 26.230 W ± 7.9km

DEPTH = 33.0km (normal)

5.1mb (9 obs.) 4.3Msz (2 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.37 146 e(P) 28 19.00 -2.9

0.7s 91.00nm 5.5mb

NVL 18.85 141 eP 29 19.00 0.6

e 29 28.00

SPA 30.28 180 iPc 31 10.30 1.2

1.4s 67.65nm 5.3mb

CFA 39.64 296 e(P) 32 28.70 -0.6

CER 39.80 69 e(P) 32 48.00 17.4X

PPD 41.78 324 eP 32 46.20 -0.7

BLF 46.61 73 eP 33 25.00 -0.8

BAO 46.97 331 iPc 33 28.50 -0.3

i 33 32.60

WIN 48.05 59 eP 33 25.00 -12.3X

1.0s 40.00nm

KSR 49.67 71 iPd 33 50.00 0.3

1.0s 30.00nm 5.3mb

CCH 51.26 308 P 34 01.70 -0.4

CNCB 52.52 307 P 34 12.00 0.1

LPB 52.82 307 P 34 13.00 -0.9

ZOBO 53.07 307 iPc 34 15.70 -0.2

1.0s 20.00nm 5.0mb

Z 20s 0.23um 4.2Msz

ARE 54.29 303 iPd 34 25.00 0.4

BUL 55.36 69 iPc 34 31.70 -0.5

1.0s 16.00nm 5.0mb

LIC 68.02 23 P 35 57.48 0.4

0.7s 9.00nm 5.0mb

Z 22s 0.22um 4.4Msz

KIC 68.21 23 P 35 58.58 0.3

TIC 68.43 23 P 35 59.88 0.2

LKO 71.15 22 P 36 16.86 0.6

BCAO 73.11 47 iPc 36 28.80 0.9

0.6s 17.00nm 5.2mb

ic 37 17.30

STK 88.01 170 eP 37 48.40 1.5

1.1s 3.60nm 4.6mb

ASPA 95.16 162 iPc 38 20.80 0.5

1.1s 6.30nm 5.0mb

NB2 124.03 21 PKP 43 53.60 -0.5

0.9s 2.80nm

APO 124.07 23 ePKP 43 53.40 -0.8

0.4s 1.10nm

DMN 124.12 93 PKP 43 55.80 0.2

GKN 124.20 93 PKP 43 55.60 -0.1

PKI 124.24 94 PKP 43 55.60 -0.4

0.6s 10.00nm

KKN 124.35 93 PKP 43 56.40 0.4

0.9s 21.00nm

GUN 124.75 94 PKP 43 57.20 0.3

BGMT 125.81 300 ePKP 43 58.80 0.4

DAG 136.49 2 ePKP 44 17.50 0.1

0.8s 2.24nm

YKA 139.31 315 PKP 44 12.90 -10.1X

0.7s 2.00nm

XAN 141.08 111 PKP 44 25.50 -1.7

pPKP 44 37.50

TIY 145.72 112 PKPc 44 36.40 1.3

TIA 146.62 119 ePKP 44 38.80 2.3X

BTO 146.84 106 ePKP 44 38.00 1.2

HHC 147.78 107 PKP 44 42.20 3.9X

BJI 149.32 113 ePKP 44 45.00 4.4X

IRK 151.97 84 ePKP 44 50.70 6.5X

2.4s 68.00nm

S.D. = 0.9 on 33 of 40 obs.

APR 05, 1993 09h 28m 43.78 ± 0.68s

22.557 S ± 7.3km 66.247 W ± 11.7km

DEPTH = 259.8 ± 12.9 km

4.0mb (1 obs.)

JUJUY PROVINCE, ARGENTINA (128)

YJA 0.79 61 iPc 29 20.50 0.1

S 29 47.00

FSA 3.52 177 iP 29 08.10 -34.8X

ANT 4.00 253 iP 2

PZZ	0.10	170	P	15	12.21	0.2	TURKEY				(366)	PGZ	1.91	125	Pc	57	30.30	-0.2		
			S	15	13.85		MD 2.7 (ISK).					WLZ	1.99	33	Pc	57	31.70	0.5		
BHB	0.27	29	P	15	15.63	0.7									S	58	01.80			
			S	15	19.56		CTT	0.07	267	IPg	26	47.90	-0.6	TAHZ	2.00	79	P	57	32.20	0.7
RRL	0.38	327	P	15	17.16	0.1	ISK	0.42	102	IPg	26	54.50	-0.2	TTH	2.02	91	P	57	31.80	0.3
			S	15	22.21					ISg	27	01.00		MOW	2.04	158	Pc	57	31.40	-0.3
STV	0.40	154	P	15	17.64	0.2	YLV	0.87	132	ePg	27	03.00	0.0	TEHZ	2.05	103	P	57	32.00	0.2
			S	15	22.83		DMK	0.88	320	IPg	27	03.50	0.4	BLW	2.06	153	Pc	57	31.70	-0.2
ENR	0.45	147	P	15	17.97	-0.4				ISg	27	15.50		PAHZ	2.31	74	Pc	57	34.50	0.2
			S	15	24.24		BNT	0.91	210	IPg	27	04.00	0.3	MOH	2.31	81	P	57	34.60	0.4
RSP	0.56	13	P	15	19.80	-0.9				eSg	27	18.00		THZ	2.43	204	Pc	57	36.10	0.6
			S	15	27.44		HRT	0.93	110	ePg	27	04.00	0.0			S	58	09.00		
S.D. = 0.7	on	6	of	6	obs.		EYL	1.37	115	ePn	27	11.50	0.0	URZ	2.59	61	P	57	36.30	-0.7
* APR 05, 1993	11h	30m	37.49±2.52s				S.D. = 0.4	on	7	of	7	obs.			eS	58	08.00			
45.632 N ±17.7km	13.366 E ±13.1km					APR 05, 1993	12h	32m	09.01±0.81s				MAHZ	2.86	84	eP	57	40.40	0.5	
DEPTH = 10.0km (geophysicist)						26.372 S ± 6.2km	27.349 E ± 7.8km						DSZ	2.87	219	P	57	40.70	0.7	
NORTHERN ITALY						DEPTH = 5.0km (geophysicist)							KHZ	2.92	190	Pc	57	40.70	0.3	
MD 2.7 (LJU). ML 2.3 (VIE).						REPUBLIC OF SOUTH AFRICA									S	58	17.20			
						ML 2.6 (PRE).							NOZ	3.11	74	Pc	57	42.90	0.4	
TRI	0.29	74	Pc	30	44.30	0.8	PRY	0.57	169	eP	32	19.40	-0.9	PUZ	3.48	66	P	57	46.60	-0.1
			eSg	30	49.80					S	32	25.50		LTZ	3.56	204	P	57	48.00	0.4
VOY	0.54	42	IPgd	30	48.40	-0.1	KSR	0.65	321	eP	32	21.50	-0.5			S	58	30.20		
			eSg	30	57.50					S	32	31.00		HBZ	3.74	60	P	57	50.00	0.3
CEY	0.75	81	e(Pg)	30	51.50	-0.7	BFS	0.73	224	eP	32	23.10	-0.5	MOZ	4.32	195	P	57	55.70	-0.8
			eSg	31	03.00					S	32	33.20				S	58	44.50		
RBL	0.82	10	Pc	30	52.70	-0.8	SLR	1.05	53	eP	32	29.50	0.1	WVZ	4.40	215	P	57	57.50	0.2
			eSg	31	02.20					S	32	41.50				S	58	47.40		
LJU	0.91	63	eP	31	02.50	7.5X	SEK	1.96	173	eP	32	44.30	0.9	EWZ	4.70	211	P	58	01.70	0.7
			eSg	31	08.50					S	32	06.80		LMZ	5.58	220	P	58	11.40	-0.4
FVI	1.04	337	P	30	56.50	-0.7	SWZ	1.98	246	eP	32	44.60	0.9	BWZ	5.94	212	P	58	16.30	0.1
			eSg	31	08.90					S	33	09.50		ODZ	6.10	205	P	58	19.20	0.9
VBY	1.33	95	ePg	31	02.00	-0.1	S.D. = 1.0	on	6	of	6	obs.	LRCZ	6.59	212	P	58	24.60	0.0	
			ISg	31	19.80		* APR 05, 1993	12h	34m	07.03±2.60s			MHZ	6.62	212	eP	58	24.10	-0.8	
KBA	1.45	359	IPgd	31	05.20	1.3	43.291 N ±13.2km	5.684 E ±17.7km				LSCZ	6.63	211	eP	58	24.40	-0.5		
			i	31	10.70		DEPTH = 10.0km (geophysicist)					SBCZ	6.63	212	P	58	24.10	-0.9		
S.D. = 1.0	on	7	of	8	obs.		NEAR SOUTH COAST OF FRANCE					CMCZ	6.69	212	eP	58	25.70	-0.1		
APR 05, 1993	11h	36m	18.22±0.62s			ML 2.8 (STR).	CALN	0.99	62	Pg	34	26.71	0.8	TLC	6.81	212	eP	58	26.80	-0.5
22.943 S ± 6.7km	66.461 W ± 9.6km						REVf	1.30	69	Pn	34	31.22	0.0	TUZ	7.24	206	eP	58	33.50	0.9
DEPTH = 257.6 ± 11.8 km							AURF	1.33	63	Pn	34	31.56	-0.1	WB2	39.34	288	IPc	04	01.00	6.3X
JUJUY PROVINCE, ARGENTINA										Sg	34	51.87		S.D. = 0.5	on	47	of	48	obs.	
YJA	1.17	49	IPd	36	55.00	-0.9	TOUF	1.35	57	Pn	34	31.98	0.0	? APR 05, 1993	13h	14m	46.74±16.19s			
			S	37	18.00					Sg	34	52.15		58.221 N ±139.km	6.672 E ±34.8km					
SLA	1.99	154	ePd	37	02.00	0.3	SBF	1.40	65	Pn	34	32.56	0.0	DEPTH = 10.0km (geophysicist)						
			e	37	34.10		SURF	1.44	34	Pg	34	33.03	-0.3	SOUTHERN NORWAY						
FSA	3.15	173	IPd	37	14.00	0.8	AUTN	1.45	60	Pn	34	33.99	0.5	MD 2.4 (BER).						
ANT	3.71	257	IPd	37	19.70	0.2	SAOF	1.53	62	Pn	34	34.10	-0.3	ODD1	1.70	359	eP	15	16.51	-0.1
			iS	38	02.80		DOI	1.66	42	P	34	36.20	-0.1			eSg	15	38.41		
CCH	5.54	3	P	37	41.20	-0.5	BNI	1.90	22	P	34	40.50	0.6	EGD	2.19	341	eP	15	22.98	-0.6
			S	38	43.00					eSn	34	57.30				eSg	15	52.43		
CNCB	6.26	347	P	37	51.90	0.9	CKI	2.19	58	P	34	42.90	-1.1	ASK	2.39	342	eP	15	27.22	0.7
			S	39	03.20					eSn	35	05.00				eSg	15	58.33		
LPB	6.56	346	P	37	55.70	1.1	PGF	2.55	106	Pn	34	49.31	0.2	NRA0	3.54	43	ePn	15	42.84	0.0
			S	39	07.00		S.D. = 0.6	on	12	of	12	obs.				ePg	15	51.26		
ZOBO	6.82	346	IPc	37	58.20	0.2	APR 05, 1993	12h	56m	48.30±0.49s						eSn	16	25.89		
	0.9s	8.65nm			3.8mb		39.543 S ± 4.8km	174.219 E ± 4.7km								eLg	16	40.93		
ARE	8.00	323	eP	38	11.00	-1.6	DEPTH = 253.3 ± 5.9 km						S.D. = 0.9	on	4	of	4	obs.		
			iS	39	37.30		NORTH ISLAND, NEW ZEALAND						* APR 05, 1993	14h	38m	20.31±3.46s				
TCA	8.53	169	IP	38	18.20	-0.8	NRZ	0.30	313	Pc	57	21.40	0.3	? APR 05, 1993	14h	38m	20.31±3.46s			
			(S)	39	51.00		BSZ	0.61	115	Pc	57	22.30	0.4	5.339 S ±40.3km	146.980 E ±26.3km					
SIV	8.58	37	IPd	38	31.40	11.7X	CNZ	1.09	72	Pd	57	24.10	-0.5	DEPTH = 165.3 ± 13.1 km						
PPD	14.03	89	eP	39	27.70	-0.1	MOZ	1.13	24	P	57	23.90	-0.8	EASTERN NEW GUINEA REG., P.N.G. (207)						
			e	39	30.50					S	57	48.20		MDG	1.20	274	eP	38	48.60	0.1
BAO	18.88	71	IPc	40	22.00	0.2	NGZ	1.13	72	Pc	57	24.40	-0.5	LAT	1.32	179	eP	38	50.10	0.5
S.D. = 0.9	on	12	of	13	obs.		DIW	1.28	190	Pd	57	25.70	0.0			eS	39	11.90		
% APR 05, 1993	12h	08m	23.61±2.79s				KIW	1.42	158	P	57	26.30	-0.3	YYY	1.35	220	eP	38	49.80	-0.3
39.212 N ±23.6km	28.805 E ±17.1km						MNG	1.45	138	Pc	57	26.60	-0.2	FINC	1.54	146	eP	38	51.40	-0.4
DEPTH = 10.0km (geophysicist)										S	57	51.10		WB2	19.02	219	IPd	42	31.00	-1.0
TURKEY							WAHZ	1.66	96	Pc	57	28.30	-0.2			0.3s	31.90nm	5.2mb		
MD 2.7 (ISK).							TCW	1.67	179	P	57	28.90	0.4	RMQ	21.10	176	eP	42	56.70	3.7X
ALT	1.03	98	ePn	08	43.10	0.0	CAW	1.69	158	Pc	57	28.50	-0.2	ASPA	22.15	213	IPd	43	04.40	1.0
			eSg	08	58.10		MRW	1.73	168	Pc	57	28.80	-0.2			0.3s	10.50nm	4.8mb		
KCT	1.09	342	IPn	08	44.50	0.4	WEL	1.79	167	P	57	29.40	-0.1	S.D. = 1.1	on	6	of	7	obs.	
			eSg	08	48.00	-0.2				S	57	58.00		* APR 05, 1993	15h	24m	16.43±1.98s			
YLV	1.42	18	ePn	08	49.00	-0.5				S	57	58.00		38.330 N ±18.0km	22.373 E ±14.3km					
EYL	1.71	37	ePn	08	54.00	0.3				S	57	58.00		DEPTH = 10.0km (geophysicist)						
S.D. = 0.5	on	5	of	5	obs.					S	57	58.00		GREECE						(364)
% APR 05, 1993	12h	26m	46.18±0.65s				ORZ	1.82	225	Pd	57	29.90	0.1	ML 3.0 (ATH), 2.7 (THE).						
41.150 N ± 8.3km	28.519 E ± 5.1km						WHH	1.89	70	P	57	29.60	-0.9	AGG	0.69	357	IPg	24	29.10	-1.0
DEPTH = 10.0km (geophysicist)							MTW	1.89	149	Pc	57	30.10	-0.3			iSg	24	39.74		
													ATH	1.12	108	ePb	24	40.00	2.6X	
															eSg	44	58.00			

05d 15h

VLS 1.41 264 ePb 24 42.00 -0.2
 eSb 25 02.30
 VLI 1.67 164 ePn 24 50.00 4.2X
 eSb 25 11.00
 LIT 1.77 3 ePb 24 47.34 0.0
 PAIG 1.89 32 ePb 24 49.14 0.1
 KZN 2.03 347 ePn 24 52.00 0.9
 eSn 25 17.00
 OUR 2.36 31 ePn 24 55.18 -0.6
 FNA 2.57 343 ePn 25 02.42 3.6X
 SOH 2.60 17 ePn 25 00.06 0.8
 VAY 2.99 3 ePn 24 54.00 -10.7X
 OHR 3.03 337 ePn 25 09.00 3.6X

S.D. = 0.8 on 7 of 12 obs.

APR 05, 1993 16h 24m 25.53±0.70s
 45.129 N ± 4.4km 14.576 E ± 6.9km
 DEPTH = 5.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 3.5 (VIE), 3.4 (LDG), MD 3.6
 (LJU), 3.2 (TRI). Felt on Krk
 Island and at Senj and
 Crikvenica, Croatia.

RIY 0.25 328 iPg 24 31.30 0.6
 iSg 24 35.90
 VBY 0.61 52 iPg 24 35.60 -2.1
 iSg 24 43.00
 CEY 0.62 350 ePg 24 36.50 -1.4
 eSg 24 46.50
 TRI 0.81 316 ePg 24 42.10 0.3
 iSg 24 55.10
 LJU 0.91 358 iPg 24 43.10 -0.4
 eSg 24 56.50
 VOY 1.02 332 ePg 24 44.10 -1.3
 e 24 49.10
 e 24 59.20
 eSg 25 00.50
 RBL 1.49 332 P 24 54.00 1.0
 eSg 25 12.70
 VVI 1.74 300 P 24 58.70 2.2
 FVI 1.93 320 P 25 00.70 1.4
 ARV 2.01 216 P 25 01.60 1.1
 eSn 25 29.30
 KBA 2.13 337 iPnc 25 03.80 1.4
 i(Pg) 25 11.50
 i 25 22.50
 iSn 25 29.80
 iSg 25 39.00
 CTI 2.25 295 P 25 05.50 1.4
 eSn 25 34.10
 SFI 2.29 239 Pc 25 05.70 1.1
 eSn 25 35.90
 HVAR 2.37 145 iPn 25 06.30 0.6
 iSn 25 36.50
 PGD 2.40 239 P 25 07.40 1.2
 eSn 25 38.00
 CRE 2.41 232 P 25 08.20 1.9
 ASS 2.48 215 Pd 25 08.10 0.8
 eSn 25 39.50
 FIR 2.73 242 e(Pn) 25 10.00 -0.8
 iSn 25 48.00
 BHG 2.85 336 ePn 25 14.50 2.0
 AQU 2.90 197 P 25 14.00 0.7
 WTTA 2.95 317 iPnc 25 16.40 2.3
 0.6s 50.40nm
 i 25 24.40
 i 25 52.90
 i 26 01.10
 i 26 08.60
 OGA 3.02 306 iPnc 25 17.50 2.3
 WATA 3.03 318 iPnc 25 17.50 2.3
 iSn 25 58.40
 i 26 00.90
 BDI 3.04 251 P 25 15.50 0.3
 eSn 25 53.00
 MNS 3.07 207 Pc 25 15.80 0.2
 eSn 25 53.10
 SQTa 3.14 313 iPnd 25 19.70 3.0X
 iSn 26 01.00
 MOTA 3.27 314 iPnd 25 19.70 1.0
 i(Sn) 26 03.50
 VKA 3.36 20 eP 25 25.00 5.3X
 i 26 01.90
 i 46 01.30
 ZST 3.53 29 eP 25 31.20 9.1X
 e 26 07.10

i 26 17.30
 e 45 52.40
 i 46 14.70
 SR0 3.72 43 eP 25 20.00 -4.9X
 e 25 40.50
 GEC2 3.77 351 Pn 25 24.80 -0.8
 Sn 26 10.50
 Sg 26 26.70
 KHC 4.06 351 Pn 25 30.00 0.3
 e 25 43.70
 e 25 50.00
 Sn 26 18.50
 Sg 26 39.00
 WET 4.18 345 eP 25 32.10 0.7
 GRB3 4.62 337 ePn 25 51.00 13.4X
 PGF 4.79 239 Pn 25 37.70 -2.4
 PRU 4.86 360 ePn 25 40.00 -1.1
 e 25 57.70
 e 26 34.50
 eSg 27 04.00
 LPG 5.53 277 Pn 25 50.00 -0.8
 LPL 5.55 277 Pn 25 50.80 -0.2
 FRF 5.90 257 Pn 25 53.60 -2.1
 CDF 5.99 306 Pn 25 56.30 -0.8
 Sg 27 39.30
 BSF 6.02 299 Pn 25 57.40 0.0
 Sn 27 04.20
 LMR 6.07 256 Pn 25 56.10 -1.9
 HAU 6.36 300 Pn 26 01.20 -1.1
 Sn 27 13.20
 LBF 7.60 288 Pn 26 18.10 -1.6
 Sn 27 42.10
 SMF 7.64 285 Pn 26 18.40 -1.8
 Sn 27 42.70
 LOR 7.74 290 Pn 26 19.10 -2.5
 SSF 7.93 288 Pn 26 22.90 -1.4
 AVF 8.00 286 Pn 26 22.50 -2.6

S.D. = 1.5 on 43 of 48 obs.

APR 05, 1993 16h 51m 39.74±0.15s
 59.787 S ± 4.8km 26.203 W ± 4.3km
 DEPTH = 33.0km (normal)
 5.7mb (28 obs.) 5.8Msz (33 obs.)
 SOUTH SANDWICH ISLANDS REGION (153)
 Mw 5.7 (HRV)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 405, 80C
 Centroid Location:
 Origin Time 16:51:44.5 0.2
 Lat 60.045 0.03 Lon 25.92W 0.06
 Dep 38.9 2.3 Half-duration 1.6
 Moment Tensor: Scale 10**17 Nm
 Mrr=0.83 0.05 Mtt=-0.64 0.07
 Mff=-0.19 0.07 Mrt=0.67 0.08
 Mrf=-3.26 0.16 Mtf=0.03 0.06
 Principal Axes:
 T Val= 3.68 Plg=49 Azm= 80
 N -0.61 2 348
 P -3.06 40 256
 Best Double Couple: Mo=3.4*10**17
 NP1: Strike=322 Dip= 5 Slip= 65
 NP2: 168 85 92

AIA 18.17 236 eP 55 53.00 2.3
 NVL 18.93 141 iPc+ 55 58.00 -1.9
 1.6s 223.00nm 5.1mb
 Z 16s 9.00um 4.5MszX
 N 16s 8.00um
 E 16s 8.00um
 i 56 22.00
 e 56 40.00
 iS 59 36.00
 SPA 30.39 180 iPc 57 49.90 -0.7
 1.0s 195.00nm 5.9mb
 i 00 00.00
 MAW 36.87 140 iPc 58 46.50 0.3
 1.0s 91.67nm 5.6mb
 Z 16s 12.50um 5.8MszX
 VAO 39.56 329 eP 59 09.70 0.4
 e 59 12.30
 CFA 39.61 296 ePd 59 09.00 -0.6
 CER 39.75 69 iPd 59 10.00 -0.7
 1.0s 160.00nm 5.7mb
 ZON 39.86 296 eP 59 13.80 2.1
 RTLL 39.95 296 e(P) 59 12.00 -0.4
 RTBS 40.12 295 ePd 59 14.70 1.0

CYA 41.24 302 ePc 59 21.30 -1.7
 PPD 41.70 324 eP 59 26.60 -0.2
 e 59 27.70
 e 59 57.60
 SBA 42.38 184 iPc 59 33.50 1.8
 GRM 43.30 76 iPc 59 40.50 0.7
 1.5s 140.00nm 5.5mb
 POF 43.38 66 iPc 59 42.50 2.2
 1.2s 70.00nm 5.3mb
 FSA 43.30 303 e(P) 59 40.20 -0.3
 FRS 45.61 72 iPc 59 57.70 -0.6
 0.6s 66.00nm 5.7mb
 CRZF 45.94 110 eP 00 15.00 14.3X
 iS 06 45.00
 BLF 46.56 73 eP 00 05.50 -0.5
 0.7s 77.00nm 5.8mb
 BDF 46.83 331 eP 00 07.90 -0.3
 e 00 33.00
 e 00 51.70
 i 05 32.00
 BAO 46.88 331 eP 00 08.60 0.0
 e 00 12.00
 e 00 22.00
 e 00 27.00
 e 00 32.10
 e 00 43.80
 e 00 49.90
 i 05 31.10
 SEK 47.91 74 iPc 00 16.10 -0.6
 0.7s 94.00nm 5.9mb
 WIN 47.98 59 iPc 00 18.50 1.2
 1.5s 172.00nm 5.9mb
 PRY 49.00 72 iPd 00 25.00 -0.1
 1.0s 90.00nm 5.8mb
 KSR 49.62 71 iPd 00 29.50 -0.4
 CSY 50.20 159 eP 00 33.50 -0.1
 0.7s 52.80nm 5.7mb
 SLR 50.39 72 iPc 00 35.20 -0.5
 1.1s 140.00nm 5.9mb
 Z 18s 53.50um 6.6Msz
 SIV 50.56 315 P 00 49.40 12.5X
 BFT 51.29 74 iPc 00 42.00 -0.6
 1.0s 60.00nm 5.5mb
 PAF 52.00 124 eP 00 54.00 6.5X
 eS 08 33.00
 S 08 17.00
 CNCB 52.47 306 P 00 51.90 -0.1
 S 08 17.00
 LPB 52.77 306 P 00 52.90 -1.2
 1.0s 280.00nm 6.2mb
 Z 20s 4.40um 5.5Msz
 S 08 20.00
 LR 17 20.00
 ZOBO 53.01 307 P 00 55.10 -1.0
 1.0s 147.50nm 5.9mb
 S 08 18.00
 LR 17 28.00
 DRV 53.44 173 eP 01 04.70 6.7X
 BUL 55.31 69 iPc 01 12.00 -0.4
 1.1s 144.94nm 5.9mb
 Z 21s 18.64um 6.1Msz
 N 17s 4.08um
 E 21s 8.60um
 i 01 18.70
 i 09 08.00
 NNA 60.54 300 iPc 01 48.70 -0.3
 1.0s 70.00nm 5.7mb
 Z 22s 1.11um 5.0Msz
 ABM 64.85 86 iPc 02 19.10 1.3
 VTY 65.53 86 iPc 02 24.10 2.0
 OPO 65.70 85 iPc 02 25.40 2.2
 AVY 65.76 86 iPc 02 25.50 1.9
 LIC 67.92 23 P 02 37.60 0.6
 0.6s 22.50nm 5.4mb
 Z 21s 0.80um 4.9Msz
 KIC 68.11 23 P 02 38.74 0.6
 TIC 68.33 23 P 02 40.12 0.6
 0.6s 13.00nm 5.2mb
 LKO 71.05 22 P 02 56.92 0.7
 0.6s 18.50nm 5.4mb
 BAO 73.02 47 iPc 03 08.40 0.4
 0.6s 34.00nm 5.5mb
 ic 03 32.30
 id 04 54.00
 ic 06 54.20
 MBO 74.30 9 iP 03 18.20 3.0X
 CUM 76.32 321 eP 03 26.00 -0.8
 SDV 77.03 315 eP 03 29.50 -1.5

TOV	77.56	316	eP	03	33.70	-0.1	Z	20s	1.30um	5.6Msz				e	14	34.00			
DSZ	77.74	194	eP	03	33.60	-0.9			e	10	46.00			e	26	55.00			
MRW	77.87	196	P	03	39.00	3.9X			e	12	35.00								
			S	13	28.00		NUR	126.28	28 iPKP	10	39.50	0.5	NJ2	143.87	124	PKPc	11	11.00	-1.5
NRZ	79.84	196	P	03	46.10	0.2	PUL	127.08	32 (PKP)	10	41.00	0.5	SSE	143.98	128	PKPd	11	11.20	-1.5
MUN	83.45	149	eP	04	04.00	-0.9			280.00nm				Z	20s	2.30um			5.9Msz	
	0.8s	56.00nm			5.7mb		Z	18s	1.20um	5.6Msz		N	16s	1.50um					
KLB	84.22	150	eP	04	08.00	-0.8								PP	14	26.00			
ADE	84.77	168	iPd	04	11.50	-0.1			1.00um				TIY	145.74	111	iPKPd	11	16.20	0.5
BAL	84.88	149	eP	04	11.00	-1.1			1.20um				Z	18s	2.55um			6.0Msz	
COOL	85.73	152	eP	04	15.00	-1.4	KAF	128.07	28 iPKP	10	42.00	-0.3	N	20s	2.99um				
MRWA	86.01	148	eP	04	17.00	-0.4			16.10nm				UER	146.43	77	iPKP	11	15.20	-1.0
FORT	87.30	158	eP	04	24.00	0.0	LSA	128.86	97 PKP	10	46.00	0.5		1.8s	200.00nm				
STK	88.12	170	iPc	04	28.30	0.3	Z	20s	3.12um	6.0Msz		TIA	146.66	118	PKPd	11	17.40	0.3	
	0.7s	10.80nm			5.3mb		N	20s	3.77um			Z	20s	2.67um			6.0Msz		
CMS	88.83	173	eP	04	31.00	-0.4			PP	12	52.00		N	20s	2.24um				
	1.3s	60.00nm			5.8mb		KSH	128.95	77 PKP	10	46.10	1.2	BTO	146.85	106	PKP	11	18.00	0.6
MEEK	89.16	149	eP	04	32.00	-1.1	Z	24s	2.70um	5.9MszX		N	17s	1.07um					
ARO	89.66	66	eP+	04	40.00	4.6X	N	18s	2.89um			E	17s	0.80um					
ARMA	90.11	178	eP	04	38.00	0.4			PP	12	56.00			sPKP	11	31.00			
	1.0s	29.00nm			5.5mb				SKS	17	47.00		KAGJ	147.54	142	ePKP	11	21.50	2.9X
WARB	91.48	156	eP	04	43.50	-0.3	FCC	129.57	321 ePKP	10	52.00	6.7X	MBC	147.59	334	ePKP	11	16.00	-1.4
RUV	91.62	236	iPc	04	46.00	1.5	KMI	130.72	112 PKPd	10	49.50	0.7		1.0s	20.00nm				
VAH	91.68	235	iPc	04	46.30	1.5	Z	23s	2.60um	5.9MszX		HHC	147.80	107	PKP	11	20.00	1.1	
TIO	91.72	16	iP	04	48.50	3.8X	N	16s	1.20um			Z	19s	1.96um			5.9Msz		
TPT	91.90	236	iPc	04	47.60	1.8	E	16s	1.10um			N	19s	1.18um					
PMO	92.00	235	iPc	04	47.70	1.5			PP	13	11.00		E	19s	2.06um				
BRS	93.14	179	eP	04	51.00	-0.5	FRU	130.86	73 ePKP	10	48.00	-0.3		PP	14	54.00			
		eS	14	21.00				1.8s	60.00nm			KUMJ	148.77	141	ePKP	11	24.60	4.0X	
		e	36	33.00			Z	20s	2.50um	5.9Msz		INK	148.96	316	ePKP	11	19.00	-0.7	
OLP	93.59	171	eP	04	45.30	-8.2X	E	20s	3.40um				1.0s	23.00nm					
RMQ	93.95	175	iPd	04	56.00	0.8			e	10	57.00		BJI	149.35	113	ePKP	11	21.00	-0.2
	1.0s	25.00nm			5.6mb		PRZ	132.44	76 iPKP	10	52.50	1.0	Z	22s	1.23um			5.7Msz	
ASPA	95.26	162	iPd	05	00.60	-0.7			50.00nm			N	18s	1.78um					
	0.7s	36.30nm			5.9mb		Z	19s	3.30um	6.1Msz			eSKKS	21	44.00				
Z	22s	10.70um			6.3Msz		N	19s	2.20um			MOY	149.93	82	ePKPc	11	22.00	0.3	
		eS	15	28.60			E	19s	2.70um				1.9s	312.00nm					
WRA	98.98	162	P	05	18.50	0.4			e	13	26.00			i	11	28.00			
	0.8s	1.60nm			4.6mb X		TLG	132.53	74 ePKP	10	51.00	-0.5	ZAK	150.30	86	iPKPc	11	21.80	-0.5
HYB	112.31	94	ePKP	10	12.50	-1.0			15.00nm					37.00nm					
LAT	113.54	173	iPKPc	10	32.90	17.0X	Z	19s	3.00um	6.0Msz			e	11	28.00				
KIS	115.53	38	ePKP	10	28.00	9.2X	N	19s	0.70um			SHNJ	150.32	140	ePKP	11	28.80	6.0X	
	Z	18s	0.50um		5.2Msz		E	20s	0.90um			DL2	150.88	121	PKP	11	30.00	6.5X	
	N	18s	0.60um						i	13	18.00		Z	20s	0.67um			5.4Msz	
		ePS	21	03.00			SDF	132.62	25 iPKP	10	51.20	0.4	TKSJ	151.10	144	PKP	11	30.70	6.7X
		eSS	27	20.00			ARU	133.76	50 (PKP)	10	50.00	-3.3X	NRI	151.70	43	iPKPc	11	22.00	-1.8
QUE	117.11	76	ePKP	10	24.50	1.9	Z	20s	1.50um	5.7Msz			2.0s	46.00nm					
MAIO	118.54	66	ePKP	10	25.00	0.0	N	22s	1.50um				e	11	30.00				
VAN	119.25	64	iPKP	10	26.80	0.6			e	11	00.00		WKYJ	151.77	147	PKP	11	32.70	7.6X
	Z	18s	1.70um		5.7Msz				e	13	25.00		IRK	151.94	83	ePKP	11	23.30	-1.4
		i	11	46.80					e	31	08.00			1.8s	46.00nm				
ASH	119.36	65	ePKP	10	21.40	-5.0X	SVE	134.84	51 iPKPd	10	56.00	0.6		e	15	13.00			
JAO	119.98	329	ePKP	10	26.00	-1.1			70.00nm			YONJ	152.05	143	PKP	11	32.60	7.2X	
NDI	121.00	86	ePKP	10	29.50	-0.3	Z	23s	1.50um	5.6MszX		PMS	152.82	298	ePKP	11	32.70	7.0X	
		ePP	12	12.00			N	23s	1.00um				0.8s	10.90nm					
		e	22	16.00			E	23s	0.60um			TSRJ	153.11	147	ePKP	11	33.00	6.1X	
		PPS	23	28.00					e	13	32.20		FBA	153.29	306	ePKP	11	33.80	7.6X
		SSS	33	20.00					e	31	25.00			0.7s	14.50nm				
MNK	121.23	34	iPKP	10	31.00	1.6	CD2	136.07	108 PKPd	10	58.60	0.0	IIDJ	153.57	150	ePKP	11	36.70	9.1X
	Z	20s	1.60um		5.7Msz		Z	20s	1.87um	5.8Msz		SNY	154.13	120	ePKP	11	28.00	-0.1	
		e	22	04.00					PP	13	37.00		Z	18s	1.78um			5.9Msz	
		eSS	28	38.00			DAG	136.38	2 ePKP	10	56.80	-1.0	MAT	154.65	150	ePKP	11	34.00	5.0X
NST	121.35	115	ePKP	10	31.00	0.3			50.00nm			Z	20s	1.42um			5.8Msz		
ULM	123.27	314	ePKPc	10	35.70	2.3X	WMQ	138.03	82 ePKP	10	57.50	-4.5X	IMA	155.95	307	ePKP	11	37.10	7.1X
CHG	123.53	112	ePKP	10	34.90	0.0	Z	20s	1.07um	5.6Msz			1.1s	8.80nm					
HFS	123.55	23	ePKP	10	32.30	-1.4			PP	13	48.00		CN2	156.53	120	PKPc	11	31.00	-0.3
	0.5s	3.40nm							SKS	18	08.00		Z	20s	1.04um			5.7Msz	
	Z	17s	1.90um		5.8MszX		YKA	139.24	315 ePKP	11	03.10	-0.3	N	20s	1.17um				
		LR	55	43.00				0.9s	9.60nm			E	20s	0.34um					
NB2	123.92	21	PKP	10	34.40	-0.1	LZH	140.31	104 ePKP	11	02.00	-4.4X		ePKP	11	41.00			
	0.9s	5.00nm					Z	18s	1.18um	5.7Msz			ePKPab	11	59.00				
UPP	124.10	25	iPKP	10	34.70	0.0	E	17s	1.32um				ePP	15	37.00				
DMN	124.11	93	PKP	10	36.00	-0.2			sPKP	11	16.00		VLA	158.61	131	iPKPd	11	35.00	1.3
GKN	124.19	92	PKP	10	35.60	-0.6			PKS	14	36.00			e	11	48.00			
PKI	124.23	93	PKP	10	36.00	-0.5	WHN	140.64	120 ePKP	11	09.00	2.1X		i	12	09.00			
KKN	124.35	93	PKP	10	36.00	-0.6	Z	20s	2.25um	5.9Msz		MDJ	158.95	125	ePKP	11	34.00	-0.1	
GUN	124.75	94	PKP	10	37.20	-0.3	N	20s	1.92um			Z	20s	3.08um			6.1Msz		
OBN	124.97	39	iPKPc	10	32.00	-4.5X	GTA	140.89	97 PKP	11	07.00	-0.3		PP	15	50.00			
	2.0s	160.00nm					Z	24s	2.41um	5.9MszX		BOD	159.61	78	ePKP	11	33.20	-1.2	
	Z	18s	0.90um		5.5Msz		E	18s	1.36um				1.5s	19.00nm					
	N	20s	1.10um						PP	14	05.00		TIK	164.49	30	iPKP	11	35.00	-3.9X
	E	20s	1.30um						SKKS	20	56.00			2.0s	20.00nm				
		e	10	44.00			XAN	141.10	111 PKP	11	05.00	-2.8X	Z	20s	1.80um			5.3MszX	
		e	12	32.00			Z	20s	1.82um	5.8Msz			i	12	35.00				
		eSS	29	28.00			E	18s	1.35um				i	16	21.00				
BGMT	125.77	300	ePKP	10	38.60	-0.2	ELT	143.68	70 ePKP	11	07.80	-3.7X		e	20	22.00			
MOS	125.82	39	ePKP	10	39.00	0.8		2.0s	181.00nm			YSS	165.63	148	iPKP	11	41.50	1.0	

05d 17h

1.5s 70.00nm
e 11 47.00
e 12 39.50
(PPS) 30 08.00
eSS 37 00.00
YAK 168.09 69 ePKP 11 41.30 -0.6
1.8s 56.00nm
e 16 41.00
MGD 178.46 77 iPKP 11 44.00 -1.7
i 17 29.00
e 18 45.00
ePPP 21 50.00
S.D. = 1.0 on 122 of 157 obs.

* APR 05, 1993 16h 53m 49.31±2.16s
21.617 N ± 9.1km 143.207 E ± 14.2km
DEPTH = 331.2 ± 24.1 km
4.0mb (4 obs.)

MARIANA ISLANDS REGION (215)

WKYJ 14.24 333 P 56 59.00 -0.1
KAGJ 14.57 313 eP 57 03.40 0.5
TKSJ 14.73 329 eP 57 05.00 0.4
CHJJ 14.84 347 eP 57 04.50 -1.2
eS 59 39.10
KUMJ 15.47 317 eP 57 12.20 -0.2
MAT 15.50 345 (P) 57 13.00 0.3
eS 59 55.00
YONJ 15.99 330 eP 57 18.50 0.5
SHNJ 16.40 322 eP 57 22.20 -0.1
CTA 41.56 176 ePKP 01 05.00 -2.0
e 16 36.00
e 23 51.00
SNG 43.51 257 eP 01 24.50 1.6
ASPA 45.91 192 iPd 01 42.20 0.5
0.6s 14.10nm 4.4mb
WARB 50.16 199 eP 02 14.50 0.4
GUN 52.04 289 P 02 28.60 0.1
PKI 52.50 289 P 02 31.40 -0.5
KKK 52.58 289 P 02 31.60 -0.8
DMN 52.76 289 P 02 33.60 -0.1
GKN 53.12 289 P 02 36.40 0.1
STK 53.22 182 iPd 02 37.40 0.9
0.8s 3.20nm 3.7mb
GBA 62.81 275 P 03 42.00 -0.9
YKA 76.52 28 eP 05 06.00 1.5
0.6s 0.60nm 3.5mb
HFS 88.81 337 eP 06 06.20 -0.9
0.4s 1.30nm 4.2mb
ZOBO 149.93 85 PKP 13 07.00 8.9X
CNCB 150.19 86 PKP 13 08.00 9.5X
S.D. = 0.9 on 21 of 23 obs.

* APR 05, 1993 17h 54m 34.04±0.95s
25.538 S ± 9.8km 127.695 E ± 9.4km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

WARB 1.15 236 iPd 54 56.40 0.9
FORT 5.23 177 eP 55 55.00 0.8
eS 56 52.00
ASPA 5.95 73 iPc 56 09.00 4.7X
0.4s 34.00nm 5.4mb X
iS 57 11.60
COOL 7.86 226 eP 56 29.50 -1.6
eS 57 52.00
MEEK 8.24 260 eP 56 36.00 -0.5
0.2s 7.00nm 5.6mb X
eS 58 03.00
WB2 8.29 49 eP 56 36.90 -0.3
eS 58 09.70
MBL 8.44 299 eP 56 40.30 1.1
0.2s 2.00nm 5.1mb X
eS 58 11.00
MRWA 11.02 248 eP 57 11.00 -3.8X
eS 59 07.00
NANU 11.51 282 eP 57 21.00 -0.4
eS 59 23.00
S.D. = 1.2 on 7 of 9 obs.

* APR 05, 1993 19h 01m 55.62±2.68s
43.250 N ± 12.8km 5.721 E ± 19.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (STR).

CALN 0.99 59 Pg 02 14.96 0.5

AURF 1.33 61 Pn 02 20.16 -0.1
Sg 02 42.20
TOUF 1.35 55 Pn 02 20.20 -0.3
Sg 02 40.96
SBF 1.39 63 Pn 02 21.03 -0.1
AUTN 1.45 58 Pn 02 21.78 -0.3
Sg 02 45.03
SAOF 1.52 80 Pn 02 22.65 -0.3
DOI 1.67 41 P 02 25.10 0.0
eSn 02 49.30
BNI 1.93 21 Pd 02 29.10 0.2
eSn 02 52.00
CKI 2.19 57 P 02 32.80 0.2
eSn 03 04.00
PGF 2.51 105 Pn 02 37.36 0.2
S.D. = 0.3 on 10 of 10 obs.

* APR 05, 1993 19h 38m 57.99s
61.484 N 141.374 W
DEPTH = 0.0km
4.1mb (6 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 4.1 (AEIC), 4.2
(PMR), 4.5 (PGC).

CTGM 0.52 178 P 39 07.90 -0.5
S 39 13.70
BALM 0.65 227 P 39 11.10 0.1
S 39 22.20
TGL 1.02 225 P 39 17.70 -0.5
CROM 1.13 230 iPd 39 19.12 -1.0
eS 39 35.39
YAH 1.14 189 iPd 39 19.62 -0.8
eS 39 37.15
GLB 1.17 269 P 39 20.20 -0.6
SNH 1.49 209 ePd 39 26.41 0.3
PCA 1.50 158 iPd 39 25.16 -1.1
BCPM 1.76 150 eP 39 29.34 -0.6
RAGM 1.95 237 P 39 34.00 1.2
HYT 1.99 108 Pc 39 30.80 -2.6
TMW 2.00 338 P 39 31.10 -2.3
TZL 2.01 288 P 39 35.90 2.4
PNL 2.07 151 ePd 39 33.73 -0.7
YKU 2.10 156 P 39 36.00 1.2
SGAM 2.11 244 eP 39 36.29 1.2
KAIM 2.16 225 ePd 39 37.54 1.8
KLU 2.18 272 ePc 39 37.13 1.0
SDG 2.23 300 ePc 39 36.31 -0.4
eS 40 08.51
CVA 2.33 248 ePc 39 39.66 1.5
eS 40 09.70
HQN 2.38 148 iPd 39 37.63 -1.4
eS 40 08.77
VLZ 2.42 264 eP 39 40.95 1.5
eS 40 08.33
PAX 2.43 310 eP 39 38.15 -1.6
eS 40 09.30
DOT 2.50 331 eP 39 38.44 -2.3
DWW 2.73 18 P 39 40.10 -3.8
HIN 2.73 249 eP 39 44.95 1.0
DAWY 2.75 19 P 39 40.45 -3.7
THY 2.81 316 P 39 46.00 0.9
SCM 2.86 280 ePc 39 47.12 1.3
WHC 3.14 101 P 39 45.61 -4.1
S 40 24.06
PLBC 3.21 127 P 39 48.00 -2.6
SML 3.34 279 eP 39 53.09 0.6
GHO 3.62 278 ePc 39 57.05 0.5
PLRM 3.72 275 eP 39 59.11 1.3
PMR 3.72 275 ePn 39 57.73 -0.1
S 40 50.10
PTE 3.76 264 ePc 39 59.48 1.0
HDA 3.89 321 eP 39 57.42 -2.9
RND 3.97 302 ePc 40 03.41 1.8
MPA 4.02 259 ePc 40 03.02 0.9
HUR 4.15 295 eP 40 05.78 1.8
MCK 4.16 306 P 40 04.10 0.0
SEW 4.19 254 eP 40 05.02 0.5
WRH 4.29 317 eP 40 05.55 -0.4
CCB 4.32 320 eP 40 04.21 -2.1
SLKM 4.42 261 ePc 40 08.59 0.7
GLM 4.44 325 P 40 04.10 -4.2
FBA 4.49 323 eP 40 03.52 -5.4
SUA 4.49 274 eP 40 10.23 1.2
TRF 4.58 299 P 40 10.50 0.2
MDM 4.67 321 eP 40 08.57 -2.8
NEA 4.68 315 eP 40 09.33 -2.2

SKT 4.86 280 ePc 40 13.94 -0.1
SPU 5.15 271 eP 40 18.18 -0.1
CPAM 5.19 272 eP 40 19.53 0.7
CRP 5.19 272 eP 40 16.15 -2.8
CKN 5.21 272 eP 40 19.38 0.3
CP2 5.23 272 (P) 40 16.88 -2.7
CNPM 5.25 252 eP 40 19.64 -0.1
CKL 5.29 272 eP 40 20.23 -0.1
BGL 5.30 272 eP 40 21.25 0.7
FYU 5.38 343 P 40 18.20 -3.2
SIT 5.42 142 (P) 40 21.73 -0.2
DFR 5.57 266 eP 40 23.79 -0.5
RSO 5.64 265 eP 40 24.80 -0.5
RS2 5.64 265 eP 40 25.01 -0.3
RS1 5.64 265 eP 40 24.84 -0.5
RDW 5.66 265 eP 40 25.06 -0.5
NCT 5.69 266 eP 40 25.33 -0.7
PDB 6.53 261 eP 40 36.73 -1.0
MCNL 6.83 256 eP 40 41.92 0.0
SVW 6.88 273 eP 40 40.09 -2.5
TTA 7.00 288 eP 40 40.82 -3.5
S 42 38.54

IMA 7.13 316 eP 40 43.12 -3.0
INK 7.61 23 P 40 49.00 -3.8
0.7s 40.00nm 5.8mb X
YKA 12.59 74 eP 41 54.40 -6.6
0.7s 2.70nm 4.6mb X
MBC 16.60 18 eP 42 47.00 -6.3
0.7s 5.00nm 3.8mb
FCC 23.30 75 eP 44 08.50 0.6
BW06 26.63 120 eP 44 37.98 -2.1
1.2s 6.23nm 4.2mb
RSSD 27.94 111 eP 44 48.56 -3.4
0.6s 3.67nm 4.4mb
SRU 29.34 125 (P) 45 00.90 -3.6
JAO 34.55 72 eP 45 45.50 -4.3
DAG 37.42 19 eP 46 10.40 -3.4
0.8s 1.49nm 3.8mb
NB2 56.01 16 P 48 37.80 -2.3
0.9s 3.20nm 4.4mb
NUR 57.86 8 eP 48 48.00 -5.2
GEC2 68.21 17 eP 50 03.70 1.7
0.7s 0.65nm 4.0mb
KBA 69.89 18 iPd 50 09.40 -3.0
i 50 14.80
SPA 151.32 180 iPKPc 58 50.10 2.9
0.6s 34.15nm
87 obs. associated

* APR 05, 1993 19h 42m 07.11±0.49s
33.783 S ± 5.6km 69.964 W ± 3.8km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.8 (SAN).

FCH 0.53 329 iP 42 17.82 -0.1
iS 42 25.72
CHCH 0.59 255 iP 42 19.11 0.0
iS 42 27.96
CACH 0.62 238 eP 42 19.61 -0.2
iS 42 29.56
SAN 0.67 299 iP 42 20.47 0.0
iS 42 30.59
PEL 0.88 316 iP 42 24.19 0.2
iS 42 37.08
LNV 1.22 261 iP 42 29.69 0.0
iS 42 46.72
LCCH 1.37 282 iP 42 32.37 0.1
iS 42 51.55
RFA 1.58 129 iPc 42 35.50 0.2
S 42 56.00
CFA 2.61 34 e(P) 42 54.00 3.9X
MRA 3.83 70 ePc 43 07.70 0.4
S 44 05.80
TCA 5.15 63 e(P) 43 25.60 -0.6
S.D. = 0.3 on 10 of 11 obs.

* APR 05, 1993 19h 49m 11.60±5.40s
49.144 N ± 34.4km 6.905 E ± 21.2km
DEPTH = 5.0km (geophysicist)
GERMANY (543)
ML 2.5 (STR).

LANF 0.61 105 Pg 49 23.73 -0.2
SRBF 0.66 110 Pg 49 25.38 0.5
HOFF 0.73 106 Pg 49 25.50 -0.6
CDF 0.77 161 Pg 49 26.67 -0.5

05d 19h

			DEPTH = 26.1 ± 7.3 km			1.1s 9.40nm 4.8mb		
WLS 0.79 158 Pg			4.9mb (40 obs.) 4.4Msz (1 obs.)			73.09 81 P 11 40.58 -0.9		
			NEAR WEST COAST OF COLOMBIA (102)			0.9s 13.00nm 5.0mb		
ECH 0.94 170 Pg			PSO 2.25 135 iPc			LIC 73.68 84 P 11 44.00 -0.9		
			CAYA 2.86 161 P			TIC 73.68 84 P 11 44.10 -0.8		
MOF 1.30 173 Pg			GGP 2.98 174 P			KIC 73.96 84 P 11 45.88 -0.7		
			ANTI 3.33 167 P			INK 74.92 342 eP 11 58.00 7.0X		
BSF 1.32 183 Pg			VC1 3.46 172 P			ECOG 76.64 52 eP 12 02.50 0.9		
			BOG 5.15 69 eP			MBC 76.75 351 eP 12 00.50 -0.8		
FEL 1.47 149 Pg			UPA 6.16 354 ePd			DCN 76.84 36 eP 12 06.00 3.8X		
						DMU 77.18 35 eP 12 04.60 0.6		
LOMF 1.80 182 Pn						EHUE 77.47 52 eP 12 06.80 0.7		
						ENIJ 77.69 53 eP 12 07.50 0.2		
S.D. = 0.7 on 10 of 10 obs.						ETOR 78.22 49 eP 12 12.00 1.8		
% APR 05, 1993 19h 53m 36.59±0.97s			ECO 6.56 353 eP			FBA 78.61 336 eP 12 17.59 5.8X		
44.502 N ± 5.6km 7.070 E ± 10.3km			BRU 6.98 329 eP					
DEPTH = 10.0km (geophysicist)			SDV 10.20 53 eP			LPF 79.80 42 eP 12 18.30 -0.2		
NORTHERN ITALY (545)			TOV 11.40 52 ePc			GRR 79.97 41 eP 12 19.40 0.0		
ML 2.0 (GEN).								
PZZ 0.02 82 P			CEOS 12.19 59 iP			EPF 80.22 47 eP 12 21.20 0.2		
			TPP 18.86 66 eP			MFF 80.24 43 eP 12 21.00 0.1		
STV 0.32 145 P			TRN 19.03 65 eP			FLN 80.26 41 eP 12 21.20 0.2		
			TBH 19.28 66 eP					
BHB 0.37 22 P			TPR 19.81 64 eP			LDF 80.48 41 eP 12 22.20 0.1		
			ARE 20.50 159 eP			LPO 80.98 45 eP 12 24.80 -0.1		
ENR 0.37 137 P			SLB 20.77 57 eP			RJF 81.27 45 eP 12 26.40 0.0		
			BIM 21.10 55 eP					
RRL 0.47 334 P			FDF 21.14 55 eP			IMA 81.29 337 eP 12 30.52 4.3X		
			MVM 21.26 56 eP					
ROB 0.61 110 P			CRM 21.35 55 eP			CAF 81.63 45 eP 12 28.40 0.1		
			NEV 21.45 47 eP					
RSP 0.66 12 P			MGH 21.45 49 eP			TCF 81.83 44 eP 12 29.00 -0.3		
			ZOBO 21.74 151 iPc					
IMI 0.83 135 P			Z 1.0s 37.50nm 4.8mb			ESEL 81.90 50 eP 12 31.00 1.2		
			S 54.03.06			MAF 82.07 44 eP 12 30.70 0.1		
S.D. = 0.2 on 8 of 8 obs.			BPA 21.92 49 eP			AVF 82.66 43 eP 12 33.30 -0.2		
* APR 05, 1993 20h 41m 00.70±0.34s			LPB 21.98 151 Pc			SSF 82.78 43 eP 12 34.10 -0.1		
59.856 S ± 8.6km 26.197 W ± 10.6km			LR 14 20.00			SMF 82.98 44 eP 12 35.00 -0.3		
DEPTH = 33.0km (normol)			CNCB 22.28 151 Pc			LOR 83.03 43 eP 12 35.00 -0.5		
4.7mb (6 obs.)			CPB 22.32 48 eP			DOU 83.68 40 P 12 39.60 0.9		
SOUTH SANDWICH ISLANDS REGION (153)			OXX 22.53 310 (P)			LRG 84.64 47 eP 12 44.20 0.5		
NVL 18.87 141 eP			CCH 23.69 148 P			WLF 84.67 41 P 12 45.00 1.4		
SPA 30.32 180 iPc			IISM 24.19 313 (P)			LMR 84.75 47 eP 12 44.20 0.0		
			PPM 25.17 311 (P)			FRF 84.85 47 eP 12 45.00 0.3		
			III 25.40 309 (P)			BSF 85.04 42 eP 12 45.50 -0.2		
			SIV 25.69 137 iPc			SBF 85.43 46 eP 12 48.00 0.3		
			MIAR 34.41 338 eP			NB2 87.62 29 P 12 58.60 0.6		
			LTX 35.35 321 eP			GRF 87.96 41 e(P) 13 01.40 1.5		
			BAO 35.65 122 eP			MOX 88.18 40 eP 13 01.90 1.0		
			PPD 36.56 134 eP			HFS 88.88 30 eP 13 03.30 -0.7		
			TCA 36.59 159 eP			Z 0.5s 0.80nm 4.3mb		
			MEO 36.70 332 iPc			CLL 89.02 39 eP 13 06.00 1.1		
			VAO 40.35 131 eP			KBA 89.50 43 iPc 13 07.60 0.1		
			ALQ 40.95 325 eP			KHC 89.52 41 eP 13 08.50 1.1		
			RSNY 41.74 5 eP			GEC2 89.62 41 eP 13 09.20 1.3		
			TUC 41.92 318 eP					
			GAC 42.83 4 eP					
			EEO 43.66 360 eP					
			LMN 44.61 14 eP					
			CBM 44.94 10 (P)					
			RSSD 46.76 335 eP					
			DAU 47.49 326 (P)					
			GSC 47.73 317 (P)					
			DUG 48.22 325 (P)					
			BW06 48.27 330 (P)					
			ULM 49.41 346 ePc					
			BONR 50.21 319 (P)					
			JAO 50.90 2 eP					
			LCCM 51.64 331 eP					
			ORV 53.18 319 eP					
			FCC 57.05 351 eP					
			MCW 59.12 328 (P)					
			FRB 61.28 5 eP					
			YKA 65.18 343 eP					
S.D. = 0.8 on 21 of 29 obs.								
APR 05, 1993 21h 00m 10.91±1.05s								
2.809 N ± 4.8km 78.903 W ± 5.1km								

05d 21h

CTA 132.74 245 iPKPd 19 42.00 15.8X
0.8s 14.93nm
ASPA 142.11 234 iPKPd 19 43.50 0.0
0.8s 4.20nm
Z 23s 0.20um 4.8mszX
XAN 142.62 349 PKP 19 46.60 2.5X
WB2 143.35 240 ePKP 19 42.20 -3.5X
0.7s 4.50nm
WRA 143.36 240 PKP 19 42.80 -2.9X
1.0s 0.50nm
GKN 145.51 26 PKP 19 49.40 0.1
KKN 145.98 26 PKP 19 50.60 0.4
DMN 146.06 26 PKP 19 50.08 -0.3
1.0s 82.00nm
GUN 146.13 25 PKP 19 51.40 0.8
PKI 146.22 26 PKP 19 51.00 0.2
0.9s 49.00nm
LSA 146.30 16 PKP 19 52.60 1.6
CD2 146.37 356 PKP 19 53.00 2.5X
HY8 150.03 47 ePKP 20 01.00 4.4X
GYA 150.41 350 PKP 20 02.40 5.3X
GBA 151.42 55 PKP 20 05.00 6.4X
KMI 152.19 357 PKPd 20 06.80 6.9X
S.D. = 1.1 on 97 of 127 obs.

? APR 05, 1993 21h 56m 55.71± 8.51s
7.968 S ± 80.4km 128.019 E ± 19.0km
DEPTH = 33.0km (normal)
BANDA SEA (280)

MTN 5.73 148 eP 58 21.00 0.2
0.3s 57.00nm 5.6mb
KNA 7.77 175 eP 58 49.80 0.4
0.2s 13.00nm 5.6mb
WB2 13.39 153 iPc 00 02.30 -3.7X
eS 02 22.60
MBL 15.31 210 eP 00 30.50 -0.7
eS 03 15.00
ASPA 16.60 161 eP 00 47.10 -0.6
eS 03 42.90
WAR8 18.16 184 eP 01 16.00 8.8X
NANU 18.84 218 eP 01 16.00 0.6
S.D. = 0.8 on 5 of 7 obs.

& APR 05, 1993 21h 59m 22.28s
61.453 N 141.371 W
DEPTH = 0.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC), 3.1 (PGC).

CTGM 0.49 178 iP 59 32.08 0.0
eS 59 40.90
BALM 0.63 229 iP 59 35.29 0.4
eS 59 46.04
TGL 1.00 226 eP 59 41.85 -0.3
eS 59 56.71
CROM 1.11 232 eP 59 43.45 -0.7
eS 00 00.08
YAH 1.11 190 iP 59 43.81 -0.4
eS 00 01.04
GLB 1.17 271 eP 59 44.44 -0.7
eS 00 01.71
SNH 1.47 210 eP 59 48.52 -1.5
PCA 1.47 158 eP 59 48.90 -1.2
eS 00 10.46
CYK 1.48 202 eP 59 51.80 1.6
BCPM 1.73 150 eP 59 53.99 0.2
eS 00 17.06
RAGM 1.94 238 eP 59 57.75 0.9
TMW 2.03 339 eP 59 58.15 0.1
PNL 2.04 151 eP 59 58.76 0.5
KAIM 2.14 226 eP 00 02.17 2.4
KLU 2.18 273 eP 00 01.77 1.3
SDG 2.24 301 eP 00 01.10 -0.2
CVA 2.32 249 eP 00 04.30 2.0
HON 2.36 147 eP 00 02.02 -0.9
VLZ 2.42 265 eP 00 05.61 1.9
PAX 2.45 310 eP 00 05.10 0.8
DOT 2.53 332 eP 00 02.77 -2.6
HIN 2.72 249 eP 00 10.61 2.5
SCM 2.87 280 eP 00 14.73 4.5
SML 3.34 279 eP 00 19.28 2.4
GHO 3.62 278 eP 00 19.05 -1.8

SLKM 4.41 261 eP 00 32.03 -0.1
26 obs. associated

APR 05, 1993 22h 55m 32.38± 0.27s
40.721 N ± 3.1km 15.757 E ± 2.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
ML 4.2 (TTG), 3.9 (THE).

SGO 0.38 245 Pc 55 40.50 0.4
MGR 0.60 195 Pc 55 43.70 -0.9
eSg 55 53.00
ORI 0.84 141 P 55 49.00 0.3
eSg 56 02.00
MMN 0.85 168 P 55 47.80 -0.9
CSI 1.03 156 P 55 50.40 -1.4
BRT 1.11 81 P 55 53.40 0.2
eSg 56 09.00
TDS 1.15 157 P 55 54.10 0.2
eSg 56 10.50
ROI 1.31 151 P 55 56.30 -0.3
DUI 1.36 314 P 55 59.10 1.7
ACI 1.41 166 P 55 58.80 0.7
RFI 1.46 294 P 56 00.33 1.6
LCI 1.72 102 P 56 04.10 1.6
SDI 1.76 305 P 56 04.10 0.9
GRI 1.97 165 P 56 06.38 0.2
AOU 2.40 313 P 56 13.40 1.0
RDP 2.52 295 P 56 14.80 0.8
RMP 2.55 296 P 56 14.90 0.5
SOI 2.66 175 Pc 56 16.00 0.0
eSn 56 47.80
BDV 2.79 55 iPnd 56 17.82 0.0
iSn 57 03.65
MNS 2.85 307 P 56 20.10 1.4
ULC 2.91 64 iPnd 56 19.38 -0.2
iSn 57 05.76
BRY 3.01 43 iPnc 56 21.56 0.4
iSn 57 10.15
TTG 3.13 56 iPnd 56 22.70 0.0
iSn 57 11.45
NKY 3.20 48 iPnd 56 24.15 0.4
iSn 57 13.88
ASS 3.29 316 P 56 27.00 1.9
ARV 3.48 324 P 56 28.60 1.0
PVY 3.67 58 iPnc 56 30.51 0.0
iSn 57 24.28
IGT 3.70 107 ePn 56 31.60 0.7
PLE 3.76 45 ePn 56 32.61 0.8
iSn 57 28.10
IVA 3.77 54 iPnd 56 32.26 0.4
iSn 57 27.70
OHR 3.84 83 iPn 56 33.60 0.7
RSM 4.03 324 P 56 37.00 1.6
CRE 4.05 317 P 56 37.80 1.9
FNA 4.27 87 iPn 56 39.24 0.3
SFI 4.31 319 P 56 41.20 1.7
PGD 4.35 318 P 56 40.00 -0.1
SKO 4.46 72 iPn 56 42.20 0.7
iSn 57 30.50
VBY 4.80 356 ePn 56 47.30 1.0
iSn 57 38.40
GRG 5.05 85 iPn 56 49.36 -0.6
eSn 57 44.48
BDI 5.07 313 P 56 51.20 0.9
CEY 5.11 349 e(Pn) 56 53.00 2.2X
eSn 57 51.50
LIT 5.18 95 ePn 56 51.97 0.2
VAY 5.19 81 ePn 56 52.50 0.6
AGG 5.33 106 ePn 56 55.72 1.7
PGF 5.38 292 Pn 56 53.90 -0.9
LJU 5.39 351 e(Pn) 56 53.00 -1.8
e 56 57.00
eSn 57 54.00
KNT 5.43 83 iPn 56 54.36 -0.9
VOY 5.48 346 ePn 56 55.70 -0.4
e 56 58.50
eSn 57 57.00
THE 5.48 89 ePn 56 55.60 -0.4
SOH 5.77 87 ePn 56 59.40 -0.7
RBL 5.93 345 P 57 01.50 -0.9
eSn 58 07.70
SRS 5.95 84 ePn 57 01.68 -0.9
CTI 6.11 332 P 57 02.70 -2.2
PAIG 6.11 95 ePn 57 03.44 -1.4
FVI 6.25 341 P 57 05.40 -1.5
KBA 6.59 345 e(Pn) 57 13.00 1.2

iSn 58 25.20
iSg 59 07.30
MDI 6.71 321 P 57 11.00 -2.3
SBF 6.92 300 Pn 57 15.60 -0.8
FRF 7.34 296 Pn 57 20.80 -1.4
LMR 7.36 294 Pn 57 20.90 -1.6
LRG 7.50 294 Pn 57 23.50 -1.0
LPG 8.13 309 Pn 57 32.30 -1.3
GEC2 8.25 351 Pn 57 32.30 -2.7
Sn 59 00.40
KHC 8.55 350 eP 57 37.00 -2.1
e 57 56.00
eSg 58 30.00
MLR 8.84 54 eP 57 47.00 3.7X
CDF 9.78 325 Pn 57 51.50 -4.6X
HAU 9.91 320 Pn 57 53.90 -4.0X
S.D. = 1.2 on 63 of 67 obs.

% APR 05, 1993 23h 25m 50.77± 1.37s
40.199 S ± 7.1km 173.356 E ± 7.2km
DEPTH = 212.6 ± 15.2 km
COOK STRAIT, NEW ZEALAND (163)

DIW 0.74 145 Pd 26 20.40 -0.2
QRZ 0.89 225 Pc 26 21.30 -0.1
S 26 40.90
TCW 1.23 146 P 26 23.80 0.1
BSZ 1.27 72 P 26 24.50 0.5
KIW 1.36 120 P 26 24.40 -0.3
MRW 1.46 136 P 26 25.30 -0.2
S 26 47.20
CAW 1.59 125 P 26 26.60 -0.1
THZ 1.60 192 P 26 26.80 0.0
S 26 50.10
MNG 1.68 105 P 26 27.50 0.0
S 26 50.70
MOW 1.89 131 P 26 29.40 -0.1
MTW 1.89 121 P 26 29.50 0.0
DSZ 1.94 217 P 26 30.30 0.3
CNZ 1.96 60 P 26 30.50 0.2
NGZ 2.01 60 P 26 31.00 0.2
KHZ 2.22 176 Pc 26 32.80 0.0
S 27 00.30
PGZ 2.27 102 P 26 33.50 0.2
WAHZ 2.36 79 P 26 34.40 0.0
TEHZ 2.66 87 P 26 38.00 0.4
WHH 2.76 63 P 26 38.50 -0.3
URZ 3.50 58 eP 26 46.80 -0.6
NOZ 3.95 68 P 26 53.10 0.2
S.D. = 0.3 on 21 of 21 obs.

? APR 05, 1993 23h 34m 24.83± 7.78s
31.638 S ± 53.6km 69.555 W ± 51.7km
DEPTH = 141.6 ± 53.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.09 105 iPd 34 44.30 0.0
S 34 55.90
RTLL 0.98 72 ePc 34 49.00 0.1
S 35 04.00
CFA 1.12 89 ePd 34 50.20 -0.1
S 35 06.70
MRA 3.36 104 iPc 35 17.10 0.0
TCA 4.25 87 iP 35 29.00 0.0
S.D. = 0.1 on 5 of 5 obs.

APR 06, 1993 00h 46m 38.73± 0.31s
17.580 N ± 5.4km 94.601 W ± 4.5km
DEPTH = 166.8km (6 depth phases)
4.5mb (31 obs.)
CHIAPAS, MEXICO (61)

SCX 2.06 114 eP 47 16.00 0.1
iS 47 42.00
OXX 2.09 257 iP 47 14.00 -2.5
iS 47 37.00
IISM 2.99 298 iP 47 25.00 -2.1
TPX 3.48 139 iP 47 33.50 0.1
PPM 4.10 292 iP 47 41.50 -0.4
iS 48 28.50
IIA 4.16 293 iP 47 42.00 -0.1
iS 48 29.00
UNM 4.69 293 iP 47 48.50 -0.8
III 4.70 280 iP 47 47.50 -2.0
RDG 4.72 122 ePc 47 47.82 -1.9
ACX 5.07 263 iP 47 49.50 -4.7X
CRX 5.15 291 iP 47 55.50 0.0

	Z	16s		1.60um			4.9Mszx
	N	16s		1.80um			
				e	05	26.00	
MDJ		14.95	274	eP	02	43.90	0.4
		1.2s		45.00nm			4.6mb
	Z	20s		3.69um			4.2Msz
				eS	05	24.00	
WKYJ		16.13	231	P	03	02.90	4.2X
YONJ		16.66	238	P	03	05.70	0.4
TKSJ		17.17	234	P	03	14.10	2.4
SEY		17.48	3	eP	03	15.60	0.2
		1.1s		30.00nm			4.3mb
	Z	16s		1.70um			5.8Msz
CN2		18.04	274	Pd	03	21.50	-0.9
		0.8s		22.00nm			4.3mb
	Z	18s		2.39um			4.7Msz
	N	16s		0.62um			
	E	16s		1.34um			
				ePP	03	30.00	
SHNJ		18.80	240	P	03	30.50	-1.3
SNY		19.93	269	iPd	03	43.80	-0.4
		1.2s		65.00nm			4.8mb
	Z	18s		2.13um			
	N	14s		0.92um			
	E	15s		1.28um			
				S	07	19.50	
				sS	07	35.50	
KUMJ		20.08	237	P	03	46.50	0.7
YAK		20.54	331	eP	03	48.00	-2.3
		1.0s		750.00nm			6.0mb
	Z	22s		3.50um			4.7Msz
	N	20s		1.40um			
	E	20s		0.80um			
				ePP	04	03.00	69kmX
				i	04	10.00	
				ePPP	04	25.00	
				eS	07	35.00	
				i	07	50.00	
				eSS	08	17.00	
				i	15	11.00	
KAGJ		21.03	234	eP	03	55.90	0.3
CIT		25.12	299	eP	04	36.00	0.5
	Z	16s		2.04um			4.7Mszx
	E	17s		3.65um			
				eS	08	57.00	
BOD		25.47	312	eP	04	37.60	-1.0
		0.7s		10.00nm			4.5mb
BJI		25.80	270	eP	04	42.00	0.1
		1.1s		65.00nm			5.1mb
	Z	20s		1.80um			4.6Msz
	E	16s		1.71um			
				eS	09	06.00	
TIA		26.88	262	eP	04	51.90	0.1
		1.1s		80.00nm			5.3mb
	Z	20s		0.79um			4.3Msz
	E	14s		0.44um			
SSE		27.08	248	Pc	04	54.00	0.3
		1.0s		32.00nm			4.9mb
	Z	22s		1.40um			4.5Msz
				pP	05	03.50	34kmX
				eS	09	28.00	
ILT		27.50	25	iPc	04	55.00	-2.2
		1.1s		32.00nm			4.9mb
	Z	15s		1.00um			4.5Mszx
	E	14s		0.90um			
NJ2		28.02	253	Pc	04	59.00	-3.2X
	Z	18s		0.94um			4.4Msz
TIK		28.24	346	eP	05	03.00	-0.8
		0.8s		9.00nm			4.5mb
				e	06	03.00	319kmX
BTO		29.91	275	eP	05	18.00	-1.2
	N	14s		0.64um			
	E	14s		1.04um			
				ePP	06	11.50	
				eS	10	06.00	
ZAK		31.72	296	eP	05	35.20	0.3
		1.0s		10.00nm			

06d 01h

XAN	33.74	265 Pc	05 52.00	-0.8	KSH	53.61	292 eP	08 31.60	-0.8	JAO	73.47	27 eP	10 41.50	-1.2
	1.0s	15.00nm		4.9mb	N	18s	1.93um			ALQ	73.93	56 eP	10 46.12	0.2
Z	15s	0.71um		4.5MszX	E	20s	1.24um				0.8s	9.26nm		4.8mb
N	13s	0.48um					sP	08 54.00		KIS	74.68	323 eP	10 49.00	-0.7
		sP	06 04.50		SVE	53.63	317 ePd	08 32.00	-0.1	Z	17s	1.50um		5.4MszX
TTA	34.47	40 eP	05 58.35	-0.5			0.60um		4.7Msz	KER	74.80	304 eP	10 51.00	0.1
	1.0s	9.64nm		4.7mb	N	19s	0.50um			ARMA	75.54	179 eP	10 56.30	1.4
SVW	34.55	44 eP	05 59.85	0.4	E	19s	0.50um				0.8s	9.00nm		4.8mb
	0.9s	9.76nm		4.7mb			e	09 37.00	302kmX	OJC	75.60	330 eP	10 55.10	0.1
IMA	35.81	35 iPc	06 09.66	-0.6	KKN	53.93	275 P	08 35.00	0.0	UZH	76.01	328 ePd	10 58.00	0.7
	1.0s	18.31nm		5.0mb	PKI	53.98	274 P	08 35.20	-0.3		1.2s	32.00nm		5.1mb
BRW	35.84	26 iPd	06 10.05	-0.1	DMN	54.16	275 P	08 36.80	0.0			e	11 04.00	19kmX
LZH	36.26	272 iPc	06 14.80	0.5	GKN	54.25	275 P	08 37.40	0.1	KSP	76.27	332 iPc	10 58.50	-0.2
	1.2s	140.00nm		5.8mb	ARU	54.81	317 eP	08 38.50	-2.3	SPC	76.31	329 eP	11 00.00	0.8
Z	28s	0.96um		4.4MszX			0.50um		4.6Msz	VRI	76.49	323 eP	11 01.00	0.9
E	15s	0.51um			Z	20s	0.50um			CLL	76.91	334 iPc	11 01.60	-0.7
		pP	06 24.50	33kmX	N	20s	0.50um				1.1s	49.00nm		5.4mb
		sP	06 27.50		E	20s	0.50um			BRG	76.99	334 iPc	11 02.40	-0.4
		PP	07 33.00		GMW	56.51	54 eP	08 53.11	-0.1		1.0s	22.00nm		5.1mb
		eS	11 50.00		RMW	57.12	54 (P)	08 57.59	-0.1	MLR	77.12	324 eP	11 05.00	1.2
		esS	12 06.00		SNG	57.58	244 eP	08 55.10	-6.0X	EKA	77.16	345 Pd	11 03.80	0.2
SLKM	37.20	45 (P)	06 20.12	-1.7	DAG	57.84	357 eP	09 05.00	2.8		0.8s	19.50nm		5.2mb
GTA	37.52	279 P	06 25.00	0.1			12.00nm		5.0mb	WIT	77.35	339 eP	11 06.00	1.4
	1.0s	47.00nm		5.4mb	DPW	58.91	52 (P)	09 10.10	0.0	VRAC	77.48	331 iPc	11 05.90	0.5
Z	18s	0.91um		4.6Msz	NDI	59.01	281 ePc	09 10.60	-0.4		1.0s	97.80nm		5.8mb
E	12s	0.31um					eS	17 21.00		PSZ	77.50	329 iPc	11 05.60	-0.1
		pP	06 36.50	42km	NEW	59.28	51 ePc	09 12.12	-0.5	PRU	77.57	333 P	11 06.00	0.0
		sP	06 41.00				21.15nm		5.3mb		1.0s	16.60nm		5.0mb
		PcP	08 43.50		LBFM	60.55	60 ePc	09 21.74	0.1	MOX	77.91	335 iPc	11 07.70	-0.1
		sS	12 32.50				e	09 34.48	45km		1.4s	39.00nm		5.2mb
PMR	37.67	43 eP	06 24.49	-1.2	ORV	61.85	61 (P)	09 29.39	-0.9	Z	21s	0.60um		4.9Msz
	1.1s	23.30nm		5.0mb	FCC	63.23	32 eP	09 41.00	2.0	WTS	78.05	338 iPc	11 08.80	0.3
FBA	38.19	37 eP	06 29.76	-0.2	KVN	64.24	60 eP	09 46.52	0.2		0.8s	45.50nm		5.6mb
	1.1s	37.60nm		5.2mb	LEM	64.77	229 ePc	09 47.80	-2.0	HOF	78.12	334 iPc	11 09.00	0.0
NRI	38.81	330 (P)	06 33.00	-2.1	HYB	65.34	270 iPc	09 52.40	-1.0		0.8s	24.00nm		5.3mb
	1.2s	21.00nm		4.8mb			45.00nm		5.5mb	SRO	78.16	329 iPc	11 10.10	0.9
Z	18s	3.00um		5.2Msz	OBN	65.40	325 iPd	09 52.00	-1.1		0.9s	67.60nm		5.7mb
		e	08 43.00				21.00nm		5.1mb	EEO	78.34	32 eP	11 12.00	1.7
CD2	39.10	265 iPc	06 38.20	0.1	ASH	65.65	300 eP	09 55.00	-0.1	WMOK	78.46	52 ePc	11 11.07	-0.1
	0.8s	100.00nm		5.7mb	VAN	65.80	300 iPc	09 55.60	-0.5		1.0s	25.78nm		5.2mb
		S	12 34.00				25.00nm		5.1mb	MEQ	78.53	52 iPd	11 11.00	-0.6
GYA	39.80	257 iPc	06 43.20	-0.8	Z	15s	1.00um		5.1MszX	OCO	78.59	51 iPd	11 13.80	1.9
	1.0s	38.00nm		5.2mb	MAIO	66.00	298 iPc	09 58.00	0.6	KHC	78.63	333 P	11 12.00	0.1
Z	20s	0.94um		4.6Msz			e	19 33.00			1.0s	28.50nm		5.2mb
		PcP	08 50.20		DUG	66.67	56 ePd	10 01.92	0.2			e	11 34.50	85kmX
		S	12 44.00				21.56nm		5.1mb			e	12 27.50	
ELT	41.37	305 eP	06 56.80	0.4	FRB	66.78	18 ePc	10 00.40	-1.5	FNO	78.83	51 iPc	11 13.60	0.4
	1.0s	12.00nm		4.6mb	WB2	66.79	197 iPc	10 01.50	-0.9	GEC2	78.84	333 eP	11 12.90	-0.2
Z	16s	6.00um		5.6MszX			20.20nm		5.2mb		0.8s	13.57nm		4.9mb
N	15s	6.00um					i	10 30.30	116kmX			e	11 19.90	22kmX
E	15s	8.00um			WRA	66.79	197 P	10 01.50	-0.9			e	11 25.30	
		e	08 54.00				5.90nm		4.7mb	WET	78.84	333 iPc	11 13.50	0.5
KMI	43.36	259 Pc	07 13.00	-0.3	BW06	66.84	52 iPc	10 02.49	-0.4		1.0s	64.00nm		5.5mb
	1.8s	140.00nm		5.4mb			19.58nm		5.2mb	GRF	78.87	335 iPc	11 13.70	0.6
Z	20s	1.10um		4.8Msz	DAU	67.43	55 eP	10 06.21	-0.6		1.0s	58.00nm		5.5mb
		pP	07 26.50	51km			eP	10 20.40	50km	Z	20s	0.60um		4.9Msz
		sP	07 31.50		ARUT	67.86	58 eP	10 09.51	0.1	SOP	78.89	330 iP	11 13.30	0.1
		eS	13 40.00		POO	67.90	274 iPc	10 08.70	-0.9	DMU	79.17	347 eP	11 14.90	0.2
INK	43.61	31 eP	07 17.00	2.5	EMUT	68.08	55 eP	10 10.68	-0.1		1.0s	116.00nm		5.8mb
	1.2s	40.00nm		5.0mb	MSU	68.14	57 eP	10 10.84	-0.3	TNS	79.21	336 ePc	11 15.20	0.2
WMO	43.83	291 P	07 17.00	0.3	UPP	68.22	337 iP	10 09.30	-1.7	ENN	79.40	338 iPc	11 16.10	0.2
	1.0s	14.00nm		4.7mb	ULM	68.57	39 eP	10 15.00	1.7		0.8s	41.70nm		5.4mb
Z	20s	1.07um		4.8Msz	SRU	68.71	56 ePc	10 14.52	-0.1	LTX	79.58	59 eP	11 16.79	-0.6
		pP	07 23.50	22kmX	GBA	68.72	268 Pc	10 15.00	0.3			e	11 29.96	45km
		PcP	08 57.00		NB2	68.87	340 P	10 13.40	-1.7	DLF	79.69	346 eP	11 17.90	0.4
		PP	09 03.00				3.30nm		4.6mb		0.9s	120.00nm		5.8mb
		ScP	12 49.00		RSSD	68.92	48 eP	10 14.45	-1.4	SNF	80.06	339 P	11 19.30	-0.1
		ScS	17 12.00				19.39nm		5.1mb	BHG	80.09	333 iPd	11 20.60	0.9
MBC	46.35	19 eP	07 36.50	0.2	GRO	69.33	311 eP	10 13.50	-4.5X		0.9s	33.00nm		5.3mb
	0.8s	5.00nm		4.5mb	MNK	69.81	328 eP	10 15.00	-5.7X	FUR	80.21	334 eP	11 20.80	0.4
LSA	48.67	273 iPc	07 56.60	1.0	PYA	70.22	313 eP	10 23.00	-0.6		0.9s	47.00nm		5.4mb
	1.0s	27.00nm		5.2mb	Z	18s	2.00um		5.4Msz	DOU	80.36	339 Pc	11 21.00	-0.1
CHG	50.19	256 iPc	08 06.90	0.1			i	10 43.00	75kmX		0.7s	13.30nm		5.0mb
	1.0s	24.50nm		5.2mb	ASPA	70.50	196 iPc	10 25.40	0.1	KBA	80.50	332 iPd	11 22.90	0.8
PRZ	50.48	294 eP	08 10.00	1.0			17.40nm		4.9mb		0.8s	36.30nm		5.4mb
	1.0s	40.00nm		5.4mb	KRV	70.84	309 iPd	10 27.00	-0.3			e	11 50.00	104kmX
Z	16s	0.90um		4.9MszX			60.00nm		5.6mb	PTJ	80.63	330 eP	11 22.40	-0.3
E	16s	0.90um			MTA	70.94	310 iPc	10 27.00	-0.9	ZAG	80.70	330 eP	11 23.50	0.6
FRU	52.72	296 eP	08 26.00	0.3			140.00nm		6.0mb	ALN	80.79	321 eP	11 23.46	0.0
	2.2s	50.00nm		5.1mb	KOD	71.03	265 eP	10 29.00	-0.2	WATA	80.85	333 iPc	11 24.30	0.4
Z	20s	1.00um		4.9Msz	GOL	71.24	52 eP	10 30.25	0.1	WTTA	80.89	333 iPc	11 24.60	0.4
N	18s	1.00um					10.70nm		4.8mb		0.8s	39.30nm		5.4mb
E	18s	1.00um			GRS	71.64	308 iPc	10 32.60	0.2	RBL	80.99	332 Pd	11 23.90	-0.7
		e	09 34.80	325kmX			50.00nm		5.3mb	MOTA	80.99	334 iPc	11 24.90	0.2
YKA	52.93	35 eP	08 26.10	-0.9	TUC	73.15	61 eP	10 41.13	-0.1		0.9s	38.00nm		5.4mb
	1.0s	11.30nm		4.8mb			11.98nm		4.8mb	SQTA	81.07	333 iPc	11 25.40	0.4
GUN	53.44	274 P	08 31.20	-0.3			e	10 54.26	45km		0.9s	31.80nm		5.3mb

FVI	81.11	332 P	11	24.60	-0.5	RSP	84.14	335 P	11	40.36	-0.5	DAU	35.64	328 eP	08	29.46	3.2X
CDF	81.17	336 iPc	11	25.70	0.2	PCP	84.30	334 P	11	41.69	0.1	EEO	35.72	10 ePd	08	26.90	0.4
	1.0s	38.40nm			5.3mb	8NI	84.40	335 Pc	11	43.00	0.8			pP	08	49.50	96kmX
VBY	81.22	330 eP	11	25.50	-0.2	BHB	84.41	335 P	11	40.91	-1.3	BW06	36.61	332 eP	08	33.11	-1.2
		e	11	39.60	49km	MAF	84.46	338 iPc	11	43.50	1.1		0.8s	3.18nm			4.3mb
UYO	81.24	50 iPd	11	25.90	-0.1		1.1s	120.65nm			5.9mb	SIV	37.78	136 P	08	57.40	13.3X
SLE	81.41	335 ePd	11	26.90	0.2	CKI	84.48	334 Pc	11	42.20	-0.3	ULM	39.24	351 eP	08	55.50	-0.5
MIAR	81.42	49 eP	11	26.83	-0.1	RRL	84.49	335 P	11	43.39	0.6	LMN	39.27	25 eP	08	57.50	1.2
	0.9s	21.65nm			5.1mb	TCF	84.49	339 iPc	11	43.30	0.7	LCCM	40.04	333 eP	09	02.70	-0.1
OGA	81.44	333 iPc	11	27.70	0.6		1.0s	43.80nm			5.5mb			e	09	41.80	
	1.0s	27.00nm			5.2mb	AQU	84.62	330 Pd	11	44.20	0.9	JAQ	43.20	10 eP	09	24.50	-3.9X
PLE	81.55	326 iPc	11	28.05	0.4	LSF	84.70	339 iPc	11	44.50	0.9	BAO	47.45	124 iPc	10	01.80	-1.1
SRS	81.68	322 eP	11	27.98	-0.2		1.1s	104.05nm			5.9mb	BDF	47.54	124 iPc	10	02.50	-1.1
ZLA	81.69	335 ePd	11	28.70	0.5	ROB	84.73	334 P	11	43.07	-0.7	MBC	66.94	352 eP	12	16.00	-3.8X
IVA	81.74	326 iPc	11	28.87	0.3	PZZ	84.77	335 P	11	42.74	-1.4		0.5s	2.00nm			4.4mb
RSNY	81.80	31 eP	11	27.98	-0.8	MFF	84.78	340 iPc	11	44.80	0.9	WB2	139.01	253 ePKP	20	59.50	5.0X
	0.9s	12.41nm			4.9mb		1.1s	67.90nm			5.7mb		0.7s	4.00nm			
HAU	81.80	337 iPc	11	28.80	0.1	ENR	84.93	334 P	11	43.20	-1.6	WRA	139.02	253 PKP	20	57.00	2.5X
	0.8s	15.60nm			5.1mb	STV	84.94	335 P	11	43.02	-1.9		0.8s	1.40nm			
Z	22s	0.40um			4.7Msz	IMI	85.07	334 P	11	45.26	-0.3	HYB	148.09	26 ePKP	21	10.50	0.4
BSF	81.84	336 eP	11	29.00	0.0	MBH	85.15	308 eP	11	47.00	0.8	CHC	149.22	348 ePKP	21	16.30	4.4X
	1.0s	20.40nm			5.1mb	RJF	85.58	339 iPc	11	49.00	1.0	LOE	149.87	342 ePKP	21	18.50	5.7X
CBM	81.84	26 eP	11	28.28	-0.6		0.9s	35.40nm			5.6mb	GBA	150.88	31 PKP	21	16.00	1.6
	0.7s	8.13nm			4.9mb	Z	19s	0.35um			4.8Msz	KOD	153.69	35 ePKP	21	24.00	5.1X
SKO	81.87	324 iP	11	29.60	0.4	FRF	85.76	335 eP	11	49.40	0.5		S.D. = 1.1	on 27 of 38 obs.			
	1.0s	77.00nm			5.7mb	CAF	85.79	338 eP	11	49.80	0.7		?	APR 06, 1993 01h 02m 05.04± 0.92s			
Z	19s	0.76um			5.1Msz		1.0s	59.40nm			5.8mb		37.926 N ± 7.9km	29.922 E ± 13.5km			
		LR															

06d 02h

T00	33.78	151	iPd	53	57.00	0.0	
	0.9s		29.00nm			5.2mb	
CHG	38.04	316	eP	54	36.90	3.7X	
GYA	39.62	333	P	54	47.00	0.5	
	1.0s		12.00nm			4.6mb	
SSE	39.94	354	Pd	54	53.00	4.2X	
	1.0s		11.00nm			4.5mb	
KAGJ	40.12	7	eP	54	50.50	0.1	
WHN	40.63	345	eP	54	56.00	1.5	
NJ2	41.17	351	Pc	55	00.00	1.0	
KUMJ	41.45	7	eP	55	00.70	-0.5	
TKSJ	43.34	10	P	55	17.30	0.6	
WYJ	43.86	12	P	55	20.90	-0.1	
YONJ	44.42	9	P	55	26.10	0.6	
CD2	44.74	333	P	55	28.00	-0.2	
XAN	45.49	340	P	55	33.00	-1.1	
	1.0s		9.20nm			4.7mb	
			pP	55	39.50	22km	
MAT	46.67	14	(P)	55	41.00	-2.4	
	0.9s		9.24nm			4.8mb	
LZH	49.16	337	eP	56	03.00	0.0	
	1.4s		39.00nm			5.2mb	
Z	20s		0.20um			4.1MsZ	
			pP	56	08.00	17km	
LSA	50.67	320	P	56	15.40	0.4	
	1.4s		26.00nm			5.0mb	
CN2	52.39	360	P	56	26.30	-0.9	
	1.0s		8.10nm			4.6mb	
			eP	56	36.00	32km	
GBA	52.76	294	P	56	31.00	0.6	
GUN	53.02	315	P	56	32.20	-0.4	
PKI	53.14	314	P	56	32.60	-0.9	
HYB	53.31	299	eP	56	33.00	-1.5	
MDJ	53.33	4	iPc	56	34.20	0.0	
	1.2s		45.00nm			5.3mb	
KKN	53.37	314	P	56	34.60	-0.4	
DMN	53.38	314	P	56	34.80	-0.4	
GTA	53.65	335	P	56	36.00	-0.7	
	1.0s		10.00nm			4.8mb	
			pP	56	41.50	18km	
GKN	53.95	314	P	56	38.00	-0.4	
WMQ	62.68	330	eP	57	38.00	-1.9	
	1.5s		16.00nm			4.9mb	
QUE	68.36	307	eP	58	15.30	-1.7	
YAK	70.71	2	eP	58	29.20	-1.2	
AVY	75.77	253	iPc	59	03.50	2.3	
VTY	75.94	253	iPc	59	04.40	2.3	
ABM	76.05	252	iPc	59	05.20	2.4	
OPO	76.47	253	iPc	59	06.70	1.6	
MAIO	76.51	311	eP	58	50.00	-14.9X	
BCAO	107.51	272	iPKPd	05	43.10	0.8	
	0.3s		5.00nm				
YKA	111.30	26	ePKP	05	47.40	-0.5	
	0.8s		0.50nm				
MSU	120.54	50	ePKP	06	07.38	0.7	
SRU	121.63	49	ePKP	06	07.03	-1.7	
RSSD	124.53	42	ePKP	06	12.96	-1.2	
ALQ	125.89	53	ePKP	06	18.24	1.1	
KIC	130.75	271	PKP	06	27.08	0.4	
LIC	131.02	271	PKP	06	29.00	1.8	
TIC	131.05	271	PKP	06	28.60	1.3	
YJA	147.31	161	ePKPc	06	59.00	2.1	
PPD	149.17	186	ePKP	07	04.20	4.9X	
ARE	149.69	146	e(PKP)	07	05.00	4.4X	
CNCB	151.18	152	PKP	07	06.00	2.9X	
			i	07	10.80		
LPB	151.37	152	PKP	07	09.80	6.6X	
CCH	151.47	156	PKP	07	11.20	7.9X	
ZOBO	151.59	151	iPKPc	07	11.20	7.4X	
	1.2s		33.78nm				
S.D. = 1.2 on 55 of 73 obs.							
? APR 06, 1993 03h 15m 37.19±7.51s							
41.011 N ±24.3km 20.687 E ±58.6km							
DEPTH = 10.0km (geophysicist)							
ALBANIA (391)							
ML 2.4 (THE).							
OHR	0.13	40	iPg	15	40.10	-0.3	
			iSg	15	41.60		
FNA	0.57	113	ePg	15	48.50	-0.3	
			eSg	15	57.70		
GRG	1.30	92	ePb	16	00.94	-0.3	
			eSb	16	20.34		
KNT	1.68	84	ePb	16	07.22	0.5	
THE	1.77	102	ePb	16	07.50	-0.5	
SOH	2.03	94	ePn	16	12.02	1.0	

S.D. = 0.8 on 6 of 6 obs.							
* APR 06, 1993 04h 08m 43.02±1.02s							
6.444 N ±14.7km 76.657 W ± 8.7km							
DEPTH = 33.0km (normal)							
3.8mb (1 obs.)							
NORTHERN COLOMBIA (99)							
MD 4.2 (UPA).							
UPA	3.81	312	iPc	09	41.81	1.1	
			iS	10	18.81		
			i	10	19.73		
ECO	4.18	314	ePd	09	45.95	-0.2	
			eS	10	27.12		
SDV	6.44	68	ePn	10	19.60	1.3	
			eSn	11	26.20		
TOV	7.56	64	eP	10	34.00	0.1	
			eS	11	53.00		
CEOS	8.64	72	iPc	10	47.90	-1.0	
ZOBO	24.10	160	eP	14	07.00	9.6X	
LPB	24.35	160	eP	14	15.00	15.3X	
CNCB	24.65	160	eP	14	03.00	0.2	
YKA	62.45	341	eP	19	03.50	-1.6	
	0.7s		0.60nm			3.8mb	
WRA	147.05	243	PKP	28	28.00	5.1X	
	0.7s		0.20nm				
S.D. = 1.2 on 7 of 10 obs.							
APR 06, 1993 04h 42m 02.29±0.65s							
26.376 S ±5.2km 27.445 E ±7.3km							
DEPTH = 5.0km (geophysicist)							
REPUBLIC OF SOUTH AFRICA (584)							
ML 2.8 (PRE). mbLg 2.8 (BUL).							
PRY	0.55	177	eP	42	13.00	-0.3	
			S	42	19.20		
KSR	0.71	316	eP	42	16.50	0.0	
			S	42	27.50		
BFS	0.79	229	eP	42	17.30	-0.8	
			S	42	26.60		
SLR	0.99	50	eP	42	21.70	0.1	
			S	42	34.00		
SEK	1.95	175	eP	42	37.00	0.5	
			S	43	02.60		
SWZ	2.06	247	eP	42	39.00	0.9	
BUL	6.30	10	iPn	43	37.90	-0.4	
			eSn	44	46.00		
			iSg	45	18.20		
S.D. = 0.7 on 7 of 7 obs.							
? APR 06, 1993 05h 31m 46.55±3.02s							
37.699 S ±37.8km 176.013 E ±15.0km							
DEPTH = 330.0km (geophysicist)							
NORTH ISLAND, NEW ZEALAND (159)							
TTH	1.95	161	eP	32	36.30	0.4	
WAHZ	2.02	172	P	32	36.30	-0.2	
MNG	2.94	188	P	32	44.10	-0.2	
			S	33	27.10		
KIW	3.27	195	P	32	47.40	0.0	
MTW	3.48	186	P	32	49.00	-0.4	
CAW	3.48	192	P	32	49.00	-0.1	
DIW	3.50	207	P	32	50.00	0.3	
MRW	3.67	196	eP	32	51.40	0.0	
			eS	33	40.10		
TCW	3.76	200	P	32	52.70	0.4	
MOW	3.76	189	P	32	52.10	-0.3	
QRZ	4.13	220	P	32	56.00	-0.2	
THZ	4.71	210	eP	33	02.90	0.3	
			S	34	02.40		
KHZ	5.08	201	P	33	07.10	0.5	
DSZ	5.18	217	P	33	07.50	-0.4	
S.D. = 0.3 on 14 of 14 obs.							
* APR 06, 1993 05h 40m 00.23±0.82s							
17.136 N ±25.8km 95.399 W ±12.8km							
DEPTH = 123.8 ± 16.9 km							
3.4mb (1 obs.)							
OAXACA, MEXICO (60)							
OXX	1.27	268	iP	40	25.50	-0.4	
			iS	40	44.50		
IISM	2.63	315	iP	40	41.00	-1.4	
SCX	2.68	98	eP	40	44.00	1.0	
			iS	41	14.00		
PPM	3.62	303	iP	40	57.00	0.9	
IIA	3.69	303	eP	40	57.50	1.0	

TPX	3.74	126	(P)	41	22.00	24.7X
III	4.07	288	iP	41	01.75	-0.1
ACX	4.27	267	(P)	41	12.50	8.0X
CRX	4.65	300	(P)	41	48.00	38.1X
RDG	5.19	113	eP	41	17.44	0.3
			eS	42	13.25	
BVA	5.20	118	eP	41	10.53	-6.7X
			eS	41	59.13	
MRL	5.86	110	eP	41	25.09	-1.2
			eS	42	27.63	
MRX	6.06	296	(P)	42	08.50	39.6X
EEO	32.38	21	eP	46	20.50	0.5
LMN	38.31	35	eP	47	11.00	0.7
JAQ	39.66	18	eP	47	19.50	-1.9
YKA	47.27	348	eP	48	23.00	0.5
	0.4s		0.30nm			3.4mb
S.D. = 1.2 on 12 of 17 obs.						
APR 06, 1993 05h 51m 59.12±0.59s						
44.843 N ± 5.9km 7.580 E ±10.0km						
DEPTH = 29.1 ± 11.7 km						
NORTHERN ITALY						(545)
ML 2.2 (GEN).						
BHB	0.23	270	P	52	05.98	0.4
			S	52	11.11	
RSP	0.38	324	P	52	07.58	-0.3
			S	52	13.30	
PZZ	0.48	225	P	52	08.68	-0.6
			S	52	15.59	
RRL	0.57	278	P	52	11.52	0.7
			S	52	19.30	
ROB	0.59	159	P	52	11.33	0.4
			S	52	19.62	
STV	0.63	197	P	52	11.29	-0.3
			S	52	19.21	
ENR	0.63	191	P	52	11.47	-0.2
			S	52	19.80	
LSD	0.68	334	P	52	12.39	-0.3
			S	52	20.76	
PCP	0.75	113	P	52	13.48	-0.1
			S	52	23.10	
FIN	0.78	144	P	52	14.26	0.3
			S	52	24.42	
S.D. = 0.5 on 10 of 10 obs.						
APR 06, 1993 06h 18m 00.51±0.66s						
17.921 N ± 6.3km 61.436 W ± 5.5km						
DEPTH = 10.3 ± 3.8 km						
4.2mb (2 obs.)						
LEEWARD ISLANDS						(92)
MD 3.9 (TRN).						
CPB	0.46	233	eP	18	11.51	1.5
BPA	0.96	205	ePd	18	17.60	-1.1
			S	18	28.00	
MGH	1.41	212	ePd	18	25.10	-1.1
DEG	1.64	167	ePd	18	28.85	-0.6
SFG	1.67	172	ePd	18	29.70	-0.2
DQG	1.89	185	eP	18	33.18	0.1
PAG	1.89	187	ePd	18	33.23	0.0
MGG	1.99	177	ePd	18	35.40	0.8
FDF	3.18	175	eP	18	51.20	-0.4
CRM	3.19	171	eP	18	51.50	-0.1
MVM	3.39	171	eP	18	54.10	-0.4
BIM	3.40	174	eP	18	55.80	1.1
SLB	4.09	175	eP	19	04.31	-0.1
			eS	19	52.81	
LPR	4.23	276	(P)	19	06.00	-0.6
CPD	4.26	272	P	19	07.00	0.0
SJG	4.49	273	iP	19	11.20	1.1
PORP	4.95	272	P	19	17.00	0.3
APR	5.06	277	(P)	19	17.50	-0.7
LRS	5.16	275	P	19	19.60	0.0
MGP	5.38	272	P	19	22.10	-0.7
SIV	33.70	179	P	24	55.80	11.7X
YKA	57.60	334	eP	27	51.00	-1.6
	0.8s		1.40nm			4.0mb
MBC	65.29	347	eP	28	45.00	0.7
NBZ	66.09	31 P		28	50.10	0.4
	0.9s		2.80nm			4.5mb
INK	66.87	337	eP	28	55.50	1.0
S.D. = 0.8 on 24 of 25 obs.						
APR 06, 1993 06h 41m 02.30±0.33s						
58.746 N ± 6.2km 0.900 E ± 5.1km						
DEPTH = 10.0km (geophysicist)						

NORTH SEA						(534)						CAN						33.44 232 eP						43 02.30 0.4						0.6s						3.80nm											
ML 3.5 (BGS). MD 3.3 (BER).						BWA						33.54 234 iPd						43 01.80 -1.0						RJF						152.42 359 ePKP						56 02.50 7.8X											
						CMS						34.69 240 iPd						43 12.90 0.5												0.7s						5.50nm											
												0.6s						29.00nm												5.1mb						S.D. = 1.1 on 47 of 69 obs.											
LRW	1.75	324	eP	41 34.91	2.0							QLP	35.12	249	iPd	43 16.10	0.1																														
						eS						41 55.79																																			
MFI	2.04	237	ePn	41 37.60	0.6							TOO	36.92	230	iPd	43 31.80	1.1													? APR 06, 1993 08h 05m 35.13± 1.00s																	
						eSn						42 01.00																								39.171 N ±14.9km 27.556 E ±43.7km											
KMY	2.30	76	eP	41 41.52	0.7							STK	38.29	241	iPd	43 42.90	1.0													DEPTH = 10.0km (geophysicist)																	
						eS						42 08.50																								TURKEY (366)											
MCD	2.49	244	ePc	41 43.44	0.0							BFD	38.97	232	eP	43 47.90	0.5													MD 2.7 (ISK).																	
						eS						42 11.37																																			
EDR	2.60	227	ePc	41 45.10	0.1							WB2	44.14	259	iPc	44 27.60	-1.1													IZM 0.81 197 iPg 05 50.80 0.0																	
						eS						42 13.51																								eSg 06 00.80											
EGD	2.68	53	eP	41 46.69	0.4							WRA	44.15	259	P	44 28.50	-0.3													EDC 1.20 11 ePn 05 57.50 0.1																	
						eS						42 16.02																								BNT 1.22 13 ePn 05 57.70 -0.1											
BER	2.79	52	eP	41 48.09	0.3							ASPA	44.35	254	iPd	44 29.80	-0.5													KCT 1.24 30 ePn 05 58.20 0.0																	
						eS						42 18.68																								S.D. = 0.1 on 4 of 4 obs.											
ASK	2.79	50	eP	41 47.98	0.2																																										
						eS						42 18.50																																			
EDU	3.05	225	eP	41 51.23	-0.2							GUA	47.23	309	eP	44 52.30	-0.1													APR 06, 1993 09h 03m 58.47± 0.83s																	
						eS						42 23.88																								5.652 N ± 4.8km 126.542 E ± 8.6km											
MDO	3.09	247	eP	41 51.75	-0.2							GUMO	47.29	309	eP	44 51.30	-1.6													DEPTH = 110.9 ± 8.2 km																	
						eS						42 25.39																								4.9mb (16 obs.)											
ODD1	3.16	66	iPc	41 53.37	0.3							WARB	50.86	250	eP	45 18.60	-0.9													MINDANAO, PHILIPPINE ISLANDS (259)																	
						eS						42 28.47																																			
ELO	3.37	229	ePc	41 55.67	-0.4							MAT	67.38	324	iPc	47 08.70	-0.8																														
						eS						42 32.37																																			
ESY	3.42	215	ePc	41 56.11	-0.5							MDJ	77.66	325	eP	48 09.30	1.1													DAV 1.72 326 iPd 04 28.20 -0.2																	
EBH	3.45	225	ePc	41 56.88	-0.3								0.9s	13.00nm																			iS 04 55.00														
FOO	3.53	34	eP	41 57.71	-0.5							BMW	81.19	35 (P)	48 28.06	1.4													CTB 2.79 304 eP 04 45.00 2.6																		
						eS						42 36.58																								eS 05 00.00											
EDI	3.59	220	eP	41 58.75	-0.4							CRP	81.52	13 eP	48 26.14	-2.0													MAP 5.29 332 ePc 05 15.00 -1.5																		
						eS						42 37.16																								iS 05 52.00											
HYA	3.60	45	eP	41 59.90	0.7							TTA	82.31	10 ePc	48 31.78	-0.2													PLP 5.69 344 ePd 05 21.50 -0.5																		
						eS						42 39.86																								eS 06 20.50											
EBL	3.67	217	eP	41 59.90	-0.4							RMW	82.56	35 iP	48 33.74	0.2													MTN 18.93 166 eP 08 12.00 -1.6																		
EAU	3.74	221	eP	42 01.58	0.2							BALM	83.72	17 iPd	48 38.29	-0.8													KNA 21.38 174 eP 08 37.50 -1.0																		
EAB	3.82	230	eP	42 01.91	-0.5							FBA	85.67	13 eP	48 46.64	-1.7													LEM 22.59 237 ePc 08 51.50 0.8																		
NRA0	5.74	65	Pn	42 28.78	-0.8							XAN	85.67	308 P	48 50.50	1.4													WRA 26.57 163 P 09 27.39 -0.6																		
						Pg						42 43.18																								ASPA 30.01 166 eP 09 57.40 -1.6											
						Sn						43 28.95																								0.4s 12.40nm 5.0mb											
HFS	6.67	73	eP	42 41.40	-1.3							LTX	86.31	58 eP	48 53.44	1.1													NANU 30.04 201 eP 09 59.00 -0.1																		
						0.1s 1.10nm 4.7mb																														WARB 31.65 180 eP 10 12.00 -1.2											
GEC2	12.45	137	P	44 04.83	2.5							LCCM	87.48	40 eP	48 58.20	0.6													CTA 32.09 143 iP 10 17.00 -0.2																		
FIA0	12.82	67	Pn	44 06.18	-0.9							BW06	87.54	44 (P)	48 57.73	-0.3													1.5s 41.67nm 5.0mb																		
						Sn						46 17.90																								i 10 27.00											
ARA0	15.09	34	P	44 35.14	-1.7							LZH	90.30	308 eP	49 10.50	-0.3													MEEK 33.00 193 iPd 10 24.10 -1.0																		
						S.D. = 0.9 on 25 of 25 obs.																														8J1 35.49 346 eP 10 46.00 -0.1											
																																										1.2s 16.00nm 4.8mb					
																																										SNY 36.12 356 eP 10 52.30 0.9					
																																										OLP 36.34 153 eP 10 52.30 -1.2					
																																										LZH 36.77 329 Pd 10 58.00 0.8					
																																										1.4s 21.00nm 4.8mb					
																																										pP 11 20.00 93kmX					
																																										HHC 37.53 341 eP 11 04.80 1.4					
																																										1.0s 8.50nm 4.6mb					
																																										KL8 37.97 192 eP 11 07.00 -0.1					
																																										RMO 38.53 147 iPd 11 11.90 0.1					
																																										MUN 38.69 194 iPd 11 13.10 -0.1					
																																										NWA0 39.37 192 eP 11 19.00 0.2					
																																										STK 39.99 160 eP 11 23.60 -0.2					
																																										1.0s 18.70nm 4.9mb					
																																										CMS 41.27 155 eP 11 34.60 0.3					
																																										0.8s 12.00nm 4.7mb					
																																										GTA 41.37 328 eP 11 35.00 -0.3					
																																										8RS 41.50 144 iPc 11 35.50 -0.8					
																																										1.0s 11.00nm 4.6mb					
																																										ADE 42.00 165 eP 11 41.50 1.2					
																																										ARMA 43.17 148 iPd 11 50.20 0.2					
																																										0.7s 39.00nm 5.3mb					
																																										GUN 44.47 305 P 12 00.40 -0.5					
																																										PKI 44.73 304 P 12 02.00 -1.0					
																																										BWA 44.90 154 eP 12 05.70 1.9					
																																										KKN 44.92 304 P 12 03.40 -0.9					
																																										DMN 44.99 304 P 12 04.60 -0.4					
																																										BFD 45.15 162 eP 12 07.20 1.5					
																																										0.9s 37.00nm 5.2mb					
																																										ePcP 13 55.00					
																																										GKN 45.52 304 P 12 08.60 -0.4					
																																										CAN 45.91 154 eP 12 12.70 1.0					
																																										CNB 46.06 154 eP 12 13.80 0.8					
																																										0.9s 28.00nm 5.0mb					
																																										TOO 46.49 159 iPc 12 18.40 2.1					
																																										0.7s 33.00nm 5.2mb					
																																										HYB 48.32 288 eP 12 31.00 0.1					
																																										GBA 48.98 283 P 12 35.00 -0.9					
																																										YAK 56.29 2 eP 13 28.00 -1.5					
																																										IMA 80.71 24 eP 16 00.33 -0.3					
																																										0.9s 3.59nm 4.2mb					
																																										SLKM 81.78 30 eP 16 03.67 -2.4					

06d 09h

OBN 85.37 325 iPc 16 25.50 1.1
 1.2s 40.00nm 5.2mb
 BALM 85.64 29 eP 16 26.37 0.6
 INK 88.46 21 eP 16 40.50 1.4
 MBC 90.13 13 eP 16 48.00 1.2
 NUR 90.94 331 eP 16 50.00 -0.8
 NB2 96.99 334 P 17 18.00 -0.6
 0.6s 1.30nm 4.6mb
 YKA 97.84 24 eP 17 22.00 -0.3
 0.6s 0.30nm 4.0mb
 KIC 129.93 283 PKP 22 58.60 0.9
 LIC 130.24 283 PKP 22 59.30 1.1
 TCA 152.39 159 iPKP 23 44.60 8.1X
 CNCB 161.96 129 ePKP 24 01.00 12.0X
 24 19.00
 ZOBO 162.17 127 ePKP 23 52.00 2.8X
 24 39.00
 SIV 167.30 145 ePKP 24 09.00 15.9X
 S.D. = 1.1 on 52 of 56 obs.

? APR 06, 1993 09h 31m 01.73± 2.71s
 44.812 N ± 53.4km 149.329 E ± 46.9km
 DEPTH = 33.0km (normol)
 3.8mb (3 obs.)

KURIL ISLANDS (221)

KUSJ 3.75 244 eP 31 57.50 -1.1
 eS 32 38.70
 ASAJ 4.84 264 eP 32 20.00 5.9X
 HDOJ 5.01 243 eP 32 17.60 1.0
 eS 33 15.30
 YKA 54.04 35 eP 40 24.50 -0.1
 0.6s 0.40nm 3.6mb
 NB2 69.17 340 P 42 05.70 -0.8
 0.5s 0.50nm 3.8mb
 GEC2 78.98 332 eP 43 04.60 1.1
 0.5s 0.59nm 3.9mb
 S.D. = 1.4 on 5 of 6 obs.

APR 06, 1993 09h 46m 44.45± 0.64s
 40.904 N ± 6.4km 21.401 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.5 (THE).

FNA 0.12 189 iPg 46 46.62 -0.9
 eSg 46 48.96
 OHR 0.50 295 iPg 46 53.70 -0.9
 iSg 47 02.30
 GRG 0.76 86 iPg 46 58.46 -0.9
 eSg 47 09.44
 VAY 0.98 64 iPn 47 02.80 -0.2
 SKO 1.07 2 iPg 47 05.20 0.7
 KNT 1.16 77 iPg 47 06.00 -0.2
 iSg 47 21.44
 IGT 1.60 211 ePb 47 14.36 1.6
 SRS 1.67 82 ePb 47 14.92 1.0
 AGG 2.01 159 ePb 47 18.60 -0.2
 S.D. = 1.0 on 9 of 9 obs.

& APR 06, 1993 09h 47m 31.61s
 45.062 N 122.649 W
 DEPTH = 4.6km
 WASHINGTON-OREGON BORDER REGION (28)
 <SEA-P>. MD 2.2 (SEA). Felt in
 the epicentral area.

SHW 1.17 14 eP 47 53.03 -1.0
 VGB 1.40 70 eP 47 57.09 -0.8
 eS 48 16.12
 BMW 1.47 344 (P) 47 57.63 -1.3
 LON 1.79 19 eP 48 02.81 -0.6
 eS 48 26.83
 GMW 2.49 358 eP 48 13.28 -0.2
 5 obs. associated

* APR 06, 1993 09h 54m 05.33± 0.45s
 16.563 S ± 12.8km 173.825 W ± 13.5km
 DEPTH = 33.0km (normol)
 4.5mb (8 obs.)

TONGA ISLANDS (173)

URZ 23.04 198 eP 59 08.30 -0.3
 QRZ 26.91 203 eP 59 45.80 0.5
 LTZ 28.71 202 eP 00 00.90 -0.7
 ARMA 34.40 240 eP 00 52.10 0.2
 0.7s 7.00nm 4.7mb

RMO 36.07 248 eP 01 07.00 1.0
 0.4s 1.00nm 4.1mb
 CMS 39.49 240 iPd 01 34.30 -0.4
 0.8s 14.00nm 4.6mb
 QLP 40.10 248 eP 01 39.90 0.2
 STK 43.11 241 eP 02 04.70 0.3
 0.6s 5.60nm 4.5mb
 WB2 49.18 258 iPc 02 51.90 -0.6
 0.3s 4.80nm 5.0mb
 WRA 49.19 258 P 02 52.80 0.2
 0.5s 0.50nm 3.8mb
 ASPA 49.37 253 iPc 02 53.70 -0.3
 0.8s 32.20nm 5.4mb
 WARB 55.86 249 eP 03 41.20 -1.1
 LON 78.45 34 eP 05 59.88 -4.7X
 CRP 79.48 10 iPd 06 09.05 -0.9
 BW06 83.41 42 iPc 06 29.91 -1.1
 LCCM 83.53 38 eP 06 31.60 0.1
 YKA 91.32 24 eP 07 08.30 -0.2
 1.1s 1.20nm 4.2mb

KSP 144.85 349 iPKPd 13 40.60 0.1
 CLL 144.91 353 iPKPd 13 40.30 -0.2
 1.3s 15.00nm
 BRG 145.21 351 i (PKP) 13 41.90 0.8
 0.9s 10.00nm
 SPC 145.50 344 e (PKP) 13 43.50 1.6
 MOX 145.72 354 ePKP 13 43.50 1.5
 1.2s 28.00nm
 PRU 145.98 350 ePKP 13 44.50 2.1X
 DOU 146.53 2 PKP 13 46.80 3.5X
 KHC 146.96 351 ePKP 13 47.00 2.9X
 1.0s 3.50nm
 WLF 146.98 0 PKP 13 48.00 4.0X
 ZST 147.20 346 ePKP 13 42.30 -2.1
 GEC2 147.22 351 ePKPc 13 47.50 2.9X
 0.8s 2.30nm

GRB5 147.23 353 e (PKP) 13 47.90 3.4X
 FLN 147.43 8 ePKP 13 46.50 1.7X
 1.0s 19.00nm
 LDF 147.64 8 ePKP 13 46.70 1.6
 1.3s 46.20nm
 LPF 148.06 9 ePKP 13 49.30 3.5X
 0.9s 17.35nm
 CDF 148.23 359 ePKP 13 50.30 4.1X
 0.9s 9.15nm
 HAU 148.64 360 ePKP 13 50.50 3.7X
 0.8s 6.30nm
 BSF 148.81 359 ePKP 13 50.60 3.4X
 LOR 149.32 3 ePKP 13 52.10 4.2X
 0.9s 6.40nm
 SSF 149.51 4 ePKP 13 52.80 4.7X
 0.8s 7.50nm
 LBF 149.61 3 ePKP 13 52.90 4.6X
 0.9s 7.20nm
 AVF 149.77 4 ePKP 13 52.70 4.2X
 LSF 150.15 6 ePKP 13 54.50 5.4X
 0.8s 12.20nm
 VBY 150.16 347 e (PKP) 13 56.00 6.9X
 e 14 10.00

MAF 150.28 5 ePKP 13 54.50 5.2X
 0.9s 14.60nm
 GRG 151.94 333 ePKP 13 59.68 7.7X
 FNA 152.51 334 ePKP 13 59.88 7.0X
 AGG 153.54 331 iPKP 14 08.44 14.1X
 S.D. = 1.0 on 23 of 45 obs.

APR 06, 1993 09h 56m 35.75± 0.34s
 39.465 N ± 3.8km 27.099 E ± 3.0km
 DEPTH = 20.2 ± 3.8 km
 TURKEY (366)
 ML 3.8 (THE). MD 3.6 (ISK).

EDC 1.06 33 iPg 56 55.50 0.2
 IZM 1.07 173 iPg 56 55.90 0.3
 iSg 57 09.90
 BNT 1.09 35 iPg 56 55.60 -0.2
 iSg 57 10.10
 KCT 1.25 51 iPg 56 58.10 0.0
 ALN 1.64 331 iPb 57 04.62 0.9
 eSb 57 26.58
 CTT 1.96 31 ePn 57 08.10 -0.3
 YLV 2.06 57 ePn 57 09.10 -0.8
 ISK 2.19 43 ePn 57 11.00 -0.7
 KHL 2.21 120 ePn 57 12.10 0.1
 ALT 2.37 99 ePn 57 14.70 0.4
 HRT 2.39 55 ePn 57 15.10 0.6

DMK 2.41 12 iPn 57 14.50 -0.2
 YER 2.51 158 ePn 57 16.00 -0.2
 OUR 2.55 291 ePn 57 15.78 -1.0
 EYL 2.59 64 ePn 57 18.00 0.5
 GPA 2.60 71 ePn 57 17.00 -0.6
 PAIG 2.68 281 ePn 57 18.30 -0.3
 SRS 3.15 303 ePn 57 26.62 1.3
 LIT 3.61 282 ePn 57 31.10 -0.7
 KNT 3.63 299 ePn 57 32.06 -0.1
 GRG 3.89 294 iPn 57 35.78 -0.1
 S.D. = 0.6 on 21 of 21 obs.

APR 06, 1993 09h 57m 13.09± 0.79s
 41.788 N ± 7.6km 25.246 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)

KDZ 0.19 137 eP 57 17.00 -0.3
 DIM 0.34 39 eP 57 20.00 -0.1
 RZN 0.41 256 iP 57 21.00 -0.5
 PLD 0.51 308 eP 57 26.00 2.5X
 PGB 1.11 314 eP 57 34.00 0.1
 MMB 1.15 261 eP 57 30.00 -4.7X
 PVL 1.43 3 eP 57 27.00 -12.0X
 VTS 1.71 299 eP 57 42.00 -1.3
 VAY 2.06 258 ePn 57 49.70 1.5
 MLR 3.74 8 eP 58 20.00 7.8X
 CVO 4.09 9 eP 58 17.50 0.5
 S.D. = 1.1 on 7 of 11 obs.

APR 06, 1993 09h 59m 55.79± 0.51s
 40.893 N ± 4.7km 21.385 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.4 (THE).

FNA 0.11 184 iPg 59 58.17 -0.5
 eSg 00 00.54
 OHR 0.49 296 iPg 00 05.50 -0.3
 iSg 00 14.00
 GRG 0.77 85 ePg 00 10.46 -0.4
 iSg 00 21.34
 VAY 0.99 64 iPn 00 14.60 0.0
 SKO 1.08 2 iPn 00 16.50 0.4
 iPg 00 17.80
 iSg 00 34.80
 LIT 1.16 133 ePg 00 17.54 0.1
 iSg 00 33.42
 KNT 1.18 76 ePb 00 17.74 0.0
 eSb 00 33.18
 IGT 1.58 211 ePb 00 24.30 0.4
 eSb 00 48.34
 AGG 2.00 158 ePn 00 30.46 0.4
 iSn 00 55.85

S.D. = 0.4 on 9 of 9 obs.

* APR 06, 1993 10h 19m 12.53± 0.76s
 63.887 N ± 10.4km 126.810 W ± 8.0km
 DEPTH = 10.0km (geophysicist)
 NORTHWEST TERRITORIES, CANADA (679)

WHC 4.99 234 P 20 28.77 -0.5
 INK 5.21 331 P 20 34.50 2.3
 0.6s 35.00nm 5.2mb
 DAWY 5.54 277 P 20 36.77 -0.3
 DWY 5.56 277 P 20 37.60 0.3
 YKA 5.70 99 eP 21 00.20 21.0X
 0.5s 12.50nm
 HYT 5.85 243 P 20 41.30 -0.1
 MBC 12.65 8 eP 22 12.50 -2.5
 FCC 16.39 93 eP 23 04.50 0.7
 LCCM 19.93 148 eP 23 46.70 -0.5
 ULM 21.37 115 eP 24 02.50 0.7
 S.D. = 1.5 on 9 of 10 obs.

% APR 06, 1993 10h 24m 26.99± 0.89s
 39.085 N ± 5.2km 27.437 E ± 10.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

IZM 0.70 191 iPg 24 40.90 0.1
 iSg 24 51.90
 EDC 1.30 15 iPn 24 51.50 0.4
 BNT 1.32 16 iPn 24 51.10 -0.3
 KCT 1.36 31 iPn 24 51.60 -0.4
 KHL 1.80 114 ePn 24 58.00 -0.4

APR 06, 1993 16h 50m 50.39± 0.59s

06d 16h

28.981 S \pm 5.0km 68.505 W \pm 10.3km
 DEPTH = 111.2 \pm 10.0 km
 LA RIOJA PROVINCE, ARGENTINA (138)

CYA	2.44	78	iPc	51	30.00	0.3
			(S)	51	57.30	
RTCB	2.51	186	eP	51	31.00	0.3
			S	51	54.00	
ZON	2.56	183	iPc	51	31.90	0.6
			eS	52	02.90	
CFA	2.63	175	iPd	51	32.20	0.0
			S	52	03.00	
RTCV	2.87	181	eP	51	36.00	0.5
FSA	3.64	38	iPc	51	47.00	1.3
TCA	4.12	126	iP	51	50.70	-1.8
			(S)	52	04.00	
MRA	4.18	146	ePd	51	52.50	-0.7
			S	52	36.20	
SLA	5.02	33	e(P)	52	05.00	0.2
ANT	5.53	342	eP	52	10.50	-1.1
YJA	7.30	22	ePd	52	37.20	0.8
ZOBO	12.66	2	eP	53	47.00	-1.1
			LR	28	46.00	
LKO	71.70	68	P	02	02.74	0.3
WRA	126.59	207	PKP	09	43.00	0.4
	0.5s		1.00nm			
CTB	155.24	211	ePKPc	10	36.00	3.9X
	S.D. = 1.0	on 14	of 15	obs.		

* APR 06, 1993 17h 10m 47.75 \pm 1.1s
 37.708 N \pm 10.5km 21.412 E \pm 9.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.3 (ATH).

VLS	0.80	306	ePn	11	03.00	-0.3
AGG	1.50	29	eP	11	14.78	0.1
			eS	11	34.06	
VLI	1.57	129	ePb	11	15.80	0.1
ATH	1.84	81	ePn	11	15.50	-4.2X
IGT	2.01	335	eP	11	22.14	0.1
LIT	2.53	19	eP	11	32.74	3.2X
KZN	2.61	6	ePb	11	31.50	0.8
OUR	3.30	37	eP	11	39.62	-0.8
OHR	3.43	352	ePn	11	53.80	11.4X
VAY	3.72	14	ePn	11	58.00	11.6X
	S.D. = 0.7	on 6	of 10	obs.		

APR 06, 1993 17h 23m 47.42 \pm 0.33s
 26.334 S \pm 4.6km 27.373 E \pm 5.4km
 DEPTH = 5.0km (geophysicist)
 4.7mb (14 obs.)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 4.3 (BUL). Felt widely in
 central Transvaal.

PRY	0.60	171	iPc	23	58.60	-0.8
			S	24	04.60	
KSR	0.63	317	eP	24	02.00	1.9
			S	24	10.50	
BFS	0.77	223	eP	24	05.00	2.1
			S	24	14.90	
SLR	1.01	54	iPc	24	07.70	0.6
			S	24	20.10	
SEK	1.99	174	iPd	24	23.50	1.2
			S	24	46.00	
BFT	2.49	76	eP	24	31.20	1.7
			S	24	53.30	
BLF	2.96	201	eP	24	35.90	-0.2
			S	25	09.20	
BUL	6.27	11	iPnc	25	22.50	-0.5
			iSn	26	32.30	
			iS*	26	46.50	
			iSg	27	01.00	
GRM	6.99	186	eP	25	37.60	4.6X
			S	27	13.20	
POF	7.24	244	eP	25	35.00	-1.4
			S	26	47.20	
CER	9.91	223	eP	26	09.90	-3.7X
			S	27	54.20	
WIN	10.08	290	eP	26	14.10	-2.1
			S	27	58.00	
MTD	10.28	23	iPn	26	15.00	-3.8X
			iSn	28	06.50	
			iSg	28	59.00	
BLE	10.67	223	eP	26	27.00	3.0X
			S	28	16.00	

BCAO	31.76	343	iPc	30	13.50	-1.4
	0.5s		8.00nm			4.9mb
KIC	45.01	312	P	32	05.60	-0.4
TIC	45.41	312	P	32	09.00	-0.1
LKO	47.93	314	P	32	28.60	-0.5
GBA	62.81	57	P	34	15.00	-1.5
EPF	73.37	340	eP	35	22.40	0.3
	0.8s		5.90nm			4.7mb
LPG	73.91	345	eP	35	25.80	0.3
	0.8s		4.55nm			4.6mb
LPL	73.93	345	eP	35	25.90	0.3
	0.8s		4.15nm			4.5mb
CAF	74.59	342	eP	35	29.60	0.5
	1.0s		11.60nm			4.9mb
MAF	75.64	343	eP	35	35.90	0.8
	0.9s		8.50nm			4.8mb
SMF	75.70	344	eP	35	35.70	0.3
	0.8s		4.45nm			4.6mb
GEC2	75.83	351	eP	35	37.40	1.2
	0.9s		2.27nm			4.3mb
AVF	75.96	343	eP	35	37.30	0.4
	0.5s		3.80nm			4.8mb
LBF	75.98	344	eP	35	36.90	-0.2
	0.7s		5.20nm			4.7mb
SSF	76.17	343	eP	35	38.30	0.2
	0.7s		3.10nm			4.5mb
LOR	76.27	344	eP	35	38.70	0.0
	0.6s		2.70nm			4.5mb
Z	21s		0.05um			3.8msz
MFF	76.75	341	eP	35	41.90	0.6
	0.7s		10.35nm			5.0mb
GKN	77.11	50	P	35	43.20	-0.8
DMN	77.19	50	P	35	43.60	-0.9
PKI	77.37	51	P	35	44.40	-1.2
KKN	77.42	50	P	35	45.00	-0.8
GUN	77.91	51	P	35	48.00	-0.6
NB2	88.05	352	P	36	40.70	1.1
	0.7s		1.80nm			4.5mb
YKA	135.97	336	ePKP	43	05.00	-5.6X
	0.6s		0.40nm			
	S.D. = 1.0	on 33	of 38	obs.		

APR 06, 1993 17h 57m 32.27 \pm 0.72s
 60.547 N \pm 6.3km 5.395 E \pm 7.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 1.8 (BER).

ASK	0.12	237	iPc	57	35.70	0.5
			eS	57	37.68	
EGD	0.29	197	iPc	57	38.45	0.1
			eS	57	42.39	
SUE	0.60	329	eP	57	43.45	-0.9
			eS	57	53.06	
HYA	0.73	32	eP	57	47.60	1.0
			eS	57	58.37	
ODD1	0.89	135	eP	57	48.86	-0.4
			eS	58	00.56	
NRA0	3.03	84	ePn	58	20.85	-0.3
			ePg	58	24.98	
			eLg	59	08.18	
	S.D. = 0.9	on 6	of 6	obs.		

APR 06, 1993 18h 43m 05.29 \pm 0.73s
 25.362 S \pm 6.0km 179.973 W \pm 6.1km
 DEPTH = 503.0 \pm 9.6 km
 4.9mb (20 obs.)

SOUTH OF FIJI ISLANDS (171)						
RAO	4.28	155	iP	44	28.50	1.6
			iS	45	36.00	
SVA	7.36	348	iPc	44	53.80	-2.4
KUZ	11.93	197	P	45	46.10	2.0
DZM	12.87	282	iPd	45	55.80	1.8
			iS	48	17.50	
WLZ	13.03	196	eP	45	57.30	1.8
URZ	13.10	190	eP	45	54.90	-1.3
			eS	48	15.00	
NOZ	13.32	187	eP	45	57.70	-0.8
			eS	48	17.40	
PGZ	15.53	191	eP	46	21.20	0.3
MNG	15.68	193	eP	46	19.80	-2.7
			eS	49	03.40	
CAW	16.24	194	eP	46	27.20	-0.8
BLW	16.41	192	eP	46	30.00	0.4
MRW	16.43	194	P	46	29.10	-0.8
			S	49	17.80	

ORZ	16.64	200	eP	46	33.10	1.2
			eS	49	25.00	
THZ	17.39	198	eP	46	40.60	1.3
			S	49	33.40	
DSZ	17.71	201	eP	46	42.50	0.2
KHZ	17.83	196	P	46	43.80	0.3
			S	49	39.70	
LTZ	18.51	198	eP	46	49.70	-0.5
WVZ	19.24	201	eP	46	57.10	-0.1
MOZ	19.27	196	eP	46	57.50	0.1
BWZ	20.82	201	eP	47	10.60	-1.4
MHZ	21.49	201	eP	47	16.20	-2.1
LSCZ	21.51	201	eP	47	17.40	-1.0
TLC	21.67	201	P	47	18.90	-1.1
BRS	24.48	259	iPc	47	46.00	0.5
	1.0s		5.00nm			4.0mb
			i	48	30.50	
ARMA	25.57	252	iPc	47	56.70	1.4
	0.7s		19.00nm			4.7mb
RMQ	28.11	261	iPd	48	18.70	1.2
	0.8s		49.00nm			5.1mb
			i	54	12.70	
CNB	28.16	242	iPd	48	19.60	1.6
	0.7s		21.00nm			4.8mb
CAN	28.46	242	iPd	48	21.50	1.0
BWA	28.76	244	iPd	48	22.10	-1.0
CTA	31.54	273	iPd	48	47.20	0.1
	0.9s		54.62nm			5.1mb
TOO	31.70	239	iPd	48	49.50	1.2
	0.4s		26.00nm			5.1mb
QLP	32.14	260	iPd	48	52.40	0.3
BFD	33.93	241	iPc	49	08.30	1.3
	0.8s		17.00nm			4.6mb
STK	34.23	250	iPd	49	10.50	0.9
	0.5s		11.60nm			4.7mb
			i	51	33.50	
ADE	36.76	245	iPd	49	31.30	0.6
ASPA	41.84					

SVE	126.03	326	ePKPd	28	02.00	0.3
ARU	127.23	326	ePKP	28	05.00	1.0
			e	30	00.00	
MAIO	131.12	301	ePKP	28	14.00	1.9
VAN	132.07	303	iPKPd	28	14.00	0.2
NUR	137.68	347	ePKP	28	18.00	-5.7X
NB2	139.04	356	PKP	28	21.00	-5.2X
	1.0s	2.10nm				
APD	139.33	354	ePKP	28	20.50	-6.2X
	0.5s	0.80nm				
DMU	144.84	14	ePKP	28	36.70	0.2
DCN	145.27	14	ePKP	28	38.00	0.7
DLF	145.48	14	ePKP	28	37.90	0.3

	1.0s	150.00nm			
KIS	147.57	331	IPKPC+28	44.00	2.8X
	1.2s	200.00nm			

	Z	20s	0.20um	4.9MsZ
OJC	148.19	344	PKP 28 46.50	4.3X
			28 49.40	

				i	28	58.30	
KSP	148.42	348	ePKP	28	40.50	-2.0	

KSF	148.42	342	ePKPc	28	46.50	2.0
	1.0s		37.00nm			
			i	28	46.50	
CLL	148.51	352	iPKPc	28	46.70	4.1X
	1.2s		59.00nm			
KAS	148.61	318	iPKPc	28	44.50	1.3
PPE	148.74	331	ePKP	28	49.50	6.4X
BRG	148.80	351	iPKPc	28	47.60	4.5X
	1.0s		40.00nm			
UZH	148.86	339	iPKPc+28	49.00		5.8X
	1.0s		138.00nm			
			i	28	57.60	
SPC	149.00	342	ePKP	28	49.40	5.7X
CFR	149.25	329	ePKP	28	44.00	0.1

MOX	149.32	353	iPKP	28	49.00	5.1X
	1.5s	39.00nm				
VRI	149.40	331	ePKP	28	50.00	5.8X

PRU	149.56	350	PKP	28	49.60	5.3X
	1.2s	23.00nm				
HOF	149.62	353	ePKP	28	49.50	5.1X

	1.0s	33.00nm			
CVO	149.69	332 ePKP	28	49.50	4.8X
SNF	149.69	3 PKPc	28	49.80	5.4X

	ISR	150.05	331 ePKP	28	52.50	7.3X
	DOU	150.12	2 PKP	28	51.70	6.6X
		1.0s	66.70nm			

PSZ	150.25	342	ePKP	28	46.10	0.6
GRF	150.31	354	iPKP _c	28	51.80	6.4X
KHC	150.55	350	ePKP	28	52.50	6.6X

1.1 s	23.00 nm
e	29 03.00
e	29 14.00

		e	29	29.00	
WLF	150.59	0 iPKPc	28	52.51	-6.7X
	1.2s	45.10nm			

CMP	150.62	333	ePKPc	28	56.00	9.9X
BHL	150.68	304	PKP	28	53.00	6.4X
ZST	150.74	345	ePKP	28	52.50	6.4X

SRO	150.79	343	ePKP	28	52.00	5.8x
GEC2	150.81	350	ePKPd	28	46.80	0.5
	1.1s		1.45nm			

ec	28	52.30
e	28	56.60
e	29	02.90

HRI	150.83	303	ePKP	28	53.70	6.8X
FLN	150.96	9	iPKPc	28	52.50	6.1X

	1.0s	61.60nm			
	Z 20s	0.15um		4.8MsZ	
LDF	151.18	9 iPKPc	28 52.90	6.2X	

	1.0s	51.60nm			
GRR	151.27	10 iPKPc	28	53.20	6.3X
	1.0s	45.00nm			
GRR	151.35	10 iPKPc	28	53.20	6.3X

SOP	151.35	346	gPKP	28	53.80	6.8X
LPF	151.58	10	iPKPc	28	54.00	6.6X
	1.2s				114.25nm	
DCI	151.64	300	gPKP	28	55.10	7.1X

UST	151.64	299	ePKP	28	53.10	7.1X
FUR	151.81	353	ePKP	28	54.80	7.0X
	1.0s				48.0nm	
U7D	151.83	342	ePKP	28	54.70	6.9X

U2D	151.83	342	gPKP	28	54.70	6.9X
CDF	151.83	359	iPKPc	28	54.80	6.9X
	1.1s		32.50nm			
CSS	152.95	397	gPKP	28	55.60	7.1X

CS3	152.65	367	ePKP	28	55.60	7.1X
HAU	152.25	0	ePKP	28	55.70	7.3X
	1.1s		37.60nm			
7	220		0.10um			4.6MHz

SSR	152.29	336	ePKPc	29	04.00	15.5X
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06d 19h

BSF 152.42 359 ePKP 28 56.00 7.2X
0.9s 10.95nm
MBH 152.52 296 ePKP 28 57.40 8.0X
KBA 152.58 350 iPKPc 28 55.80 6.7X
WTTA 152.65 352 iPKPc 28 56.60 7.4X
0.8s 12.80nm
LOR 152.91 4 iPKPc 28 57.20 7.9X
1.0s 22.40nm
Z 20s 0.15um 4.8Msz
SSF 153.09 4 iPKPc 28 57.80 8.2X
1.0s 38.20nm
OGA 153.12 353 ePKP 28 58.50 8.6X
PTJ 153.17 345 ePKP 28 57.90 8.1X
LBF 153.20 4 iPKPc 28 57.90 8.1X
1.2s 25.60nm
AVF 153.35 5 iPKPc 28 57.90 8.0X
1.0s 9.60nm
LJU 153.35 347 e(PKP) 28 51.00 1.0
e 28 58.50
VOY 153.49 348 e(PKP) 28 51.20 0.9
SMF 153.53 4 ePKP 28 58.50 8.3X
1.0s 11.60nm
BGF 153.54 5 ePKP 28 58.50 8.3X
0.8s 8.60nm
CEY 153.67 347 e(PKP) 28 51.00 0.5
LSF 153.70 8 ePKP 28 57.60 7.1X
1.1s 24.40nm
VBY 153.71 346 ePKP 28 51.00 0.5
MAF 153.85 6 ePKP 28 59.30 8.6X
0.8s 7.50nm
SKO 154.82 333 ePKP 28 52.70 0.6
i 29 17.00
BCAO 160.37 219 ePKPd 29 00.30 0.7
0.9s 9.00nm
id 29 41.30
ic 32 23.90
LKO 164.34 131 PKP 28 59.40 -4.1X
S.D. = 1.1 on 107 of 167 obs.

? APR 06, 1993 19h 35m 51.32 ± 7.91s
48.384 N ± 5.8km 1.640 W ± 52.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (LDG).

GRR 0.52 89 Pg 36 01.80 -0.1
Sg 36 08.90
LPF 0.53 131 Pg 36 02.10 0.0
Sg 36 09.70
FLN 0.86 63 Pg 36 07.70 -0.1
Sg 36 18.80
LDF 1.03 78 Pg 36 11.00 0.2
Sg 36 25.00
S.D. = 0.3 on 4 of 4 obs.

APR 06, 1993 19h 58m 50.59 ± 0.60s
41.965 N ± 5.8km 23.082 E ± 5.3km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 2.1 (SKO).

KKB 0.10 179 iPg 58 54.00 0.7
MMB 0.61 128 ePg 59 02.00 -1.0
VTS 0.63 8 iPg 59 03.00 -0.4
VAY 0.75 211 iPg 59 05.40 0.2
iSg 59 15.50
PGB 1.00 54 iPg 59 09.00 -0.5
PLD 1.22 83 eP 59 14.00 0.8
SKO 1.22 271 ePn 59 13.00 -0.4
eSn 59 31.20
RZN 1.25 102 iPg 59 13.00 -1.0
KDZ 1.77 99 eP 59 22.00 0.5
DIM 1.83 87 eP 59 25.00 2.7X
PVL 2.08 52 iPc 59 27.00 1.1
S.D. = 0.8 on 10 of 11 obs.

* APR 06, 1993 20h 01m 45.42 ± 0.43s
2.299 N ± 8.2km 126.615 E ± 13.1km
DEPTH = 33.0km (normal)
4.8mb (8 obs.)
NORTHERN MOLUCCA SEA (266)

W82 23.37 161 iPd 06 52.20 0.0
0.5s 22.20nm 4.9mb
eS 10 58.90
ASPA 26.77 165 eP 07 22.80 -1.5

WARB 0.5s 7.00nm 4.5mb
28.31 180 eP 07 39.00 0.7
MAT 35.72 16 (P) 08 42.00 -1.0
0.9s 8.40nm 4.7mb
STK 36.85 158 eP 08 52.60 0.1
0.7s 3.50nm 4.3mb
BJI 38.74 347 eP 09 09.00 0.6
LZH 39.68 331 eP 09 17.60 1.2
1.6s 22.00nm 4.7mb
ARMA 40.35 146 eP 09 22.90 1.0
0.6s 11.00nm 4.8mb
GUN 46.48 307 P 10 11.60 -0.3
0.4s 12.00nm 5.2mb
PKI 46.71 307 P 10 13.40 -0.3
KKN 46.91 307 P 10 14.60 -0.6
DMN 46.97 306 P 10 15.40 -0.3
GKN 47.51 307 P 10 20.00 0.1
HYB 49.50 291 eP 10 35.50 0.3
YAK 59.62 2 iPd 11 48.40 0.2
0.8s 26.00nm 5.4mb
S.D. = 0.8 on 15 of 15 obs.

% APR 06, 1993 20h 39m 42.30 ± 0.87s
31.198 S ± 5.8km 116.418 E ± 11.3km
DEPTH = 5.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL 0.64 23 eP 39 54.80 -0.3
eS 40 02.50
MUN 0.80 193 eP 39 58.00 -0.3
eS 40 08.00
KLB 1.21 109 eP 40 05.40 0.1
eS 40 20.70
NWA0 1.86 158 eP 40 15.30 0.2
eS 40 38.50
MRWA 2.01 349 eP 40 17.50 0.3
eS 40 42.50
S.D. = 0.4 on 5 of 5 obs.

& APR 06, 1993 21h 27m 00.52s
61.582 N 141.769 W
DEPTH = 0.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.3 (AEIC), 3.4
(PGC).

BALM 0.61 207 iP 27 13.33 0.6
iS 27 22.52
CTGM 0.65 161 eP 27 13.90 0.3
eS 27 24.11
TGL 0.98 212 eP 27 19.88 -0.2
eS 27 34.48
GLB 0.99 263 eP 27 18.63 -1.6
iS 27 32.66
CROM 1.06 219 eP 27 21.18 -0.4
eS 27 36.38
YAH 1.22 179 eP 27 24.53 0.2
eS 27 43.33
SNH 1.50 201 eP 27 29.64 0.8
CYK 1.54 193 eP 27 31.29 1.9
eS 27 55.01
PCA 1.66 153 eP 27 32.70 1.6
eS 27 56.56
TZL 1.80 287 eP 27 32.53 -0.5
TMW 1.84 342 eP 27 33.23 -0.4
RAGM 1.86 231 eP 27 35.71 1.8
eS 28 00.15
BCPM 1.94 146 eP 27 35.83 0.7
KLU 1.99 269 eP 27 35.92 0.0
eS 28 02.64
SGAM 1.99 239 eP 27 37.12 1.3
SDG 2.01 300 eP 27 35.54 -0.7
eS 28 02.55
KAIM 2.11 219 eP 27 40.10 2.6
eS 28 08.88
CVA 2.20 244 eP 27 40.29 1.5
eS 28 12.71
HYT 2.20 108 P 27 38.30 -0.7
PAX 2.22 310 eP 27 38.46 -0.8
VLZ 2.24 260 eP 27 40.22 0.8
PNL 2.25 148 eP 27 40.74 1.2
DOT 2.33 334 eP 27 38.59 -2.2
eS 28 12.13
HON 2.57 145 eP 27 44.72 0.6
HIN 2.59 245 eP 27 45.63 1.1
SCM 2.66 278 eP 27 46.66 1.2
DWY 2.70 22 Pn 27 43.20 -2.8

Pg 27 47.60
Lg 28 20.70
DAWY 2.72 23 P 27 43.23 -3.1
SML 3.14 277 eP 27 52.40 0.2
WHC 3.34 102 Pn 27 53.13 -2.0
Pg 28 00.71
Lg 28 44.95
GHD 3.42 276 eP 27 56.19 0.0
PLBC 3.42 126 Pn 27 55.50 -0.7
Pg 28 02.50
Lg 28 51.00
PTE 3.58 262 eP 27 56.94 -1.5
HDA 3.69 322 eP 27 58.68 -1.4
PMS 3.76 268 P 28 02.20 1.1
MPA 3.85 257 eP 28 02.04 -0.3
SLKM 4.25 259 eP 28 08.64 0.7
SUA 4.30 272 eP 28 10.35 1.6
TRF 4.37 299 eP 28 09.41 -0.5
SKT 4.65 279 eP 28 13.56 -0.1
SPU 4.96 270 eP 28 18.64 0.5
CNPM 5.11 250 eP 28 18.44 -1.7
INK 7.60 24 P 28 50.00 -5.1
0.8s 2.80nm 4.5mb X
YKA 12.74 74 eP 30 00.20 -5.4
0.4s 0.30nm 3.9mb X
MBC 16.57 19 eP 30 48.00 -7.4
45 obs. associated

APR 06, 1993 21h 39m 22.95 ± 0.54s
40.528 N ± 6.3km 32.428 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.8 (ISK). Felt in the Ankara
area.

GPA 1.63 262 iPn 39 52.40 0.5
EYL 1.73 272 ePn 39 52.70 -0.7
HRT 2.12 279 iPn 39 58.20 -0.7
ALT 2.31 231 iPn 40 02.50 0.7
YLV 2.33 272 iPn 40 01.70 -0.3
ISK 2.61 283 iPn 40 06.20 0.3
KVT 2.80 77 iPn 40 07.50 -1.2
CTT 3.10 283 ePn 40 12.70 0.0
KCT 3.12 266 iPn 40 12.70 -0.4
BNN 3.14 121 ePn 40 13.00 -0.5
KHL 3.15 227 ePn 40 14.00 0.4
BCK 3.38 206 ePn 40 17.30 0.4
EDC 3.49 269 ePn 40 18.50 0.2
DMK 3.75 292 ePn 40 21.60 -0.6
JMB 4.80 296 eP 40 54.00 17.0X
GAZ 5.02 130 ePn 40 41.00 1.0
CFR 5.61 327 eP 40 47.00 -1.4
RZN 5.94 284 iPd 40 52.00 -1.2
MMB 6.66 282 eP 40 52.00 -11.3X
VRI 6.77 324 eP 41 06.00 1.2
MLR 6.87 318 eP 41 08.50 2.2
CVO 6.99 321 eP 41 09.50 1.6
KKB 7.17 284 iPd 41 09.00 -1.5
VAY 7.51 279 eP 41 43.60 28.5X
S.D. = 1.1 on 21 of 24 obs.

APR 06, 1993 21h 52m 27.64 ± 0.75s
26.369 S ± 7.2km 27.648 E ± 8.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

PRY 0.58 196 iPd 52 38.50 -0.7
S 52 44.40
KSR 0.84 306 eP 52 44.00 -0.5
S 52 51.50
SLR 0.85 42 iPd 52 44.10 -0.5
S 52 52.50
BFS 0.94 236 eP 52 57.90 11.8X
S 53 06.50
SEK 1.95 181 eP 53 02.70 0.9
S 53 20.60
SWZ 2.23 248 eP 53 07.40 1.5
S 53 31.70
BFT 2.26 73 eP 53 07.00 0.6
BLF 3.02 205 eP 53 16.00 -1.2
S 53 52.50
S.D. = 1.2 on 7 of 8 obs.

& APR 06, 1993 22h 36m 39.35s
61.627 N 141.794 W
DEPTH = 0.0km

SOUTHERN ALASKA					(2)	MRW	10.02 204 eP	48 21.10	-3.6X		1.0s	21.00nm	4.9mb
<AEIC>. ML 2.9 (AEIC), 3.1							eS	50 09.40		YSS	85.72 335 iPc	58 18.70	0.1
(PGC).						WEL	10.04 204 eP	48 23.50	-1.5		0.7s	90.00nm	5.7mb
							eS	50 11.00		NJ2	86.17 312 Pc	58 22.00	0.8
BALM	0.65	204	iP	36 52.78	0.5	BHW	10.12 203 P	48 25.80	-0.2		0.8s	32.00nm	5.2mb
CTGM	0.70	161	P	36 53.20	-0.1	TCW	10.15 206 eP	48 22.90	-3.6X	BCH	87.41 45 iPd	58 28.20	0.9
							S	37 03.30		GFW	10.53 207 P	48 31.40	0.1
GLB	0.98	260	iP	36 58.10	-0.9	QRZ	10.56 213 eP	48 30.90	-0.7	ARN	88.04 43 eP	58 30.71	0.6
							eS	37 12.38		WHN	88.13 308 ePc	58 32.00	1.4
TGL	1.01	210	eP	36 59.34	-0.1	THZ	11.16 209 eP	48 37.80	-1.5	PLM	88.18 48 iPd	58 32.07	1.0
							eS	37 13.57			epP	59 27.14	225km
CROM	1.09	217	iP	37 00.29	-0.6	KHZ	11.47 205 eP	48 39.40	-3.8X	ISA	88.71 46 eP	58 32.98	-0.4
							eS	37 15.41			1.8s	128.02nm	5.5mb
YAH	1.27	179	iP	37 03.88	-0.1	DSZ	11.62 212 eP	48 41.90	-3.2X	KMPM	88.75 39 eP	58 34.16	0.7
							eS	37 22.32		CMB	89.17 43 eP	58 35.17	-0.3
SNH	1.54	200	eP	37 09.30	1.1	LTZ	12.27 208 eP	48 46.90	-6.3X		1.5s	54.21nm	5.3mb
						WVZ	13.15 212 eP	49 02.50	-1.7	MDJ	89.18 327 eP	58 35.40	0.2
CYK	1.59	193	eP	37 30.65		ODZ	14.80 207 eP	49 23.70	-0.9		1.5s	100.00nm	5.5mb
						LSCZ	15.38 210 eP	49 28.40	-3.2X	GLA	89.29 50 ePc	58 37.74	1.6
PCA	1.71	153	eP	37 12.04	1.4	SBCZ	15.38 210 eP	49 28.70	-3.0X		epP	59 32.96	225km
						CMCZ	15.44 210 eP	49 29.30	-3.1X	GSC	89.49 47 eP	58 37.15	0.1
TZL	1.77	285	eP	37 12.99	1.5	DZM	15.76 306 iPd	49 37.60	1.3	ORV	89.58 41 eP	58 37.38	0.1
TMW	1.79	342	eP	37 12.44	0.6	TUZ	15.96 207 eP	49 38.40	-0.1	WDC	89.72 40 ePd	58 38.28	0.4
RAGM	1.88	230	eP	37 14.69	1.7		eS	52 25.30			1.4s	56.48nm	5.3mb
KLU	1.98	268	eP	37 15.08	0.5	BCZ	16.74 211 eP	49 46.40	-1.2	MTUM	89.78 44 eP	58 39.15	0.7
						BKM	17.98 321 iPc	50 00.00	-0.9	LGPM	89.80 40 eP	58 39.38	1.0
SDG	1.98	299	eP	37 15.33	0.8	BRS	24.15 274 iPc	51 05.00	3.4X	TIA	89.99 314 P	58 39.40	0.2
							0.8s	5.00nm	4.1mb X	SNY	90.13 321 iPc	58 40.20	0.5
BCPM	1.99	147	eP	37 16.56	2.0	ARMA	24.35 267 iPd	51 07.00	4.3X		1.0s	46.00nm	5.4mb
SGAM	2.01	237	eP	37 16.59	1.7		0.7s	12.00nm	4.6mb	CN2	90.58 324 Pc	58 41.00	-0.7
KAIM	2.14	218	eP	37 18.38	1.6	CNB	25.69 255 eP	51 19.70	4.0X		1.0s	120.00nm	5.8mb
						CAN	25.99 255 iPd	51 21.80	3.5X	LBFM	90.61 40 eP	58 42.83	0.6
PAX	2.18	310	eP	37 17.72	0.2	BWA	26.51 256 iPd	51 24.10	1.0	TPNV	90.90 46 eP	58 44.29	0.7
						TOO	28.78 250 iPd	51 47.00	3.6X		0.7s	9.82nm	4.9mb
CVA	2.21	242	eP	37 19.84	2.1		1.0s	39.00nm	5.0mb	GYA	91.03 301 iPc	58 46.00	1.6
HYT	2.23	109	P	37 16.50	-1.7	CMS	29.04 262 iPd	51 48.10	2.4		1.0s	19.00nm	5.0mb
VLZ	2.24	256	eP	37 19.72	1.5		0.5s	12.00nm	4.8mb	TUC	91.49 52 ePd	58 47.61	1.3
DOT	2.28	334	eP	37 17.18	-1.8		eS	56 25.00			1.5s	92.76nm	5.6mb
PNL	2.29	148	eP	37 19.85	0.8	BFD	31.14 250 eP	52 06.90	2.9X		epP	59 43.15	226km
HIN	2.60	244	eP	37 24.67	1.2	QLP	31.64 271 iPd	52 10.00	1.6	BJI	93.05 316 eP	58 53.50	0.3
HON	2.62	145	eP	37 24.45	0.9	STK	32.52 260 iPd	52 18.60	2.5		1.5s	57.00nm	5.4mb
SCM	2.64	277	eP	37 25.45	1.4		0.7s	24.20nm	4.9mb	TIY	93.84 313 eP	58 57.00	0.0
SML	3.12	276	eP	37 30.73	0.0		eS	57 19.10		MSU	94.39 47 eP	59 00.69	0.9
WHC	3.36	102	P	37 32.30	-2.0	CTA	32.54 283 iPd	52 17.90	1.6	RMW	94.89 35 eP	59 01.73	0.1
GHO	3.40	276	eP	37 35.83	1.0		1.2s	44.92nm	5.0mb	SLKM	95.51 14 eP	59 02.91	-1.2
PLBC	3.45	127	Pg	37 41.90	6.4		i	52 23.00	18kmX		epP	59 59.73	232km
							e	53 06.00		CP2	95.80 13 eP	59 03.93	-1.7
INK	7.56	24	eP	38 28.50	-4.9		e	53 44.00		CRP	95.81 13 eP	59 04.42	-1.2
YKA	12.74	74	eP	39 39.90	-4.5		e	54 03.00		HHC	96.30 315 eP	59 09.40	1.2
							iS	57 17.00			1.0s	11.00nm	5.1mb
32 obs. associated						PMG	37.96 299 eP	53 01.00	-1.1	TTA	96.69 11 eP	59 08.85	-0.5
							1.0s	112.00nm	5.4mb	LZH	98.48 307 eP	59 17.00	-1.2
APR 06, 1993 22h 46m 04.81±0.16s						LAT	39.92 302 eP	53 19.40	1.1		2.0s	24.00nm	5.2mb
32.174 S ± 3.5km 179.915 W ± 5.2km					ASPA	41.42 270 iPd	53 31.30	0.7	BW06	98.55 45 eP	59 17.36	-1.1	
DEPTH = 229.1km (5 depth phases)						0.4s	193.10nm	5.9mb		0.9s	3.24nm	4.7mb	
5.2mb (36 obs.)						eS	59 27.60		ILT	99.77 0 iPc	59 22.00	-1.0	
SOUTH OF KERMADEC ISLANDS (179)						MDG	41.77 303 eP	53 34.80	1.4		1.1s	8.00nm	5.1mb
RAO	3.38	31	eP	46 58.50	-2.3	WB2	42.56 275 iPd	53 40.40	0.6	FBA	99.96 13 eP	59 23.11	-0.9
							0.5s	411.70nm	6.1mb		0.8s	2.72nm	4.7mb
HBZ	5.61	195	eP	47 28.30	0.2		iS	59 45.20		ZAK	106.45 319 ePd	59 52.50	-0.7
KUZ	5.81	217	eP	47 36.50	5.7X	WRA	42.57 275 P	53 40.50	0.6	GUN	107.57 292 PKP	04 05.60	-0.9
PUZ	6.07	194	P	47 34.00	-0.1		0.5s	28.10nm	5.0mb	YKA	107.75 26 ePd	59 58.80	0.1
						WARB	46.65 263 eP	54 11.50	-0.8		0.5s	0.30nm	4.8mb
OUZ	6.20	239	P	47 41.20	5.5X		0.4s	11.00nm	4.6mb	YKA	107.75 26 ePKP	04 03.70	-1.6
URZ	6.54	201	P	47 39.90	-0.1	MTN	48.69 282 eP	54 27.70	-0.3		0.5s	1.40nm	
							0.4s	238.00nm	6.0mb	PKI	107.78 292 PKP	04 08.20	1.3
NOZ	6.64	194	eP	47 40.30	-1.0	KNA	49.21 277 eP	54 32.10	0.2	KKN	107.98 292 PKP	04 06.00	-1.1
WLZ	6.77	212	eP	47 47.10	4.1X		0.4s	28.00nm	5.1mb	DMN	108.04 292 PKP	04 12.20	4.9X
PAHZ	7.11	199	eP	47 50.20	2.8X	KLB	52.24 253 eP	54 52.00	-2.6	GKN	108.58 292 PKP	04 06.80	-1.4
WHH	7.31	203	eP	47 51.50	1.6	MEEK	53.21 259 eP	55 01.00	-0.8	ULM	110.47 43 ePKP	04 12.50	1.7
MOH	7.34	198	eP	47 51.20	0.9	MBL	54.34 266 eP	55 08.40	-1.7	WMO	113.03 308 PKP	04 15.20	-0.8
NGZ	7.88	206	eP	47 56.90	-0.5		0.3s	6.00nm	4.7mb	MBC	114.50 13 ePKP	04 16.00	-1.8
WAHZ	8.09	201	eP	47 57.80	-2.3	MRWA	54.46 255 eP	55 10.00	-0.8		0.5s	3.00nm	
BSZ	8.68	207	eP	48 09.50	1.9	NANU	57.39 262 eP	55 31.00	-0.7	FCC	114.84 35 ePKP	04 20.00	1.1
NRZ	8.72	213	eP	48 11.50	3.3X	SPA	58.00 180 iPd	55 38.00	2.4	ELT	117.23 318 iPKPc	04 22.00	-1.6
PGZ	8.97	199	eP	48 08.10	-3.2X		0.8s	51.25nm	5.2mb		0.8s	20.00nm	
MNG	9.21	202	eP	48 10.70	-3.7X		i	56 25.90	211kmX	PRZ	118.92 304 ePKP	04 27.00	-0.5
						CTB	66.05 296 ePd	56 30.00	0.7		1.0s	60.00nm	
KIW	9.62	204	eP	48 16.60	-3.1X	CVP	74.63 303 ePd	57 21.50	0.8	EEO	119.60 51 ePKP	04 30.50	2.1X
KIW	9.62	204	P	48 20.60	0.9	SNA	77.79 179 iPd	57 39.80	2.4	KSH	119.70 300 PKP	04 29.50	0.5
OTW	9.66	199	P	48 24.00	3.9X		0.8s	176.12nm	5.8mb	NR1	120.40 336 iPKPd	04 28.00	-1.2
MTW	9.69	201	P	48 20.90	0.3	MAT	78.79 327 iPc	57 41.20	-2.2		1.2s	55.00nm	
CAW	9.78	203	P	48 21.70	-0.1		1.0s	24.00nm	4.9mb	BUL	121.24 212 iPKPc	04 32.10	-0.4
BLW	9.89	201	P	48 23.40	0.2	ADK	83.74 2 eP	58 07.47	-1.2	RSNY	122.10 54 ePKP	04 32.53	-0.7
MOW	10.01	201	P	48 24.40	-0.2		1.3s	232.31nm	5.8mb	JAO	123.37 44 ePKP	04 33.00	-2.3X
						SSE	84.06 312 Pd	58 11.50	0.7	CBM	126.99 53 ePKP	04 40.75	-1.8

06d 23h

FRB	127.74	32	ePKP	04	42.50	-0.9	PSZ	158.25	322	ePKP	05	33.80	-1.2	ARV	0.29	138	P	eSg	55	42.20	1.0
LMN	129.09	55	ePKP	04	48.50	1.9	DLF	158.36	11	ePKP	05	36.00	1.2				P	eSg	55	34.00	
MAIO	131.38	292	ePKP	04	51.00	-0.4	CLL	158.65	337	ePKP	05	34.00	-1.2				P	eSg	55	41.00	
SVE	132.21	320	ePKP	04	51.50	-0.7	BRG	158.69	335	iPKP	05	34.60	-0.7	CRE	0.53	261	P	eSg	55	37.00	0.5
	2.1s	40.00nm						1.2s	75.00nm								P	eSg	55	46.00	
			e	07	15.00					i	05	47.60		SFI	0.63	289	P	eSg	55	39.50	1.7
VAN	132.82	294	iPKPc	04	52.60	-1.4				i	06	11.60					P	eSg	55	49.90	
ARU	133.37	319	ePKP	04	54.00	-0.4	SRO	159.13	324	e(PKP)	05	34.40	-1.4	ASS	0.64	181	P	eSg	55	38.20	0.1
	0.8s	50.00nm								i	06	14.40					P	eSg	55	47.80	
DAG	134.47	6	ePKP	04	43.80	-12.1X				e	26	02.30		PGD	0.71	283	Pc	eSg	55	40.40	1.3
	0.8s	2.24nm								i	26	19.00					P	eSg	55	51.20	
			eP	04	54.00					Lg	27	13.00		FIR	1.03	274	P	ePg	55	44.50	1.0
SDF	141.48	344	iPKP	05	02.00	-7.1X	ZST	159.46	326	iPKP	05	35.80	-0.4				P	iSg	55	57.00	
GRS	142.14	294	ePKP	05	07.00	-4.4X		0.9s	25.20nm					MNS	1.33	180	P	eSg	55	46.80	-1.0
	1.2s	30.00nm								i	06	14.60					P	eSg	56	03.00	
GRO	142.69	301	ePKP	05	08.00	-3.9X	VKA	159.77	327	ePKP	05	36.00	-0.6	AQU	1.46	158	P	eSg	55	50.70	1.0
	1.0s	110.00nm								i	06	17.20		BDI	1.54	284	P	eSg	55	50.30	-0.6
MTA	143.37	298	iPKP	05	11.00	-2.1X	KHC	160.26	333	PKPc	05	37.10	0.0				P	eSg	56	09.20	
	1.0s	50.00nm								e	06	07.50		RIY	2.04	36	iPnd	eSg	55	58.00	0.0
			i	05	18.80		SKO	160.40	306	ePKP	05	36.00	-1.4				P	eSg	56	23.00	
PYA	144.55	302	iPKPc	05	12.50	-2.6X				i	06	18.60		TRI	2.14	21	ePg	eSg	55	57.00	-2.4X
	1.0s	250.00nm					GEC2	160.44	332	e(PKP)	05	36.70	-0.7				P	iSg	56	24.00	
AKU	144.68	13	iPKP	05	14.20	-0.4		1.0s	3.50nm					SDI	2.18	157	P	eSg	56	00.40	0.4
	1.0s	128.00nm					GRF	160.62	338	ePKP	05	37.40	0.0	CEY	2.38	31	ePn	eSg	56	02.00	-0.9
MOS	144.82	323	iPKPd	05	14.00	-1.1				i	06	21.20					P	eSg	56	31.00	
	1.5s	780.00nm					PTJ	161.61	323	ePKP	05	37.80	-0.8	CTI	2.44	343	Pd	eSg	56	03.20	-0.7
			e	05	25.00		LJU	162.22	325	ePKP	05	38.50	-0.6				P	eSg	56	30.20	
OBN	145.63	323	iPKPc+05	16.00	-0.5					ePKPab06	27.00		VOY	2.47	20	iPnd	eSg	56	03.70	-0.6	
	1.2s	406.00nm					VBY	162.24	323	ePKP	05	38.90	-0.2				P	eSg	56	33.60	
PUL	145.88	333	ePKPc	05	17.50	0.7				ePKPab06	27.40					P	eSg	56	51.00		
	1.4s	2120.00nm					CEY	162.49	325	ePKP	05	39.00	-0.4	VBY	2.57	45	ePn	eSg	56	06.00	0.5
SOC	147.00	302	ePKP	05	20.50	1.4				ePKPab06	28.00					P	eSg	56	36.40		
NUR	147.37	338	ePKP	05	18.00	-1.2	VOY	162.54	326	ePKP	05	38.30	-1.2	LJU	2.68	29	ePn	eSg	56	07.00	0.0
BCAO	147.43	216	iPKPc	05	20.00	-0.7				ePKPab06	27.90					P	eSg	56	38.50		
	0.5s	78.00nm					FLN	163.42	1	ePKP	05	39.70	-0.5	HVAR	2.80	100	ePn	eSg	56	08.10	-0.7
			ic	05	23.50			1.1s	21.50nm								P	iSg	56	39.40	
			ic	05	57.80		HAU	163.49	345	iPKPd	05	39.40	-0.9	RBL	2.80	13	P	eSg	56	07.60	-1.2
			ic	06	37.00			1.5s	26.10nm					FVI	2.88	1	P	eSg	56	09.80	-0.1
ANN	148.52	305	iPKPd	05	25.00	3.5X	BSF	163.55	344	ePKP	05	39.30	-1.2				P	eSg	56	42.20	
	0.8s	60.00nm						1.3s	22.40nm					PGF	2.93	248	Pn	eSg	56	09.60	-1.2
UPP	149.95	342	iPKPd	05	26.60	3.4X	LDF	163.60	0	ePKP	05	39.50	-0.9				P	eSg	56	42.10	
			i	05	33.90			1.5s	60.60nm					PTJ	3.20	46	iP	eSg	56	29.10	14.6X
KVT	149.98	297	iPKP	05	30.00	6.1X	GRR	163.79	2	iPKPd	05	40.30	-0.3	KBA	3.40	8	iPnd	eSg	56	17.60	0.1
HR1	150.07	282	ePKP	05	29.80	5.4X		1.3s	28.15nm								P	eSg	56	42.70	
DSI	150.10	278	ePKP	05	29.50	5.2X	LOR	164.65	350	iPKPd	05	40.90	-0.5				P	eSg	56	55.90	
NB2	150.22	349	PKP	05	28.00	4.3X		1.2s	14.30nm					WTTA	3.62	349	iPnd	eSg	56	21.50	0.8
	0.5s	49.20nm					SSF	164.90	351	iPKPd	05	41.00	-0.6				P	eSg	57	03.80	
BHL	150.22	283	PKP	05	23.00	-1.6		1.3s	34.30nm					SGO	3.71	147	P	eSg	56	02.80	-18.9X
FOO	150.39	355	ePKP	05	28.67	4.9X	LBF	164.91	350	iPKPd	05	41.00	-0.7				P	eSg	56	08.40	
ADI	150.47	281	ePKP	05	30.20	5.3X		1.4s	30.05nm					SBF	3.80	274	Pn	eSg	56	21.60	-1.4
ZNT	150.51	280	ePKP	05	30.90	5.9X	BGF	165.48	352	ePKP	05	41.60	-0.5				P	eSg	57	00.40	
HFS	150.61	346	ePKP	05	22.60	-1.6		1.2s	17.25nm					MGR	4.17	148	P	eSg	56	05.90	-22.3X
	1.2s	41.60nm					MFF	165.59	1	iPKPd	05	41.70	-0.5				P	eSg	56	14.00	
MNK	150.74	326	ePKP	05	29.00	4.5X		1.3s	45.15nm					FRF	4.38	270	Pn	eSg	56	28.80	-2.4X
	1.0s	396.00nm					TCF	165.81	354	iPKPd	05	41.90	-0.5				P	eSg	57	16.20	
SUE	150.95	355	ePKP	05	26.40	1.8		1.2s	22.90nm					LMR	4.50	267	Pn	eSg	56	31.40	-1.6
ASK	151.48	355	ePKP	05	31.67	6.2X	LSF	165.90	356	iPKPd	05	41.80	-0.7				P	eSg	57	18.50	
BER	151.57	355	ePKP	05	32.06	6.5X		1.0s	13.20nm					LPG	4.59	295	Pn	eSg	56	31.60	-2.9X
KAS	151.65	298	ePKP	05	31.50	5.0X	EPF	169.16	359	ePKP	05	44.90	0.0	LRG	4.60	269	Pn	eSg	56	33.00	-1.3
EGD	151.69	355	ePKP	05	32.13	6.4X		1.4s	36.60nm								P	eSg	57	21.90	
KONO	151.79	350	ePKP	05	32.00	6.0X	EPLA	170.68	31	iPKPc	05	47.20	1.4	LPL	4.61	295	Pn	eSg	56	32.60	-2.1X
CSS	152.23	285	ePKP	05	33.60	6.2X	GUD	170.89	21	iPKPd	05	48.00	2.0	KHC	5.45	6	eP	eSg	56	44.50	-1.9X
KMY	152.74	354	ePKP	05	34.19	6.9X	ETOR	171.20	11	iPKPd	05	47.00	0.9				P	eSg	57	02.50	
KIS	153.51	312	iPKPc+05	36.00	7.2X		PAB	171.81	25	iPKPc	05	49.00	2.7X				P	eSg	57	45.50	
	0.6s	200.00nm						1.3s	57.69nm					BSF	5.82	317	Pn	eSg	56	49.20	-2.5X
			e	05	43.00		EVAL	172.21	44	iPKPc	05	48.30	1.9				P	eSg	57	50.00	
			i	05	50.00		ECHE	172.55	6	ePKP	05	48.00	1.4	CDF	6.01	323	Pn	eSg	56	51.90	-2.5X
LIC	153.74	168	PKP	05	31.32	1.2	EHOR	172.87	36	ePKP	05	48.50	1.8				P	eSg	57	55.70	
			e	05	39.00		EVIA	173.21	17	iPKPc	05	48.50	1.5	HAU	6.16	316	Pn	eSg	56	53.30	-3.1X
KIC	153.93	169	PKP	05	31.48	1.1	ELUQ	173.55	32	ePKP	05	47.50	0.4				P	eSg	57	57.90	
			e	05	39.00		AVE	173.58	78	ePKP	05	49.00	1.9	LBF	6.95	301	Pn	eSg	57	03.50	-3.9X
TIC	154.16	168	PKP	05	31.94	1.3	EJIF	173.73	46	ePKP	05	49.00	1.9				P	eSg	58	15.80	
BSD	154.79	340	iPKPc	05	30.90	0.7	EHUE	173.96	21	ePKP	05	47.90	0.6	LOR	7.14	303	Pn	eSg	57	05.70	-4.5X
	1.2s	84.00nm					ECOG	174.09	30	iPKPd	05	47.80	0.4				P	eSg	58	19.70	
MLR	155.99	311	ePKP	05	32.00	-0.4	MAL	174.13	38	iPKPc	05	48.00	0.8				P	eSg	57	45.50	
			e	26	26.50		EGUA	174.46	32	iPKPc	05	48.10	0.7				P	eSg	57	49.20	-2.5X
UZH	156.54	321	ePKP	05	44.00	11.2X											P	eSg	57	50.00	
			e	05	53.00		ENIJ	174.8													

RSP	0.40	41	P	03	31.68		CEY	3.63	319	ePn	25	47.30	1.5		e	26	51.50			
LSD	0.64	17	P	03	27.84	0.3	ASS	3.76	272	e(Sn)	26	34.00			e	27	16.80			
	S.D. = 0.4	on	5	of	5	obs.									Sg	27	44.40			
															e	27	54.70			
							LJU	3.81	323	ePn	25	50.20	1.8		e	28	20.00			
APR 06, 1993	23h	24m	47.78	±	0.18s					ePg	26	04.50		VDL	6.86	303	P	26	32.40	0.7
43.031 N	±	2.5km	17.792 E	±	2.0km					eSn	26	32.00		PCP	6.86	286	P	26	30.99	-0.6
DEPTH =	5.0km	(geophysicist)								eSg	26	44.50		WET	7.00	333	eP	26	34.20	0.7
3.6mb	(2 obs.)						MNS	3.82	262	Pd	25	49.20	0.6	CKI	7.03	285	P	26	32.80	-1.1
NORTHWESTERN BALKAN REGION	(383)						TRI	3.94	314	ePn	25	50.50	0.3	VAI	7.05	297	P	26	33.40	-0.7
ML 4.1 (ZAG), 3.9 (ROM), 3.9										ePg	26	03.20		FIN	7.05	283	P	26	32.50	-1.8
(TIR), 3.8 (VIE), MD 4.2 (TRI),										eSn	26	36.00		TMA	7.07	299	P	26	34.40	-0.2
4.1 (LJU), 4.0 (TTG). Felt along										iSb	26	52.00		IMI	7.26	280	P	26	36.66	-0.5
the coast of Croatia from										iSg	26	55.40		ROB	7.31	283	P	26	36.16	-1.6
Imotski to Dubrovnik. Also felt							VAY	3.94	114	iPn	25	50.00	-0.2	PRU	7.31	343	ePn	26	38.00	0.2
at Grude, Bosnia-Herzegovina.							RMP	3.96	254	P	25	51.80	1.3		e	26	55.70			
							RDP	3.97	253	P	25	51.70	1.0		Sg	28	11.50			
BRY	0.57	103	iPg	24	58.58	-0.6	IGT	3.99	150	iPn	25	49.58	-1.3	LLS	7.32	305	P	26	40.50	2.3
			iSg	25	05.83					eSn	26	33.86		ORD	7.50	294	P	26	39.00	-1.5
NKY	0.91	103	iPg	25	04.61	-1.2	RSM	3.99	285	P	25	52.30	1.4	PSN	7.60	82	eP	26	42.00	0.1
			iSg	25	17.35		VTG	4.01	94	iPd	25	52.00	0.7	ENR	7.62	283	P	26	41.33	-0.9
HVAR	1.00	279	iPg	25	07.50	0.4	GRG	4.01	120	iPn	25	51.06	-0.2	STV	7.69	283	P	26	41.10	-2.1
			iSg	25	22.50					iSn	26	35.78		BHB	7.81	287	P	26	41.52	-3.3X
BDV	1.07	134	iPg	25	08.00	-0.4	KKB	4.08	105	iPd	25	53.00	0.7	RSP	7.87	289	P	26	42.11	-3.7X
			iSg	25	23.36		VOY	4.09	318	iPnc	25	53.30	0.8	PZZ	7.88	284	P	26	43.03	-2.9X
PLE	1.21	75	iPg	25	10.01	-0.8				e	26	09.20		KSP	7.88	353	eP	26	31.50	-14.3X
			iSg	25	26.78					e(Sn)	26	42.00			e	27	08.50			
TTG	1.24	119	iPg	25	10.74	-0.5	KNT	4.23	114	iPn	25	53.94	-0.4		e	28	26.50			
			iSg	25	28.51		CRE	4.30	280	P	25	57.40	1.9	LSD	8.01	291	P	26	44.76	-3.1X
ULC	1.52	134	iPg	25	15.61	0.0				eSn	26	46.00		GRF	8.06	328	ePn	26	47.10	-1.2
			iSg	25	38.15		GRI	4.34	194	P	25	56.47	0.6	FRF	8.15	278	Pn	26	48.50	-1.0
IVA	1.55	95	iPg	25	16.43	0.2	SFI	4.41	284	P	25	58.80	1.9		Sn	28	16.40			
			iSg	25	38.64		PGD	4.50	283	P	26	00.10	1.8	RRL	8.16	287	P	26	46.87	-3.1X
SDA	1.60	127	ePn	25	18.00	1.3	BUD	4.54	11	ePn	25	57.30	-1.3	LMR	8.25	276	Pn	26	49.10	-1.9
			iSn	25	37.00		RBL	4.55	320	P	25	59.10	0.2		Sn	28	20.70			
PVY	1.66	104	iPn	25	18.56	0.7				eSn	26	52.00		BNI	8.26	288	P	26	48.30	-3.0X
			iSn	25	42.05		THE	4.55	120	iPn	25	58.38	-0.4	BRG	8.27	343	ePn	26	58.00	6.8X
LACI	1.99	134	iPnc	25	23.40	1.0	LIT	4.58	128	ePn	25	58.42	-0.9		e	28	38.00			
			iSn	25	49.40					eSn	26	47.42			e	28	45.00			
BRT	2.20	192	P	25	24.60	-0.8	MMB	4.63	106	eP	26	01.00	0.9	LPG	8.30	291	Pn	26	49.50	-2.4
			eSn	25	51.00		DEV	4.64	50	ePc	26	16.00	15.9X	LPL	8.32	291	Pn	26	49.50	-2.6
TIR	2.28	137	iPnd	25	27.00	0.3	PGB	4.72	94	iP	26	08.00	6.7X	EMS	8.33	295	P	26	51.90	-0.4
			iSn	25	57.70		SRS	4.72	112	ePn	26	00.98	-0.4	LRG	8.36	277	Pn	26	51.20	-1.2
PHP	2.38	124	iPnc	25	28.40	0.3	SOP	4.73	350	eP	26	01.50	0.0		Sn	28	21.40			
			iSn	25	59.40		FIR	4.82	281	ePn	26	05.50	2.8X	FEL	8.41	309	eP	26	51.37	-1.9
LCI	2.70	177	P	25	31.50	-1.1				iSn	27	10.00		MOX	8.71	333	ePn	26	57.60	0.3
DUI	2.82	242	P	25	36.20	1.7	VVI	4.84	309	P	26	02.80	-0.3		(Sg)	28	50.10			
			eSn	26	10.00		FVI	5.04	317	P	26	06.30	0.5	BSF	9.10	306	Pn	27	01.90	-0.9
VLO	2.86	153	ePn	25	45.60	10.7X	PSZ	5.11	16	ePnd	26	04.80	-2.0		Sn	28	39.70			
SKO	2.90	110	iPnc	25	36.50	1.1	SOI	5.13	196	P	26	05.90	-1.1	CDF	9.11	310	Pn	27	00.10	-2.8X
	0.6s	180.00nm					KBA	5.13	324	iPnc	26	08.00	0.8	HAU	9.45	306	Pn	27	06.40	-1.1
			iPg	25	41.80					iPg	26	27.70			Sn	28	46.30			
			i	26	13.50					iSn	26	57.50		SMF	10.55	295	Pn	27	19.30	-3.3X
			iSg	26	18.30					i	27	12.90			Sn	29	14.60			
OHR	2.95	130	iPn	25	37.50	1.3	PLD	5.19	98	eP	26	08.00	0.1	LBF	10.55	297	Pn	27	18.80	-3.9X
			i	25	45.10		ZST	5.19	355	e(Pn)	25	29.00	-38.9X		Sn	29	12.40			
			i	26	02.70					i(Sn)	26	07.40		LOR	10.71	298	Pn	27	21.70	-3.2X
			iSn	26	10.00					i	26	16.60			Sn	29	19.10			
			iSg	26	25.50					Lg	26	37.00		SSF	10.88	297	Pn	27	25.30	-1.9
VBY	3.07	325	iPnc	25	39.60	1.8				e	34	33.70			Sn	29	20.70			
			iSn	26	18.00					e	26	09.10	-0.9	AVF	10.91	295	Pn	27	25.10	-2.5
ZAG	3.07	336	iPn	25	39.50	1.7	CTI	5.33	307	P	26	09.90	-0.1	BGF	11.19	293	Pn	27	28.50	-2.9X
			iSn	26	16.50		BDI	5.33	284	P	26	09.90	-0.1		Sn	29	25.20			
			iSg	26	28.50					eSn	27	09.50		HYF	11.51	297	Pn	27	33.50	-2.2
SGO	3.09	218	P	25	37.60	-0.5	VKA	5.34	349	e(Pn)	26	10.00	0.0	OBN	17.19	39	eP	28	32.50	-17.4X
ORI	3.13	199	P	25	39.10	0.4				iSn	27	09.30			e	28	41.00			
PTJ	3.15	336	iPn	25	40.30	1.2	PAIG	5.40	123	iPn	26	09.53	-1.4		e	28	50.00			
			i(Sn)	26	15.00		PVL	5.52	86	iPd	26	12.00	-0.7		i	28	56.50			
TPE	3.20	148	ePn	25	40.00	0.3	CMP	5.67	64	ePd	26	22.00	7.2X		i	29	10.50			
SDI	3.23	247	P	25	40.80	0.6	SAL	5.81	299	P	26	18.00	1.3		e	29	17.00			
			eSn	26	20.00		KDZ	5.82	101	eP	26	17.00	0.2		e	29	17.00			
KBN	3.29	136	ePn	25	41.50	0.5	BHG	5.83	325	ePn	26	17.60	0.7	HFS	17.31	353	eP	28	51.90	0.4
			iSn	26	22.50		WTTA	6.07	316	iPnd	26	21.10	0.6		0.4s	1.00nm		3.3mb		
AQU	3.31	260	P	25	41.90	0.6				i	27	12.70		NB2	18.47	350	P	29	03.70	-2.2
			eSn	26	22.00					i	27	32.20			0.6s	0.50nm		2.9mb X		
RFI	3.32	240	P	25	42.77	1.4	OGA	6.14	311	ePn	26	22.90	1.3	GKN	55.07	83	P	34	19.80	-3.4X
MGR	3.34	211	P	25	41.00	-0.8	WATA	6.15	317	iPnc	26	22.90	1.3	DMN	55.64	83	P	34	24.00	-3.4X
RIY	3.37	315	ePn	25	44.50	2.4	SOTA	6.26	314	iPnc	26	24.20	1.0	KKN	55.66	82	P	34	23.80	-3.7X
SSR	3.39	56	iPd	25	42.00	-0.5	BOB	6.27	289	P	26	24.10	0.8	GUN	56.03	82	P	34	26.80	-3.5X
MMN	3.42	204	P	25	42.20	-0.6	MOTA	6.40	315	iPnc	26	25.30	0.2	YKA	68.12	338	eP	35	46.20	-4.1X
CSI	3.44	200	P	25	42.40	-0.8	MDI	6.41	298	P	26	24.10	-1.0		0.6s	0.50nm		3.9mb		
TDS	3.54	198	P	25	44.70	0.1	PGF	6.49	269	Pn	26	26.00	-0.4		S.D. = 1.2	on 121 of 147 obs.				
SRN	3.56	151	ePn	25	47.00	2.2	JMB	6.50	92	eP	26	34.00	7.6X							
LSK	3.57	143	ePn	25	47.10	2.1	ALN	6.51	106	ePn										

06d 23h

ML 2.6 (PRE).

PRY	0.53	182	eP	28	38.20	-0.8
			S	28	43.50	
KSR	0.75	314	eP	28	43.00	-0.4
			S	28	51.00	
SLR	0.96	47	eP	28	47.20	0.1
			S	29	00.70	
SEK	1.93	177	eP	29	02.70	0.6
			S	29	27.00	
SWZ	2.09	247	eP	29	05.10	0.6
			S	29	28.10	
BLF	2.94	203	eP	29	22.00	5.3X
			S.D. = 0.8	on	5 of	6 obs.

APR 06, 1993 23h 32m 16.42 \pm 0.32s
 43.032 N \pm 3.4km 17.859 E \pm 3.2km
 DEPTH = 9.4 \pm 3.2 km
 NORTHWESTERN BALKAN REGION (383)
 ML 3.4 (TTG), 3.2 (ROM), MD 3.5 (LJU).

BRY	0.52	104	iPg	32	25.78	-1.2
			iSg	32	33.58	
HCY	0.75	141	iPg	32	29.73	-1.4
			iSg	32	40.72	
NKY	0.87	104	iPg	32	31.86	-1.3
			iSg	32	44.70	
BDV	1.03	136	iPg	32	35.07	-0.9
			iSg	32	50.22	
PLE	1.16	75	ePg	32	37.87	-0.4
			iSg	32	55.16	
TTG	1.20	120	iPg	32	38.36	-0.4
			iSg	32	55.65	
ULC	1.48	136	iPg	32	42.81	-0.4
			iSg	32	04.75	
IVA	1.51	95	iPg	32	44.07	0.5
			iSg	33	06.15	
PVY	1.62	105	iPnc	32	46.23	1.0
			iSn	33	09.33	
BRT	2.21	193	P	32	54.80	1.1
			eSn	33	19.50	
LCI	2.70	178	P	33	01.00	0.3
SKO	2.85	111	ePn	33	07.60	4.7X
			iSg	33	46.00	
DUI	2.87	243	P	33	05.00	1.8
OHR	2.91	130	ePn	33	05.00	1.3
VBY	3.10	324	ePn	33	07.00	0.7
SGO	3.12	219	P	33	05.30	-1.3
SDI	3.28	248	P	33	08.60	-0.3
AQU	3.35	260	P	33	09.50	-0.5
			eSn	33	51.00	
RFI	3.36	240	P	33	10.48	0.4
MGR	3.37	212	P	33	08.70	-1.5
MMN	3.44	205	P	33	12.80	1.7
			eSn	33	52.40	
ROI	3.59	196	P	33	12.00	-1.4
UZD	3.60	8	ePn	33	12.60	-0.8
ARV	3.62	279	P	33	13.50	-0.3
CEY	3.66	319	ePn	33	14.50	0.2
			eSn	34	01.00	
ASS	3.81	272	P	33	16.60	0.1
			eSn	34	00.00	
LJU	3.84	323	e(Pn)	33	20.00	3.2X
			eSn	34	03.00	
MNS	3.87	262	P	33	17.20	-0.2
VAY	3.90	114	ePn	33	17.50	-0.2
VTS	3.96	95	iPd	33	19.00	0.3
KKB	4.04	105	eP	33	20.00	0.3
VOY	4.13	318	ePn	33	20.50	-0.5
			eSn	34	09.40	
CRE	4.35	280	P	33	25.00	0.8
			eSn	34	13.50	
PGD	4.55	283	P	33	27.00	-0.1
RBL	4.58	320	P	33	26.50	-0.9
VVI	4.88	309	P	33	30.80	-0.9
FVI	5.07	316	P	33	34.13	-0.2
KBA	5.16	323	iPnd	33	35.30	-0.4
			iSn	34	23.60	
RZN	5.26	102	eP	33	38.00	0.8
CTI	5.36	306	P	33	37.00	-1.6
BDI	5.38	284	P	33	38.50	-0.3
			eSn	34	38.50	
WTTA	6.10	316	iPnc	33	48.10	-1.0
			i	34	39.30	
			i	34	59.20	

PGF	6.54	269	Pn	34	08.00	12.8X
KHC	6.79	335	ePn	34	03.50	5.0X
			eSg	35	11.50	
FRF	8.20	278	Pn	34	23.80	5.5X
LPG	8.34	291	Pn	34	16.50	-4.1X
LPL	8.36	291	Pn	34	16.20	-4.6X
			S.D. = 0.9	on	40 of	47 obs.

? APR 06, 1993 23h 52m 56.38 \pm 4.87s
 42.915 N \pm 14.9km 18.105 E \pm 32.9km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.6 (TTG).

BRY	0.32	92	iPg	53	02.53	-0.6
			iSg	53	10.96	
HCY	0.55	148	iPg	53	06.77	-0.8
			iSg	53	17.91	
NKY	0.66	99	iPg	53	09.41	-0.3
			iSg	53	22.66	
BDV	0.83	140	iPg	53	12.10	-0.3
			iSg	53	27.86	
TTG	0.98	119	ePg	53	15.35	0.4
			iSg	53	33.22	
PLE	1.03	66	iPg	53	15.13	-0.8
			iSg	53	32.88	
ULC	1.27	138	iPg	53	20.22	0.2
			iSg	53	42.00	
IVA	1.32	91	iPg	53	21.52	0.7
			iSg	53	43.78	
PVY	1.41	102	iPnd	53	23.67	1.4
			iSn	53	46.55	
VBY	3.30	323	eP	54	02.20	13.1X
			eSn	54	23.10	
			S.D. = 0.9	on	9 of	10 obs.

APR 06, 1993 23h 52m 57.50 \pm 0.90s
 38.761 N \pm 8.1km 26.063 E \pm 5.8km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.4 (THE), MD 3.5 (ISK), 3.2 (ATH).

PRK	0.51	19	iPbc	53	08.50	0.7
IZM	1.01	111	iPn	53	24.30	7.7X
			eSg	53	45.00	
EDC	2.11	41	ePn	53	33.50	0.2
ALN	2.13	360	iPn	53	33.17	-0.4
			iSn	54	03.34	
PAIG	2.18	303	iPn	53	39.46	5.1X
KCT	2.31	49	iPn	53	36.50	0.2
RDO	2.42	351	ePn	53	37.30	-0.3
KDZ	2.93	350	iPd	53	44.00	-0.9
CTT	3.00	37	ePn	53	45.70	-0.2
SRS	3.02	322	ePn	53	46.74	0.5
			eSn	54	31.38	
RZN	3.10	341	iPd	53	47.00	-0.5
YLV	3.13	54	ePn	53	49.00	1.2
VLI	3.21	232	ePn	53	48.50	-0.4
DMK	3.32	22	iPn	53	48.60	-1.9
MMB	3.34	328	eP	53	52.00	1.1
KNT	3.42	316	ePn	53	52.70	0.8
KKB	3.85	325	iP	53	58.00	0.0
VTS	4.40	331	eP	54	06.00	0.0
			S.D. = 0.9	on	16 of	18 obs.

? APR 07, 1993 00h 29m 54.85 \pm 4.57s
 42.974 N \pm 15.0km 18.085 E \pm 30.3km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.1 (TTG).

BRY	0.34	102	iPg	30	02.07	0.0
			iSg	30	10.54	
HCY	0.61	150	iPg	30	06.22	-0.9
			iSg	30	18.41	
NKY	0.69	103	iPg	30	08.17	-0.4
			iSg	30	22.16	
BDV	0.88	141	ePg	30	11.46	-0.3
			iSg	30	27.92	
PLE	1.02	69	iPg	30	13.70	-0.5
			iSg	30	31.57	
TTG	1.02	122	iPg	30	14.35	0.2
			iSg	30	33.04	
ULC	1.33	139	iPg	30	19.91	0.5
			iSg	30	42.79	
IVA	1.34	94	iPg	30	20.20	0.7

			iSg	30	43.31	
PVY	1.44	105	iPnd	30	22.40	1.3
			iSn	30	47.04	
			S.D. = 0.8	on	9 of	9 obs.

* APR 07, 1993 00h 58m 21.60 \pm 1.02s
 5.573 S \pm 25.2km 102.345 E \pm 21.7km
 DEPTH = 33.0km (normal)
 4.6mb (4 obs.)
 SOUTHERN SUMATERA, INDONESIA (274)

LEM	5.39	104	ePd	59	42.00	0.1
WB2	34.24	118	iPc	05	07.00	0.2
			0.5s	4.10nm		4.6mb
ASPA	35.30	124	eP	05	23.80	8.0X
			0.6s	4.70nm		4.6mb
PKI	36.79	334	P	05	28.40	-0.3
GUN	36.89	335	P	05	29.40	-0.1
			0.6s	19.00nm		5.1mb
DMN	36.95	334	P	05	30.00	0.0
KKN	37.04	334	P	05	30.60	0.0
GKN	37.50	334	P	05	34.08	-0.4
NDI	41.78	326	eP	06	10.50	0.8
STK	45.05	130	eP	06	36.00	-0.3
			0.5s	2.10nm		4.3mb
			S.D. = 0.4	on	9 of	10 obs.

APR 07, 1993 01h 30m 10.58 \pm 0.46s
 13.952 S \pm 10.8km 75.264 W \pm 9.6km
 DEPTH = 86.8km (9 depth phases)
 4.5mb (8 obs.)
 CENTRAL PERU (116)

NNA	2.49	322	iPd	30	51.60	1.7
	0.6s	166.67nm				
			eS	31	21.50	
ARE	4.41	125	eP	31	19.00	2.1
			eS	32	16.00	
ZOBO	7.27	109	P	31	56.80	0.2
			S	33	20.00	
			LR	35	06.00	
LPB	7.38	111	P	31	58.30	0.3
	1.0s	200.00nm				5.7mb X
CNCB	7.58	113	iPd	32	02.10	1.2
CCH	9.43	112	P	32	24.90	-1.1
SIV	13.86	100	P	33	34.00	9.4X
TCA	19.89	152	e(P)	34	37.00	-0.6
SDV	23.15	12	iPc	35	10.40	0.0
PPD	24.13	113	eP	35	19.00	-0.7
TOV	24.20	13	eP	35	20.80	0.4
SRU	62.21	329	eP	40	24.99	-0.5
			epP	40	47.00	86km
MSU	62.59	328	eP	40	28.10	0.1
			epP	40	49.75	85km
ARUT	62.71	327	iPd	40	29.12	0.3
			epP	40	51.48	88km
EMUT	62.90	330	eP	40	30.11	0.0
RSSD	63.47	337 (P)	40	33.04	-0.7	
	0.8s	3.03nm			4.3mb	
			epP	40	55.46	88km
DUG	64.18	329	iPc	40	38.58	0.2
	0.9s	10.94nm			4.8mb	
			iP	41	00.62	86km
			iS	41	11.15	
BW06	64.63	333	eP	40	40.00	-1.4
	1.3s	3.55nm			4.1mb	
ULM	66.44	346	eP	40	53.50	1.0
BGMT	67.67	333	eP	41	00.70	0.0
			e	41	23.10	87km
ORV	68.46	323	eP	41	06.22	0.8
			epP	41	27.92	83km
			eSP	41	39.34	
NEW	72.24	332	eP	41	27.50	-0.7
	0.9s	7.46nm			4.6mb	
			epP	41	50.90	90km
DPW	72.46	331 (P)	41	29.88	0.4	
			epP	41	53.19	89km
LKO	72.95	75	P	41	31.16	-1.8
FCC	74.07	350	eP	41	40.50	2.0
FRB	77.63	3	eP	41	57.50	-0.9
YKA	82.16	343	eP	42	21.30	-1.4
	0.8s	3.60nm			4.3mb	
MBC	93.77	350	eP	43	18.50	0.1
	0.5s	1.00nm			4.5mb	
FBA	95.30	336	eP	43	25.37	-0.2
	0.3s	1.25nm			4.8mb	
GEC2	99.69	42	ePc	43	45.50	-0.4

07d 01h

0.7s 0.90nm 4.5mb
WB2 135.46 222 iPKPd 49 22.70 -0.3
0.5s 4.50nm
e 49 47.30
WRA 135.47 222 PKP 49 23.40 0.3
0.8s 1.90nm
GBA 153.49 87 PKP 50 00.00 6.8X
S.D. = 1.0 on 31 of 33 obs.

% APR 07, 1993 02h 20m 24.56±0.63s
38.725 N ± 6.0km 28.013 E ± 6.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.2 (ISK).

IZM 0.67 241 iPg 20 37.40 -0.6
iSg 20 48.40
KHL 1.25 108 iPn 20 47.00 -0.9
KCT 1.55 10 iPn 20 52.00 -0.2
YER 1.60 172 ePn 20 54.00 1.0
EDC 1.62 356 iPn 20 53.50 0.2
ALT 1.67 78 ePn 20 54.20 0.1
YLV 2.12 29 ePn 21 00.50 0.0
EYL 2.47 41 ePn 21 06.00 0.3
S.D. = 0.7 on 8 of 8 obs.

APR 07, 1993 02h 23m 25.70±0.77s
51.529 N ± 13.6km 175.258 W ± 8.8km
DEPTH = 33.0km (normol)
3.7mb (6 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 0.96 292 iPd 23 42.62 -0.1
S 23 51.88
SVW 14.46 41 (P) 26 50.21 0.6
1.0s 16.10nm 4.5mb
KDC 14.54 56 (P) 26 48.68 -1.9X
TTA 15.38 35 eP 27 03.47 1.8
1.0s 3.92nm 3.6mb
CRP 15.99 43 (P) 27 09.33 -0.3
SLKM 16.54 47 eP 27 15.56 -0.9
FBA 19.49 36 (P) 27 52.57 0.1
0.5s 1.49nm 3.5mb
BALM 20.38 49 (P) 28 02.59 0.5
MBC 32.65 22 eP 29 55.00 -1.1
YKA 33.51 47 eP 30 02.00 -1.7
0.4s 0.20nm 3.4mb
MCMT 41.02 74 eP 31 07.50 0.2
BW06 44.14 74 eP 31 32.67 -0.1
0.7s 3.02nm 4.2mb
SRU 45.73 79 (P) 31 45.78 0.3
WRA 83.70 227 P 35 52.20 -0.1
0.5s 0.20nm 3.5mb
SLR 148.62 316 e(PKP) 43 08.00 1.0
0.7s 16.00nm
PRY 150.01 316 ePKP 43 13.10 4.0X
GRM 155.84 310 iPKPd 43 31.00 14.0X
1.0s 100.00nm
CER 158.98 324 e(PKP) 43 10.00 -10.7X
S.D. = 1.0 on 14 of 18 obs.

% APR 07, 1993 02h 36m 30.54s
61.076 N 152.949 W
DEPTH = 164.3km
3.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

CKL 0.32 68 iPd 36 52.35 0.8
BGL 0.33 55 iPd 36 52.39 0.8
CKT 0.38 71 iPd 36 52.45 0.7
CP2 0.39 61 iPd 36 52.97 1.0
CKN 0.40 68 iPd 36 52.72 1.0
CRP 0.43 63 eP 36 49.95 -2.1
CPAM 0.43 65 ePd 36 52.67 0.7
SPU 0.45 76 iPd 36 52.50 0.5
RDN 0.57 171 ePd 36 53.32 -1.0
RS2 0.62 171 ePd 36 53.73 -0.9
eS 37 12.01
RSO 0.62 171 ePd 36 53.63 -1.0
RS1 0.63 171 eP 36 53.77 -0.9
eS 37 11.96
RED 0.67 172 ePd 36 53.48 -1.3
NKA 0.90 111 ePd 36 56.57 0.4
INW 1.02 185 ePd 36 56.35 -0.9
INE 1.02 183 ePd 36 56.40 -0.9
SKT 1.13 36 iPd 36 57.11 -1.0

SUA 1.13 69 eS 37 17.54
ePd 36 57.36 -0.9
eS 37 17.36
SVW 1.30 273 iPc 36 57.19 -2.4
eS 37 17.84
PDB 1.43 206 ePc 36 59.93 -0.9
eS 37 22.47
SLKM 1.45 112 eP 36 59.51 -1.6
PWA 1.59 67 P 37 01.00 -1.4
PMS 1.65 83 P 37 01.60 -1.5
BRLK 1.67 141 ePc 37 02.11 -1.2
eS 37 24.92
CNPM 1.77 151 ePd 37 03.32 -1.1
eS 37 28.10
MPA 1.86 107 ePd 37 04.04 -1.2
PLRM 1.91 73 eP 37 03.43 -2.5
PMR 1.91 73 iPc 37 02.80 -3.1
eS 37 29.56
PTE 1.93 95 iPd 37 04.17 -1.9
SEW 1.98 118 eP 37 05.19 -1.5
MCNL 2.02 201 ePc 37 06.44 -0.7
eS 37 33.43
GHO 2.06 68 ePd 37 05.55 -2.1
CDD 2.18 190 eP 37 09.57 0.5
SML 2.34 70 eP 37 08.65 -2.2
TTA 2.36 324 iPc 37 08.99 -2.2
HUR 2.47 38 eP 37 11.37 -1.0
SYI 2.49 173 eP 37 11.47 -1.2
TRF 2.69 26 eP 37 14.49 -0.8
SCM 2.80 72 eP 37 14.77 -1.8
RND 3.02 38 eP 37 18.31 -1.0
VLZ 3.21 86 iPd 37 19.79 -1.8
eS 37 58.71
HIN 3.24 99 eP 37 19.88 -2.1
KDC 3.35 176 (P) 37 20.27 -3.0
KLU 3.42 80 iPd 37 22.53 -1.8
CVA 3.57 95 eP 37 25.01 -1.1
TZL 3.73 72 eP 37 27.23 -1.0
SDG 3.80 64 eP 37 28.71 -0.6
SGAM 3.84 95 eP 37 27.16 -2.5
NEA 3.94 25 eP 37 30.38 -0.6
PAX 4.00 58 eP 37 30.96 -1.0
WRH 4.07 31 eP 37 31.22 -1.5
RAGM 4.12 96 eP 37 32.23 -1.2
CCB 4.29 31 eP 37 34.62 -0.9
HDA 4.33 37 eP 37 34.84 -1.3
GLB 4.43 81 ePc 37 36.07 -1.4
FBA 4.50 29 eP 37 35.58 -2.7
GLM 4.67 30 eP 37 38.84 -1.8
CRQM 4.80 90 eP 37 41.15 -1.3
TGL 4.95 89 eP 37 43.86 -0.5
SNH 5.06 96 eP 37 44.96 -0.8
BALM 5.15 86 eP 37 45.94 -1.1
YAH 5.55 92 eP 37 52.43 0.0
CTGM 5.65 86 eP 37 53.72 0.0
YKA 18.01 69 eP 40 29.60 -1.5
0.5s 2.00nm 3.7mb
64 obs. associated

% APR 07, 1993 02h 38m 55.92±2.03s
45.313 S ± 8.7km 167.084 E ± 16.8km
DEPTH = 149.8 ± 15.5 km
SOUTH ISLAND, NEW ZEALAND (162)

BCZ 0.87 143 P 39 19.30 -0.6
eS 39 33.50
MSZ 0.87 43 P 39 19.90 0.1
eS 39 34.90
TLC 1.41 86 P 39 25.20 0.2
CMCZ 1.56 85 P 39 26.60 0.1
S 39 45.40
MHZ 1.57 82 Pd 39 26.90 0.2
SBCZ 1.59 83 P 39 26.90 0.1
LRCZ 1.62 82 P 39 27.20 0.0
LSCZ 1.63 84 Pd 39 27.20 0.0
MSCZ 1.66 83 P 39 27.60 0.0
SIZ 1.72 155 P 39 28.40 0.2
TUZ 1.90 111 Pd 39 30.50 0.3
S 39 51.30
BWZ 2.14 70 P 39 32.90 -0.1
ODZ 2.53 85 Pd 39 37.70 -0.2
S 40 05.20
EWZ 3.25 58 eP 39 46.80 -0.1
LTZ 4.51 58 eP 40 02.80 -0.9
DSZ 4.95 46 eP 40 10.20 0.7
S.D. = 0.4 on 16 of 16 obs.

APR 07, 1993 03h 22m 42.23±0.62s
36.498 N ± 7.4km 27.931 E ± 5.6km
DEPTH = 104.5 ± 16.4 km
DODECANESE ISLANDS (369)
MD 4.2 (HLW).

YER 0.70 24 iPg 22 59.00 -1.3
KSL 1.39 105 eP 23 08.00 0.3
eS 23 26.90
ELL 1.61 80 iPn 23 12.00 1.4
eSg 23 34.00
IZM 1.97 345 iPn 23 13.90 -1.2
KHL 2.22 34 ePn 23 18.50 0.1
NPS 2.25 237 eP 23 19.00 0.2
BCK 2.34 65 iPn 23 21.20 1.2
PRK 3.04 335 eP 23 24.00 -5.4X
ALT 3.08 33 ePn 23 30.00 0.0
PPCY 3.94 113 eP 23 42.00 0.4
eS 24 23.80
VLI 4.02 275 eP 23 44.00 1.2
CSS 4.65 108 eP 23 50.90 -0.6
eS 24 38.40
ADI 6.90 117 eP 24 22.50 0.1
ATZ 7.07 119 eP 24 25.20 0.4
eS 25 38.70
KOT 7.32 152 ePn 24 27.50 -0.6
eSn 25 41.00
JVI 7.65 124 eP 24 31.60 -1.1
MKT 8.17 131 eP 24 39.70 -0.1
eS 26 04.10
SAGI 8.42 136 eP 24 42.60 -0.5
eS 26 09.70
S.D. = 0.9 on 17 of 18 obs.

APR 07, 1993 03h 40m 05.14±0.78s
63.257 N ± 7.2km 151.257 W ± 7.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ALASKA (1)
ML 2.8 (PMR).

PWA 1.73 158 eP 40 35.60 0.1
PMR 1.94 148 eP 40 37.33 -1.1
CRP 2.04 192 eP 40 39.58 -0.5
S 41 08.90
CP2 2.05 193 ePd 40 40.56 0.3
eS 41 09.86
PMS 2.17 158 eP 40 42.10 0.3
TTA 2.19 263 eP 40 41.83 -0.3
S 41 14.92
FBA 2.24 41 eP 40 43.05 0.2
eS 41 11.28
SLKM 2.80 169 eP 40 51.71 0.9
eS 41 28.51
RSO 2.89 195 eP 40 49.28 -3.0X
SVW 2.97 225 eP 40 53.50 0.3
eS 41 39.63
IMA 3.01 341 eP 40 51.54 -2.3X
S 41 37.72
KLU 3.05 123 eP 40 52.11 -2.3X
S 41 31.95
BALM 4.74 114 (P) 41 16.35 -2.0X
S.D. = 0.7 on 9 of 13 obs.

? APR 07, 1993 03h 50m 39.30±5.67s
6.101 N ± 77.0km 76.835 W ± 16.5km
DEPTH = 33.0km (normol)
3.5mb (1 obs.)
NORTHERN COLOMBIA (99)

UPA 3.92 317 eP 51 39.01 0.4
eS 52 21.74
ECO 4.31 319 eP 51 44.00 -0.2
eS 52 32.54
SDV 6.74 65 ePn 52 19.50 0.7
TOV 7.88 62 eP 52 33.90 -0.7
YKA 62.71 341 eP 01 02.90 -0.2
0.5s 0.20nm 3.5mb
S.D. = 0.8 on 5 of 5 obs.

% APR 07, 1993 04h 32m 34.81s
45.053 N 122.618 W
DEPTH = 21.7km
WASHINGTON-OREGON BORDER REGION (28)
<SEA-P>. MD 2.4 (SEA).

SHW 1.17 13 ePd 32 55.87 -0.2
eS 33 12.05

07d 04h

VGB 1.38 70 eP 33 00.20 1.3
 eS 33 19.69
 BMW 1.48 344 eP 33 00.40 0.0
 LON 1.79 18 eP 33 05.76 0.9
 eS 33 30.87
 GMW 2.50 357 eP 33 16.43 1.4
 5 obs. associated

APR 07, 1993 05h 02m 12.20 ± 1.06s
 32.417 N ± 4.0km 141.555 E ± 4.6km
 DEPTH = 37.6 ± 9.4 km
 4.8mb (34 obs.) 4.3Msz (3 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT 4.96 327 iPc 03 26.20 0.0
 eS 04 24.00
 YSS 14.61 3 eP 05 33.80 -4.2X
 MDJ 15.34 326 eP 05 47.10 -0.5
 Z 18s 1.44um
 CN2 16.99 317 eP 06 08.80 0.3
 0.8s 6.70nm 3.8mb X
 Z 20s 0.67um 5.8MszX
 N 15s 1.04um
 E 15s 0.83um

SNY 17.11 308 Pc 06 14.00
 06 08.00 -2.0
 1.6s 57.00nm 4.5mb
 Z 17s 1.41um 5.1MszX
 N 15s 1.25um
 pP 06 16.00

SSE 17.38 271 Pd 06 16.00 2.6
 Z 20s 0.90um
 N 14s 0.70um
 E 14s 0.80um

GUMO 18.99 170 eP 06 33.80 0.5
 1.0s 130.20nm 5.1mb
 PJG 18.99 170 eP 06 34.10 0.8
 GUA 19.04 170 eP 06 34.00 0.0
 0.8s 107.46nm 5.1mb

BJI 21.79 298 eP 07 02.30 -0.3
 Z 18s 0.88um 4.2Msz
 TIY 24.36 291 Pc 07 28.60 0.7
 Z 16s 2.73um 4.8MszX

HHC 25.40 298 eP 07 38.00 0.2
 Z 18s 0.85um 4.3Msz
 N 15s 0.36um
 E 17s 0.60um

BTO 26.52 297 eP 07 48.00 -0.2
 N 13s 0.39um
 E 13s 0.66um

CIT 28.21 322 eP 08 04.00 0.6
 MGD 28.36 10 eP 08 10.00 5.5X
 e 14 14.00

BOD 31.52 332 eP 08 39.40 6.7X
 0.9s 22.00nm 5.0mb
 CD2 32.10 278 iPc 08 37.00 -1.1
 Z 15s 1.06um 4.7MszX
 N 11s 0.72um

ZAK 33.39 314 eP 08 49.00 0.0
 1.5s 22.00nm 4.8mb
 Z 15s 0.69um 4.5MszX
 E 15s 0.86um

GTA 34.28 294 eP 08 56.00 -1.1
 1.0s 8.00nm 4.6mb
 Z 16s 0.80um 4.5MszX
 E 15s 0.49um

MOY 35.17 315 eP 09 05.00 0.7
 ILT 42.28 21 eP 09 56.00 -7.2X
 WMO 43.18 301 P 10 12.00 0.9
 2.0s 34.00nm 4.7mb
 Z 16s 0.52um 4.5MszX

ELT 44.29 315 eP 10 19.40 -0.4
 2.0s 37.00nm 4.8mb
 Z 15s 0.60um 4.6MszX
 sP 10 25.00
 10 19.40

NRI 47.37 337 eP 10 43.00 -1.1
 2.0s 37.00nm 5.0mb
 Z 16s 0.50um 4.6MszX
 E 16s 0.50um

GUN 47.90 280 P 10 49.40 0.2
 PKI 48.40 280 P 10 52.40 -0.7
 KKN 48.44 280 P 10 53.00 -0.2
 0.8s 24.00nm 5.3mb

DMN 48.64 280 P 10 54.08 -0.8
 GKN 48.90 281 P 10 56.50 -0.2
 PRZ 50.09 301 eP 11 07.00 1.3
 1.0s 20.00nm 5.1mb

Z 18s 0.50um 4.6Msz
 CRP 50.84 35 eP 11 10.28 -0.8
 WB2 52.52 189 iPc 11 22.30 -1.7
 0.6s 20.20nm 5.3mb

WRA 52.52 189 P 11 22.80 -1.2
 0.5s 7.70nm 4.9mb
 FRU 52.76 302 eP 11 26.00 0.3
 FBA 52.98 30 eP 11 26.90 -0.1

ASPA 56.24 188 iPc 11 51.00 -0.2
 0.6s 10.50nm 5.0mb
 Z 23s 0.10um 3.8MszX

HYB 58.31 271 eP 12 05.40 -0.6
 SVE 58.74 321 ePd 12 08.10 -0.3
 ARU 59.93 320 iPc 12 16.00 -0.6
 1.0s 30.00nm 5.4mb

WARB 59.98 195 eP 12 17.00 -0.3
 0.6s 19.00nm 5.4mb
 MBC 60.92 16 eP 12 22.50 -0.6
 0.8s 3.00nm 4.5mb

GBA 61.08 268 P 12 25.00 0.0
 QUE 62.53 290 eP 12 36.80 2.0
 KOD 62.74 265 eP 12 36.40 -0.2
 STK 63.95 180 eP 12 43.30 -0.4

0.6s 1.80nm 4.3mb
 FORT 64.14 193 eP 12 44.30 -0.7
 MA10 65.87 299 eP 12 57.00 0.7
 YKA 67.75 29 eP 13 06.00 -1.8

0.8s 1.50nm 4.1mb
 DAG 70.38 355 eP 13 23.20 -0.5
 0.5s 3.52nm 4.6mb
 NEW 73.39 43 eP 13 42.20 0.1

1.0s 9.00nm 4.7mb
 GRS 73.83 307 eP 13 45.00 0.0
 1.5s 40.00nm 5.2mb
 LCCM 77.71 43 eP 14 07.00 0.1

HFS 78.34 336 eP 14 08.80 -1.0
 0.5s 1.80nm 4.4mb
 Z 16s 0.11um 4.3MszX

NB2 78.49 338 P 14 10.40 -0.3
 0.9s 6.00nm 4.6mb
 DUG 80.31 48 eP 14 20.77 -0.3
 1.1s 8.06nm 4.6mb

BW06 80.83 45 eP 14 23.14 -0.7
 0.8s 1.98nm 4.1mb
 ARUT 81.26 51 eP 14 27.43 1.3
 MSU 81.67 50 eP 14 28.59 0.3

EMUT 81.78 48 eP 14 29.35 0.4
 SRU 82.37 48 eP 14 31.42 -0.5
 GLA 82.97 55 eP 14 35.79 0.8
 PV09 83.61 48 eP 14 39.03 0.5

PV10 83.74 48 eP 14 39.79 0.7
 PV08 83.87 48 eP 14 41.36 1.5
 PSZ 84.48 325 ePc 14 43.40 1.0
 BRG 85.08 330 iP 14 45.80 0.6

i 14 59.00
 CLL 85.16 330 iPc 14 45.60 0.1
 0.9s 11.00nm 5.0mb
 LPL 92.28 330 eP 15 20.10 0.2

0.7s 3.40nm 4.9mb
 LPG 92.29 330 eP 15 20.30 0.3
 0.7s 5.85nm 5.1mb
 SMF 92.55 332 eP 15 20.80 0.0

0.7s 3.95nm 5.0mb
 AVF 92.62 333 eP 15 21.30 0.2
 0.6s 2.05nm 4.7mb
 MAF 93.39 333 eP 15 25.20 0.5

0.7s 1.75nm 4.6mb
 RJF 94.56 333 eP 15 30.60 0.5
 0.8s 4.05nm 4.9mb
 ZOBO 148.68 66 PKP 21 58.00 3.6X

LPB 148.86 67 ePKP 21 55.00 0.6
 CNCB 149.11 67 PKP 21 57.00 2.0X
 S.D. = 0.8 on 70 of 76 obs.

? APR 07, 1993 05h 03m 04.94 ± 4.77s
 38.471 N ± 4.4km 21.973 E ± 13.2km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 2.4 (THE).

AGG 0.62 27 ePg 03 16.78 -0.6
 eSg 03 27.90
 IGT 1.66 310 ePb 03 34.02 -0.2
 LIT 1.68 14 ePb 03 35.34 0.9
 PAIG 1.97 42 ePn 03 39.10 0.4
 OUR 2.43 39 ePn 03 44.70 -0.5
 S.D. = 0.9 on 5 of 5 obs.

? APR 07, 1993 05h 31m 50.73 ± 2.96s
 6.993 N ± 14.7km 72.807 W ± 39.4km
 DEPTH = 198.4 ± 38.2 km
 3.6mb (4 obs.)

NORTHERN COLOMBIA (99)

SDV 2.86 49 iPnc 32 39.50 0.2
 iSn 33 17.10
 TOV 4.07 47 ePn 32 54.60 0.6
 iPP 33 34.90
 iSn 33 42.70

CEOS 4.87 65 iP 33 03.30 -0.9
 iS 33 53.90
 ZOBO 23.57 169 eP 36 45.00 -0.4
 e 37 17.00

LPB 23.83 169 eP 36 49.00 1.3
 CNCB 24.13 169 P 36 50.00 -0.7
 ALQ 41.60 317 e(P) 39 20.10 -0.9
 0.7s 0.51nm 3.2mb

BW06 48.13 324 iP 40 13.11 0.3
 1.0s 1.67nm 3.4mb
 YKA 63.21 340 eP 42 00.20 0.5
 0.5s 2.70nm 4.3mb

MBC 73.69 350 eP 43 06.50 2.6X
 0.5s 1.00nm 3.8mb
 WB2 150.68 241 iPKPd 51 22.10 6.5X
 0.5s 4.40nm

WRA 150.69 241 PKP 51 22.90 7.2X
 0.4s 0.40nm
 S.D. = 1.0 on 9 of 12 obs.

APR 07, 1993 06h 55m 03.29 ± 0.34s
 19.304 S ± 5.2km 70.377 W ± 7.9km
 DEPTH = 56.4km (12 depth phases)
 4.9mb (11 obs.)

NEAR COAST OF NORTHERN CHILE (122)
 Felt (IV) at Putre; (III) at
 Iquique and Cuya. Landslides
 occurred along the A5 highway.
 Also felt (IV) at Tacna, Peru.

ARE 3.02 339 iPd 55 51.50 1.5
 iS 56 28.30
 CNCB 3.37 43 P 55 56.20 1.0
 LPB 3.51 39 P 55 58.00 1.0

ZOBO 3.70 36 iPd 56 01.00 1.1
 ANT 4.38 180 eP 56 06.50 -2.3
 iS 57 11.50
 CCH 4.46 65 P 56 09.30 -1.0

i 56 23.60
 YJA 5.38 123 ePc 56 23.00 -0.4
 SLA 7.05 141 e(P) 56 44.70 -1.7
 e 56 49.50

FSA 7.86 150 e(P) 57 00.20 2.8
 SIV 9.46 71 Pd 57 27.20 7.5X
 NNA 9.57 319 eP 57 21.00 -0.2
 0.6s 14.67nm 5.2mb

eS 00 04.50
 CFA 12.40 171 e(P) 58 00.20 0.9
 RTCV 12.61 173 ePc 58 04.00 1.9
 TCA 13.07 158 e(P) 58 07.00 -1.2

PPD 18.05 102 eP 59 07.10 -4.7X
 e 59 22.60
 VAO 22.13 104 eP 59 49.80 -5.9X
 e 59 52.60

MYNC 55.63 346 eP 04 33.66 -2.1
 0.8s 8.37nm 4.8mb
 MIAR 57.92 337 eP 04 49.94 -2.0
 0.8s 9.23nm 5.0mb

iPP 05 05.38 58km
 RSNY 63.65 357 eP 05 28.84 -1.9
 0.8s 16.38nm 5.1mb
 GAC 64.86 356 eP 05 38.00 -0.5

LMN 65.04 4 ePc 05 40.00 0.3
 pP 05 55.50 56km
 CBM 65.95 2 eP 05 43.58 -1.9
 0.8s 9.02nm 4.8mb

epP 05 59.16 57km
 EEO 66.10 353 eP 05 47.50 1.0

GOL 67.18 331 iPc 05 53.36 -0.5
0.8s 6.19nm 4.7mb
SRU 69.19 328 iPc 06 06.36 0.1
KIC 69.45 75 P 06 03.40 -4.7X
MSU 69.60 326 iPc 06 09.45 0.6
epP 06 25.04 56km
esP 06 31.49
ARUT 69.75 325 ePc 06 11.00 1.4
epP 06 26.59 56km
EMUT 69.87 328 eP 06 10.27 -0.2
epP 06 26.27 58km
GSC 69.91 321 eP 06 11.85 1.2
RSSD 70.23 335 eP 06 12.04 -0.5
0.6s 4.43nm 4.6mb
SPA 70.82 180 iPd 06 16.30 0.5
1.0s 22.50nm 5.1mb
DUG 71.17 327 P 06 19.22 1.0
1.0s 7.20nm 4.6mb
BW06 71.54 331 eP 06 19.34 -1.2
0.5s 1.15nm 4.1mb
HVV 72.33 328 eP 06 25.00 -0.1
ULM 72.82 343 ePd 06 28.60 1.0
JAO 72.95 357 eP 06 25.50 -2.8
pP 06 41.00 56km
ARN 74.12 320 eP 06 36.94 1.4
epP 06 52.61 56km
LCCM 74.96 331 eP 06 40.40 0.1
ORV 75.53 322 eP 06 44.95 1.4
epP 07 00.13 54km
LGPM 77.18 322 eP 06 53.36 0.5
epP 07 09.40 57km
esP 07 19.27
DPW 79.40 329 eP 07 05.51 0.7
epP 07 21.06 55km
RMW 80.90 327 eP 07 12.45 -0.4
epP 07 28.80 58km
FRB 82.79 1 eP 07 21.00 -1.1
YKA 88.67 341 eP 07 50.50 -0.8
0.9s 13.10nm 5.2mb
WB2 134.08 213 iPd 11 21.00 5.0X
0.5s 3.80nm
WB2 134.08 213 iPKPc 14 16.40 -0.4
0.6s 4.90nm
i 14 32.20
WRA 134.08 213 Pd 11 21.40 5.4X
0.5s 1.10nm
WRA 134.08 213 PKP 14 17.00 0.2
0.6s 2.30nm
KOD 147.68 102 ePKP 14 43.00 1.5
MAT 149.62 310 ePKP 14 48.00 4.4X
0.9s 15.97nm
HYB 150.47 89 ePKP 14 49.50 4.2X
S.D. = 1.3 on 44 of 52 obs.

& APR 07, 1993 06h 55m 24.16s
32.896 N 118.467 W
DEPTH = 10.2km
OFF COAST OF CALIFORNIA (38)
<PAS-P>. ML 3.5 (PAS).

PLM 1.42 71 iPc 55 48.62 -1.6
S 56 06.47
SSK 1.46 26 iPd 55 49.74 -1.0
S 56 08.08
PEC 1.48 47 ePc 55 49.71 -1.1
S 56 07.35
ISA 2.76 360 eP 56 08.21 -1.1
GSC 2.77 29 ePn 56 07.88 -1.5
GLA 3.06 86 ePn 56 09.42 -4.1
TPNV 4.43 24 (P) 56 32.00 -1.1
TNP 5.27 11 (P) 56 42.72 -2.4
ARUT 6.38 39 (P) 56 56.18 -4.5
9 obs. associated

% APR 07, 1993 07h 01m 25.23±0.63s
26.904 S ± 6.8km 26.835 E ± 5.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

BFS 0.05 278 eP 01 27.40 0.7
S 01 27.90
PRY 0.57 93 eP 01 36.20 -0.5
S 01 43.90
KSR 1.04 3 eP 01 45.10 -0.3
S 01 58.60
SWZ 1.38 258 eP 01 50.10 -1.1

SEK 1.58 154 eP 02 08.20
S 02 14.90 0.0
SLR 1.74 48 eP 01 57.20 0.7
S 02 19.50
BLF 2.27 194 eP 02 04.50 0.4
S.D. = 0.8 on 7 of 7 obs.

% APR 07, 1993 07h 08m 02.14±0.87s
26.380 S ± 6.7km 27.496 E ± 9.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY 0.55 182 eP 08 12.20 -0.9
S 08 18.30
KSR 0.74 313 eP 08 16.50 -0.5
S 08 24.00
SLR 0.95 48 eP 08 21.00 0.1
S 08 33.50
SEK 1.94 177 eP 08 36.80 0.6
S 08 59.20
SWZ 2.10 247 eP 08 39.30 0.8
S 09 01.30
BLF 2.96 203 eP 08 54.00 3.2X
S 09 30.00
S.D. = 1.0 on 5 of 6 obs.

* APR 07, 1993 07h 41m 16.47±0.83s
22.794 S ± 8.6km 66.341 W ± 11.8km
DEPTH = 263.4 ± 14.1 km
JUJUY PROVINCE, ARGENTINA (128)

YJA 0.99 51 iPd 41 53.00 -0.7
S 42 18.00
SLA 2.08 158 iPd 42 02.00 0.8
FSA 3.29 175 iP 42 14.00 0.8
ANT 3.86 256 eP 42 18.50 -1.2
S 43 03.00
CCH 5.39 2 P 42 38.80 0.5
CNCB 6.15 345 P 42 48.50 0.6
S 43 58.00
LPB 6.45 345 P 42 52.20 0.7
ZOBO 6.70 345 P 42 54.20 -0.7
S 44 11.20
PPD 13.92 90 (P) 44 23.00 -1.5
e 44 27.80
VAO 17.85 94 eP 45 09.70 0.7
S.D. = 1.1 on 10 of 10 obs.

APR 07, 1993 08h 17m 05.97±0.57s
22.803 N ± 7.4km 121.002 E ± 9.5km
DEPTH = 10.0km (geophysicist)
4.2mb (11 obs.)
TAIWAN REGION (243)
ML 4.4 (BJI).

BBP 2.51 159 ePd 17 44.50 -3.0
QZH 3.07 314 ePn 17 54.50 -0.8
Pg 18 01.20
BAG 6.37 184 eP 18 47.00 4.6X
GZH 7.06 274 eP 18 52.20 0.3
S 20 16.00
SSE 8.26 1 P 19 08.00 -0.7
Z 12s 0.90um
pP 19 11.50
S 20 37.50
NJ2 9.41 349 Pd 19 22.00 -2.5
E 11s 1.71um
S 21 11.50
QIZ 11.08 252 eP 19 47.00 -0.6
GYA 13.54 288 P 20 21.60 0.9
TIY 16.59 336 eP 21 04.00 3.8X
Z 14s 1.19um
N 10s 0.54um

CD2 17.36 301 eP 21 12.80 2.8X
BJI 17.67 348 eP 21 26.00 12.3X
HHC 19.68 338 eP 21 39.80 1.5
1.0s 11.00nm 4.1mb
LZH 19.92 315 eP 21 44.50 3.6X
1.5s 16.00nm 4.1mb
Z 10s 0.32um 4.9mszX
E 10s 0.23um
S 21 50.50
BTO 20.02 335 eP 21 45.00 3.1X
N 11s 0.22um
E 12s 0.26um

MAT 20.23 44 (P) 21 46.00 2.0
1.0s 12.00nm 4.2mb
GTA 24.46 317 P 22 27.00 0.7
1.0s 5.00nm 4.1mb
WRA 44.44 162 P 25 19.60 0.6
0.5s 0.30nm 3.4mb
WB2 44.44 162 iPd 25 19.30 0.3
0.5s 2.70nm 4.4mb
ASPA 47.86 164 eP 25 47.50 1.4
0.9s 4.80nm 4.6mb
WARB 49.00 173 iPc 25 56.00 1.1
MBC 74.64 12 eP 28 46.00 -0.8
1.0s 2.00nm 4.1mb
NB2 79.36 332 P 29 12.80 -0.6
0.8s 3.30nm 4.4mb
GEC2 83.80 321 ePKPc 29 37.60 0.7
0.8s 1.88nm 4.3mb
e 29 40.00
YKA 84.30 23 eP 29 38.70 -0.4
0.7s 0.70nm 4.0mb
S.D. = 1.4 on 18 of 24 obs.

* APR 07, 1993 08h 42m 22.01±0.93s
44.589 N ± 17.3km 149.402 E ± 13.1km
DEPTH = 33.0km (normal)
4.8mb (18 obs.)

KURIL ISLANDS (221)

MAT 11.70 230 eP 45 02.00 -7.6X
1.3s 30.77nm 5.3mb
MDJ 14.12 277 eP 45 38.10 -3.5X
CN2 17.19 276 eP 46 22.20 1.2
0.8s 48.00nm 4.7mb
YAK 20.90 334 eP 47 08.10 4.6X
1.0s 96.00nm 5.1mb
TIA 25.83 262 eP 47 52.00 0.1
HHC 27.88 276 eP 48 10.00 -0.8
1.0s 17.00nm 4.7mb
TIY 28.49 269 eP 48 17.00 0.8
LZH 35.36 272 Pc 49 16.50 0.0
1.2s 36.00nm 5.2mb
GTA 36.75 280 eP 49 28.00 -0.2
1.0s 18.00nm 4.9mb
CD2 38.10 265 iPd 49 39.40 -0.1
0.6s 23.00nm 5.2mb
MBC 47.50 19 eP 50 55.00 -0.2
GUN 52.58 274 P 51 34.40 -0.7
KKK 53.08 274 P 51 38.20 -0.4
PKI 53.11 274 P 51 38.20 -0.8
DMN 53.31 274 P 51 39.60 -0.7
GKN 53.41 275 P 51 40.40 -0.5
YKA 54.20 35 eP 51 45.00 -1.1
0.7s 1.00nm 4.0mb
WRA 65.68 196 P 53 05.40 0.2
0.7s 0.30nm 3.5mb X
NB2 69.39 340 P 53 26.00 -2.2
0.5s 1.90nm 4.4mb
HFS 69.53 338 eP 53 26.50 -2.5
0.5s 3.20nm 4.6mb
CLL 77.30 334 iPd 54 14.20 -0.2
GEC2 79.20 332 ePd 54 24.90 -0.1
0.5s 1.44nm 4.2mb
e 54 30.70
GRF 79.27 334 eP 54 26.30 1.0
0.8s 5.00nm 4.6mb
FLN 83.36 340 eP 54 47.30 0.5
0.8s 7.40nm 4.9mb
GRR 83.80 341 eP 54 49.90 0.9
0.7s 6.05nm 4.9mb
SMF 84.20 337 eP 54 52.20 1.1
1.0s 8.40nm 4.9mb
AVF 84.20 337 eP 54 52.20 1.2
1.2s 9.80nm 4.9mb
MAF 84.94 338 eP 54 56.30 1.5
0.8s 5.50nm 4.8mb
TCF 84.97 338 eP 54 56.90 1.9
0.8s 4.15nm 4.7mb
S.D. = 1.1 on 26 of 29 obs.

* APR 07, 1993 08h 55m 45.60±1.21s
7.353 N ± 10.5km 77.039 W ± 7.4km
DEPTH = 37.5 ± 13.4 km
4.0mb (2 obs.)

PANAMA-COLOMBIA BORDER REGION (82)
MD 4.2 (UPA).

UPA 2.95 303 iP 56 31.08 -0.1

07d 08h

ECO 3.30 307 iS 57 01.28
 57 09.32
 56 36.28 0.1
 iS 57 15.71
 SDV 6.52 76 ePn 57 23.40 1.5
 iSn 58 37.20
 TOV 7.56 71 eP 57 36.60 0.3
 iS 58 58.50
 CEOS 8.78 78 iP 57 51.10 -2.1
 MORO 9.30 67 eP 58 00.20 -0.2
 ZOBO 25.07 159 P 01 08.90 -0.1
 LPB 25.33 160 P 01 12.00 0.8
 CNCB 25.63 160 P 01 14.00 -0.2
 CCH 26.84 156 eP 01 25.00 -0.1
 MCMT 48.57 326 eP 04 29.00 1.4
 YKA 61.47 341 eP 05 58.90 -1.7
 0.6s 1.00nm 4.1mb
 GEC2 85.01 42 eP 08 20.20 1.5
 0.8s 0.71nm 3.9mb
 WB2 147.10 244 iPKPd 15 24.20 -0.8
 0.6s 3.10nm
 WRA 147.11 244 PKP 15 24.50 -0.5
 0.5s 0.70nm
 GBA 147.20 51 PKP 15 28.00 2.8X
 S.D. = 1.2 on 15 of 16 obs.

& APR 07, 1993 09h 25m 46.37s
 63.275 N 151.107 W
 DEPTH = 15.1km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.5 (AEIC), 3.0 (PMR).

TRF 0.41 64 iP 25 54.63 -0.3
 HUR 0.73 113 eP 26 00.31 0.0
 eS 26 10.64
 RND 1.03 82 eP 26 05.36 0.0
 MCK 1.08 64 eP 26 06.37 0.2
 eS 26 22.47
 SKT 1.31 189 eP 26 09.64 -0.5
 eS 26 26.06
 NEA 1.59 34 eP 26 14.65 0.7
 eS 26 35.73
 PWA 1.73 160 eP 26 15.70 -0.3
 WRH 1.80 47 eP 26 15.85 -1.1
 GH0 1.82 145 eP 26 17.00 -0.4
 SUA 1.83 175 eP 26 18.05 0.5
 eS 26 42.72
 PLRM 1.92 151 eP 26 19.03 0.2
 PMR 1.92 151 ePc 26 18.30 -0.5
 SML 1.95 138 eP 26 18.81 -0.5
 CCB 2.00 45 eP 26 18.30 -1.7
 CRP 2.07 194 eP 26 20.63 -0.5
 eS 26 48.16
 CPAM 2.08 194 eP 26 21.21 -0.1
 eS 26 48.79
 CP2 2.09 195 eP 26 20.95 -0.5
 8GL 2.11 197 eP 26 21.17 -0.4
 KKN 2.12 194 eP 26 21.77 0.1
 CKT 2.14 194 eP 26 21.91 -0.2
 SPU 2.15 192 eP 26 21.93 -0.2
 eS 26 49.72
 HDA 2.16 56 eP 26 21.60 -0.7
 PMS 2.16 160 eP 26 21.90 -0.4
 CKL 2.16 196 eP 26 21.90 -0.5
 eS 26 50.35
 FBA 2.19 40 eP 26 24.80 2.2
 TTA 2.26 263 ePc 26 24.10 0.4
 SCM 2.27 128 eP 26 24.15 0.2
 GLM 2.37 42 eP 26 25.43 0.1
 NKA 2.54 181 eP 26 30.01 2.4
 PAX 2.58 94 P 26 29.14 0.8
 PTE 2.61 157 eP 26 29.36 0.7
 SDG 2.66 104 eP 26 29.86 0.5
 SLKM 2.81 171 eP 26 32.11 0.6
 MPA 2.92 163 eP 26 33.89 0.9
 RS1 2.93 196 eP 26 34.37 1.0
 RED 2.97 196 eP 26 35.74 1.9
 KLU 3.01 124 eP 26 35.09 0.8
 IMA 3.02 340 eP 26 32.00 -2.5
 SVW 3.03 226 eP 26 37.70 3.0
 VLZ 3.10 132 eP 26 36.22 0.6
 HIN 3.62 141 eP 26 42.69 -0.4
 CNFM 3.76 181 eP 26 44.47 -0.6
 GLB 3.87 115 eP 26 47.22 0.7
 SGAM 3.94 132 eP 26 48.10 0.6

44 obs. associated

APR 07, 1993 09h 36m 45.22±0.76s
 40.517 N ± 8.5km 21.937 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.2 (THE).

FNA 0.50 302 ePg 36 54.20 -1.2
 eSg 37 04.96
 GRG 0.56 39 ePg 36 56.84 0.2
 LIT 0.59 134 iPg 36 55.48 -1.8
 eSg 37 05.96
 KNT 0.97 48 ePg 37 04.04 0.3
 OHR 1.05 305 ePn 37 05.00 0.0
 SOH 1.12 74 ePg 37 06.72 0.5
 OUR 1.57 96 ePb 37 13.60 0.4
 IGT 1.58 232 ePb 37 14.96 1.7
 S.D. = 1.3 on 8 of 8 obs.

* APR 07, 1993 10h 08m 05.68±1.08s
 6.825 N ± 10.9km 73.119 W ± 9.2km
 DEPTH = 158.2 ± 11.1 km
 4.1mb (3 obs.)
 NORTHERN COLOMBIA (99)
 MD 4.7 (UPA).

SDV 3.20 50 iPnd 08 58.00 1.3
 iSn 09 35.90
 TOV 4.42 48 ePg 09 13.30 0.9
 iSn 10 03.40
 CEOS 5.22 65 iPc 09 21.80 -1.3
 iS 10 19.00
 MORO 6.22 49 eP 09 44.20 7.8X
 UPA 6.71 289 eP 09 41.66 -1.2
 eS 10 54.24
 ECO 6.98 292 eP 09 45.72 -0.9
 eS 11 01.33
 ZOBO 23.47 168 P 13 03.00 0.2
 LPB 23.73 168 eP 13 07.00 1.9
 CNCB 24.03 168 P 13 08.20 0.1
 LMN 39.54 9 eP 15 26.50 3.9X
 EEO 40.00 354 eP 15 30.50 4.2X
 JAQ 46.89 358 eP 16 22.00 0.4
 ULM 47.28 340 ePd 16 28.40 3.6X
 BW06 48.08 324 eP 16 32.02 0.7
 1.0s 2.47nm 3.8mb
 MCMT 51.22 324 eP 16 56.80 1.5
 FCC 54.27 347 eP 17 19.50 2.3
 YKA 63.26 340 eP 18 18.40 -0.8
 0.5s 4.00nm 4.6mb
 TIC 67.57 86 P 18 46.40 -1.3
 LIC 67.60 86 P 18 46.10 -1.7
 KIC 67.87 86 P 18 47.80 -1.7
 MBC 73.80 350 ePd 19 24.70 0.8
 0.9s 3.00nm 4.0mb
 RSO 78.99 330 eP 19 51.06 -2.3
 ASPA 149.12 234 ePKP 27 36.80 3.7X
 0.5s 4.70nm
 WB2 150.33 241 iPKPc 27 40.00 5.1X
 0.3s 12.80nm
 WRA 150.34 241 PKP 27 36.20 1.2
 1.2s 1.00nm
 S.D. = 1.5 on 19 of 25 obs.

? APR 07, 1993 10h 27m 30.40±1.12s
 39.094 N ± 16.6km 27.620 E ± 46.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

Izm 0.75 202 iPg 27 45.10 0.0
 iSg 27 56.60
 EDC 1.27 8 ePn 27 53.50 -0.4
 BNT 1.28 10 iPn 27 54.60 0.4
 KCT 1.29 26 iPn 27 54.20 0.0
 S.D. = 0.6 on 4 of 4 obs.

APR 07, 1993 11h 10m 20.80±0.69s
 41.143 N ± 8.7km 28.469 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

CTT 0.03 278 iPg 10 22.30 -0.5
 DMK 0.86 322 iPg 10 37.80 0.4
 iSg 10 50.00

BNT 0.89 208 iPg 10 38.10 0.2
 YLV 0.90 130 iPg 10 38.10 0.1
 HRT 0.96 109 iPn 10 39.10 0.0
 EYL 1.40 114 ePn 10 46.40 -0.1
 S.D. = 0.4 on 6 of 6 obs.

APR 07, 1993 11h 22m 45.81±0.38s
 35.419 S ± 7.2km 54.023 E ± 6.9km
 DEPTH = 20.7km (4 depth phases)
 5.2mb (16 obs.) 4.6msz (1 obs.)
 SOUTH INDIAN OCEAN (425)

Mw 5.2 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 13C
 Centroid Location:
 Origin Time 11:22:52.8 0.9
 Lat 34.96S 0.17 Lon 54.44E 0.42
 Dep 15.0 FIX Half-duration 1.0
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=-3.36 1.09 Mtt= 2.14 0.95
 Mff= 1.22 1.86 Mrt=-5.44 1.90
 Mrf= 2.48 2.79 Mtf= 0.84 1.30
 Principal Axes:
 T Val= 5.57 P1g=33 Azm=190
 N 1.88 9 286
 P -7.45 55 30
 Best Double Couple: Mo=6.5+10¹⁶
 NP1: Strike=249 Dip=15 Slip=-128
 NP2: 108 79 -81

CRZF 11.12 188 eP 25 44.00 17.4X
 VTY 17.26 339 eP 26 48.70 1.3
 AVY 17.35 340 eP 26 49.10 0.5
 OPO 17.89 338 eP 26 55.50 0.2
 PAF 18.30 144 iP 27 09.00 9.1X
 eS 30 36.00
 GRM 22.73 267 e(P) 28 08.50 20.9X
 SEK 23.47 280 iPc 27 54.60 -0.4
 0.8s 33.00nm 4.9mb
 PRY 24.19 283 e(P) 28 23.00 21.0X
 BLF 24.32 277 eP 28 02.50 -0.7
 KSR 25.14 285 iPd 28 16.00 4.8X
 CER 28.65 264 e(P) 28 51.00 7.9X
 1.0s 100.00nm 5.5mb
 SNA 45.88 203 e(P) 31 09.00 1.0
 0.8s 38.81nm 5.4mb
 KOD 50.52 30 eP 31 46.00 0.9
 BCAA 51.77 313 iPc 31 53.30 -1.0
 1.1s 22.00nm 5.0mb
 GBA 53.56 29 P 32 06.00 -1.5
 SPA 54.76 180 iPd 32 15.50 -0.6
 1.0s 32.50nm 5.3mb
 POO 56.86 23 iPd 32 30.80 -0.6
 HYB 57.47 28 eP 32 35.50 -0.2
 IPM 59.37 58 ePd 32 49.10 0.0
 QUE 66.38 12 eP 33 36.60 1.1
 CHG 68.72 46 eP 33 50.10 -0.1
 ASPA 68.78 104 iPd 33 51.20 0.5
 0.7s 10.10nm 5.1mb
 DMN 69.22 29 P 33 52.40 -1.0
 PKI 69.31 30 P 33 52.60 -1.5
 GKN 69.39 29 P 33 53.20 -1.1
 0.8s 38.00nm 5.6mb
 KKN 69.45 29 P 33 53.40 -1.4
 0.6s 25.00nm 5.5mb
 GUN 69.80 30 P 33 56.40 -0.7
 WB2 71.05 101 iPd 34 05.10 0.5
 0.5s 13.40nm 5.3mb
 MA10 71.53 5 eP 34 07.00 -0.1
 LKO 71.79 296 P 34 09.32 0.3
 LSA 73.61 33 Pd 34 21.00 1.1
 1.4s 26.00nm 5.1mb
 KMI 75.82 45 Pd 34 32.50 0.0
 1.5s 50.00nm 5.3mb
 GYA 79.13 47 P 34 51.00 0.3
 0.8s 16.00nm 5.1mb
 CTA 80.38 108 eP 35 07.00 9.5X
 CD2 80.86 42 P 35 00.20 0.5
 OHR 82.05 335 eP 35 04.50 -1.2
 SKO 82.60 336 iP 35 08.50 0.0
 1.3s 26.00nm 5.2mb
 VRI 84.58 341 ePd 35 20.00 1.5
 WMO 84.61 24 P 35 19.80 1.0
 2.0s 22.00nm 5.0mb
 Z 14s 0.52um 5.1mszX

LZH	B4.92	38	eP	35	27.00	23km	KIS	12.96	11	eP	18	20.00	12.1X	ECOG	23.44	285	eP	20	33.00		20	12.50	2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Z	1.6s	30.00nm	0.25um	35	25.50	14km	VBY	13.47	329	e(Pn)	18	16.10	1.5	EGUA	23.45	284	eP	20	12.20	1.7	20	17.00	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
GTA	85.62	34	P	35	25.00	1.0	VOY	14.02	327	e(P)	18	20.30	-1.6	GUD	24.02	294	eP	20	17.00	0.9	20	06.00	-10.7X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
IMA	145.26	19	ePKP	42	22.70	-0.1	SOP	14.80	337	e(P)	18	38.00	5.9X	PAB	24.08	291	eP	20	06.00	-10.7X	20	28.20	2.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
FBA	147.70	17	ePKP	42	28.90	2.3X	ZST	15.09	339	eP	18	39.90	4.1X	EJIF	25.00	284	eP	20	37.00	-4.8X	20	40.00	-2.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
FCC	148.63	328	ePKPc	42	34.60	6.4X	SPC	15.27	348	eP	18	44.10	5.8X	VAN	26.77	73	eP	20	37.00	-4.8X	20	40.00	-2.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PMR	149.98	22	ePKP	42	35.80	5.6X	KBA	15.53	329	iPd	18	46.20	4.5X	HFS	0.3s	1.20nm		31	19.00		20	44.60	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PMS	150.11	23	ePKP	42	36.40	5.9X	WTTA	16.44	326	iPc	18	56.00	2.8	Z	15s	0.17um		31	19.00		20	44.60	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
YKA	151.98	349	ePKP	42	39.70	6.5X	GEC2	16.80	333	Pn	18	59.40	1.7	MAIO	28.00	76	eP	21	05.00	11.8X	20	52.50	-2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
ULM	153.64	314	ePKP	42	46.50	10.6X	PYA	16.89	50	iP	19	03.00	4.2X	EKA	28.70	326	P	21	09.00	9.9X	20	52.50	-2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
S.D. = 0.9 on 35 of 48 obs.							KHC	17.08	333	eP	19	01.00	-0.2	BCAO	30.39	193	iPd	21	15.00	0.4	20	52.50	-2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
% APR 07, 1993 11h 56m 10.09±0.95s							MTA	17.11	59	eP	19	03.00	1.4	SVE	32.90	36	ePd	21	36.00	-0.2	20	52.50	-2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
39.412 N ± 8.8km 22.758 E ± 11.4km							WET	17.36	332	iPd	19	05	07	1.1	LKO	37.45	236	P	22	14.66	-0.7	FRU	39.10	62	eP	22	31.00	1.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
DEPTH = 10.0km (geophysicist)							PRU	17.47	337	ePd	19	06.00	0.1	TIC															39.18	232	P	22	29.50	-0.4	KIC	39.22	232	P	22	30.20	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
GREECE (364)																																										GRS	17.69	67	eP	19	10.00	1.0	LIC	39.50	232	P	22	32.40	-0.2	Z	21s	0.11um	23	27.50	-0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
ML 1.8 (THE).																																																														MOX	19.05	333	eP	19	24.30	-1.1	NRI	48.82	25	iPc	23	47.00	0.3	1.3s	17.00nm		23	56.00	e	25	36.00	e	25	62.20	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
AGG 0.51 221 ePg 56 20.48 0.0															KSP	17.71	341	eP	19	06.50	-2.4	GKN	50.67	80	P	24	02.20	0.5																																																												DMN	51.21	80	P	24	06.20	0.3	KKN	51.28	80	P	24	06.60	0.2	GBA	51.43	100	P	24	09.00	1.6	PKI	51.47	80	P	24	08.00	0.0	GUN	51.72	80	P	24	09.80	-0.1	MOY	55.56	47	eP	24	39.00	1.6	ZAK	57.29	48	iPc	24	50.00	0.2	1.1s	22.00nm		25	15.10	-1.5	1.0s	13.00nm		25	27.00	0.6	1.4s	21.00nm		25	31.50	15kmX	pEP	26	27.00		MGD	75.85	25	eP	26	47.00	-0.5	ILT	76.50	9	eP	26	51.00	0.1	YKA	78.22	342	eP	27	00.20	-0.4	0.9s	0.70nm		27	00.20	-0.4	S.D. = 1.2 on 96 of 116 obs.	APR 07, 1993 12h 53m 21.89±0.32s							1.315 N ± 4.8km 123.116 E ± 8.0km							DEPTH = 33.0km (normal)							4.9mb (11 obs.) 4.4Msz (3 obs.)							MINAHASSA PENINSULA, SULAWESI (265)																																																																																																																																																																																																																																																																																																																																																					
CRETE (370)							HAU	19.59	320	eP	19	30.80	-0.7	LBF															20.35	315	eP	19	38.40	-1.1	LOR	20.57	315	eP	19	40.50	-1.2																																																																																																																																																		CAF	20.61	308	eP	19	41.70	-0.5	AVF	20.63	314	eP	19	42.50	0.2	0.6s	2.05nm		19	42.10	-0.6	0.9s	6.70nm		19	47.00	3.7X	BGF	20.82	313	eP	19	43.50	-0.8	0.9s	17.05nm		19	43.30	-1.2	1.3s	18.75nm		19	46.50	-0.6	0.8s	4.85nm		19	47.00	-0.2	1.3s	25.25nm		19	46.90	-0.5	0.9s	11.80nm		19	51.70	0.5	1.3s	50.20nm		19	53.10	-0.9	22.03	329	P	19	56.00	-0.4	1.6s	116.70nm		19	59.00	0.7	0.6s	80.00nm		19	59.00	0.7	Z	14s	0.60um		20	09.00		23	57.00		24	10.00		20	20.50	19.6X	22.70	310	eP	20	02.80	-0.3	1.3s	54.15nm		20	07.00	0.5	ETOR	22.46	295	eP	20	20.50	19.6X	MFF	22.70	310	eP	20	02.80	-0.3	1.3s	54.15nm		20	07.00	0.5	MOS	23.06	18	eP	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5	20	07.00	0.5

07d 12h

Z	16s	0.90um	4.5mszX	
MRWA	31.12	192 eP	59 38.00	-1.7
BAL	32.33	190 eP	59 48.30	-2.0
CD2	34.68	330 P	00 11.40	0.6
Z	16s	0.54um	4.4mszX	
		eS	05 32.00	
RMO	37.09	140 eP	00 31.00	-0.2
STK	37.37	154 eP	00 33.60	0.2
	0.7s	3.60nm	4.3mb	
TIY	37.53	346 eP	00 34.00	-0.8
Z	17s	1.08um	4.7mszX	
N	16s	0.72um		
LZH	38.94	335 eP	00 47.50	0.7
	2.0s	30.00nm	4.7mb	
Z	20s	0.55um	4.4msz	
E	12s	0.27um		
		eS	06 40.00	
BJI	39.06	352 eP	00 48.00	0.5
CMS	39.10	148 eP	00 48.00	0.0
BRS	40.36	137 iP	00 58.50	0.1
HHC	40.72	347 eP	01 01.60	0.3
Z	20s	0.75um	4.5msz	
N	19s	0.59um		
E	17s	0.50um		
		eS	07 10.00	
LSA	41.48	316 Pc	01 10.00	1.8
ARMA	41.64	142 eP	01 10.00	1.0
BWA	42.75	149 iPc	01 20.30	2.3
GTA	43.47	334 P	01 24.50	0.6
	2.0s	18.00nm	4.5mb	
Z	16s	0.86um	4.7mszX	
E	12s	0.21um		
		S	07 52.00	
CAN	43.75	149 iPc	01 27.00	1.0
GUN	44.36	310 P	01 31.00	0.3
	0.8s	31.00nm	5.2mb	
PKI	44.55	309 P	01 34.00	0.9
KKN	44.76	309 P	01 34.40	-0.2
DMN	44.80	309 P	01 35.00	0.0
	0.8s	25.00nm	5.1mb	
GKN	45.36	309 P	01 39.40	0.1
	0.8s	19.00nm	5.1mb	
HYB	46.62	293 eP	01 55.00	5.7X
GBA	46.81	287 P	01 51.00	0.3
WMO	52.74	328 P	02 36.20	0.3
IRK	53.16	346 eP	02 38.00	-0.8
	2.2s	38.00nm	5.0mb	
Z	15s	0.34um	4.5mszX	
		LR	25 15.00	
YAK	60.76	4 eP	03 30.80	-1.7
	0.7s	27.00nm	5.5mb	
MAIO	68.15	309 eP	04 21.00	-0.3
S.D. = 1.1 on 35 of 40 obs.				
% APR 07, 1993 14h 11m 24.57±1.00s				
18.346 N ±16.6km 66.459 W ±7.3km				
DEPTH = 33.0km (normol)				
PUERTO RICO REGION (90)				
APR	0.28	292 P	11 33.00	1.0
PORP	0.34	210 P	11 34.00	1.2
LRS	0.37	262 P	11 32.50	-0.8
		S	11 43.00	
LPR	0.56	94 P	11 35.70	-0.4
		S	11 48.00	
CPD	0.60	121 P	11 36.70	0.1
		S	11 48.00	
MGP	0.69	241 P	11 36.80	-1.0
		S	11 38.10	
S.D. = 1.2 on 6 of 6 obs.				
& APR 07, 1993 14h 32m 23.53s				
58.254 N 151.440 W				
DEPTH = 17.5km				
2.6mb (1 obs.)				
KODIAK ISLAND REGION (13)				
<AEIC>. ML 2.9 (AEIC).				
SYI	0.61	306 iP	32 34.78	-0.6
		eS	32 43.46	
KDC	0.76	228 ePd	32 36.14	-1.7
		eS	32 46.31	
XLV	1.21	353 eP	32 44.18	-1.4
CNPM	1.28	5 iP	32 44.87	-1.7
		eS	33 01.09	
AUE	1.50	319 eP	32 48.28	-1.3
AUI	1.50	317 eP	32 47.73	-1.9

AUH	1.53	318 eP	32 48.85	-1.2
AUL	1.54	318 eP	32 49.27	-0.9
AUW	1.54	318 eP	32 48.68	-1.5
BRK	1.54	10 eP	32 48.23	-2.1
		eS	33 07.19	
OPT	1.68	327 eP	32 50.51	-1.8
MCNL	1.78	303 eP	32 52.01	-1.7
INE	2.00	336 eP	32 54.49	-2.5
INW	2.02	335 eP	32 54.78	-2.5
PDB	2.10	318 eP	32 55.46	-2.8
SEW	2.12	28 iP	32 55.55	-3.1
		eS	33 18.41	
RED	2.28	343 eP	32 57.88	-3.1
RS1	2.31	344 eP	32 58.70	-2.9
RSO	2.32	344 iP	32 58.70	-2.9
RS2	2.32	344 iP	32 58.73	-2.9
REF	2.33	344 iP	32 58.89	-3.0
SLKM	2.35	15 eP	32 58.92	-3.0
		eS	33 25.34	
MPA	2.48	25 eP	33 00.61	-3.1
		eS	33 27.37	
PTE	2.89	24 eP	33 06.39	-3.2
SPU	2.95	354 eP	33 06.99	-3.5
		eS	33 41.23	
CKT	2.98	353 eP	33 07.68	-3.3
		eS	33 41.74	
CKL	2.99	352 iP	33 07.91	-3.1
CKN	3.00	353 eP	33 08.52	-2.7
CP2	3.05	353 eP	33 08.12	-3.9
BGL	3.06	351 eP	33 08.97	-3.1
PMS	3.15	17 P	33 10.30	-3.0
SUA	3.24	6 eP	33 11.35	-3.3
HIN	3.32	48 eP	33 12.14	-3.6
PLRM	3.54	18 P	33 14.80	-4.1
PMR	3.55	18 (P)	33 13.98	-4.9
SVW	3.56	325 eP	33 14.35	-4.8
CVA	3.71	49 eP	33 17.55	-3.6
SKT	3.74	359 eP	33 18.08	-3.6
VLZ	3.88	40 eP	33 20.26	-3.3
SML	3.89	22 eP	33 20.76	-3.1
SGAM	3.90	52 iP	33 20.52	-3.4
RAGM	4.07	55 eP	33 22.39	-4.0
SCM	4.14	28 eP	33 24.31	-3.1
KLU	4.28	38 eP	33 25.99	-3.4
SNH	4.82	63 eP	33 33.67	-3.4
CROM	4.92	56 eP	33 34.75	-3.8
GLB	5.00	47 eP	33 35.67	-3.9
TGL	5.05	57 eP	33 36.09	-4.2
BALM	5.39	55 eP	33 40.92	-4.2
YAH	5.40	63 eP	33 41.91	-3.5
YKA	18.52	61 eP	36 37.40	-3.0
	0.5s	0.20nm	2.6mb	
51 obs. associated				
APR 07, 1993 14h 33m 36.87±0.60s				
48.025 N ±4.1km 7.058 E ±5.7km				
DEPTH = 5.0km (geophysicist)				
FRANCE (538)				
ML 1.7 (STR).				
MOF	0.18	164 Pg	33 40.62	0.0
		Sg	33 43.24	
ECH	0.20	19 Pg	33 41.29	0.3
		Sg	33 44.17	
CDF	0.41	21 Pg	33 45.29	0.1
WLS	0.44	27 Pg	33 45.70	0.1
FEL	0.66	103 Pg	33 49.62	-0.4
LOMF	0.69	193 Pg	33 51.11	0.4
VITF	0.74	285 Pg	33 51.37	-0.4
S.D. = 0.4 on 7 of 7 obs.				
% APR 07, 1993 15h 10m 25.54±0.64s				
40.368 N ±6.5km 27.925 E ±5.9km				
DEPTH = 10.0km (geophysicist)				
TURKEY (366)				
MD 2.9 (ISK).				
BNT	0.01	199 iPg	10 27.50	0.1
EDC	0.05	246 iPg	10 27.50	-0.2
		iSg	10 28.50	
KCT	0.35	110 iPg	10 32.40	-0.4
		eSg	10 37.90	
CTT	0.87	26 iPg	10 41.60	-0.6
		eSg	10 53.10	
YLV	1.12	79 iPn	10 47.00	0.4
DMK	1.46	355 ePn	10 52.30	0.4

EYL	1.71	83 ePn	10 56.00	0.3
S.D. = 0.5 on 7 of 7 obs.				
APR 07, 1993 15h 24m 40.88±0.89s				
44.124 N ± 9.0km 128.622 W ± 6.5km				
DEPTH = 10.0km (geophysicist)				
3.8mb (6 obs.)				
OFF COAST OF OREGON (30)				
BMW	4.47	56 eP	25 49.09	-1.2
SHW	4.97	63 eP	25 56.15	-1.2
VBEM	5.11	77 P	25 59.00	-0.5
VFP	5.24	74 P	26 00.43	-0.8
HDW	5.25	46 P	26 02.36	1.1
GULW	5.30	68 P	26 01.92	-0.1
GMW	5.32	48 eP	26 01.74	-0.6
ASR	5.37	65 P	26 01.88	-1.2
RVC	5.46	57 P	26 05.15	0.9
LON	5.47	59 eP	26 03.13	-1.3
GLK	5.51	61 P	26 05.47	0.3
WPW	5.61	60 P	26 05.57	-0.9
FMW	5.63	58 P	26 07.10	0.2
GSM	5.69	55 P	26 09.49	1.9
VGB	5.75	73 eP	26 06.67	-1.7
GL2	5.82	69 P	26 08.73	-0.7
MCW	6.06	39 eP	26 12.54	-0.2
CMW	6.23	44 P	26 16.11	1.0
EBG	6.31	61 P	26 19.53	3.3X
TBM	6.40	59 P	26 18.81	1.3
MBW	6.58	43 P	26 21.00	0.8
ETW	6.75	56 P	26 25.38	2.8X
BGMT	11.86	79 eP	27 35.40	2.2
MSU	13.57	109 eP	27 55.73	-0.2
PV09	15.67	104 eP	28 24.31	0.7
PV08	15.98	103 (P)	28 26.75	-0.8
RSSD	17.64	81 (P)	28 50.56	2.1
	1.1s	4.86nm	3.5mb	
YKA	20.13	19 eP	29 15.80	-1.7
	0.8s	3.50nm	3.7mb	
SLKM	20.89	329 eP	29 24.98	-0.5
CRP	22.11	329 ePd	29 38.06	0.2
INK	24.38	356 eP	30 05.00	5.3X
TTA	24.57	330 (P)	30 02.26	0.5
	0.9s	1.76nm	3.7mb	
WMOK	24.77	102 eP	30 03.79	-0.1
	1.0s	18.99nm	4.7mb	
MEQ	24.88	102 iPc	30 05.20	0.2
IMA	25.90	337 (P)	30 13.65	-0.7
	1.2s	3.26nm	3.9mb	
MBC	32.46	4 eP	31 14.00	1.1
	0.9s	2.00nm	4.0mb	
S.D. = 1.1 on 33 of 36 obs.				
? APR 07, 1993 16h 12m 50.81±1.11s				
6.731 S ± 8.0km 147.005 E ±15.4km				
DEPTH = 10.0km (geophysicist)				
4.2mb (1 obs.)				
EASTERN NEW GUINEA REG., P.N.G. (207)				
LAT	0.07	357 iPc	12 52.80	-0.3
YYYY	1.14	295 eP	13 12.30	0.1
MDG	1.91	320 eP	13 24.00	0.3
PMG	2.66	177 eP	13 35.00	0.5
		eS	14 17.00	
ASPA	21.03	215 eP	17 36.60	-0.7
	0.7s	8.10nm	4.2mb	
S.D. = 0.7 on 5 of 5 obs.				
? APR 07, 1993 16h 34m 02.75±1.20s				
39.236 N ±14.5km 27.739 E ±39.6km				
DEPTH = 10.0km (geophysicist)				
TURKEY (366)				
MD 2.7 (ISK).				
IZM	0.92	204 ePg	34 20.30	0.0
		iSg	34 32.80	
EDC	1.11	5 ePn	34 23.50	-0.1
KCT	1.12	25 iPn	34 23.70	0.0
BNT	1.13	7 ePn	34 24.00	0.1
S.D. = 0.2 on 4 of 4 obs.				
APR 07, 1993 16h 36m 03.28±0.21s				
44.422 N ± 1.6km 7.223 E ± 2.6km				
DEPTH = 10.0km (geophysicist)				
NORTHERN ITALY (545)				
ML 2.4 (LDG), 2.2 (GEN).				

D01	0.08	11	Pd	36	06.10	0.2	CNCB	24.05	169	P	55	20.00	-0.1	INK	25.30	33	eP	16	34.50	-0.2
			eSg	36	07.70		ULM	47.32	340	eP	58	37.50	1.0		0.6s		5.00nm			4.3mb
PZZ	0.12	314	Pd	36	06.36	-0.1	FRB	56.80	2	eP	59	45.50	-1.0	MBC	32.16	21	eP	17	35.00	-1.3
			S	36	08.12		YKA	63.30	340	eP	00	29.00	-1.7	YKA	32.47	47	eP	17	38.20	-0.9
STV	0.19	158	Pd	36	07.54	0.0		0.6s		4.50nm			4.5mb		0.5s		0.40nm			3.6mb
			S	36	09.99		TIC	67.18	86	P	00	56.30	-0.1	BW06	42.73	76	eP	19	05.91	0.1
ENR	0.24	144	Pd	36	08.39	-0.1	LIC	67.21	86	P	00	56.60	0.1		1.1s		4.57nm			4.1mb
			S	36	11.51		KIC	67.48	86	P	00	58.40	0.2	FCC	43.18	48	eP	19	11.50	2.5
TOUF	0.41	177	Pg	36	11.55	-0.2	INK	73.06	340	eP	01	31.50	0.7	SRU	44.29	81	eP	19	19.64	1.2
BHB	0.42	4	P	36	11.82	-0.1	MBC	73.77	350	eP	01	35.00	0.2	RSSD	45.27	71	(P)	19	26.63	0.3
			S	36	17.44			0.6s		2.00nm			4.0mb	FNO	54.79	76	iPc	20	36.90	-2.0
AUTN	0.45	161	Pg	36	12.44	-0.1	ASPA	149.49	234	ePKP	09	47.30	3.0X	LTX	54.97	86	ePc	20	39.43	-1.0
			Sg	36	19.00			0.6s		7.10nm				LMN	65.02	47	eP	21	50.50	1.6
ROB	0.48	105	P	36	13.38	0.3	WB2	150.71	241	iPKPc	09	50.60	4.4X	KMI	67.35	282	eP	22	05.00	0.7
			S	36	20.11			0.3s		14.00nm				GUN	75.19	296	P	22	51.40	-0.1
SAOF	0.50	151	Pg	36	13.21	-0.2				e	10	32.90			0.6s		17.00nm			5.2mb X
			Sg	36	19.70		WRA	150.72	241	PKP	09	47.00	0.8	KKN	75.62	296	P	22	53.20	-0.5
AURF	0.54	172	Pg	36	13.95	-0.3		1.0s		0.70nm				PKI	75.72	296	P	22	54.20	-0.2
SBF	0.58	165	Pg	36	14.80	-0.3		S.D. = 0.8	on 13 of 16 obs.					GKN	75.82	297	P	22	54.20	-0.6
			Sg	36	22.90										0.4s		7.00nm			5.0mb X
RRL	0.59	328	P	36	14.69	-0.7	* APR 07, 1993	17h 09m	01.22 ± 3.93s					DMN	75.86	296	P	22	55.20	0.1
			S	36	22.86			13.861 S ± 28.4km	166.923 E ± 13.0km					GEC2	79.90	356	ePc	23	16.60	-0.2
REVF	0.69	171	Pg	36	17.20	0.2		DEPTH = 101.3 ± 35.0 km							0.7s		0.70nm			3.8mb
IMI	0.70	137	P	36	17.00	-0.2		4.5mb (6 obs.)						WRA	84.75	229	P	23	42.50	0.5
			S	36	26.20		VANUATU ISLANDS			(186)					0.6s		0.30nm			3.7mb
CALN	0.71	200	Pg	36	17.62	0.2									S.D. = 1.2	on 22 of 23 obs.				
RSP	0.73	2	P	36	17.21	-0.5	BKM	3.99	162	iP	10	01.60	0.2	% APR 07, 1993	17h 18m	02.26 ± 0.92s				
			S	36	26.63				iS	10	39.00				41.084 N ± 8.4km	23.308 E ± 6.0km				
FIN	0.74	106	Pd	36	17.77	0.0	DZM	8.18	183	iPc	10	58.60	-0.4		DEPTH = 10.0km	(geophysicist)				
			S	36	27.52				iS	12	25.10				GREECE-BULGARIA BORDER REGION	(363)				
BNI	0.74	328	P	36	17.70	-0.2	BRS	18.86	222	iP	13	17.00	0.8		ML 1.7 (THE).					
			eSg	36	28.40		RMQ	21.15	231	iPd	13	41.10	1.3	SRS	0.22	81	ePg	18	07.10	0.1
CKI	0.76	89	P	36	18.60	0.5		0.7s		37.00nm			4.8mb		eSg	18	10.34			
			eSg	36	29.20		ARMA	21.69	218	eP	13	45.20	-0.1	SOH	0.26	172	ePg	18	07.50	-0.4
PCP	0.95	82	Pd	36	21.94	0.5		0.9s		12.00nm			4.2mb		eSg	18	11.22			
			S	36	34.25		QLP	24.72	236	iPc	14	14.40	-0.1	KNT	0.32	284	iPg	18	08.62	-0.3
FRF	0.96	206	Pg	36	21.20	-0.3	CMS	26.12	224	iPc	14	26.30	-1.2		eSg	18	12.98			
			Sg	36	33.70			0.8s		16.00nm			4.6mb	THE	0.52	210	ePg	18	13.14	0.3
LSD	1.04	357	P	36	23.20	0.2	STK	29.31	228	iPd	14	55.90	-0.5		eSg	18	18.54			
			S	36	36.49			0.5s		9.20nm			4.7mb	GRG	0.70	260	ePg	18	16.26	0.2
LPG	1.13	343	Pg	36	24.90	0.3	WB2	31.71	254	eP	15	17.40	-0.2		eSg	18	25.14			
			Sg	36	40.00			0.7s		2.50nm			4.1mb	OUR	0.91	145	ePg	18	32.57	13.0X
LPL	1.15	343	Pg	36	25.10	0.2	WRA	31.72	254	P	15	17.80	0.1		S.D. = 0.4	on 5 of 6 obs.				
			Sg	36	40.20			0.6s		0.20nm			3.0mb X	* APR 07, 1993	17h 33m	36.08 ± 0.68s				
LRG	1.15	213	Pg	36	25.70	0.9	ASPA	32.68	248	eP	15	25.30	-0.7		3.227 S ± 10.4km	142.834 E ± 12.5km				
			Sg	36	40.50			0.7s		5.60nm			4.5mb		DEPTH = 33.0km	(normal)				
LMR	1.20	206	Pg	36	26.30	0.6	WAR8	39.62	246	eP	16	25.00	0.3		4.2mb (4 obs.)					
			Sg	36	41.10		AP0	129.40	343	ePKP	27	58.10	-1.0		NEAR N COAST OF NEW GUINEA, PNG.(200)					
PGF	2.28	145	Pn	36	40.46	-1.1		0.4s		1.00nm				MDG	3.56	124	eP	34	30.30	-0.1
	S.D. = 0.4	on 27 of 27 obs.					LDF	143.75	345	ePKP	28	24.30	-1.7	WB2	18.56	206	iPc	37	51.80	-0.7
							LBF	144.02	340	ePKP	28	25.90	-0.7		0.4s		10.50nm			4.4mb
								1.0s		6.20nm					eS		41	34.80		
							SSF	144.11	341	ePKP	28	26.40	-0.2	ASPA	22.08	202	iPc	38	31.50	1.4
								1.0s		15.60nm					0.8s		5.10nm			4.0mb
							GRR	144.12	346	ePKP	28	25.80	-0.8	RMQ	23.82	167	iPd	38	48.30	1.2
							LPL	144.27	336	ePKP	28	27.60	0.3		0.5s		6.00nm			4.4mb
							LPG	144.28	336	ePKP	28	27.70	0.3	BRS	25.84	159	iP	39	06.00	-0.4
							SMF	144.36	340	ePKP	28	27.10	0.0	STK	28.53	182	eP	39	29.40	-1.4
							AVF	144.40	340	ePKP	28	27.00	-0.1		0.7s		2.40nm			4.0mb
								1.1s		11.70nm				GUN	62.88	304	P	44	02.20	0.1
							LPF	144.49	346	ePKP	28	27.20	0.0	PKI	63.16	303	P	44	03.60	-0.3
							BGF	144.77	341	ePKP	28	28.30	0.5	KKN	63.34	303	P	44	05.00	0.1
								0.8s		7.00nm				DMN	63.43	303	P	44	05.40	-0.1
							LSF	145.45	342	ePKP	28	30.30	1.3	GKN	63.95	303	P	44	09.00	0.1
							MFF	145.60	344	ePKP	28	30.70	1.5	TIC	147.80	277	(PKP)	53	19.80	2.5X
								0.8s		6.30nm					S.D. = 0.9	on 11 of 12 obs.				
							CAF	146.47	340	ePKP	28	33.70	3.0X	? APR 07, 1993	18h 09m	16.81 ± 5.07s				
							LPO	146.96	341	ePKP	28	34.80	3.3X		44.311 N ± 14.3km	6.820 E ± 34.8km				
							BCAO	147.45	256	iPKPc	28	34.00	0.8		DEPTH = 10.0km	(geophysicist)				
								0.5s		5.00nm				FRANCE			ML 1.5 (GEN).			
										ic	28	37.20								
								S.D. = 0.8	on 26 of 28 obs.											
							* APR 07, 1993	17h 11m	10.17 ± 0.63s											
								51.473 N ± 14.1km	172.897 W ± 7.7km											
								DEPTH = 33.0km	(normal)											
								3.8mb (7 obs.)												
							ANDREANOF ISLANDS, ALEUTIAN IS. (7)													
							ADK	2.39	281	eP	11	48.05	0.2	PZZ	0.28	46	P	09	23.25	0.5
									S	12	15.67		STV	0.37	100	P	09	25.08		
							TTA	14.62	32	(P)	14	38.36	2.1		S		09	24.44	0.0	
								1.0s		5.12nm					S		09	26.87		
							SLKM	15.50	46	eP	14	46.57	-1.2	ENR	0.44	101	P	09	25.31	-0.5
							IMA	17.58	26	eP	15	13.23	-0.7		S		09	28.51		
								0.6s		1.46nm				BHB	0.62	31	P	09	28.88	-0.4
							BALM	19.31	48	eP	15	32.12	-3.0X		S		09	34.37		
														IMI	0.87	117	P	09	33.91	0.3
															S		09	43.62		

07d 18h

S.D. = 0.6 on 5 of 5 obs.
 % APR 07, 1993 18h 09m 36.24±0.83s
 44.421 N ± 8.1km 7.222 E ± 14.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.4 (GEN).

PZZ 0.12 314 P 09 39.39 0.0
 S 09 41.22
 STV 0.19 157 P 09 40.49 0.0
 S 09 42.96
 ENR 0.24 144 P 09 41.45 0.0
 S 09 44.65
 BHB 0.42 4 P 09 44.84 0.0
 S 09 50.47
 IMI 0.70 137 P 09 50.15 0.0
 S 09 59.30

S.D. = 0.0 on 5 of 5 obs.
 % APR 07, 1993 18h 18m 17.98±0.88s
 26.870 S ± 11.1km 26.819 E ± 6.7km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.4 (PRE).

BFS 0.04 228 iPd 18 19.20 -0.2
 S 18 20.50
 PRY 0.59 96 eP 18 29.50 -0.2
 S 18 36.50
 SWZ 1.37 257 eP 18 43.80 0.0
 S 19 02.10
 SEK 1.61 154 eP 18 47.50 0.1
 S 19 09.00
 SLR 1.73 50 eP 18 49.10 0.0
 S 19 12.00

S.D. = 0.2 on 5 of 5 obs.
 APR 07, 1993 18h 59m 21.85±0.54s
 16.259 N ± 9.1km 145.503 E ± 7.1km
 DEPTH = 413.2 ± 7.4 km
 4.4mb (17 obs.)
 MARIANA ISLANDS (216)

GUMO 2.73 193 iPd 00 24.40 0.0
 0.7s 727.30nm
 e 00 25.30
 eS 01 12.50
 PJG 2.73 193 eP 00 24.40 0.0
 GUA 2.76 192 iPd 00 24.30 -0.4
 0.6s 538.67nm
 eS 01 12.20

MAT 21.22 344 (P) 03 38.00 0.5
 0.9s 18.49nm 4.5mb
 CN2 32.30 332 eP 05 17.20 1.1
 TIY 36.11 313 eP 05 49.60 1.3
 GYA 37.44 292 P 06 01.00 1.6
 WB2 37.61 197 iPd 06 00.50 -0.1
 0.3s 4.80nm 4.3mb

CD2 40.70 299 eP 06 26.20 0.3
 ASPA 41.27 196 eP 06 31.10 0.6
 LZH 41.89 306 iPc 06 37.00 1.3
 1.0s 22.00nm 4.5mb
 CHG 44.37 280 eP 06 55.30 -0.1
 YAK 47.05 350 iPc 07 15.10 -0.4
 0.7s 38.00nm 4.9mb

GUN 55.99 293 P 08 21.80 -0.3
 PKI 56.41 293 P 08 24.20 -0.8
 KKN 56.52 293 P 08 24.80 -0.8
 DMN 56.68 293 P 08 26.20 -0.6
 GKN 57.08 293 P 08 28.80 -0.7
 SVW 61.03 28 eP 08 55.12 -0.3
 0.8s 15.15nm 4.6mb

TTA 61.50 26 eP 08 58.06 -0.5
 0.8s 3.53nm 3.9mb
 SLKM 63.38 30 eP 09 09.45 -1.3
 IMA 63.57 23 eP 09 11.58 -0.4
 0.7s 1.77nm 3.8mb
 PMR 64.16 29 eP 09 13.82 -1.8
 0.7s 17.85nm 4.8mb

FBA 65.56 25 eP 09 23.30 -1.2
 0.4s 4.31nm 4.5mb
 KLU 65.64 29 eP 09 24.97 -0.2
 BALM 67.27 30 eP 09 34.75 -0.6
 INK 71.68 23 ePc 10 02.30 0.9
 0.9s 5.00nm 4.1mb
 MBC 75.55 14 eP 10 23.00 -0.3

0.5s 2.00nm 4.1mb
 GMW 79.32 44 eP 10 45.75 1.4
 YKA 80.22 28 eP 10 48.50 -0.1
 0.5s 7.20nm 4.6mb
 TNP 85.71 52 eP 11 17.96 0.9
 0.8s 4.06nm 4.3mb
 PEC 87.00 56 eP 11 23.59 0.5
 0.9s 9.86nm 4.6mb
 HVU 87.78 47 eP 11 28.34 1.5
 DUG 88.29 49 eP 11 30.08 0.8
 0.6s 5.96nm 4.6mb
 GLA 89.11 56 eP 11 33.79 0.7
 EMUT 89.86 48 eP 11 37.51 0.8
 PV08 91.88 49 eP 11 46.72 0.6
 RSSD 92.80 42 eP 11 50.14 0.1
 0.6s 2.80nm 4.5mb
 APO 94.20 338 eP 11 53.60 -2.3
 0.4s 0.90nm 4.3mb
 SLR 121.09 249 ePd113 53.50 -3.1X
 KIC 142.96 305 PKP 18 06.60 -3.0X
 TIC 143.00 306 PKP 18 08.10 -1.6
 LIC 143.26 305 PKP 18 07.10 -3.0X
 ZOBO 147.74 95 PKP 18 22.10 3.9X
 CNCB 147.92 96 PKP 18 23.70 5.3X
 CCH 149.71 97 ePKP 18 17.00 -3.9X
 S.D. = 1.0 on 40 of 46 obs.

% APR 07, 1993 19h 25m 15.07±3.72s
 43.016 N ± 13.7km 18.063 E ± 25.2km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.9 (TTG).

BRY 0.37 108 iPg 25 22.35 -0.4
 iSg 25 31.10
 HCY 0.65 150 iPg 25 27.34 -0.8
 iSg 25 39.55
 NKY 0.72 106 iPg 25 29.14 -0.1
 iSg 25 42.93
 BDV 0.92 142 iPg 25 32.53 -0.2
 iSg 25 49.26
 PLE 1.02 72 iPg 25 33.76 -0.7
 iSg 25 51.21
 TTG 1.06 123 iPg 25 35.45 0.4
 iSg 25 54.15
 IVA 1.36 95 iPg 25 40.49 0.4
 iSg 26 03.24
 ULC 1.37 140 iPg 25 40.65 0.4
 iSg 26 03.65
 PVY 1.47 106 iPd 25 42.76 1.1
 iSn 26 06.98

S.D. = 0.7 on 9 of 9 obs.

% APR 07, 1993 19h 36m 27.79s
 34.005 N 116.352 W
 DEPTH = 4.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.0 (PAS).

PEC 0.68 261 eP 36 40.17 -1.2
 PLM 0.78 213 eP 36 42.53 -0.8
 S 36 52.36
 SSK 1.13 281 eP 36 48.33 -1.3
 S 37 03.79
 GSC 1.35 344 eP 36 51.90 -1.4
 S 37 10.18
 GLA 1.59 126 ePn 36 54.35 -2.5
 ePg 36 57.08
 ISA 2.40 314 ePn 37 07.51 -1.1
 6 obs. associated

* APR 07, 1993 19h 56m 43.74±1.30s
 51.267 N ± 13.9km 15.640 E ± 6.0km
 DEPTH = 5.0km (geophysicist)
 POLAND (548)
 ML 3.6 (GRF), 3.6 (VIE).

KSP 0.59 136 iP 56 53.30 -2.3
 0.2s 58.00nm
 e 56 55.50
 iS 57 03.00
 BRG 1.14 250 iPn 57 06.00 0.5
 iPg 57 07.20
 iSg 57 26.70
 PRU 1.46 209 Pnd 57 11.00 0.3
 0.7s 65.90nm
 Pg 57 13.00

Sn 57 30.30
 Sg 57 37.70
 i 57 46.40
 CLL 1.66 273 iPn 57 11.90 -1.6
 iPg 57 14.80
 eSg 57 41.00
 KHC 2.52 213 Pn 57 26.00 0.0
 e 57 31.50
 e 57 37.40
 Sn 57 57.50
 Sg 58 11.00
 HOF 2.57 250 ePn 57 26.40 -0.4
 MOX 2.62 258 ePn 57 27.90 0.5
 iPg 57 35.20
 iSg 58 15.60
 GEC2 2.73 208 Pn 57 29.50 0.4
 Pg 57 36.00
 Sg 58 18.60
 WET 2.77 221 iPnc 57 30.00 0.4
 OJC 2.84 110 eP 57 30.40 -0.2
 eS 58 06.10
 VKA 3.04 171 iPg 57 40.90 7.5X
 iSg 58 25.10
 ZST 3.22 162 eP 57 58.70 22.8X
 i 58 29.60
 e 58 32.50
 GRF 3.23 243 iPnc 57 36.30 0.2
 ePg 57 49.70
 eSg 58 34.50
 SPC 3.62 123 eP 57 44.30 2.6
 e 58 36.80
 BHG 3.98 208 ePn 57 57.80 11.1X
 KBA 4.45 201 iPnc 57 53.20 -0.4
 i 58 08.70
 i 58 51.50
 iSg 59 13.10
 WTTA 4.79 215 iPnc 57 58.50 0.1
 S.D. = 1.2 on 14 of 17 obs.

% APR 07, 1993 20h 26m 32.50±2.44s
 32.947 S ± 18.3km 71.405 W ± 18.3km
 DEPTH = 33.0km (normol)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 3.7 (SAN).

LCCH 0.55 195 iP 26 44.09 0.3
 iS 26 52.89
 PEL 0.64 108 iP 26 45.64 0.6
 iS 26 55.63
 JACH 0.73 69 iP 26 46.10 -0.4
 iS 26 56.66
 LNV 1.01 180 iP 26 49.86 -0.4
 iS 27 03.95
 FCH 1.01 112 iP 26 50.66 0.0
 iS 27 04.57
 CHCH 1.17 148 eP 26 52.11 -0.5
 S.D. = 0.6 on 6 of 6 obs.

APR 07, 1993 21h 50m 33.49±0.97s
 45.150 N ± 5.7km 14.823 E ± 9.1km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 MD 3.4 (LJU). Felt on Krk
 Island, Croatia.

VBY 0.47 41 iPg 50 43.10 0.1
 iSg 50 51.50
 CEY 0.65 335 ePg 50 44.10 -2.4
 eSg 50 54.10
 LJU 0.92 347 ePg 50 50.60 -0.4
 eSg 51 03.60
 TRI 0.93 307 P 50 51.10 -0.1
 eSg 51 04.20
 VOY 1.10 324 iPg 50 52.10 -2.0
 e 50 56.90
 eSg 51 08.70
 RBL 1.56 326 P 51 01.20 -0.2
 VVI 1.88 297 P 51 05.80 -0.2
 eSn 51 31.50
 FVI 2.03 316 P 51 08.40 0.3
 ARV 2.13 220 P 51 09.20 -0.4
 eSn 51 35.90
 KBA 2.19 332 iPg 51 11.30 0.8
 iSg 51 37.80
 CTI 2.40 293 P 51 13.00 -0.6
 eSn 51 42.50
 SFI 2.45 241 P 51 13.10 -1.1

PGD 2.56 241 P 51 15.00 -0.8
 CRE 2.56 235 P 51 15.90 0.1
 ASS 2.60 218 P 51 17.20 0.9
 WTTA 3.06 315 iPgd 51 25.40 2.5
 WATA 3.14 315 iPgc 51 25.50 1.5
 SOTA 3.25 311 iPgd 51 26.90 1.2
 MOTA 3.39 312 iPgd 51 28.80 1.2
 0.6s 5.30nm
 ZST 3.43 26 eP 52 23.00 55.0X
 GEC2 3.77 349 Pn 51 32.50 -0.6
 KHC 4.07 348 ePn 51 37.50 0.3
 S.D. = 1.2 on 21 of 22 obs.

* APR 07, 1993 21h 58m 48.69±1.48s
 41.700 N ± 9.0km 127.012 W ± 12.5km
 DEPTH = 10.0km (geophysicist)
 3.1mb (1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA (34)

FHC 2.45 110 eP 59 29.19 -0.2
 PGO 5.01 40 P 00 07.21 1.5
 VBEM 5.19 48 P 00 08.70 0.4
 TDH 5.22 45 P 00 10.40 1.5
 VLMM 5.27 42 P 00 09.19 -0.2
 VLL 5.40 44 P 00 11.06 -0.2
 RVW 5.41 33 P 00 11.51 0.1
 BMW 5.50 28 eP 00 12.75 0.1
 MTMW 5.54 37 P 00 12.61 -0.7
 CDFW 5.69 37 P 00 15.29 0.0
 ERK 5.70 35 P 00 15.18 -0.4
 CZM 5.74 33 P 00 16.14 0.1
 SOSW 5.74 36 P 00 16.53 0.5
 GULW 5.76 41 P 00 15.80 -0.5
 KOSW 5.89 34 P 00 18.21 0.1
 ASR 5.92 40 P 00 18.31 -0.3
 CPW 5.96 26 P 00 18.71 -0.4
 GLK 6.22 37 P 00 22.63 -0.3
 LON 6.28 35 P 00 23.43 -0.2
 REMR 6.32 34 P 00 24.34 0.0
 WPW 6.35 36 P 00 24.16 -0.6
 RVC 6.37 33 P 00 24.97 0.1
 FMW 6.48 34 P 00 26.67 0.0
 GSM 6.65 32 P 00 28.82 -0.1
 TBM 7.14 38 P 00 35.41 -0.3
 YKA 22.10 15 eP 03 44.40 -1.0
 0.9s 0.70nm 3.1mb
 MBC 34.80 3 eP 05 42.00 1.0
 S.D. = 0.6 on 27 of 27 obs.

& APR 07, 1993 22h 14m 56.11s
 60.030 N 152.696 W
 DEPTH = 91.4km
 3.4mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>

INE 0.19 280 iPd 15 08.76 0.7
 INW 0.22 280 iPd 15 08.83 0.7
 RED 0.39 354 iPd 15 09.78 -0.8
 RS1 0.43 356 ePd 15 10.31 -0.7
 RSO 0.43 356 iPd 15 10.26 -0.7
 RS2 0.44 356 iPd 15 10.30 -0.7
 OPT 0.46 216 iPd 15 10.31 -0.7
 RDN 0.49 356 ePd 15 10.64 -0.6
 AUL 0.75 210 ePd 15 12.75 -0.7

AUE 0.76 207 eS 15 26.10
 XLV 0.76 139 ePc 15 12.71 -0.9
 AUH 0.77 210 iPd 15 13.00 -0.7
 AUW 0.77 211 ePd 15 12.99 -0.7
 AUI 0.79 208 ePd 15 12.97 -0.9
 PDB 0.79 253 iPd 15 13.07 -0.8
 CNPM 0.90 124 iPc 15 14.22 -0.8
 BRK 0.95 106 eP 15 15.03 -0.6
 NKA 1.02 45 ePd 15 17.41 1.1
 CKL 1.18 8 iPc 15 17.69 -0.8
 MCNL 1.19 225 iPd 15 17.19 -1.3
 SPU 1.20 15 iPc 15 17.71 -0.9
 CKT 1.20 11 iPc 15 17.77 -0.9
 CDD 1.20 204 ePd 15 17.38 -1.3
 CKN 1.22 12 ePc 15 18.26 -0.7
 BGL 1.25 7 iPc 15 18.60 -0.7
 CP2 1.26 10 iPc 15 18.07 -1.4
 CPAM 1.26 12 ePc 15 18.70 -0.7
 CRP 1.27 12 ePc 15 18.91 -0.7
 SLKM 1.32 68 eP 15 19.15 -1.0
 SYI 1.43 174 iPc 15 20.58 -0.9
 SEW 1.63 86 eP 15 22.46 -1.5
 MPA 1.73 73 ePc 15 24.20 -1.0
 SUA 1.73 33 ePd 15 24.97 -0.5
 SVW 1.80 308 iPc 15 23.81 -2.5
 PMS 1.97 50 P 15 27.60 -0.9
 PTE 2.00 64 eP 15 27.26 -1.6
 SKT 2.04 16 ePc 15 28.22 -1.2
 PWA 2.13 39 P 15 30.20 -0.4
 KDC 2.29 177 iPc 15 29.34 -3.4
 PLRM 2.35 47 eP 15 31.70 -1.8
 PMR 2.35 47 (P) 15 30.75 -2.8
 GH0 2.54 45 eP 15 34.51 -1.8
 SML 2.78 48 eP 15 37.39 -2.1
 HIN 3.11 81 eP 15 41.65 -2.4
 SCM 3.18 53 ePc 15 43.00 -2.1
 MID 3.28 98 P 15 44.50 -1.7
 HUR 3.30 25 eP 15 45.43 -1.2
 TTA 3.32 333 eP 15 43.77 -3.1
 VLZ 3.33 68 eP 15 45.17 -1.8
 CVA 3.50 78 eP 15 47.26 -2.0
 TRF 3.62 17 eP 15 50.46 -0.7
 KLU 3.63 63 ePd 15 48.38 -2.9
 RND 3.85 27 eP 15 52.98 -1.3
 KAIM 4.16 88 eP 15 56.88 -1.6
 SDG 4.26 51 eP 15 59.35 -0.6
 PAX 4.55 46 eP 16 02.20 -1.8
 GLB 4.59 68 ePc 16 01.00 -3.4
 CRQM 4.80 77 eP 16 05.47 -2.0
 TGL 4.95 77 eP 16 07.39 -2.1
 WRH 4.95 24 eP 16 07.19 -2.2
 MLY 5.10 9 eP 16 10.81 -0.8
 HDA 5.15 29 eP 16 09.17 -3.0
 BALM 5.21 74 eP 16 10.44 -2.7
 FBA 5.39 23 P 16 13.10 -2.5
 YAH 5.47 82 eP 16 14.91 -2.1
 GLM 5.55 24 eP 16 15.16 -2.7
 IMA 6.08 356 eP 16 22.17 -3.0
 YKA 18.30 66 eP 19 00.90 -4.1
 0.5s 1.10nm 3.4mb
 68 obs. associated

* APR 07, 1993 22h 19m 24.05±1.60s
 11.385 N ± 22.6km 88.375 W ± 9.7km
 DEPTH = 33.0km (normol)
 4.2mb (1 obs.)
 OFF COAST OF CENTRAL AMERICA (76)
 MD 4.1 (APY).

PYN 1.65 53 eP 19 51.50 0.3
 SSN 2.47 92 eP 20 08.56 5.6X
 PYT 2.53 63 eP 20 04.45 0.7
 SDV 17.64 96 eP 23 29.00 -0.3
 TOV 18.34 93 eP 23 42.00 4.3X
 GOGA 22.38 11 eP 24 19.72 -1.2

LTX 22.85 324 eP 24 27.13 1.4
 UYO 23.35 347 iPd 24 30.00 -0.4
 MIAR 23.54 349 eP 24 31.83 -0.4
 MEO 25.08 340 iPc 24 47.10 -0.1
 WMOK 25.10 339 iPd 24 47.15 -0.3
 FNO 25.14 342 iPc 24 47.80 0.1
 OCO 25.41 343 iPc 24 51.60 1.3
 ACO 27.01 341 iPc 25 04.20 -0.8
 RSSD 35.31 340 iPd 26 18.38 0.0
 BW06 36.30 333 (P) 26 26.14 -0.6
 SIV 38.34 135 P 27 06.20 22.3X
 ULM 39.24 352 eP 26 51.00 0.0
 LCCM 39.75 334 eP 26 57.00 1.5
 FCC 47.48 356 eP 27 58.50 1.0
 FR8 54.13 11 eP 28 44.50 -3.4X
 YKA 54.40 345 eP 28 47.50 -2.4
 0.8s 2.20nm 4.2mb
 INK 63.95 343 eP 29 57.00 1.1
 MBC 66.94 352 eP 30 14.00 -1.0
 GBA 151.46 30 PKP 39 21.00 10.3X
 S.D. = 1.1 on 20 of 25 obs.

APR 07, 1993 22h 35m 08.27±0.78s
 39.765 N ± 7.6km 20.665 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 2.0 (THE).

IGT 0.35 228 ePg 35 15.28 -0.1
 FNA 1.15 28 ePg 35 28.92 -1.0
 OHR 1.35 4 ePn 35 34.00 0.9
 LIT 1.44 76 iPb 35 35.16 0.7
 AGG 1.49 119 ePb 35 35.12 0.0
 KNT 2.20 50 ePn 35 44.65 -0.8
 S.D. = 0.8 on 7 of 7 obs.

& APR 07, 1993 23h 57m 03.34s
 34.019 N 116.348 W
 DEPTH = 1.2km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.8 (PAS).

PEC 0.69 260 eP 57 16.27 -0.8
 PLM 0.79 213 ePd 57 18.36 -0.8
 SSK 1.13 280 eP 57 23.81 -1.7
 GSC 1.33 344 ePd 57 27.72 -1.1
 GLA 1.60 127 eP 57 32.96 0.2
 ISA 2.40 314 eP 57 45.04 0.6
 TPNV 2.92 2 (P) 57 50.74 -1.3
 MSU 5.61 36 ePn 58 33.18 3.0
 8 obs. associated

APR 08, 1993 00h 13m 46.33±0.95s
 7.173 N ± 5.5km 77.152 W ± 6.4km
 DEPTH = 26.9 ± 6.8 km
 4.6mb (20 obs.) 4.4Msz (2 obs.)
 PANAMA-COLOMBIA BORDER REGION (82)
 MD 4.6 (UPA).

UPA 2.97 307 iPc 14 32.55 -0.1
 ECO 3.33 311 iP 14 37.68 -0.2
 DVD 5.40 284 ePd 15 11.41 4.2X
 SDV 6.68 75 iPd 15 24.60 -0.8
 ARE 24.14 167 eP 19 06.00 4.4X
 ZOBO 24.95 159 P 19 11.00 1.3
 Z 22s 0.29um 3.7Msz
 LPB 25.20 159 P 19 14.00 2.0
 CNCB 25.50 159 P 19 15.10 0.2
 CCH 26.72 156 P 19 24.50 -1.5
 GOGA 26.76 348 eP 19 26.09 0.3
 0.9s 16.70nm 4.7mb
 PRM 27.21 351 eP 19 30.66 0.7
 SIV 27.98 145 P 19 46.60 9.4X
 MYNC 28.50 348 eP 19 41.24 -0.4
 1.0s 12.16nm 4.6mb
 GBTN 29.09 348 eP 19 47.56 0.7

08d 00h

OLY 31.11 337 eP 20 03.48 -1.3
 UYO 31.26 332 iPd 20 05.40 -0.7
 FVM 32.95 341 eP 20 20.24 -0.7
 1.2s 44.71nm 5.3mb
 LTX 33.30 315 eP 20 23.21 -1.0
 20 34.50
 RSNY 37.30 3 iPc 20 59.01 1.1
 1.0s 22.08nm 5.0mb
 GAC 38.41 2 eP 21 09.50 2.3
 PPD 38.52 140 eP 21 08.50 0.0
 ALO 38.59 320 ePd 21 09.60 0.4
 0.9s 5.98nm 4.4mb
 i 21 21.11
 EEO 39.36 358 eP 21 19.00 3.8X
 LMN 39.99 13 eP 21 24.00 3.6X
 CBM 40.37 10 eP 21 24.78 1.3
 0.9s 12.60nm 4.7mb
 GLD 41.06 326 eP 21 29.84 0.3
 0.8s 16.61nm 4.8mb
 GOL 41.11 326 eP 21 30.17 0.2
 1.0s 13.94nm 4.6mb
 VAO 42.08 136 (P) 21 42.00 4.0X
 RSSD 43.66 332 eP 21 50.20 -0.5
 1.1s 10.86nm 4.6mb
 SRU 43.73 322 eP 21 51.72 0.4
 DAU 44.97 323 eP 22 01.44 -0.1
 BW06 45.51 326 eP 22 04.90 -0.8
 1.2s 6.59nm 4.4mb
 ULM 45.70 343 eP 22 08.00 1.3
 JAO 46.51 1 ePd 22 12.50 -0.5
 LCCM 48.79 328 eP 22 31.00 -0.3
 FCC 53.09 349 eP 23 04.50 1.1
 YKA 61.60 341 eP 24 00.30 -3.3X
 0.8s 4.80nm 4.7mb
 LKO 70.73 82 P 25 01.16 -1.6
 INK 71.37 341 eP 25 05.50 -0.1
 0.6s 1.00nm 4.1mb
 LIC 71.57 86 P 25 06.40 -1.4
 MBC 72.76 350 eP 25 12.50 -1.2
 1.0s 2.00nm 4.1mb
 GRR 75.57 42 eP 25 30.20 -0.3
 0.7s 5.75nm 4.7mb
 FLN 75.85 42 eP 25 32.00 -0.1
 MF 75.90 44 eP 25 32.20 -0.2
 EPF 76.00 48 eP 25 33.20 0.1
 LDF 76.08 42 eP 25 33.20 -0.1
 DAG 76.08 12 eP 25 32.00 -0.9
 1.0s 6.00nm 4.6mb
 LFF 76.40 46 eP 25 35.00 -0.2
 LPO 76.70 46 eP 25 36.70 -0.2
 0.5s 2.60nm 4.5mb
 LPG 80.66 45 eP 25 59.50 0.7
 NB2 82.99 29 P 26 10.50 0.2
 0.9s 4.60nm 4.6mb
 KHC 85.11 41 eP 26 22.00 0.7
 GEC2 85.22 42 eP 26 22.20 0.3
 0.9s 2.51nm 4.4mb
 e 26 26.00
 ec 26 30.00
 e 26 35.00
 e 26 42.70
 NSD 86.05 25 eP 26 24.90 -0.7
 0.8s 9.20nm 5.1mb
 BCAO 95.08 85 ePc 27 05.00 -3.9X
 0.3s 3.00nm 5.2mb
 MDJ 123.10 337 ePKP 32 32.80 -9.4X
 1.1s 52.00nm
 KLD 124.92 32 ePKP 32 42.90 -3.0X
 e 32 50.50
 BJ1 131.44 346 ePKP 32 58.00 -0.3
 1.5s 34.00nm
 HHC 131.55 351 ePKP 33 15.00 16.3X
 1.0s 28.00nm
 BTO 132.01 353 ePKP 33 17.00 17.4X
 TIY 134.46 349 ePKP 33 04.60 0.3
 Z 20s 0.37um 5.1msz
 LZH 136.96 359 ePKP 33 27.50 18.3X
 1.2s 25.00nm
 Z 15s 0.24um 5.1mszX
 CD2 142.12 359 ePKP 33 19.70 1.1
 ASPA 145.99 238 iPKPc 33 24.70 -0.7
 0.7s 8.50nm
 WB2 146.93 244 iPKPd 33 25.90 -1.0
 0.9s 9.60nm
 e 35 06.30
 WRA 146.94 244 PKP 33 26.50 -0.4
 0.9s 2.40nm

GBA 147.40 51 PKP 33 29.00 1.3
 S.D. = 0.9 on 54 of 67 obs.
 & APR 08, 1993 00h 16m 07.74s
 32.872 N 118.462 W
 DEPTH = 6.0km (geophysicist)
 OFF COAST OF CALIFORNIA (38)
 <PAS-P>. ML 3.7 (PAS).
 PLM 1.43 70 P 16 33.04 -1.3
 SSK 1.48 25 iPd 16 33.84 -1.3
 eS 16 50.76
 PEC 1.49 47 iPc 16 33.69 -1.4
 BCH 2.67 330 ePd 16 50.78 -1.4
 ISA 2.78 360 eP 16 52.53 -1.2
 GSC 2.79 29 iPd 16 53.10 -0.7
 GLA 3.06 86 eP 16 54.03 -3.6
 PHAM 3.36 332 eP 16 59.66 -2.2
 TPNV 4.45 23 eP 17 16.67 -0.9
 MEMM 4.80 355 ePn 17 22.61 0.4
 TNP 5.30 11 (Pn) 17 29.15 -0.4
 MSU 7.60 40 (Pn) 18 00.52 -1.5
 12 obs. associated
 APR 08, 1993 00h 16m 51.56 ± 0.49s
 49.163 N ± 4.0km 6.969 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 2.5 (STR). 2.3 (UCC).
 RUP 0.54 6 ePg 17 01.79 -0.8
 LANF 0.58 108 Pg 17 02.52 -0.8
 SRBF 0.63 113 Pg 17 04.71 0.5
 HOFF 0.69 108 Pg 17 05.50 0.3
 WLF 0.73 314 iPd 17 05.00 -0.9
 iS 17 14.57
 CDF 0.78 165 Pg 17 06.09 -0.7
 Sg 17 19.03
 WLS 0.79 161 Pg 17 06.77 -0.2
 Sg 17 18.59
 ABH 0.81 27 ePg 17 06.82 -0.5
 ECH 0.96 172 Pg 17 09.92 0.1
 Sg 17 23.95
 VITF 1.15 215 Pg 17 11.11 -2.0
 Sg 17 27.44
 TOD 1.28 69 ePg 17 14.56 -0.7
 MOF 1.32 175 Pg 17 16.56 0.6
 Sg 17 35.09
 TNS 1.43 42 ePnd 17 18.90 1.3
 eSn 17 37.60
 eSg 17 39.50
 FEL 1.46 151 ePg 17 18.10 0.0
 ENN 1.74 338 ePg 17 24.00 2.0
 0.4s 36.10nm
 eSg 17 47.00
 DOU 1.80 302 P 17 22.90 0.0
 i 17 25.20
 IS 17 44.20
 LOMF 1.82 183 Pg 17 25.57 2.4
 GRF 2.83 78 e(Pg) 17 46.60 9.0X
 e 17 49.00
 eSg 18 26.10
 GEC2 4.44 92 Pn 18 00.10 -0.5
 Pg 18 16.10
 Sg 19 16.70
 S.D. = 1.1 on 18 of 19 obs.
 * APR 08, 1993 00h 17m 31.14 ± 1.61s
 36.624 N ± 11.7km 71.281 E ± 7.9km
 DEPTH = 179.0 ± 19.8 km
 4.0mb (6 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)
 QUE 7.37 211 eP 19 17.40 0.2
 eS 20 36.30
 NDI 9.36 146 iP 19 43.30 0.0
 eS 21 20.00
 MAIO 9.50 272 eP 20 11.00 25.8X
 GKN 14.18 124 P 20 45.20 -0.2
 DMN 14.75 124 P 20 53.00 0.4
 KKN 14.75 123 P 20 52.40 -0.1
 PKI 14.98 123 P 20 55.20 -0.3
 0.6s 25.00nm 4.8mb
 GUN 15.09 121 P 20 56.80 0.0
 HYB 20.18 159 eP 21 53.00 -0.6
 GBA 23.58 165 Pd 22 27.00 0.3
 HFS 43.11 322 eP 25 14.10 -0.7

0.3s 2.00nm 4.1mb
 Z 16s 45.00um 6.5mszX
 LR 38 21.00
 NB2 44.42 323 P 25 24.40 -0.9
 0.4s 1.30nm 3.8mb
 GRF 44.57 307 eP 25 27.50 0.9
 MBC 67.20 3 eP 28 07.50 0.3
 0.5s 3.00nm 4.3mb
 INK 73.75 9 eP 28 48.00 1.4
 0.5s 1.00nm 3.8mb
 YKA 81.11 3 eP 29 26.20 -0.9
 0.5s 1.00nm 3.8mb
 S.D. = 0.7 on 15 of 16 obs.
 APR 08, 1993 00h 20m 00.16 ± 1.60s
 24.605 S ± 7.2km 175.931 W ± 6.6km
 DEPTH = 42.9 ± 13.3 km
 5.1mb (29 obs.) 5.4msz (2 obs.)
 SOUTH OF TONGA ISLANDS (175)
 Mw 5.2 (HRV)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 40C
 Centroid Location:
 Origin Time 00:19:58.6 0.7
 Lat 24.59S 0.10 Lon 175.21W 0.07
 Dep 18.8 3.8 Half-duration 1.0
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr = 4.55 0.37 Mtt = -0.73 0.61
 Mff = -3.82 0.41 Mrt = 2.84 1.09
 Mrf = 3.50 1.20 Mtf = -1.32 0.35
 Principal Axes:
 T Val = 6.54 Plg = 66 Azm = 319
 N -0.46 8 210
 P -6.08 22 116
 Best Double Couple: Mo = 6.3 × 10¹⁶ Nm
 NP1: Strike = 190 Dip = 24 Slip = 69
 NP2: 33 68 99
 RAO 4.96 201 eP 21 13.00 -1.0
 eS 22 04.00
 SVA 8.31 320 eP 22 02.00 1.0
 DZM 16.38 275 iPc 23 50.90 2.1
 BRS 28.23 258 eP 25 53.00 1.8
 Z 18s 22.00um 5.8msz
 RMQ 31.86 259 iPc 26 23.50 0.0
 1.1s 30.00nm 5.0mb
 CAN 32.06 242 eP 26 25.60 0.4
 BWA 32.39 244 eP 26 25.90 -2.2
 CMS 34.31 250 eP 26 44.00 -0.7
 CTA 35.19 270 iPc 26 50.00 -2.4
 1.1s 15.82nm 4.9mb
 eS 32 48.00
 BFD 37.49 240 eP 27 13.60 2.0
 1.0s 16.00nm 4.9mb
 STK 37.93 249 eP 27 15.00 -0.3
 0.4s 3.30nm 4.6mb
 PMG 38.24 287 eP 27 18.00 -0.1
 ASPA 45.58 260 eP 28 16.30 -1.8
 1.2s 27.90nm 5.0mb
 Z 19s 1.90um 5.1msz
 ePcS 33 50.60
 eS 34 54.00
 WB2 46.05 265 eP 28 18.90 -2.9
 0.6s 14.90nm 5.1mb
 WRA 46.06 265 P 28 19.60 -2.2
 0.7s 1.90nm 4.1mb
 CSY 61.12 206 eP 30 11.90 -0.1
 0.9s 47.10nm 5.6mb
 NANU 62.24 256 eP 30 20.00 -0.2
 SPA 65.54 180 iPd 30 40.70 -0.7
 0.8s 91.67nm 5.9mb
 KUSJ 76.49 331 eP 31 46.70 -0.5
 ASAJ 78.21 331 eP 31 58.10 1.4
 MAW 78.36 200 P 32 00.00 2.8
 BCH 79.57 44 eP 32 06.05 1.6
 COE 79.94 41 eP 32 06.78 0.5
 ARN 80.09 41 eP 32 06.18 -0.9
 YSS 80.47 333 eP 32 09.00 0.2
 1.0s 80.00nm 5.6mb
 e 32 16.20
 e 32 22.60
 PLM 80.50 47 eP 32 10.57 1.0
 PEC 80.63 46 eP 32 09.90 -0.2
 1.0s 13.56nm 4.9mb
 KMPM 80.66 37 eP 32 11.30 1.2
 ISA 80.89 44 eP 32 12.21 0.8

08d 02h

VLL	5.26	78	P	00	46.29	0.2
VBEM	5.29	82	P	00	46.52	-0.1
GULW	5.39	73	P	00	48.78	0.8
ASR	5.45	71	P	00	49.14	0.4
RVC	5.45	62	P	00	48.69	0.0
LON	5.48	64	eP	00	48.51	-0.6
REMR	5.48	64	P	00	48.92	-0.4
GLK	5.55	67	P	00	50.65	0.5
WPW	5.63	65	P	00	51.03	-0.3
FMW	5.63	63	P	00	51.07	-0.4
RMW	5.77	58	eP	00	52.87	-0.3
HTW	5.96	55	P	00	55.64	-0.2
JCW	6.07	51	P	00	57.68	0.3
CMW	6.10	49	P	00	58.24	0.4
TBM	6.40	63	P	01	02.14	-0.1
MBW	6.43	47	P	01	02.96	0.3
RPW	6.44	51	P	01	02.91	0.2
ETW	6.74	60	P	01	06.65	-0.3
EPH	7.11	64	P	01	11.11	-0.9

S.D. = 0.5 on 39 of 39 obs.

& APR 08, 1993 02h 10m 32.88s
 35.960 N 120.510 W
 DEPTH = 8.4km
 CENTRAL CALIFORNIA (39)
 <GM-P>. MD 3.2 (GM). ML 3.1
 (PAS), 3.0 (GS).

PHAM	0.15	144	iPd	10	36.67	0.3
PRI	0.22	325	iPc	10	38.20	0.6
			eS	10	41.20	
PKEM	0.34	73	iPc	10	41.57	1.7
LLA	0.74	332	iPd	10	47.71	0.1
			eS	10	59.01	
PRS	0.79	298	iPc	10	47.72	-0.7
			eS	11	01.99	
BCH	0.85	156	iPd	10	48.92	-0.5
			S	10	59.59	
SAO	1.10	317	ePc	10	52.83	-0.9
FRI	1.22	32	iPd	10	54.92	-0.7
			eS	11	11.67	
COE	1.60	325	eP	11	00.58	-0.9
GCC	1.60	312	iPd	10	59.91	-1.6
ARN	1.61	330	eP	11	00.81	-0.9
ISA	1.68	100	ePc	11	01.50	-1.2
			S	11	20.99	
MMPM	2.03	35	ePc	11	08.49	0.4
			S	11	33.44	
CMB	2.07	3	eP	11	08.42	0.0
MTUM	2.09	48	eP	11	09.41	0.6
			S	11	34.49	
MEMM	2.12	36	(P)	11	08.58	-0.4
			S	11	38.43	
JEGM	2.21	315	(P)	11	10.79	0.5
MRCM	2.35	43	eP	11	12.40	-0.1
HMR	2.42	335	(P)	11	14.70	1.4
BONR	2.66	41	eP	11	17.75	0.7
SSK	2.90	126	eP	11	19.24	-1.0
NTYM	2.97	325	(P)	11	21.03	-0.1
GSC	3.09	101	eP	11	21.17	-1.7
TNP	3.38	50	(Pn)	11	29.83	2.7
PEC	3.44	126	(P)	11	26.87	-1.0
TPNV	3.57	73	(Pn)	11	32.56	2.7
KVN	3.63	31	(P)	11	30.77	0.1
ORV	3.67	348	(P)	11	30.81	-0.3
PLM	3.98	130	(P)	11	35.95	0.4
GLA	5.52	120	(P)	11	55.93	-1.4

30 obs. associated

APR 08, 1993 02h 58m 17.62±1.35s
 12.689 N ±16.1km 88.714 W ±22.4km
 DEPTH = 81.2 ± 10.4 km
 4.2mb (3 obs.)
 OFF COAST OF CENTRAL AMERICA (76)
 MD 4.2 (GCG).

YUP	1.84	325	eP	58	48.08	0.0
			eS	59	25.57	
OZG	2.04	341	eP	58	51.10	0.2
IXG	2.25	311	eP	58	53.06	-0.6
			eS	59	28.31	
LTX	21.62	322	eP	03	03.73	1.0
UYO	22.01	347	iPd	03	06.60	0.1
MEQ	23.75	339	iPc	03	23.70	0.3
WMOK	23.78	339	eP	03	23.82	0.1
	0.7s				6.71nm	4.2mb
FNO	23.80	342	iPc	03	23.90	0.0

OCO	24.07	342	iPd	03	28.30	1.7
ACO	25.68	340	iPc	03	41.10	-0.6
RSSD	33.97	340	eP	04	55.10	-0.5
	0.8s				3.97nm	4.4mb
ULM	37.91	353	ePd	05	28.00	-0.5
LCCM	38.44	334	eP	05	33.30	0.1
SIV	39.49	135	P	05	42.40	0.3
FCC	46.16	356	eP	06	35.00	-0.5
YKA	53.06	345	eP	07	24.50	-3.9X
	0.6s				1.30nm	4.1mb
INK	62.61	343	eP	08	34.00	-1.2
MBC	65.61	352	eP	08	51.00	-3.6X

S.D. = 0.8 on 16 of 18 obs.

% APR 08, 1993 03h 21m 25.72±1.01s
 39.333 N ± 7.9km 27.702 E ±13.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM	1.00	200	iPg	21	44.50	-0.1
			iSg	21	59.00	
EDC	1.02	7	ePn	21	45.50	0.5
KCT	1.04	29	ePg	21	45.40	0.0
YLV	1.78	46	ePn	21	55.90	-0.9
ALT	1.89	98	ePn	21	59.00	0.5

S.D. = 0.8 on 5 of 5 obs.

% APR 08, 1993 03h 42m 21.39±0.87s
 26.879 S ± 8.5km 26.917 E ± 8.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.1 (PRE).

BFS	0.12	261	iPc	42	22.60	-1.4
			S	42	23.10	
PRY	0.50	96	eP	42	30.10	-1.3
			S	42	37.00	
KSR	1.01	359	eP	42	41.50	0.4
			S	42	53.00	
SEK	1.57	157	eP	42	50.10	0.0
			S	43	10.60	
SLR	1.67	47	eP	42	52.30	0.7
			S	43	15.50	
BLF	2.31	196	eP	43	02.50	1.6

S.D. = 1.5 on 6 of 6 obs.

APR 08, 1993 03h 49m 33.23±0.84s
 35.653 N ± 4.2km 77.652 E ± 3.1km
 DEPTH = 41.7 ± 8.0 km
 5.0mb (77 obs.) 4.6Msz (29 obs.)
 EASTERN KASHMIR (302)

Mw 5.2 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 24C
 Centroid Location:
 Origin Time 03:49:33.6 1.0
 Lat 35.81N 0.11 Lon 78.15E 0.09
 Dep 15.0 FIX Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr=-0.76 0.39 Mtt= 0.75 0.73
 Mff= 0.01 0.51 Mrt= 1.58 2.28
 Mrf=-2.13 1.51 Mtf= 6.80 0.36
 Principal Axes:
 T Val= 7.21 Plg= 2 Azm=136
 N 0.26 68 40
 P -7.47 21 227
 Best Double Couple: Mo=7.3*10**16
 NP1: Strike=269 Dip=73 Slip=-14
 NP2: 4 77 -163

KSH	4.02	341	Pn	50	35.50	1.5
			Sn	51	27.40	
PRZ	6.85	5	eP	51	13.50	-0.3
	1.0s				150.00nm	5.7mb
			e	52	35.00	
NDI	6.96	183	iPnd	51	15.80	0.5
	0.7s				143.84nm	5.9mb
			iSn	52	35.00	
			iSg	53	14.00	
FRU	7.55	343	iPc	51	23.40	-0.1
			iS	52	52.00	
TLG	7.61	359	eP	51	24.20	-0.2
			e	52	48.50	
GKN	9.66	140	P	51	49.60	-3.3X
KKN	10.18	138	P	51	55.80	-4.2X

DMN	10.23	140	P	51	56.40	-4.3X
GUN	10.42	136	P	51	59.00	-4.4X
PKI	10.42	139	P	51	58.00	-4.6X
QUE	10.51	242	eP	52	02.10	-2.5
WMQ	11.23	40	P	52	09.40	-4.8X
	1.0s				14.00nm	5.1mb
			PP	52	17.20	
			pP	52	18.40	
			S	54	14.00	
			PcP	58	02.00	
			ScP	01	35.50	
			PcS	01	38.00	
			ScS	05	14.00	

LSA 12.82 114 P 52 34.00 -1.9
 1.0s 16.00nm 5.0mb
 Z 10s 8.78um 5.1Msz
 N 10s 8.40um

MAIO	14.72	278	eP	52	57.00	-3.5X
	0.8s				9.15nm	4.2mb
			e	55	38.00	
ASH	15.63	284	eP	52	55.50	-16.7X
VAN	15.83	284	eP	53	08.50	-6.2X
	0.7s				15.00nm	4.3mb
Z	14s				4.00um	4.1Msz
			iS	56	04.00	

SHL	15.83	126	iPd	53	08.00	-6.9X
			eS	55	59.50	
BOM	17.23	196	e(P)	53	21.00	-11.4X
			eS	56	32.40	
KAT	17.35	288	eP	53	37.00	3.2X
			iS	56	55.00	
POO	17.38	192	eP	53	32.00	-2.4
			iS	56	42.00	

GTA	17.97	71	P	53	43.50	1.9
	1.0s				23.00nm	4.3mb
Z	12s				2.71um	
HYB	18.18	177	eP	53	40.00	-4.3X
	0.8s				38.50nm	4.6mb
			eS	56	53.00	

ELT	18.61	16	eP	53	46.00	-3.2X
			e	57	05.00	
LZH	21.21	81	eP	54	16.00	-1.7
	1.5s				27.00nm	4.4mb
Z	18s				1.59um	4.4Msz
N	14s				3.75um	

GBA	21.96	181	P	54	26.00	1.0
			S	58	24.00	
CD2	22.30	95	Pd	54	27.80	-0.7
	1.2s				78.00nm	5.0mb
Z	12s				2.03um	4.8MszX
N	14s				5.39um	

BAK	22.32	291	eP	54	32.00	3.5X
			eS	58	30.00	
N	13s				4.80um	
MOY	23.12	39	eP	54	37.70	1.5
SHE	23.30	291	iPd	54	39.50	1.4
	1.0s				50.00nm	5.0mb

ZAK	23.67	44	ePc	54	43.00	1.4
	2.1s				74.00nm	4.8mb
Z	18s				3.09um	4.8Msz
N	14s				1.90um	
E	19s				3.12um	
			e	58	30.00	
			eS	58	53.00	

KMI	23.99	109	Pd	54	45.00	-0.2
	1.0s				110.00nm	5.3mb
Z	12s				2.50um	4.9MszX
N	10s				1.40um	
E	10s				1.00um	
			pP	54	50.00	18kmX

SVE	24.08	337	ePc	54	46.00	0.5
	2.9s				180.00nm	5.1mb
Z	14s				1.20um	4.5MszX
N	14s				1.00um	
E	14s				1.50um	
			eS	59	05.00	
			eSS	00	08.00	

			eSS	00	20.00		Z	16s	1.32um	4.8MszX	CLL	47.89	310	iPc	58	08.40	-0.5		
ARU	24.45	334	ePc	54	50.00	0.9	N	12s	1.08um			1.0s	14.00nm				4.9mb		
	Z	11s	2.50um		5.0MszX		E	12s	0.85um		CSl	47.89	294	P	58	08.80	-0.3		
	N	12s	1.00um				CN2	37.22	62 P	56 46.80	4.6X	MMN	48.08	294	P	58	10.40	-0.1	
			e	54	58.00			0.6s	4.70nm	4.6mb	VOY	48.15	303	iPc	58	10.90	-0.3		
			e	55	26.00		Z	10s	1.02um	4.9MszX				i	58	15.80			
			ePPP	55	43.00		N	10s	0.44um		NB2	48.29	323	P	58	10.80	-1.2		
			eS	59	15.00		E	10s	0.40um			0.7s	9.90nm				5.0mb		
			e	59	29.00				epP	56 55.00	28kmX	RBL	48.29	304	P	58	12.10	-0.1	
GRS	25.05	288	eP	54	56.00	0.8			eS	02 30.00		TRI	48.30	303	e(P)	58	10.90	-1.3	
KRV	25.05	291	iP	54	51.00	-4.0X	EYL	37.33	292	eP	56 39.00	-4.4X	KBA	48.32	304	i(P)	58	12.50	-0.1
	1.0s		20.00nm		4.6mb		HRT	37.67	293	eP	56 46.40	0.3		0.8s	13.20nm			5.0mb	
IRK	25.17	40	eP	54	57.00	1.0	KIS	37.78	303	eP	56 48.00	1.1			i	58	16.70		
	Z	16s	1.36um		4.6MszX				e	58 16.00				i	58	26.90			
	N	15s	0.83um						e	06 50.00		MGR	48.34	295	P	58	12.00	-0.5	
	E	15s	1.89um				CFR	38.34	300	eP	56 52.00	0.3	SGO	48.40	296	P	58	13.90	0.9
			e	55	26.00		PPE	38.66	302	eP	56 55.50	1.1	FVl	48.80	304	P	58	15.30	-0.7
			e	55	40.00		BRD	39.10	301	eP	57 01.00	3.0X	YSS	48.84	55	eP	58	17.00	0.7
CHG	25.20	126	ePc	54	56.20	-0.4	VRI	39.30	301	ePc	57 02.00	2.3	MOX	48.85	309	iPc	58	16.60	0.3
	0.7s		24.66nm		4.9mb		CVO	39.69	301	eP	57 05.00	2.0		1.3s	22.00nm			5.0mb	
KOD	25.30	180	eP	54	59.00	1.1	MLR	39.88	301	iPd	57 07.00	2.4		Z	22s	0.40um		4.4Msz	
BTO	25.85	69	eP	55	03.00	0.4	MDJ	40.12	61	eP	57 07.40	1.0	GRF	49.25	308	iPc	58	20.50	1.0
	N	12s	0.97um					1.0s	17.00nm	4.8mb			1.0s	17.00nm				5.0mb	
	E	14s	1.25um				CMP	40.53	300	ePd	57 12.00	2.1	Z	20s	0.40um			4.4Msz	
			pP	55	10.00	25kmX	TNR	41.03	301	ePd	57 16.00	2.0			e	58	24.80		
			PP	55	46.00		KAF	41.29	326	iP	57 15.60	-0.2	ARV	49.37	300	P	58	21.10	0.6
			eS	59	32.50			0.6s	7.70nm	4.6mb		WTTA	49.43	305	iPc	58	11.70	-9.4X	
MTA	26.24	293	eP	55	07.00	0.9	YAK	41.60	34	eP	57 20.00	1.7		1.1s	23.80nm			5.1mb	
			i	55	13.00			Z	15s	0.60um	4.6MszX				i	58	17.30		
			e	55	54.00		N	14s	0.50um						i	58	25.00		
			ePPP	56	06.00		E	15s	0.60um						e	58	22.30	0.9	
BDT	26.39	128	eP	55	05.00	-2.6			e	59 13.00		ASS	49.67	299	P	58	23.90	1.0	
	0.8s		46.70nm		5.1mb				e	03 34.00		CTl	49.68	303	P	58	22.50	-0.4	
GYA	26.41	102	P	55	11.00	3.1X			e	07 18.00		MNS	49.83	299	P	58	23.80	-0.3	
	1.2s		73.00nm		5.1mb		NUR	41.69	324	eP	57 19.00	-0.1	OGA	49.92	305	eP	58	24.30	-0.6
	Z	14s	1.49um		4.7MszX		UZH	42.15	306	ePd	57 22.50	-0.6	MOL	50.01	325	eP	58	24.93	-0.1
	N	14s	2.49um					1.0s	22.00nm	4.8mb		SFl	50.03	301	Pc	58	26.30	0.8	
	E	14s	1.42um				Z	12s	0.60um	4.7MszX		PGD	50.13	301	P	58	27.20	0.7	
HHC	27.02	69	Pd	55	17.80	4.4X	N	12s	0.50um		OSS	50.55	305	iPc	58	28.90	-0.8		
	1.0s		17.00nm		4.6mb		E	12s	0.50um		LLS	51.28	305	P	58	34.30	-0.9		
	Z	16s	1.08um		4.5MszX				e	57 32.70		B08	51.49	302	Pc	58	36.90	0.2	
			sP	55	28.00				e	59 05.50		TMA	51.54	304	P	58	36.00	-1.2	
PYA	27.69	298	eP	55	23.00	3.7X			ePPP	59 34.80		WTS	51.59	312	eP	58	37.00	-0.2	
	Z	14s	1.00um		4.5MszX		SRS	42.16	294	eP	57 23.28			0.8s	29.50nm			5.3mb	
TIY	27.88	75	eP	55	23.00	1.9	PAIG	42.33	293	eP	57 24.56	-0.1	MGD	51.65	38	eP	58	37.00	-0.6
	Z	11s	1.61um		4.9MszX		VAY	42.88	295	eP	57 29.50	0.4		Z	13s	1.00um		5.0MszX	
	E	10s	1.09um				SDF	42.94	334	iP	57 29.40	0.1		E	13s	1.00um			
CIT	30.26	46	eP	55	40.00	-2.4	LIT	43.18	293	eP	57 30.76	-0.9			e	58	52.00		
	Z	14s	1.25um		4.7MszX		SPC	43.47	307	eP	57 35.30	1.3	VAI	51.67	304	P	58	40.50	2.6
	E	20s	1.62um						e	59 33.00		CDF	52.05	307	eP	58	40.30	-0.6	
8JI	30.57	70	eP	55	48.00	2.9X	SKO	43.58	296	eP	57 35.00	0.2		0.9s	9.65nm			4.8mb	
	Z	16s	0.88um		4.5MszX		KEV	43.63	337	eP	57 40.00	5.1X	ENN	52.38	310	eP	58	43.00	-0.2
	N	12s	1.52um				OJC	43.69	308	eP	57 39.30	3.7X		0.8s	7.70nm			4.8mb	
TIA	31.82	77	eP	55	57.20	1.1	PSZ	43.81	305	eP	57 37.10	0.4	PGF	52.41	300	eP	58	43.10	-0.6
	Z	18s	1.92um		4.8Msz		QHR	44.23	295	eP	57 41.80	1.7	WLF	52.48	309	Pd	58	44.00	0.0
	N	13s	0.60um				TIK	44.60	21	eP	57 46.00	3.4X	BSF	52.50	307	eP	58	43.70	-0.6
	E	13s	1.02um					1.0s	12.00nm	4.7mb			1.0s	52.80nm				5.5mb	
8OD	32.83	36	eP	56	02.90	-1.8	UZD	44.85	303	eP	57 45.30	0.3	DIX	52.54	304	ePc	58	44.20	-0.6
	0.8s		8.00nm		4.6mb		SRO	44.88	305	iP	57 46.40	1.2	HAU	52.75	307	eP	58	45.30	-0.8
MOS	33.77	319	iPc	56	12.00	-0.8	IGT	44.93	293	eP	57 44.00	-1.8		0.9s	30.95nm			5.3mb	
	2.0s		160.00nm		5.6mb		UPP	45.06	322	iP	57 46.00	-0.5	Z	22s	0.28um			4.3Msz	
OBN	34.12	318	iPd	56	15.50	-0.4	KSP	45.87	309	eP	57 53.20	0.1	IMI	52.80	302	P	58	45.45	-1.1
	1.5s		70.00nm		5.4mb		KKM	46.05	121	ePc	57 56.50	1.6	EMS	52.86	304	ePc	58	46.70	-0.4
	Z	22s	1.10um		4.5Msz		ZAG	46.76	302	eP	58 01.00	0.9	LSD	52.87	304	P	58	47.18	-0.1
	E	22s	0.80um				PTJ	46.76	302	eP	58 00.10	-0.1	BH8	52.97	303	P	58	46.41	-1.3
			i	56	32.00		HVAR	46.95	299	eP	58 01.30	-0.4	ENR	53.03	302	P	58	49.06	0.8
			ePPP	57	55.00		HFS	47.05	322	eP	58 01.40	-0.8	S8F	53.12	302	eP	58	48.60	-0.3
			eS	01	40.00			0.5s	11.80nm	5.1mb			0.8s	34.00nm				5.4mb	
			eSS	03	54.00		PRU	47.08	308	Pc	58 02.90	0.3	LPG	53.14	304	eP	58	49.00	-0.3
				56	20.00	2.9X			e	58 06.50			0.9s	38.35nm				5.4mb	
NJ2	34.23	84	Pc	56	20.00		MOR7	47.10	331	eP	58 02.47	-0.1	LPL	53.14	304	eP	58	49.00	-0.2
	Z	16s	0.87um		4.6MszX		V8Y	47.32	302	iP	58 05.30	0.8		0.8s	37.75nm			5.4mb	
	N	13s	1.68um				BRG	47.35	309	iPc	58 05.00	0.3	PZZ	53.17	303	P	58	51.85	2.5
NRI	34.29	7	iPc	56	17.20	0.0			i	58 08.00		RRL	53.27	303	P	58	49.47	-0.7	
	1.6s		27.00nm		4.9mb				i	58 19.80		BNI	53.31	303	P	58	49.10	-1.2	
	Z	14s	1.40um		4.8MszX		LJU	47.71	303	ePc	58 08.00	0.3	DOU	53.36	310	P	58	50.40	-0.1
	N	14s	0.80um				ROI	47.73	294	P	58 10.70	2.8	SNF	53.46	310	P	58	51.60	0.5
			e	56	29.00		GEC2	47.79	307	ePc	58 08.30	0.0	FRF	53.76	302	eP	58	52.80	-0.7
			e	57	40.00				ed	58 13.30	4.8mb		0.9s	17.05nm				5.1mb	
KAS	34.53	293	iPd	56	20.80	1.2			e	58 16.90		LRG	53.99	301	eP	58	54.60	-0.5	
SNY	36.01	66	eP	56	32.60	0.5			e	58 19.90			Z	20s	0.17um			4.1Msz	
	Z	16s	0.94um		4.7MszX				e	58 24.10		LOR	54.57	307	eP	58	58.00	-1.4	
	N	11s	0.77um						e	58 28.90			0.7s	10.15nm				5.0mb	
SSE	36.42	84	eP	56	36.50	0.8	CEY	47.84	302	eP	58 09.00	0.3	LBF	54.57	306	eP	58	58.10	-1.4
	0.8s		17.00nm		5.0mb		TDS	47.88	294	Pd	58 10.00	0.9	SSB	54.69	304	P	58	59.63	-0.7

08d 03h

SMF	54.76	306 eP	58 59.86	-1.0	0.8s	2.00nm	4.1mb	NKA	1.16	355 eP	38 23.42	1.0		
	0.8s	26.45nm		5.3mb	SVW	74.29	24 e(P)	01 04.00	-3.7X	INW	1.17	295 eP	38 21.21	-1.4
SSF	54.86	306 eP	59 00.50	-1.0			pP	01 32.20	111kmX	SYI	1.21	216 eP	38 22.90	-0.3
	0.9s	26.85nm		5.3mb	PMR	75.94	21 P	01 30.00	13.0X	RED	1.21	314 eP	38 22.05	-1.3
AVF	55.04	306 eP	59 01.70	-1.1								eS	38 37.58	
	1.0s	36.00nm		5.4mb	PMR	75.94	21 eP	01 16.70	-0.3	AUE	1.22	260 eP	38 22.65	-0.8
COLF	55.19	305 P	58 58.09	-5.9X			0.7s	1.60nm	4.1mb	RS1	1.23	316 ePc	38 22.55	-1.3
HYF	55.36	307 eP	59 04.60	-0.6	PMS	76.09	21 eP	01 16.60	-1.3			eS	38 38.80	
BGF	55.44	306 eP	59 04.60	-1.1	SLKM	76.47	22 (P)	01 17.95	-2.1	RSO	1.23	316 iPc	38 22.50	-1.3
	1.0s	36.00nm		5.4mb	SLR	76.84	225 eP	01 26.50	3.8X			eS	38 38.37	
MAF	55.73	306 eP	59 07.20	-0.6	WRA	77.06	126 P	01 57.00	33.2X	MPA	1.23	42 eP	38 22.75	-0.9
	1.0s	31.20nm		5.3mb	FRB	77.36	345 eP	01 26.00	1.1	RS2	1.23	316 eP	38 22.56	-1.3
TCF	55.94	306 eP	59 08.80	-0.6	KSR	77.73	226 eP	01 31.00	3.3X	AUL	1.24	261 eP	38 23.06	-0.8
	1.0s	31.60nm		5.3mb	PRY	78.21	224 eP	01 21.70	-8.6X	AUI	1.25	259 eP	38 22.93	-1.0
LSF	56.40	306 eP	59 11.50	-1.2	BALM	78.28	19 eP	01 30.90	0.8	AUH	1.25	261 iPd	38 23.28	-0.8
	1.0s	26.60nm		5.2mb	LKO	79.04	274 P	01 35.72	0.7	CDD	1.50	245 eP	38 26.33	-1.4
CAF	56.47	304 eP	59 12.80	-0.4	SEK	79.20	223 eP	01 41.70	6.1X	PDB	1.62	278 eP	38 27.97	-1.4
	0.8s	14.50nm		5.1mb		0.7s	22.00nm		5.2mb			eS	38 48.89	
EKA	56.60	317 P	59 13.00	-0.9	KIC	80.15	271 P	01 44.00	3.0X	PTE	1.63	37 eP	38 29.52	0.0
	0.6s	6.20nm		4.8mb	LIC	80.46	271 P	01 46.00	3.4X	SPU	1.68	343 ePc	38 29.24	-1.1
RJF	56.71	305 eP	59 14.60	-0.3						CKT	1.72	341 eP	38 29.93	-1.1
	1.0s	20.60nm		5.1mb	WIN	81.45	234 e(P)	01 49.00	1.3			eS	38 52.27	
Z	21s	0.17um		4.1Msz	YKA	81.70	6 eP	01 47.20	-1.0	CKN	1.74	341 eP	38 30.88	-0.3
LDF	56.74	309 eP	59 13.90	-1.1		0.7s	3.50nm		4.5mb	CKL	1.74	339 eP	38 30.25	-1.0
	0.6s	20.55nm		5.3mb	CTA	85.35	119 P	02 10.00	2.6	MCNL	1.74	258 eP	38 30.17	-1.0
FLN	56.91	309 eP	59 14.90	-1.4	FCC	85.69	356 eP	02 12.50	4.0X	CPAM	1.76	342 eP	38 31.28	-0.3
	1.0s	26.80nm		5.2mb	CER	87.71	225 eP	02 20.00	1.3	CRP	1.77	342 eP	38 29.79	-2.1
Z	21s	0.22um		4.2Msz		0.5s	25.00nm		5.7mb	CP2	1.78	341 eP	38 30.70	-1.3
DAG	57.06	344 eP	59 16.00	-1.0	JAQ	87.98	345 eP	02 23.00	3.2X	BGL	1.81	339 iPc	38 31.66	-0.7
	1.0s	14.00nm		5.0mb	CBM	92.23	337 P	02 50.00	10.2X	PMS	1.81	23 P	38 32.20	-0.1
LPO	57.14	304 eP	59 17.20	-0.7						SUA	1.89	4 eP	38 33.34	-0.1
	0.7s	7.40nm		4.8mb	ULM	94.28	356 eP	02 57.50	8.3X	PMR	2.22	24 eP	38 37.53	-0.6
LSPF	57.24	302 P	59 22.53	3.9X	RSNY	96.28	340 P	03 10.00	11.5X	SKT	2.41	354 eP	38 41.33	0.4
GRR	57.27	309 eP	59 17.60	-1.2						HIN	2.42	68 eP	38 40.25	-0.7
	0.7s	41.55nm		5.6mb	HRV	97.28	338 P	03 10.00	7.0X	GHO	2.42	24 eP	38 41.37	0.2
LFF	57.35	305 eP	59 18.80	-0.6						SML	2.59	30 eP	38 44.13	0.6
	0.9s	19.00nm		5.1mb	RSSD	100.59	1 Pdiff	03 30.00	12.0X	SVW	2.74	306 (P)	38 45.39	-0.3
MFF	57.39	307 eP	59 18.30	-1.3						VLZ	2.80	54 eP	38 46.36	0.0
	1.1s	19.05nm		5.1mb	HON	102.63	52 Pdiff	03 50.00	22.7X	CVA	2.82	68 eP	38 45.80	-0.8
LPF	57.50	309 eP	59 18.90	-1.5						SCM	2.90	37 eP	38 48.29	0.5
	0.9s	13.75nm		5.0mb	DUG	103.91	8 Pdiff	03 50.00	17.2X	KLU	3.17	51 eP	38 51.13	-0.5
GRBF	57.53	302 P	59 24.07	3.3X										
ESEL	57.67	298 eP	59 24.30	2.6	GLD	104.92	2 Pdiff	03 50.00	12.6X					
EPF	58.28	303 eP	59 25.50	-0.5										
	0.7s	5.50nm		4.8mb	GOL	104.97	2 Pdiff	03 50.00	12.3X					
EGRA	59.04	302 eP	59 30.30	-0.9										
ERQO	59.05	300 eP	59 33.50	2.2										
DLF	59.09	316 eP	59 42.00	10.6X	CEH	105.60	341 Pdiff	03 50.00	9.8X					
DMU	59.11	317 eP	59 38.10	6.6X										
DCN	59.50	316 eP	59 38.50	4.3X	FVM	105.90	350 Pdiff	03 50.00	8.5X					
ECRI	60.39	303 eP	59 42.00	1.5										
ECHE	60.49	299 eP	59 42.00	0.7										
ETOR	60.77	301 eP	59 43.40	0.2	ISA	107.47	14 Pdiff	04 00.00	11.3X	CACH	0.51	53 iP	45 55.15	-0.1
AVY	61.24	213 eP	59 49.50	2.8X								iS	46 10.40	
OPO	61.24	213 eP	59 49.10	2.4						LNV	0.54	331 iP	45 55.59	0.2
VTY	61.46	213 eP	59 58.70	10.6X								iS	46 09.84	
EVIA	61.97	299 eP	59 51.50	0.1	MYNC	107.61	344 Pdiff	04 00.00	10.7X	CHCH	0.61	37 eP	45 56.35	0.1
ABM	62.16	212 iPd	59 56.70	3.8X								iS	46 11.62	
GUD	62.30	302 eP	59 53.50	-0.1	GOGA	109.06	343 PKP	08 20.00	20.0X	LCCH	1.03	337 iP	46 01.14	-0.3
ILT	62.33	25 iPc	59 52.00	-1.2						FCH	1.28	32 iP	46 05.17	-0.1
	1.4s	14.00nm		4.9mb								iS	46 27.39	
EHUE	62.38	298 eP	59 54.00	-0.1	MIAR	109.69	352 PKP	08 20.00	18.8X	PEL	1.32	15 iP	46 05.93	0.4
ENIJ	62.46	297 eP	59 54.20	-0.4								iS	46 28.20	
BCAO	62.53	255 iPd	59 54.00	-1.3	WMOK	109.89	357 PKP	08 20.00	18.4X	JACH	1.79	14 iP	46 11.90	-0.2
	0.8s	7.00nm		4.8mb										
		id	59 56.40											
		ic	00 04.00											
PAB	62.90	301 eP	00 02.00	4.5X	SIV	138.38	287 ePKP	09 13.00	16.5X					
EMON	63.29	306 eP	59 59.00	-1.0	ZOBO	143.93	293 PKP	09 10.00	3.1X					
ECOG	63.31	298 eP	59 59.00	-0.4										
EGUA	63.50	298 eP	00 00.40	-1.0										
ERUA	63.61	305 eP	00 01.40	-0.6										
ELUQ	63.69	299 eP	00 02.00	-0.7										
EPLA	63.88	302 eP	00 03.50	-0.4										
EHOR	64.27	299 eP	00 06.80	0.4										
EJIF	65.04	298 eP	00 11.00	-0.5										
BRW	66.65	17 eP	00 20.80	-0.4										
M8C	67.85	4 ePc	00 28.30	-0.4										
	0.8s	18.00nm		5.2mb										
IMA	71.20	20 eP	00 48.39	-1.2										
	0.8s	6.56nm		4.7mb										
		pP	01 17.30	115kmX										
BUL	72.36	228 iPc	01 00.10	3.0X										
FBA	73.67	18 eP	01 03.39	-0.6										
	0.9s	9.03nm		4.7mb										
		e	01 31.50											
INK	73.76	12 eP	01 05.00	0.6										

JUC	0.87	187	ePg	09	50.70	0.1	PLP	9.39	351	ePd	58	55.00	6.4X	CNB	42.74	152	eP	04	28.20	0.9	
			iSg	09	59.60		MKS	9.86	225	iPc	59	03.30	8.3X		0.9s		17.00nm			4.8mb	
SPC	1.90	174	ePn	10	06.60	-0.3	PPR	10.99	316	ePc	59	08.00	-2.4	TOO	43.00	158	eP	04	30.20	0.8	
			i(Sg)	10	28.20		KKM	11.00	293	ePc	59	12.00	1.2		0.5s		13.00nm			4.9mb	
			Lg	10	30.00			0.7s	84.50nm				6.0mb	LSA	43.48	313	iPc	04	34.40	0.5	
PSZ	3.16	181	eP	10	27.80	3.0X	KHKI	14.79	227	eP	00	08.40	7.6X		1.0s		20.00nm			4.8mb	
SRO	3.44	199	eP	11	10.80	42.2X			e	02	50.00			KUSJ	44.22	19	eP	04	38.90	-0.2	
PRU	3.62	255	ePg	10	30.50	-0.7	MTN	15.31	162	eP	00	06.00	-1.6	ASAJ	44.51	17	eP	04	41.80	0.4	
			Sg	11	08.20		BAG	15.59	339	eP	00	13.90	2.5	GTA	44.57	330	eP	04	41.60	-0.6	
BRG	3.80	269	e(P)	10	40.00	6.2X	CVP	16.41	344	eP	00	20.00	-1.6		1.0s		8.00nm			4.5mb	
			iSg	11	19.00		TRT	16.69	235	iPc	00	24.00	-1.1	DZM	45.73	124	iPc	04	49.10	-2.4	
GECC2	4.61	243	Pg	10	46.10	0.7	LEM	20.64	245	ePd	01	13.00	1.8	GUN	46.61	308	P	04	57.60	-1.2	
			Sg	11	33.70		GUMO	21.67	56	eP	01	19.10	-2.4	PKI	46.83	307	P	04	59.80	-0.7	
GBA	59.27	107	P	19	38.00	0.1	PMG	23.48	119	eP	01	40.00	0.7		0.8s		23.00nm			5.2mb	
YKA	61.20	338	eP	19	57.00	6.4X	QIZ	23.58	318	P	01	40.80	0.6	KKN	47.03	307	P	05	00.80	-1.2	
	0.4s		0.10nm			3.3mb	ASPA	26.37	164	iPd	02	06.10	-0.5		0.6s		25.00nm			5.3mb	
	S.D. = 0.7	on	5 of	9	obs.			0.7s	33.00nm			5.0mb	DMN	47.09	307	P	05	01.60	-0.9		
							Z	22s	0.60um			4.1Msz		1.0s		70.00nm			5.6mb		
								eS	06	38.40			YSS	47.19	15	eP	05	02.00	-0.6		
* APR 08, 1993 05h 27m 59.98±0.95s							WARB	27.85	180	eP	02	20.00	0.0		e		05	11.40			
35.002 N ±13.3km 78.298 E ±21.2km								0.4s	7.00nm			4.6mb	GKN	47.64	307	P	05	05.20	-1.5		
DEPTH = 33.0km (normal)							CTA	29.21	139	iPd	02	32.00	-0.4		1.2s		107.00nm			5.7mb	
3.8mb (2 obs.)								2.0s	58.82nm			4.9mb	KOD	49.33	282	eP	05	20.00	-0.1		
EASTERN KASHMIR (302)								id	02	37.00			GBA	49.82	286	P	05	23.00	-0.4		
							MEEK	29.28	194	eP	02	32.00	-1.0	CIT	51.14	350	eP	05	34.20	1.2	
							SSE	29.53	351	eP	02	35.00	-0.1	ZAK	52.21	341	eP	05	40.00	-1.0	
							Z	20s	0.90um			4.4Msz		1.3s		11.00nm			4.7mb		
								eS	02	48.00				e		06	53.00				
								S	07	28.00			IRK	53.56	343	eP	05	49.20	-1.8		
								eS	07	48.00				1.4s		25.00nm			5.1mb		
GKN	9.46	144	P	30	17.60	0.5	NJ2	30.90	347	Pd	02	49.40	2.2	MOY	54.07	341	eP	05	55.00	0.3	
KKN	9.95	141	P	30	23.40	-0.6	Z	22s	0.67um			4.3Msz	WMO	54.10	326	P	05	54.00	-1.3		
DMN	10.01	143	P	30	25.00	0.1	GYA	30.98	324	P	02	47.40	-0.8		1.0s		21.00nm			5.1mb	
	0.5s		33.00nm			5.9mb X		1.0s	12.00nm			4.6mb	Z	24s		0.86um			4.7MszX		
GUN	10.17	139	P	30	27.40	0.3	Z	20s	0.69um			4.3Msz			pP	06	02.50			28kmX	
	0.4s		14.00nm			5.6mb X	CHG	31.77	304	eP	02	55.40	0.3			sP	06	07.50			
PKI	10.20	142	P	30	25.80	-1.6		1.3s	31.73nm			5.0mb			PP	08	04.00				
	0.6s		32.00nm			5.7mb X	MRWA	32.44	197	iPd	03	00.70	-0.1			ScS	15	39.00			
GBA	22.12	182	P	32	58.00	3.8X	FORT	32.46	177	eP	03	00.30	-0.6	80D	56.70	352	iPc	06	13.00	-0.7	
NB2	48.48	323	P	36	38.00	-2.4	KMI	32.53	317	Pc	03	02.00	0.2		1.1s		32.00nm			5.3mb	
	0.7s		0.90nm			3.9mb		1.8s	70.00nm			5.2mb	PRZ	58.94	320	eP	06	30.00	0.1		
MBC	67.66	5	eP	38	57.00	1.7	Z	20s	2.00um			4.8Msz		1.0s		50.00nm			5.6mb		
YKA	81.49	6	eP	40	15.80	0.9	QLP	33.07	150	eP	03	04.80	-1.4	KSH	59.14	316	P	06	32.80	1.5	
	0.7s		0.60nm			3.7mb	TIA	35.28	347	eP	03	24.30	-0.9		0.6s		70.00nm			6.0mb	
	S.D. = 1.5	on	9 of	10	obs.		CD2	36.01	326	Pc	03	30.40	-1.1	Z	24s		0.67um			4.7MszX	
								1.2s	69.00nm			5.5mb			PP	08	49.00				
* APR 08, 1993 05h 30m 01.19±1.62s							Z	20s	0.56um			4.3Msz			eS	14	42.00				
32.345 S ±16.3km 70.851 W ±16.8km							MTMJ	36.15	16	eP	03	31.90	-0.8			ScS	16	12.00			
DEPTH = 100.0km (geophysicist)							STK	36.49	158	eP	03	35.00	-0.4	YAK	60.09	2	iPc	06	36.50	-0.7	
CHILE-ARGENTINA BORDER REGION (127)								0.5s	6.10nm			4.8mb		1.0s		76.00nm			5.8mb		
MD 4.1 (SAN).							CMS	37.92	152	eP	03	48.40	1.0			eS	14	53.00			
								0.7s	6.00nm			4.6mb			e	16	24.00				
JACH	0.40	147	iP	30	15.30	-1.4	TIY	37.96	342	iPc	03	47.30	-0.5	ELT	61.03	334	eP	06	42.60	-1.1	
			iS	30	25.66		Z	22s	1.29um			4.7Msz		0.9s		17.00nm			5.2mb		
PEL	0.81	170	iP	30	19.69	-0.2	E	14s	0.36um							eS	16	27.00			
			iS	30	33.09		ADE	38.37	164	e(P)	03	53.00	1.7	MGD	61.08	14	eP	06	43.50	-0.6	
FCH	1.09	154	iP	30	23.75	0.5	BJI	39.16	348	eP	03	57.50	-0.2		0.9s		60.00nm			5.7mb	
			iS	30	40.86			1.0s	26.00nm			5.0mb				e	06	50.00			
LCCH	1.28	208	iP	30	25.26	0.2	Z	24s	0.32um			4.1MszX				e	07	00.00			
CHCH	1.59	174	eP	30	29.50	0.5			S	09	36.00		FRU	61.57	319	(P)	06	47.50	-0.2		
			eS	30	50.29				eS	09	50.00		QUE	62.90	303	eP	06	46.70	-10.3X		
LNV	1.67	196	iP	30	29.88	-0.1	SNY	39.90	357	Pd	04	04.20	0.4		69.72	1	iPd	07	39.00	-0.3	
			iS	30	51.87		Z	24s	0.77um			4.5MszX		1.4s		33.00nm			5.1mb		
CACH	1.78	173	eP	30	31.85	0.3			S	10	06.00					e	07	57.00			
			eS	30	56.94				SS	12	54.00		MAIO	70.42	308	iPd	07	45.00	0.6		
RTLL	2.27	64	eP	30	38.50	0.7	LZH	39.99	331	iPc	04	05.00	0.1				iPd	07	05.00		
			S	31	06.00			1.4s	89.00nm			5.4mb	NRI	72.11	347	iPd	07	53.70	-0.1		
CFA	2.34	72	ePd	30	39.90	1.1	Z	24s	0.81um			4.5MszX		1.3s		50.00nm			5.3mb		
			S	31	09.00				pP	04	19.50	56kmX				e	08	06.00			
MRA	4.35	92	ePd	31	05.90	-0.3	ARMA	40.08	145	iPd	04	05.90	0.3			e	10	31.00			
TCA	5.42	81	iP	31	20.00	-1.1		0.7s	28.00nm			5.2mb				eS	17	12.00			
			i	32	18.00		SHL	40.77	308	iPc	04	11.20	-0.3	SVE	75.41	329	iPc	08	13.00	-0.2	
	S.D. = 0.8	on	11 of	11	obs.		HHC	41.10	343	Pc	04	13.00	-0.9		1.0s		80.00nm			5.6mb	
								1.0s	20.00nm			4.8mb	ILT	75.71	19	iPc	08	14.40	-0.3		
APR 08, 1993 05h 56m 33.01±0.72s							8WA	41.56	152	eP	04	17.30	-0.3		1.2s		23.00nm			5.0mb	
1.828 N ± 3.3km 126.417 E ± 4.9km									i	04	24.90		ARU	76.34	328	iPc	08	18.00	-0.5		
DEPTH = 49.5 ± 6.7 km									eP	04	19.20	1.4		1.0s		70.00nm			5.6mb		
5.1mb (52 obs.) 4.3Msz (8 obs.)							8FD	41.59	160	eP	04	19.20	1.4				i	08	27.50		
NORTHERN MOLUCCA SEA (266)							CN2	41.80	359	eP	04	22.00	2.6	SDN	78.92	34	eP	08	32.79	0.1	
								0.8s	4.80nm			4.3mb		1.0s		87.80nm			5.7mb		
							Z	20s	0.43um			4.3Msz				eP	08	39.70	0.7		
TNE	1.37	138	iP	57	55.30	59.2X			eP	04	28.00	20kmX	AVY	79.90	251	iPc	08	39.70	0.7		
DAV	5.29	351	eP+	57	51.00	-0.6			eS	10	29.00		VTY	80.09	250	eP	08	40.70	0.7		
SWI	5.53	119	ePc	57	54.50	-0.4			eS	04	26.10	0.6	ABM	80.33	250	eP	08	41.90	0.6		
AAI	5.76	162	ePc	57	58.50	0.4	CAN	42.57	152	eP	04	32.00		OPO</							

08d 06h

SVW	82.59	29 eP	08 53.58	1.5
	0.7s	11.07nm		5.0mb
TTA	82.73	27 eP	08 53.88	1.1
	1.0s	15.06nm		5.0mb
RSO	83.89	29 eP	08 58.53	-0.4
PYA	83.95	314 eP	09 03.00	3.6X
BRW	84.06	18 iPd	09 01.03	1.7
CP2	84.23	29 ePd	09 01.60	0.9
IMA	84.24	24 iPc	09 01.63	1.1
	1.0s	14.72nm		5.0mb
PMR	85.75	29 eP	09 08.14	0.2
	1.1s	30.15nm		5.4mb
KLU	87.29	29 (P)	09 16.10	0.5
MOS	87.82	326 eP	09 18.00	-0.1
		e	09 30.00	
OBN	88.41	325 eP	09 21.00	0.1
	1.0s	35.00nm		5.6mb
		e	09 32.00	
INK	92.04	21 eP	09 38.50	0.9
	1.0s	3.00nm		4.7mb
MBC	93.86	13 eP	09 46.50	0.6
	1.0s	2.00nm		4.5mb
VRI	95.45	316 eP	09 51.00	-2.8
MLR	96.04	316 eP	09 58.00	1.3
UZH	97.93	319 iPd	10 05.00	0.1
	1.2s	40.00nm		5.8mb
		i	10 13.00	
		i	10 19.00	
DAG	99.10	352 eP	10 09.00	-0.7
	0.8s	2.99nm		4.9mb
NB2	100.34	333 Pd diff	10 14.20	-1.4
	0.9s	2.90nm		4.8mb
YKA	101.35	24 ePd diff	10 19.00	-1.0
	1.2s	1.40nm		4.5mb
RSSD	115.87	38 ePKP	15 11.47	-1.0
FVM	127.78	37 ePKP	15 32.95	-2.2X
KIC	130.57	280 (PKP)	15 42.00	0.9
LKO	130.88	284 PKP	15 42.78	1.0
PEL	144.96	155 iPKP	16 07.00	0.0
MDZ	145.94	157 i(PKP)	16 11.50	2.8X
CFA	147.31	156 e(PKP)	16 10.60	-0.3
TCA	148.86	162 iPKP	16 18.50	5.0X
CNCB	159.45	137 PKP	16 30.00	1.3
LPB	159.56	136 PKP	16 30.00	1.3
ZOBO	159.73	136 PKP	16 31.20	2.1X
PPD	159.80	186 (PKP)	16 30.00	1.7
SIV	164.11	153 ePKP	16 48.00	15.2X

S.D. = 1.1 on 111 of 122 obs.

APR 08, 1993 06h 08m 12.17 ± 0.48s
 49.155 N ± 3.3km 6.800 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 2.5 (STR), 2.4 (UCC).

RUP	0.57	17 ePg	08 23.41	-0.4
WLF	0.66	321 iPd	08 25.77	0.4
		iS	08 37.49	
LANF	0.68	104 Pg	08 26.17	0.4
SRBF	0.73	109 Pg	08 26.47	-0.1
HOFF	0.80	105 Pg	08 28.00	0.4
CDF	0.81	157 Pg	08 28.08	0.2
		Sg	08 40.08	
WLS	0.83	154 Pg	08 27.40	-0.8
		Sg	08 40.68	
ABH	0.88	34 ePg	08 28.18	-0.8
ECH	0.97	166 Pg	08 31.24	0.6
		Sg	08 43.91	
VITF	1.08	210 Pg	08 32.08	-0.5
		Sg	08 47.23	
MOF	1.32	170 Pg	08 36.84	0.2
		Sg	08 54.97	
BSF	1.32	180 Pg	08 36.66	0.0
		Sg	08 54.72	
FEL	1.51	147 ePg	08 39.44	0.0
TNS	1.51	44 ePnd	08 40.50	1.1
		eSn	08 59.20	
		eSg	09 03.40	
LOMF	1.81	179 Pg	08 46.98	3.3X
GEC2	4.55	91 Pn	09 22.00	-0.8
		Sn	10 12.40	

S.D. = 0.6 on 15 of 16 obs.

& APR 08, 1993 06h 24m 16.83s
 45.031 N 122.643 W
 DEPTH = 19.9km
 WASHINGTON-OREGON BORDER REGION (28)

<SEA-P>. MD 2.0 (SEA).

SHW	1.20	14 eP	24 37.75	-0.8
		S	24 54.24	
VGB	1.40	69 eP	24 42.46	1.0
		S	25 00.18	
BMW	1.50	344 eP	24 41.96	-0.9
		3 obs. associated		

? APR 08, 1993 06h 37m 19.41 ± 1.14s
 35.291 N ± 12.3km 75.551 E ± 14.3km
 DEPTH = 33.0km (normal)
 3.5mb (2 obs.)
 EASTERN KASHMIR (302)

NDI	6.74	167 ePn	38 59.00	0.4
		eSn	40 13.50	
GKN	10.61	131 P	39 53.20	0.8
KKN	11.17	129 P	39 59.80	-0.2
DMN	11.18	131 P	40 00.40	0.1
PKI	11.40	130 P	40 02.80	-0.5
GUN	11.47	127 P	40 04.00	-0.3
GBA	21.66	175 Pc	42 08.60	-0.5
	0.6s	2.00nm		3.7mb
YKA	82.21	5 eP	49 38.20	0.1
	0.6s	0.20nm		3.3mb
TCA	146.61	265 iPKP	57 02.20	4.4X
		S.D. = 0.5 on 8 of 9 obs.		

? APR 08, 1993 07h 34m 17.30 ± 2.50s
 32.196 S ± 24.6km 178.036 W ± 24.3km
 DEPTH = 483.5 ± 20.4 km
 4.2mb (2 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ	6.17	208 P	35 57.40	1.9
PUZ	6.60	206 P	36 01.90	2.0
		eS	37 15.20	
KUZ	6.87	227 P	36 01.50	-1.1
NOZ	7.16	205 P	36 08.90	3.2X
URZ	7.24	212 P	36 05.20	-1.2
		S	37 25.00	
TAZ	7.50	215 eP	36 11.30	2.2X
OUZ	7.60	244 P	36 04.50	-5.7X
WLZ	7.70	221 eP	36 10.60	-0.7
PATZ	7.73	215 eP	36 11.60	-0.2
PAHZ	7.76	210 eP	36 12.70	0.7
MOH	7.95	208 eP	36 15.70	1.7
WHH	8.02	212 eP	36 14.60	-0.2
TTH	8.43	208 eP	36 20.70	1.6
MOZ	8.59	221 P	36 20.40	-0.4
NGZ	8.68	215 eP	36 20.10	-1.8
CNZ	8.72	215 eP	36 21.60	-0.7
WAHZ	8.76	210 P	36 21.60	-1.0
BSZ	9.48	215 eP	36 28.60	-1.8
PGZ	9.57	207 eP	36 31.10	-0.2
NRZ	9.66	220 eP	36 32.00	-0.2
MNG	9.89	210 eP	36 32.00	-2.7X
		eS	38 16.60	
MTW	10.34	208 eP	36 40.40	1.0
KIW	10.34	211 eP	36 38.10	-1.3
CAW	10.47	210 eP	36 39.90	-0.9
MOW	10.66	208 eP	36 43.90	1.1
MRW	10.73	211 P	36 42.50	-1.1
		eS	38 34.00	
WEL	10.75	210 eP	36 45.70	2.0
QRZ	11.47	219 eP	36 48.90	-2.6
		eS	38 45.30	
THZ	11.98	215 eP	36 55.90	-1.1
		eS	38 58.20	
KHZ	12.20	211 P	36 59.20	0.0
		eS	39 04.40	
DSZ	12.52	218 eP	37 01.20	-1.4
LTZ	13.06	213 eP	37 09.80	1.4
		eS	39 19.80	
WVZ	14.02	216 eP	37 19.80	1.6
BWZ	15.52	214 eP	37 35.60	2.2
ODZ	15.56	211 eP	37 38.90	5.0X
CTA	34.10	282 iPc	40 22.80	1.0
	1.0s	7.50nm		4.1mb
ASPA	43.01	269 eP	41 35.00	0.4
	0.5s	5.50nm		4.3mb
ZOBO	97.45	114 P	46 59.10	-1.3
BCAO	148.31	213 iPKPd	53 25.40	19.4X
	0.2s	16.00nm		
NB2	150.52	351 PKP	53 30.20	22.2X
	0.5s	4.90nm		

HFS 150.99 348 ePKP 53 30.50 21.9X
 0.4s 3.40nm
 S.D. = 1.4 on 33 of 41 obs.

APR 08, 1993 08h 20m 08.01 ± 1.02s
 16.004 N ± 5.7km 60.903 W ± 12.0km
 DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
 ML 3.0 (FDF), MD 3.3 (TRN).

DEG	0.34	334 iPc	20 16.21	-0.2
		S	20 21.04	
SFG	0.38	311 iPc	20 16.62	-0.2
MGG	0.41	258 iPd	20 17.09	-0.1
SEG	0.70	305 eP	20 21.40	0.0
		S	20 29.30	
PAG	0.75	272 ePd	20 21.98	-0.2
		S	20 31.22	
DPMT	0.87	212 eP	20 24.00	0.1
		eS	20 32.00	
BPA	1.38	319 eP	20 31.40	0.2
		S	20 48.00	
MGH	1.45	300 eP	20 32.55	0.4
		S	20 50.80	
SLW	1.97	181 eP	20 39.23	-0.5
		eS	21 02.27	
SLB	2.17	184 eP	20 43.13	0.6
		eS	21 06.96	

S.D. = 0.4 on 10 of 10 obs.

? APR 08, 1993 08h 33m 25.38 ± 1.72s
 16.906 N ± 18.1km 99.773 W ± 16.7km
 DEPTH = 33.0km (normal)
 NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.09	246 iP	33 30.75	-0.4
		iS	33 35.75	
III	1.49	11 iP	33 50.00	-0.3
		(S)	34 12.50	
PPM	2.41	27 eP	34 03.00	-0.8
		(S)	34 35.00	
IIA	2.47	25 eP	34 03.00	-1.2
UNM	2.48	13 iP	34 11.00	6.4X
		iS	34 42.00	
CRX	2.49	2 (P)	34 11.00	6.2X
OXX	2.92	86 (P)	34 27.50	16.7X
IISM	3.08	47 (P)	34 14.50	1.7
MRX	3.09	334 eP	34 14.00	1.0
		iS	34 53.00	
CGX	4.47	309 (P)	34 52.00	19.1X

S.D. = 1.4 on 6 of 10 obs.

& APR 08, 1993 09h 10m 04.69s
 39.170 N 76.800 W
 DEPTH = 5.0km (geophysicist)
 CHESAPEAKE BAY REGION (493)
 <MACRO>. Felt at Columbia, Maryland.

NED	1.00	57 iPc	10 24.30	0.2
		iS	10 37.50	
BWD	1.14	56 iPc	10 26.20	-0.2
		iS	10 42.30	

2 obs. associated

& APR 08, 1993 09h 25m 41.96s
 60.237 N 152.174 W
 DEPTH = 69.4km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.7 (AEIC).

RED	0.35	302 iPd	25 53.05	-0.6
		eS	26 02.41	
RSO	0.37	308 P	25 53.40	-0.6
RS1	0.37	308 P	25 53.50	-0.5
RS2	0.37	308 P	25 53.50	-0.5
RDN	0.40	314 iPd	25 53.52	-0.7
		eS	26 02.55	
INE	0.48	249 iPd	25 54.09	-0.8
		eS	26 04.41	
INW	0.51	251 P	25 54.20	-0.9
		S	26 04.80	

SPU	0.95	3	iPd	25	59.27	-0.8
CKL	0.97	355	iPd	25	59.49	-0.9
CKT	0.97	359	iPd	25	59.35	-1.0
CKN	0.99	360	iPd	26	00.06	-0.6
SLKM	1.01	74	iPc	25	59.85	-1.0
CPAM	1.02	1	ePd	26	00.38	-0.7
CP2	1.03	358	eP	25	59.76	-1.5
CRP	1.03	0	ePd	25	59.39	-1.9
			S	26	14.18	
BGL	1.04	354	iPd	26	00.44	-0.8
AUL	1.07	217	eP	26	00.76	-0.8
AUE	1.07	215	eP	26	00.62	-0.9
AUH	1.09	217	eP	26	01.06	-0.8
AUW	1.09	218	eP	26	01.03	-0.8
AUI	1.10	216	eP	26	01.53	-0.5
PDB	1.11	247	iPd	26	00.79	-1.3
			eS	26	15.80	
SEW	1.37	94	eP	26	04.95	-0.5
SUA	1.42	29	iPd	26	05.78	-0.5
MPA	1.42	79	iPc	26	05.75	-0.5
CDD	1.51	210	ePd	26	06.38	-1.1
MCNL	1.52	227	iPd	26	06.14	-1.5
			eS	26	24.70	
PMS	1.63	51	P	26	09.00	-0.2
			S	26	28.80	
SYI	1.64	184	eP	26	10.24	1.1
PTE	1.68	67	ePc	26	08.80	-0.9
SKT	1.78	10	ePd	26	09.68	-1.4
PWA	1.81	37	P	26	12.10	0.6
SVW	1.91	299	eP	26	09.78	-3.2
			eS	26	30.17	
PLRM	2.01	46	iPc	26	13.24	-1.1
PMR	2.01	46	eP	26	11.90	-2.4
GHO	2.21	44	eP	26	16.17	-1.0
SML	2.45	48	eP	26	18.83	-1.6
SCM	2.85	54	eP	26	24.64	-1.5
VLZ	3.01	70	eP	26	26.38	-1.8
KLU	3.31	65	iPc	26	29.91	-2.6
FBA	5.10	22	(P)	26	53.35	-4.2

45 obs. associated

* APR 08, 1993 09h 48m 03.86±0.86s
37.902 N ±11.2km 47.985 E ± 7.8km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.)

NORTHWESTERN IRAN (345)
Several people injured in the
Sarab-Ardabil area.

TAB	1.32	278	iPc	48	27.80	-0.6
GRS	2.05	322	iPd	48	38.00	-1.0
	1.1s	1000.00nm				
			i	49	04.00	
SHE	2.77	10	iPc	48	50.00	0.9
	1.0s	210.00nm				
			i	49	28.00	
BAK	2.89	30	eP	48	56.00	5.3X
			eS	49	37.00	
KRV	3.03	335	P	48	53.00	0.3
TEH	3.48	127	eP	49	04.00	4.7X
KER	3.61	192	eP	49	14.00	12.8X
GRO	5.72	343	eP	49	37.50	6.7X
	Z	12s	2.00um			
			eS	50	38.00	
ONI	5.81	325	eP	49	36.00	3.8X
ASH	8.19	86	eP	49	56.80	-8.8X
MAIO	9.33	96	eP	50	22.00	0.5
OBN	18.86	339	eP	52	30.00	3.9X
MOS	19.16	342	eP	52	31.00	1.3
ARU	19.82	18	eP	52	33.00	-4.3X
	1.2s	150.00nm				5.2mb
			e	56	23.00	
			e	56	47.00	
SVE	20.70	20	ePd	52	44.80	-1.7
	1.1s	60.00nm				4.9mb
			e	53	11.80	
FRU	20.84	68	eP	52	48.00	-0.1
	2.0s	60.00nm				4.6mb
			e	53	17.00	
OHR	21.19	287	e(P)	52	54.20	2.5
PRZ	23.61	69	eP	53	20.00	4.2X
	1.0s	20.00nm				4.6mb
GEC2	27.00	305	eP	53	46.40	-1.3
	0.7s	1.01nm				3.6mb X
			e	53	51.10	
			e	53	55.40	
			e	54	03.80	

BCAO	42.80	226	iPd	56	03.20	-0.3
	0.9s	9.00nm				4.5mb
BOD	46.56	42	eP	56	37.00	3.9X
ILT	68.85	17	iPd	59	09.60	-0.4
	1.4s	11.00nm				4.9mb
YKA	78.97	352	eP	00	13.40	4.6X
	0.8s	0.90nm				3.9mb

S.D. = 1.3 on 12 of 23 obs.

% APR 08, 1993 09h 57m 31.09±0.72s
26.869 S ± 6.7km 26.798 E ± 7.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

BFS	0.03	203	eP	57	33.50	1.1
			S	57	34.50	
PRY	0.61	96	eP	57	42.50	-0.7
			S	57	49.00	
KSR	1.00	5	eP	57	50.60	-0.1
			S	58	04.50	
SWZ	1.35	256	eP	57	56.10	-0.5
			S	58	15.20	
SEK	1.62	153	eP	58	01.40	0.8
			S	58	20.00	
SLR	1.75	50	eP	58	03.00	0.6
			S	58	25.00	
BLF	2.30	193	eP	58	09.50	-0.8

S.D. = 1.0 on 7 of 7 obs.

APR 08, 1993 10h 02m 41.69±0.75s
40.478 N ± 6.9km 21.891 E ± 7.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.2 (THE).

FNA	0.50	308	ePg	02	51.64	-0.1
			eSg	03	01.24	
LIT	0.59	129	ePg	02	52.88	-0.8
GRG	0.62	39	ePg	02	53.92	-0.2
VAY	0.99	31	ePn	03	01.00	0.6
OHR	1.04	308	iPn	03	01.20	-0.2
AGG	1.49	167	ePb	03	09.36	0.8

S.D. = 0.8 on 6 of 6 obs.

% APR 08, 1993 10h 25m 09.89±0.81s
26.271 S ± 6.8km 27.697 E ± 8.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

PRY	0.68	197	eP	25	24.10	0.5
			S	25	31.60	
SLR	0.75	45	eP	25	25.00	0.1
			S	25	35.60	
KSR	0.83	299	eP	25	26.50	0.0
			S	25	37.00	
SEK	2.04	182	eP	25	45.00	-0.5
			S	26	09.90	
SWZ	2.31	246	eP	25	49.20	-0.1
			S	26	18.90	

S.D. = 0.5 on 5 of 5 obs.

& APR 08, 1993 11h 00m 56.31s
58.340 N 154.137 W
DEPTH = 69.4km
ALASKA PENINSULA (12)
<AEIC>. ML 2.6 (AEIC).

CDD	0.65	23	iP	01	10.01	-0.8
			eS	01	20.55	
MCNL	0.85	353	iP	01	12.45	-0.8
			eS	01	25.04	
SYI	0.96	73	eP	01	13.46	-1.0
			eS	01	27.20	
KDC	1.06	123	eP	01	13.68	-2.0
			eS	01	27.57	
AUI	1.06	20	eP	01	14.93	-0.9
			eS	01	29.39	
AUH	1.09	19	eP	01	15.47	-0.8
AUE	1.10	21	eP	01	15.63	-0.6
AUL	1.11	19	eP	01	15.55	-0.9
PDB	1.45	359	iP	01	19.73	-1.3
			eS	01	37.56	
INW	1.81	16	eP	01	24.47	-1.5
INE	1.81	17	eP	01	24.77	-1.3
CNPM	1.92	50	eP	01	25.86	-1.5

			eS	01	48.32	
RED	2.20	18	eP	01	29.88	-1.5
RS1	2.24	18	eP	01	30.75	-1.3
RSO	2.24	18	eP	01	30.85	-1.2
RS2	2.24	18	eP	01	30.73	-1.4
REF	2.28	18	iP	01	31.13	-1.4
NKA	2.83	30	eP	01	39.54	-0.5
SVW	2.88	345	eP	01	37.37	-3.4
SLKM	2.96	41	eP	01	38.94	-2.9
SEW	2.99	52	eP	01	39.77	-2.5
CKL	3.01	17	eP	01	41.05	-1.6
CKT	3.03	18	iP	01	41.27	-1.7
SPU	3.04	19	eP	01	41.05	-2.0
BGL	3.06	16	eP	01	42.03	-1.4
CP2	3.09	17	eP	01	42.38	-1.5
CPAM	3.09	18	eP	01	42.25	-1.6
CRP	3.10	18	eP	01	41.02	-3.0
MPA	3.26	47	eP	01	43.79	-2.2
SUA	3.57	27	eP	01	48.34	-2.2
PTE	3.63	44	eP	01	48.00	-3.2
PMS	3.72	36	P	01	50.00	-2.6
SKT	3.88	19	eP	01	52.26	-2.5
PLRM	4.12	36	eP	01	54.38	-3.8
KLU	5.20	49	eP	02	08.85	-4.6

35 obs. associated

APR 08, 1993 11h 30m 16.15±2.20s
20.600 S ± 7.0km 176.739 W ± 7.2km
DEPTH = 307.3 ± 22.8 km
4.7mb (25 obs.)

FIJI ISLANDS REGION (181)

SVA	5.16	298	eP	32	31.60	55.2X
BKM	14.49	279	iPd	33	31.50	1.7
			iS	36	18.50	
DZM	15.74	262	iPc	33	46.00	2.3
			iS	36	39.80	
OUZ	16.87	208	eP	33	56.30	0.9
KUZ	17.38	201	P	34	01.70	0.9
H8Z	17.48	193	eP	34	01.40	-0.4
URZ	18.39	196	P	34	08.20	-2.8
			S	37	21.50	
WLZ	18.45	199	P	34	12.40	0.7
NOZ	18.52	193	eP	34	10.90	-1.4
PAHZ	18.97	195	eP	34	16.60	-0.3
MAHZ	19.10	193	eP	34	20.40	2.2
MOZ	19.28	200	P	34	22.10	2.1
NGZ	19.65	198	eP	34	22.80	-1.1
TTH	19.67	195	eP	34	22.40	-1.4
WAHZ	19.94	196	P	34	26.00	-0.5
TEHZ	20.10	195	eP	34	28.00	-0.1
PGZ	20.83	195	P	34	34.80	-0.3
MNG	21.03	197	P	34	35.10	-2.0
			S	38	14.50	
MTW	21.53	196	P	34	41.00	-0.9
CAW	21.60	197	eP	34	41.40	-1.2
QRZ	22.14	202	eP	34	48.20	0.4
	0.5s	148.00nm				5.6mb
THZ	22.85	200	eP	34	55.40	0.8
DSZ	23.21	202	P	34	58.80	0.9
KHZ	23.24	198	P	34	58.30	0.1
LTZ	23.97	200	P	35	04.70	-0.3
	0.5s	48.00nm				5.2mb
WVZ	24.75	202	P	35	13.20	1.2
BWZ	26.32	202	eP	35	23.80	-2.4
ARMA	30.09	245	iPd	36	00.90	1.0
	0.4s	7.00nm				4.5mb
RMQ	32.11	253	iPd	36	18.20	0.9
	0.9s	16.00nm				4.5mb
CNB	33.15	237	iPc	36	27.00	0.7
	0.3s	11.00nm				4.8mb
CAN	33.44	237	iPc	36	28.90	0.2
BWA	33.65	238	iPc	36	28.50	-2.0
CTA	34.65	264	iPc	36	39.50	

08d 11h

GUA 50.71 309 eP 38 46.30 -1.2
 GUMO 50.78 309 eP 38 46.60 -1.4
 WARB 51.93 252 eP 38 55.30 -1.1
 ADK 72.17 0 eP 41 06.35 -2.7
 0.5s 27.38nm 5.2mb
 SDN 76.89 9 (P) 41 33.62 -2.2
 1.2s 101.46nm 5.4mb
 BCH 77.22 45 eP 41 38.33 0.0
 e 42 54.49
 ARN 77.60 42 eP 41 39.97 -0.3
 e 42 45.90
 PEC 78.44 47 eP 41 44.89 0.0
 0.9s 15.24nm 4.8mb
 ISA 78.57 45 eP 41 45.58 0.0
 0.8s 19.48nm 4.9mb
 CMB 78.74 42 eP 41 46.02 -0.4
 0.8s 13.85nm 4.8mb
 ORV 78.98 40 eP 41 47.76 0.2
 LGPM 79.04 39 eP 41 48.45 0.4
 MNPM 79.35 43 P 41 48.02 -2.0
 MEMM 79.44 43 eP 41 51.38 1.4
 GSC 79.47 46 eP 41 50.86 0.4
 GLA 79.60 49 eP 41 52.38 1.3
 LBFM 79.87 39 eP 41 52.93 0.4
 TPNV 80.77 45 eP 41 57.83 0.6
 0.6s 6.20nm 4.6mb
 TUC 82.11 51 eP 42 05.42 1.2
 0.8s 15.50nm 4.9mb
 VIPM 82.57 37 P 42 07.01 0.6
 CROR 82.66 36 P 42 07.12 0.4
 ARUT 83.10 45 eP 42 10.05 0.8
 VGB 83.11 36 eP 42 08.86 0.0
 FMW 83.52 34 P 42 11.60 0.5
 JBO 83.59 36 P 42 11.91 0.6
 CP2 83.93 12 (P) 42 10.33 -2.6
 CRP 83.95 12 eP 42 10.95 -2.0
 JCW 84.18 33 P 42 14.14 -0.1
 MSU 84.33 45 eP 42 16.53 1.1
 WAH2 84.54 35 P 42 16.63 0.7
 TTA 84.84 9 ePd 42 16.68 -0.6
 1.1s 12.05nm 4.6mb
 WTV 84.91 35 P 42 18.09 0.2
 SAW 85.20 35 P 42 19.66 0.4
 SRU 85.74 46 eP 42 22.58 0.2
 BALM 85.94 16 eP 42 21.61 -1.1
 DPW 85.95 35 eP 42 22.75 -0.2
 LTX 86.12 57 eP 42 24.58 0.3
 PV09 86.37 47 eP 42 26.07 0.5
 PV10 86.38 47 eP 42 25.76 0.2
 ALO 86.55 51 eP 42 26.65 0.3
 0.8s 4.63nm 4.4mb
 PV08 86.74 47 eP 42 27.56 0.2
 BJI 86.79 315 eP 42 27.00 -0.1
 2.0s 62.00nm 5.2mb
 FBA 88.09 12 eP 42 30.82 -2.0
 0.7s 6.99nm 4.7mb
 TIY 88.23 311 eP 42 34.60 0.5
 BW06 88.23 43 eP 42 34.14 -0.1
 0.8s 3.07nm 4.3mb
 LCCM 88.39 39 eP 42 35.50 0.7
 XAN 89.13 307 P 42 38.50 0.1
 1.0s 5.40nm 4.4mb
 INK 94.06 15 eP 43 00.50 0.3
 0.6s 1.00nm 4.1mb
 YKA 96.11 24 eP 43 08.30 -1.4
 0.9s 1.20nm 4.1mb
 NB2 139.21 354 PKP 48 58.10 -9.7X
 0.9s 1.90nm
 DMU 145.86 11 ePKP 49 20.40 0.9
 DCN 146.32 11 ePKP 49 21.80 1.6
 DLF 146.50 11 ePKP 49 21.60 1.1
 KSP 148.12 344 iPKPc 49 27.20 4.0X
 SPC 148.41 339 ePKP 49 27.20 3.2X
 CLL 148.41 348 iPKPd 49 27.30 3.7X
 1.1s 29.00nm
 BRG 148.64 347 iPKP 49 28.00 4.0X
 1.0s 20.00nm
 MLR 148.94 328 ePKP 49 30.00 5.2X
 MOX 149.30 350 ePKP 49 29.60 4.5X
 1.5s 22.00nm
 PRU 149.34 346 PKP 49 30.00 4.9X
 e 49 35.50
 TNS 150.15 353 ePKPd 49 32.00 5.6X
 GRF 150.29 350 ePKP 49 32.50 5.9X
 e 49 39.50
 KHC 150.36 346 PKPd 49 32.60 5.9X
 1.0s 11.40nm

DOU 150.55 358 PKPc 49 39.60
 GEC2 150.60 346 ePKPc 49 33.20 6.3X
 0.8s 0.96nm -0.1
 WLF 150.91 356 iPKPc 49 33.30
 1.1s 37.80nm ec 49 40.20
 FLN 151.74 5 ePKP 49 35.30 6.6X
 0.6s 13.00nm
 LDF 151.94 5 ePKP 49 35.60 6.6X
 0.7s 12.00nm
 CDF 152.06 354 ePKP 49 36.30 6.9X
 GRR 152.08 6 ePKP 49 36.20 7.0X
 0.5s 14.65nm
 LPF 152.41 6 ePKP 49 37.10 7.4X
 0.7s 31.20nm
 HAU 152.55 356 ePKP 49 37.20 7.2X
 BSF 152.68 355 ePKP 49 37.40 7.1X
 VBY 153.27 341 ePKP 49 31.60 0.6
 LOR 153.39 359 ePKP 49 39.30 8.2X
 0.7s 6.40nm
 SSF 153.60 360 ePKP 49 39.90 8.5X
 LBF 153.67 359 ePKP 49 39.80 8.2X
 AVF 153.87 360 ePKP 49 40.00 8.2X
 MFF 153.91 5 ePKP 49 40.30 8.5X
 0.7s 5.75nm
 SMF 154.02 359 ePKP 49 40.20 8.2X
 BGF 154.11 1 ePKP 49 40.80 8.7X
 TCF 154.36 2 ePKP 49 41.20 8.7X
 0.8s 6.45nm
 LSF 154.38 3 ePKP 49 41.20 8.7X
 KIC 163.86 150 PKP 49 45.40 1.3
 TIC 163.97 149 PKP 49 45.40 1.2
 S.D. = 1.1 on 94 of 124 obs.
 ? APR 08, 1993 11h 31m 32.94±0.97s
 17.768 N ±14.2km 95.878 W ±9.4km
 DEPTH = 33.0km (normal)
 OAXACA, MEXICO (60)
 OXX 1.06 230 iP 31 51.75 0.1
 IS 32 18.00
 IISM 1.87 311 iP 32 02.75 -0.4
 IS 32 36.50
 PPM 2.91 297 iP 32 19.50 1.0
 SCX 3.26 108 (P) 32 23.00 0.0
 III 3.47 281 iP 32 25.50 -0.7
 S.D. = 0.9 on 5 of 5 obs.
 ? APR 08, 1993 11h 34m 30.36±1.49s
 39.106 N ±16.9km 27.751 E ±43.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).
 IZM 0.80 209 ePg 34 46.00 0.0
 eSg 34 58.10
 KCT 1.23 22 ePn 34 53.30 0.0
 EDC 1.24 4 ePn 34 53.50 0.1
 BNT 1.25 6 ePn 34 53.60 -0.1
 S.D. = 0.1 on 4 of 4 obs.
 APR 08, 1993 11h 47m 06.75±0.95s
 41.585 N ±9.9km 22.276 E ±5.9km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.3 (SKO), 2.2 (THE).
 VAY 0.34 140 iPg 47 13.80 -0.1
 ISg 47 19.30
 KNT 0.63 132 iPg 47 18.73 -0.7
 eSg 47 27.76
 GRG 0.64 171 ePg 47 19.52 0.0
 SKO 0.74 302 ePg 47 21.50 0.3
 eSg 47 32.00
 FNA 1.05 221 ePg 47 27.72 1.1
 ISg 47 43.60
 SRS 1.10 115 ePg 47 27.76 0.4
 SOH 1.12 133 ePg 47 27.28 -0.4
 eSg 47 43.16
 OHR 1.21 247 ePn 47 28.00 -1.3
 PAIG 1.97 147 ePb 47 41.12 0.6
 GEC2 9.44 323 e(P) 49 33.00 7.1X
 0.8s 9.20nm 5.2mb X
 S.D. = 0.8 on 9 of 10 obs.

& APR 08, 1993 12h 39m 06.52s
 34.009 N 117.221 W
 DEPTH = 8.1km
 SOUTHERN CALIFORNIA (43)
 <PAS>P>. ML 3.0 (PAS). Feit.
 PEC 0.13 157 iPc 39 09.42 0.0
 SSK 0.44 297 ePc 39 14.88 -0.6
 S 39 20.83
 PLM 0.72 155 ePc 39 19.68 -1.3
 S 39 30.00
 GSC 1.33 15 ePd 39 30.69 -0.7
 S 39 46.24
 ISA 1.95 328 ePn 39 38.57 -1.7
 ePg 39 41.85
 GLA 2.22 115 ePn 39 42.01 -2.1
 BCH 2.64 297 eP 39 50.25 0.1
 MEMM 3.91 340 (P) 40 07.05 -1.0
 ARUT 4.86 38 (P) 40 19.40 -2.4
 9 obs. associated
 % APR 08, 1993 12h 41m 21.98±0.78s
 31.024 S ±6.6km 116.912 E ±11.2km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)
 BAL 0.45 337 iPc 41 30.70 -0.5
 iS 41 36.10
 KLB 0.92 128 eP 41 39.50 -0.1
 eS 41 50.80
 MUN 1.13 212 iPc 41 43.00 -0.1
 eS 41 57.30
 NWA0 1.92 172 eP 41 55.00 0.0
 eS 42 21.00
 MRWA 1.97 336 iPc 41 56.30 0.6
 eS 42 21.00
 S.D. = 0.5 on 5 of 5 obs.
 APR 08, 1993 12h 49m 28.71±0.21s
 4.409 S ±3.7km 120.124 E ±4.8km
 DEPTH = 31.0km (5 depth phases)
 5.3mb (48 obs.) 4.8Msz (14 obs.)
 SULAWESI, INDONESIA (268)
 Mw 5.4 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 37S, 64C
 Centroid Location:
 Origin Time 12:49:35.3 0.4
 Lat 4.06S 0.05 Lon 120.72E 0.04
 Dep 43.5 2.8 Half-duration 1.2
 Moment Tensor: Scale 10**17 Nm
 Mrr=1.10 0.04 Mtt=0.02 0.05
 Mff=-1.12 0.07 Mrt=0.02 0.09
 Mrf=0.08 0.08 Mtf=-0.56 0.05
 Principal Axes:
 T Vol=1.10 Plg=88 Azm=269
 N 0.25 1 22
 P -1.35 2 112
 Best Double Couple: Mo=1.2*10**17
 NP1:Strike=203 Dip=43 Slip= 91
 NP2: 22 47 89
 MKS 1.03 219 iPc 49 46.20 -0.9
 iS 49 57.50
 PCI 3.49 355 ePd 50 27.40 5.2X
 e(S) 51 20.00
 WSI 5.24 178 ePc 50 48.50 1.6
 KHKI 5.96 229 ePc 50 55.20 -2.0
 eS 52 02.30
 e 58 06.00
 KUG 6.67 149 eP 51 12.50 5.4X
 AAI 8.08 85 ePc 51 30.10 3.2X
 TRT 8.13 246 ePc 51 26.40 -1.2
 TSM 8.93 345 eP 51 40.00 1.3
 SJI 8.94 248 ePd 51 40.00 1.2
 e 56 49.00
 KKM 11.09 339 ePd 52 15.50 7.0X
 e 52 33.00
 SWI 11.67 73 ePd 52 17.50 1.3
 DAV 12.65 25 eP+ 52 36.00 6.6X
 1.6s 533.33nm 6.4mb X
 LEM 12.68 259 ePc 52 33.00 3.1X
 Z 24s 9.30um
 eS 55 20.00
 eLR 56 16.00
 MTN 13.73 128 eP 52 42.50 -1.1

	0.5s	150.00nm	6.1mb	TOO	40.34	148 eP	57 06.00	0.8	FRU	62.46	324 (P)	59 51.50	0.0	
PLP	16.21	17 ePc	53 22.80	6.9X		0.6s	19.00nm	5.0mb		2.8s	70.00nm		5.3mb	
PGP	17.81	3 eP	53 43.00	6.9X	SHL	40.48	319 eP	57 06.00	-0.7	ELT	64.12	338 eP	00 00.00	-2.1
KGM	17.96	290 eP	53 40.00	2.1		eS	03 40.00			1.0s	24.00nm		5.3mb	
TGY	18.41	2 eP	53 46.00	2.5	TIA	40.50	356 eP	57 03.80	-2.7	Z	12s	0.30um		4.7MszX
NANU	18.59	193 eP	53 45.50	-0.1	Z	22s	1.56um		4.8Msz	PET	65.77	24 eP	00 27.00	14.2X
OVP	18.93	3 eP	53 51.50	1.7	E	12s	0.67um				e	00 37.00	32km	
QCP	18.95	3 eP	53 53.50	3.5X	CAN	40.72	143 eP	57 09.00	0.6		e	09 10.00		
KLM	19.92	292 eP	54 03.50	2.6		e	57 17.60	29km	YAK	66.65	5 eP	00 16.90	-1.3	
BAG	20.69	1 eP	54 09.10	-0.1	CNB	40.93	142 eP	57 02.90	-7.3X		1.2s	100.00nm	5.8mb	
IPM	21.06	295 ePc	54 13.10	0.3		1.2s	69.00nm	5.3mb	MGD	68.68	16 eP	00 30.50	-0.6	
	0.9s	83.90nm	5.1mb		TIY	42.51	351 eP	57 23.00	-0.1		1.0s	40.00nm	5.5mb	
CVP	22.04	4 eP	54 22.00	-0.6	Z	24s	1.62um		4.8MszX		e	00 49.00	69kmX	
MEEK	22.15	184 eP	54 22.70	-1.0	E	15s	0.86um				e	03 00.00		
WARB	22.53	165 eP	54 27.00	-0.5	LSA	43.84	323 P	57 35.00	0.5		eS	09 30.00		
	0.6s	32.00nm	5.0mb			1.0s	28.00nm	5.0mb			ePS	10 00.00		
ASPA	23.31	147 iPd	54 35.40	0.3	Z	22s	2.50um		5.1Msz	MAIO	69.51	311 iPd	00 37.00	0.2
	0.9s	39.90nm	4.9mb		BJI	44.38	356 eP	57 37.50	-0.6		e	09 49.00		
		eS	58 48.00			1.5s	86.00nm	5.4mb	ASH	70.97	313 eP	00 49.50	4.0X	
MRWA	24.98	189 eP	54 51.00	-0.2	Z	20s	0.60um		4.5Msz	TIK	76.11	3 iPc+	01 14.00	-0.8
OIZ	25.40	337 eP	54 56.40	1.2	N	14s	0.41um				1.2s	130.00nm	5.8mb	
FORT	27.28	165 eP	55 11.00	-1.4		eS	04 22.00		Z	18s	0.60um		4.9Msz	
PMG	27.28	102 eP	55 15.00	2.4	KOD	44.90	289 eP	57 42.00	-1.1		e	01 27.00	45kmX	
NST	28.10	316 eP	55 23.00	3.0X	HHC	45.72	351 P	57 49.00	0.1		eS	10 54.00		
LOE	28.28	321 eP	55 21.00	-0.6		1.2s	26.00nm	5.0mb			ePS	11 39.00		
CTA	29.84	124 iPc	55 33.50	-2.2	Z	18s	1.33um		4.9Msz	NR1	76.83	349 ePc	01 17.00	-1.9
		e	56 22.00	244kmX	N	12s	0.42um			Z	20s	67.00nm	5.3mb	
		eS	58 40.00		E	18s	0.82um				2.20um		5.5Msz	
		e	58 40.00			sP	58 05.00				e	01 35.00	66kmX	
BDT	29.97	316 eP	55 33.50	-3.3X	BTO	45.74	349 eP	57 49.50	0.4		eS	11 05.00		
	1.0s	41.40nm	5.2mb		N	14s	0.32um			SVE	77.60	331 ePd	01 23.70	0.3
CHG	31.11	319 eP	55 46.00	-0.1	E	16s	0.59um				3.0s	140.00nm	5.5mb	
	1.1s	40.51nm	5.2mb		GBA	45.99	294 P	57 51.10	-0.2		eS	11 15.00		
QLP	31.90	136 iPd	55 54.70	1.0		0.8s	8.00nm	4.7mb			ePS	12 03.00		
GYA	33.34	338 P	56 06.40	0.0	SNY	46.12	4 Pc	57 51.10	-0.8	ARU	78.41	330 eP	01 28.00	0.2
	1.0s	42.00nm	5.3mb		Z	20s	1.03um		4.8Msz		1.7s	100.00nm	5.6mb	
	Z 20s	1.25um	4.6Msz		YAMJ	46.22	22 eP	57 52.70	-0.1		e	01 43.00	53kmX	
	N 16s	1.59um			HYB	46.41	299 ePd	57 55.00	0.3	GRS	80.39	311 eP	01 32.00	-7.1X
	E 16s	1.54um				0.8s	38.50nm	5.4mb		1.5s	60.00nm	5.4mb		
KMI	33.87	331 Pc	56 12.50	1.4	GTA	47.46	339 P	58 03.00	0.2	ILT	83.61	19 eP	01 55.00	-0.1
	1.5s	120.00nm	5.6mb		Z	20s	0.87um		4.7Msz	PYA	83.80	315 eP	01 58.00	1.5
	Z 20s	1.90um	4.8Msz		E	12s	0.31um			SPA	85.62	180 ePc	02 03.00	-2.4
	N 12s	0.90um				S	04 58.00				1.0s	27.50nm	5.4mb	
	E 12s	0.90um			OFUJ	47.63	23 P	58 01.30	-2.6	AYN	86.97	299 eP	02 12.33	-0.2
		pP	56 23.00	37km	DMZ	48.14	116 iPd	58 08.50	0.2	MASJ	87.54	302 P	02 16.40	1.0
		sP	56 31.00		MDJ	49.54	9 eP	58 17.30	-1.3	SHWJ	87.58	301 P	02 16.80	1.1
STK	33.95	146 iPd	56 10.80	-0.7		1.3s	57.00nm	5.4mb	SALJ	87.60	302 P	02 17.30	1.6	
	0.8s	19.50nm	5.1mb		POO	50.97	298 eP	58 27.50	-2.5	HRI	87.70	303 eP	02 19.30	3.1X
		e	58 48.30		HOOJ	51.10	22 eP	58 30.30	-0.2	JVI	87.88	302 eP	02 20.00	3.0X
ADE	34.94	153 iPd	56 20.00	0.0	KUSJ	52.26	23 eP	58 39.70	0.4	SAGI	88.28	300 eP	02 21.90	3.0X
RMO	35.09	132 eP	56 22.90	1.5	ASAJ	52.38	20 eP	58 39.10	-1.1	KVT	88.41	311 iP	02 21.00	1.7
	0.7s	16.00nm	5.1mb		NDI	52.75	311 eP	58 41.00	-2.3	MOS	89.39	326 eP	02 23.00	-0.5
		e	57 40.20	399kmX	YSS	54.96	19 eP	58 57.00	-2.1	SLR	89.77	244 eP	02 25.50	-0.7
WHN	35.19	351 eP	56 24.00	1.9	WMO	56.19	332 P	59 07.60	-0.6		0.8s	20.00nm	5.4mb	
	Z 20s	1.25um	4.7Msz			1.5s	24.00nm	5.0mb	OBN	89.88	325 eP	02 24.00	-1.8	
	E 12s	0.73um			Z	20s	0.80um		4.8Msz		1.0s	18.00nm	5.3mb	
SSE	35.32	2 P	56 24.80	1.6		pP	59 17.00	31km	BUL	89.92	250 eP	02 28.40	1.4	
	1.2s	21.00nm	4.9mb		CIT	56.47	355 eP	59 10.00	0.0		1.0s	5.00nm	4.7mb	
	Z 20s	0.90um	4.5Msz		ZAK	56.48	347 eP	59 08.40	-1.6	SEK	90.13	242 eP	02 29.50	1.6
	N 10s	0.30um				1.6s	28.00nm	5.0mb	PRY	90.39	243 e(P)	02 29.10	0.0	
CMS	36.17	141 eP	56 31.50	1.0	Z	11s	0.29um		4.6MszX	KSR	91.00	244 e(P)	02 33.00	1.1
	0.8s	12.00nm	4.9mb		N	14s	0.29um			VR1	95.51	316 eP	03 00.50	8.5X
NJ2	36.28	358 Pc	56 32.00	0.7	E	16s	0.49um			MLR	96.05	315 eP	02 57.00	2.3
	0.9s	23.00nm	5.1mb			eS	07 00.00		UZH	98.46	318 eP	03 12.50	7.3X	
	Z 20s	0.65um	4.4Msz		IRK	58.04	349 eP	59 17.70	-3.4X		1.5s	50.00nm	5.8mb	
CD2	38.44	337 Pd	56 49.20	-0.4		2.0s	46.00nm	5.2mb	BCAO	101.86	274 ePdiff03	22.10	0.6	
	1.0s	190.00nm	5.9mb		MOY	58.22	346 eP	59 21.00	-1.2		1.0s	5.00nm	5.1mb	
	E 14s	0.90um				1.1s	52.00nm	5.5mb	DAG	104.32	351 ePdiff03	31.80	0.9	
		PP	58 24.00		KSH	59.63	321 P	59 34.00	1.5		0.7s	2.74nm	5.2mb	
BFD	38.54	151 iPc	56 50.30	0.0		1.0s	40.00nm	5.5mb	GRF	105.54	320 ePKP	08 07.00	16.6X	
	1.1s	68.00nm	5.4mb		Z	28s	1.67um		5.0MszX	Z	25s	0.40um		4.9MszX
		e	58 23.60	518kmX	E	10s	0.64um				e	12 10.00		
		e	58 23.60			sP	59 52.00				e	17 07.50		
BRS	38.61	130 e(P)	56 53.50	2.4		PcP	00 19.00		YKA	109.57	24 ePKP	07 55.40	-2.2X	
		e(P)	58 22.50			PP	01 46.00			0.8s	1.30nm			
		eS	02 42.00			ScP	04 11.00		LCCM	118.93	39 ePKP	08 15.50	-0.7	
		ePSS	05 39.00			PcS	04 13.00		DUG	120.62	45 ePKP	08 21.24	1.6	
ARMA	39.39	135 eP	57 03.80	6.2X		S	07 43.00			e	08 31.32			
XAN	39.68	345 P	56 59.10	-0.7		ScS	09 12.00		MSU	121.72	47 ePKP	08 23.84	2.0X	
	1.2s	20.00nm	4.7mb		PRZ	60.06	325 eP	59 36.50	1.1	SRU	122.67	46 ePKP	08 24.07	0.5
	Z 25s	1.27um	4.7MszX			2.4s	100.00nm	5.5mb	PV09	123.92	46 ePKP	08 28.70	2.5X	
	E 13s	0.89um			Z	16s	1.00um		5.0MszX	PV10	124.03	46 ePKP	08 28.63	2.2X
BWA	39.76	142 eP	57 03.90	3.3X	N	16s	0.80um			PV08	124.23	45 ePKP	08 28.99	2.1X
		i	57 11.70	26km						RSSD	124.62	38 ePKP	08 26.72	-0.6
HNR	39.83	99 eP	57 01.50	0.2	BOD	62.24	356 eP	59 47.10	-2.6	KIC	125.09	275 PKP	08 28.26	-0.5
						1.5s	25.00nm	5.1mb		0.9s	14.50nm			

08d 13h

TIC 125.37 275 PKP 08 28.78 -0.5
0.9s 13.50nm
LIC 125.38 274 PKP 08 28.74 -0.6
0.9s 15.50nm
LKO 125.92 279 PKP 08 29.92 -0.5
0.9s 25.00nm
GOL 126.00 43 ePKP 08 30.10 -0.1
UYO 136.33 43 iPKPd 08 52.20 2.6X
FVM 136.50 36 ePKP 08 52.16 2.3X
MIAR 136.71 42 ePKP 08 53.24 2.9X
PRM 143.83 33 (PKP) 09 01.20 -1.9
TCA 144.17 173 ePKP 09 01.50 -2.4X
LHS 144.33 30 ePKP 09 04.07 0.1
FSA 149.11 169 e(PKP) 09 15.00 3.0X
VAO 149.98 204 ePKP 09 18.70 5.2X
PPD 152.42 197 ePKP 09 18.60 1.5
e 09 25.00
CNCB 157.44 159 PKP 09 27.10 2.5X
LPB 157.66 159 PKP 09 25.00 0.3
ZOBO 157.89 159 PKP 09 27.80 2.6X
Z 24s 0.16um 4.8MszX
LR 02 34.00
SIV 159.70 177 ePKP 09 40.00 13.5X
i 10 19.60
S.D. = 1.3 on 112 of 150 obs.

? APR 08, 1993 13h 14m 39.94±1.77s
47.355 N ±26.0km 11.713 E ±7.4km
DEPTH = 10.0km (geophysicist)

AUSTRIA (546)
ML 1.6 (VIE).

WATA 0.10 258 iPg 14 42.40 -0.3
i 14 44.20
i 14 47.30
WTTA 0.11 210 iPg 14 42.70 -0.2
iSg 14 46.90
SOTA 0.37 249 iPg 14 48.00 0.4
iSg 14 55.40
KBA 1.15 103 iPg 15 01.60 0.1
iSg 15 18.50
S.D. = 0.6 on 4 of 4 obs.

% APR 08, 1993 13h 17m 21.83±0.65s
40.688 N ±5.4km 23.446 E ±6.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 1.7 (THE).

SOH 0.15 332 iPg 17 25.66 0.3
eSg 17 28.22
THE 0.37 261 ePg 17 29.58 0.2
eSg 17 34.62
SRS 0.44 14 ePg 17 30.82 0.0
eSg 17 37.74
OUR 0.54 131 ePg 17 32.90 0.1
eSg 17 40.70
KNT 0.63 319 ePg 17 34.14 -0.3
eSg 17 42.50
PAIG 0.78 167 ePg 17 36.85 -0.2
S.D. = 0.3 on 6 of 6 obs.

APR 08, 1993 14h 10m 31.20±0.44s
43.598 S ±7.4km 123.533 E ±5.6km
DEPTH = 10.0km (geophysicist)
4.9mb (22 obs.)

SOUTH OF AUSTRALIA (437)

RKG 10.34 329 eP 13 02.00 -0.5
0.3s 35.00nm 6.3mb X
NWA0 11.74 333 eP 13 22.00 0.3
KLB 12.82 337 eP 13 36.00 -0.2
COOL 12.83 351 eP 13 35.00 -1.4
MUN 12.96 331 iPc 13 36.20 -1.8
i 13 45.50
ADE 14.56 59 eP 14 00.50 1.4
MRWA 15.57 335 iPd 14 12.20 -0.1
BFD 15.83 73 eP 14 16.20 0.6
0.3s 8.00nm 4.4mb
MEEK 17.39 345 eP 14 34.00 -1.5
0.3s 8.00nm 4.3mb
eS 17 36.00
TOO 17.71 78 eP 14 41.90 2.5X
0.6s 26.00nm 4.5mb
STK 18.42 57 iPc 14 47.60 -0.5
0.5s 6.50nm 4.1mb
CAN 21.27 76 eP 15 18.30 -1.5

BWA 21.33 73 eP 15 22.10
eP 15 21.60 1.1
i 15 25.30
i 15 28.30
CMS 21.34 63 iPc 15 19.40 -1.2
0.9s 23.00nm 4.6mb
NANU 22.00 340 eP 15 28.00 0.8
OLP 23.88 51 eP 15 46.50 0.9
ARMA 25.87 69 iPd 16 04.40 -0.3
0.7s 8.00nm 4.5mb
RMO 26.64 58 iPc 16 10.90 -0.9
0.7s 25.00nm 5.0mb
CTA 30.18 46 eP 16 43.00 -0.8
e 19 42.00
SPA 46.59 180 iPd 18 58.10 -2.8
0.9s 18.18nm 5.1mb
GBA 70.78 312 P 21 50.00 0.3
0.7s 4.00nm 4.7mb
KMI 71.00 340 Pc 21 53.50 2.3X
1.6s 30.00nm 5.2mb
pP 21 58.00 14kmX
GYA 71.41 344 P 21 55.00 1.5X
HY8 73.37 315 eP 22 06.00 0.9
SSE 74.36 358 Pc 22 12.00 1.5X
1.0s 13.00nm 4.9mb

SHL 74.71 331 iP 22 12.50 -0.4
CD2 76.33 343 P 22 24.60 2.7X
POO 76.77 312 iPd 22 24.90 0.3
XAN 78.41 348 Pc 22 34.50 1.2
1.0s 7.10nm 4.7mb

LSA 78.75 332 Pc 22 37.60 1.8X
0.8s 16.00nm 5.1mb

PKI 78.99 326 P 22 37.40 0.4
0.9s 39.00nm 5.4mb
GUN 79.10 327 P 22 38.60 1.0
DMN 79.15 326 P 22 38.20 0.4
0.8s 36.00nm 5.4mb
KKN 79.24 326 P 22 39.00 0.8
0.8s 36.00nm 5.4mb
GKN 79.69 326 P 22 41.20 0.6
0.8s 34.00nm 5.4mb

BUL 79.82 252 iPc 22 42.00 0.4
1.0s 4.00nm 4.4mb

LZH 81.31 344 eP 22 51.00 2.0X
1.5s 35.00nm 5.2mb

TIY 81.56 351 Pc 22 52.00 1.9X
HHC 84.75 351 eP 23 08.80 2.4X
1.2s 12.00nm 5.0mb

GTA 85.37 342 eP 23 11.00 1.4
1.0s 10.00nm 5.0mb

CN2 87.03 1 Pc 23 19.00 1.6X
1.0s 8.10nm 4.9mb

MDJ 87.99 4 eP 23 23.30 1.2
QUE 89.85 314 eP 23 34.70 3.2X

WMO 92.74 335 eP 23 46.00 1.6X
LKO 124.43 248 PKP 29 31.52 -0.9

GEC2 132.74 302 ePKPd 29 47.00 -0.4
0.8s 2.55nm
e 29 51.00
e 29 57.00

INK 134.30 30 ePKP 29 50.00 0.4
GRF 134.56 303 e(PKP) 29 51.40 0.7

NB2 137.27 318 PKP 29 54.60 -1.0
0.9s 1.80nm

MBC 138.28 19 ePKP 29 47.50 -9.5X
LCCM 141.23 67 ePKP 29 57.20 -6.2X

YKA 141.87 40 ePKP 29 56.40 -7.4X
0.8s 3.10nm

DAG 143.23 346 ePKP 30 02.50 -3.3X
0.7s 2.05nm

DMU 146.39 306 ePKP 29 59.20 -12.5X
MEO 146.49 91 iPKPd 30 13.60 1.0

OCO 147.64 90 iPKPc 30 20.10 5.8X
UYO 149.19 95 iPKPc 30 19.50 2.7X

FCC 152.42 43 ePKPc 30 29.50 8.7X
ULM 152.53 62 ePKP 30 29.50 8.3X

S.D. = 1.0 on 38 of 59 obs.

? APR 08, 1993 14h 11m 35.49±1.13s
40.523 N ±34.6km 28.933 E ±10.2km

DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

YLV 0.34 82 iPg 11 42.50 0.0
eSg 11 47.00

KCT 0.52 238 ePg 11 46.00 0.0
BNT 0.79 258 ePg 11 51.00 0.1
eSg 12 04.00
EDC 0.84 258 ePn 11 51.50 -0.1
S.D. = 0.2 on 4 of 4 obs.

% APR 08, 1993 14h 21m 09.63±1.30s
38.306 S ±8.5km 175.827 E ±6.9km
DEPTH = 210.6 ±12.5 km
NORTH ISLAND, NEW ZEALAND (159)

WLZ 0.47 337 P 21 38.10 0.2
WHH 0.78 138 P 21 38.80 -0.8
NGZ 0.89 191 P 21 40.40 0.2
CNZ 0.92 194 P 21 40.50 0.1
URZ 1.01 88 P 21 39.70 -1.1
S 21 58.80
PAHZ 1.11 120 P 21 41.50 0.0
MOH 1.32 129 P 21 43.60 0.5
WAHZ 1.45 164 Pc 21 44.40 0.2
TTH 1.46 148 P 21 44.40 0.2
BSZ 1.65 205 P 21 46.50 0.7
NOZ 1.76 101 P 21 47.40 0.5
TEHZ 1.85 156 P 21 47.80 0.0
PUZ 1.93 84 P 21 48.30 -0.3
S 22 13.00

HBZ 2.08 71 P 21 50.50 0.5
MNG 2.32 186 Pc 21 52.80 0.2
S 22 21.10

PGZ 2.34 172 Pc 21 52.90 0.2
KIW 2.65 195 P 21 56.10 -0.1

CAW 2.86 192 P 21 58.60 0.0
MTW 2.86 185 Pc 21 58.20 -0.4

DIW 2.90 210 P 21 59.10 0.1
MRW 3.05 196 P 22 00.60 -0.2
S 22 36.50

WEL 3.09 195 P 22 01.00 -0.2
MOW 3.14 188 P 22 01.40 -0.5

QRZ 3.58 224 eP 22 06.50 -0.7
THZ 4.12 212 P 22 15.00 1.2

KHZ 4.46 202 P 22 17.70 -0.3
S.D. = 0.5 on 26 of 26 obs.

* APR 08, 1993 16h 26m 48.32±0.67s
36.816 S ±9.5km 73.442 W ±11.6km

DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)

NEAR COAST OF CENTRAL CHILE (135)
Felt (IV) in the Talcahuano area.

LNV 3.30 31 iP 27 41.21 0.2
iS 28 33.12

CACH 3.55 42 eP 27 46.10 1.3
LCCH 3.67 25 eP 27 45.54 -0.8

CHCH 3.67 39 iP 27 47.34 1.0
TACH 3.76 34 (P) 27 41.45 -6.2X
(S) 28 31.36

PCH 3.99 38 (P) 27 41.49 -9.4X
(S) 28 32.20

SAN 4.06 35 (P) 27 53.01 1.2
PEL 4.31 33 eP 27 55.53 0.1

FCH 4.33 38 iP 27 56.41 0.3
RFA 4.53 65 ePc 28 00.30 1.7
S 29 08.00

JACH 4.74 30 iP 28 01.34 -0.4
RTBS 6.11 34 e(P) 28 20.60 -0.2

RTCV 6.39 41 ePc 28 23.40 -1.5
ZON 6.57 38 eP 28 27.00 -0.5

CFA 6.75 41 eP 28 28.30 -1.6
RTL 6.85 38 eP 28 29.70 -1.7

TCA 9.15 56 eP 29 01.40 -2.0
CYA 10.54 40 ePd 29 16.00 -6.5X

FSA 12.43 33 e(P) 29 49.00 0.9
YJA 16.14 27 e(P) 30 37.20 -0.1

ARE 20.35 5 eP 31 33.00 5.1X
CCH 20.41 20 eP 31 29.00 0.4

CNCB 20.50 15 P 31 30.40 0.5
LPB 20.75 15 eP 31 28.00 -4.3X

ZOBO 21.00 14 P 31 38.20 3.2X
Z 23s 0.46um 3.8MszX
S 35 32.00

LR 37 54.00
SIV 23.47 31 P 32 12.00 13.1X

PPD 24.18 59 eP 32 08.00 2.3
e 32 13.20

SPA 53.37 180 iPc 36 10.30 0.3

1.0s 52.50nm 5.5mb
 LTX 71.66 332 eP 38 11.20 -1.0
 KIC 77.05 72 P 38 43.00 -0.5
 ALO 77.72 333 eP 38 49.00 2.0
 1.0s 3.75nm 4.4mb
 LKO 78.46 69 P 38 51.42 0.1
 RSSD 85.21 338 eP 39 26.00 -0.1
 0.9s 4.18nm 4.7mb
 GEC2 114.93 47 ePKP 45 29.80 -0.9
 0.6s 0.88nm
 MAIO 142.49 76 ePKP 46 23.00 -0.2
 GBA 145.19 124 PKPc 46 27.10 -1.1
 0.7s 8.00nm
 HYB 148.64 121 ePKP 46 37.50 3.7X
 S.D. = 1.1 on 29 of 37 obs.

? APR 08, 1993 17h 36m 53.45±1.25s
 44.683 N ± 8.0km 10.898 E ±15.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

BDI 0.66 199 P 37 06.60 0.0
 eSg 37 14.00
 PGD 1.00 143 P 37 12.60 0.1
 eSg 37 28.50
 CRE 1.30 144 P 37 17.50 -0.1
 eSg 37 35.20
 CTI 1.46 21 P 37 20.00 0.0
 eSg 37 39.40
 S.D. = 0.1 on 4 of 4 obs.

? APR 08, 1993 17h 38m 44.58±1.30s
 44.656 N ± 8.1km 10.841 E ±15.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

BDI 0.62 196 P 38 57.10 0.0
 eSg 39 04.90
 PGD 1.00 141 P 39 03.60 -0.1
 eSg 39 17.60
 CRE 1.30 142 P 39 08.90 0.1
 eSg 39 26.40
 CTI 1.50 22 P 39 11.70 0.0
 eSg 39 30.60
 S.D. = 0.2 on 4 of 4 obs.

APR 08, 1993 17h 48m 21.25±0.60s
 39.136 N ± 5.3km 27.940 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.9 (ISK).

IZM 0.91 216 iPg 48 38.80 0.1
 iSg 48 52.80
 KCT 1.16 16 iPn 48 42.40 -0.5
 EDC 1.21 357 iPn 48 43.50 -0.3
 BNT 1.22 359 iPn 48 42.90 -1.0
 EZN 1.43 299 ePn 48 48.00 0.8
 CIN 1.54 176 ePn 48 48.00 -0.7
 iSg 49 10.00
 ALT 1.69 92 ePn 48 51.00 -0.1
 YLV 1.81 37 ePn 48 53.40 0.7
 EYL 2.23 49 ePn 48 59.70 0.9
 S.D. = 0.8 on 9 of 9 obs.

? APR 08, 1993 17h 49m 43.69±1.73s
 37.173 N ±15.9km 20.413 E ±12.1km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)

ML 3.5 (ATH).

VLS 1.01 8 ePg 50 03.90 1.1
 VLI 2.07 102 ePb 50 19.20 0.3
 KEK 2.58 349 ePb 50 36.00 9.8X
 ATH 2.74 72 ePb 50 28.50 0.0
 KZN 3.30 18 ePb 50 41.00 4.4X
 ROI 3.85 310 P 50 44.30 -0.1
 OHR 3.94 4 ePn 50 40.70 -4.9X
 VAY 4.47 21 ePn 50 51.70 -1.2
 SKO 4.86 9 ePn 51 30.00 31.5X
 S.D. = 1.2 on 5 of 9 obs.

APR 08, 1993 17h 55m 23.27±0.55s
 38.659 N ± 6.2km 26.017 E ± 3.5km
 DEPTH = 33.0km (normol)
 AEGEAN SEA (365)

ML 3.6 (ATH). MD 3.5 (ISK).

PRK 0.62 19 ePg 55 36.50 1.0
 IZM 1.01 185 iPg 55 41.30 0.1
 iSg 55 55.80
 ATH 1.93 250 ePb 55 59.60 5.2X
 EDC 2.21 40 iPn 55 58.50 0.2
 PAIG 2.21 306 ePn 55 58.06 -0.3
 iSg 56 33.62
 ALN 2.24 1 ePn 56 00.10 1.4
 iSg 56 35.38
 BNT 2.24 40 iPn 55 57.90 -0.9
 OUR 2.30 317 iPn 55 59.37 -0.2
 YER 2.35 130 ePn 56 04.00 3.5X
 KCT 2.41 48 ePn 56 00.90 -0.3
 RDO 2.51 352 ePn 56 04.20 1.6
 KHL 2.77 96 ePn 56 08.00 1.6
 AGG 2.90 278 ePn 56 07.10 -1.1
 SOH 2.98 317 ePn 56 09.34 0.0
 SRS 3.08 324 ePn 56 11.18 0.4
 LIT 3.09 299 ePn 56 10.26 -0.6
 CTT 3.10 36 iPn 56 09.90 -1.1
 VLI 3.12 233 ePn 56 11.50 0.2
 YLV 3.22 53 ePn 56 12.00 -0.7
 ISK 3.36 43 ePn 56 14.00 -0.6
 DMK 3.43 22 ePn 56 15.00 -0.7
 HRT 3.55 51 ePn 56 16.90 -0.5
 GRG 3.61 311 ePn 56 18.46 0.2
 EYL 3.72 58 ePn 56 20.00 0.1
 VAY 3.75 316 ePn 56 20.50 0.3
 MLR 6.83 360 eP 57 07.50 3.7X
 S.D. = 0.8 on 23 of 26 obs.

% APR 08, 1993 18h 18m 28.51±0.66s
 40.636 N ± 5.0km 22.783 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

ML 1.3 (THE).

THE 0.14 91 ePg 18 32.10 0.3
 eSg 18 34.42
 GRG 0.43 318 ePg 18 37.54 0.2
 eSg 18 43.50
 SOH 0.47 67 ePg 18 38.10 0.0
 eSg 18 45.34
 KNT 0.53 9 ePg 18 39.18 -0.1
 eSg 18 46.54
 LIT 0.58 203 ePg 18 40.06 -0.2
 eSg 18 48.34
 SRS 0.78 52 ePg 18 43.42 -0.3
 PAIG 0.99 136 ePg 18 47.26 0.1
 S.D. = 0.3 on 7 of 7 obs.

* APR 08, 1993 18h 24m 57.63±2.12s
 37.556 N ±18.8km 21.024 E ±19.4km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)

ML 3.5 (ATH).

VLS 0.71 331 ePg 25 12.00 0.4
 VLI 1.74 118 ePb 25 28.00 -0.1
 ATH 2.17 78 ePb 25 34.50 0.2
 KEK 2.36 336 ePg 25 42.50 5.5X
 KZN 2.81 12 ePn 25 44.00 0.5
 OHR 3.56 357 ePn 25 53.00 -1.0
 VAY 3.95 17 ePn 25 55.50 -4.0X
 S.D. = 0.9 on 5 of 7 obs.

% APR 08, 1993 18h 38m 40.14±1.33s
 41.182 N ±13.1km 23.045 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)

ML 1.8 (THE).

KNT 0.11 260 iPg 38 42.89 -0.2
 eSg 38 44.88
 SRS 0.42 99 ePg 38 48.68 0.0
 eSg 38 55.84
 SOH 0.43 147 ePg 38 49.00 0.1
 eSg 38 54.72
 GRG 0.54 245 ePg 38 51.20 0.2
 THE 0.55 186 ePg 38 51.14 -0.2
 eSg 38 58.92
 S.D. = 0.2 on 5 of 5 obs.

% APR 08, 1993 18h 39m 30.39±0.50s
 42.462 S ± 5.3km 174.295 E ± 5.7km
 DEPTH = 27.2 ± 3.7 km
 OFF E. COAST OF S. ISLAND, N.Z. (164)

ML 4.0 (WEL).

KHZ 0.56 274 P 39 40.60 -1.0
 S 39 48.40
 WEL 1.23 17 P 39 52.80 1.0
 THZ 1.25 304 P 39 51.70 -0.5
 S 40 05.50
 MOW 1.26 35 P 39 53.60 1.3
 MRW 1.27 14 Pc 39 53.10 0.7
 S 40 08.60
 BLW 1.40 39 P 39 55.50 1.2
 CAW 1.47 23 P 39 56.30 1.0
 LTZ 1.53 257 P 39 57.00 0.8
 S 40 16.40
 MTW 1.58 35 Pc 39 57.80 0.8
 KIW 1.66 16 P 39 58.90 0.8
 DIW 1.68 350 P 39 57.90 -0.5
 MQZ 1.73 223 P 40 00.20 1.1
 S 40 21.00
 DSZ 1.99 290 P 40 03.30 0.4
 MNG 2.05 26 Pc 40 04.00 0.3
 QRZ 2.10 320 eP 40 04.50 0.0
 PGZ 2.37 40 P 40 07.90 -0.3
 WVZ 2.69 256 P 40 13.40 0.6
 S 40 43.50
 BSZ 2.70 10 P 40 13.70 0.7
 EWZ 2.73 246 P 40 14.20 0.8
 TEHZ 3.12 38 P 40 17.40 -1.5
 NRZ 3.13 355 eP 40 19.90 0.8
 WAHZ 3.17 30 P 40 18.50 -1.1
 CNZ 3.39 17 P 40 23.10 0.2
 NGZ 3.43 17 P 40 23.70 0.3
 ODZ 3.70 224 P 40 27.40 0.3
 BWZ 3.82 236 P 40 28.50 -0.2
 MOZ 3.97 6 P 40 30.90 -0.1
 SBCZ 4.46 232 eP 40 37.00 -1.1
 MHZ 4.47 233 eP 40 37.50 -0.6
 CMZ 4.52 232 eP 40 38.20 -0.7
 URZ 4.72 28 eP 40 38.00 -3.5X
 eS 41 31.50
 TUZ 4.84 222 eP 40 43.10 -0.1
 KUZ 5.81 11 eP 40 54.90 -2.1
 S.D. = 0.9 on 32 of 33 obs.

APR 08, 1993 19h 13m 10.75±0.18s
 18.222 N ± 3.3km 71.132 W ± 2.5km
 DEPTH = 12.8km (15 depth phases)
 5.3mb (75 obs.) 4.7Msz (19 obs.)
 DOMINICAN REPUBLIC REGION (88)
 Mw 5.2 (HRV). Felt widely in the
 Barahona area.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 155, 18C
 Centroid Location:
 Origin Time 19:13:15.8 1.1
 Lat 18.40N 0.11 Lon 71.46W 0.12
 Dep 15.0 FIX Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr=-0.47 0.25 Mtt=-3.17 0.31
 Mff= 3.64 0.29 Mrt=-5.84 1.11
 Mrf= 1.22 1.50 Mtr= 1.62 0.33
 Principal Axes:
 T Val= 4.17 Plg=52 Azm=180
 N 3.99 6 278
 P -8.16 38 12
 Best Double Couple: Mo=6.2*10**16
 NP1: Strike=139 Dip= 9 Slip= 131
 NP2: 277 83 84

MGP 3.85 93 P 14 12.00 1.0
 PORP 4.28 92 P 14 18.50 1.4
 SJG 4.74 91 iP 14 28.40 4.8X
 LPR 5.00 88 P 14 20.00 -7.3X
 TOV 8.48 171 eP 15 00.00 -16.3X
 MGH 8.64 99 eP 15 18.70 0.3
 CAR 8.68 151 ePc 15 17.40 -1.7
 iPP 15 18.30
 IS 16 48.30
 BPA 8.92 96 eP 15 22.00 -0.3
 SDV 9.29 177 ePd 15 26.40 -1.2
 IS 17 05.90
 PAG 9.30 102 eP 15 26.00 -1.5
 S 17 06.00
 SEG 9.37 100 eP 15 26.50 -2.0
 MGG 9.66 102 eP 15 32.00 -0.5
 MDN 9.76 106 eP 15 32.82 -1.0

			eTT	25	20.89				1.1s	33.03nm	5.1mb	MBC	63.04	348 eP	23	37.50	-1.9	
DEG	9.81	100	eP	15	33.80	-0.8			Z	19s	2.43um			0.9s	16.00nm		5.2mb	
FDG	10.18	108	eP	15	39.10	-0.7	GOL	36.49	313 eP	20	16.76	-1.1	INK	63.11	338 eP	23	38.50	-1.5
BIM	10.33	109	eP	15	40.10	-1.7		0.9s	15.78nm		4.8mb			1.0s	6.00nm		4.7mb	
CRM	10.39	108	eP	15	43.40	0.9		Z	21s	2.28um	4.9Msz		EALH	63.21	56 eP	23	41.53	0.4
MYM	10.48	109	eP	15	41.14	-2.6	ULM	37.58	334 eP	20	27.00	0.4	LPF	63.41	45 eP	23	42.00	-0.3
SVV	10.72	116	eP	15	44.70	-2.3	RSSD	37.78	320 P	20	40.00	11.4X			1.0s	51.00nm	5.7mb	
			e	16	32.81			Z	20s	0.97um	4.6Msz		GRR	63.54	44 eP	23	43.00	-0.2
			eTT	25	53.95		TUC	38.28	299 P	20	40.00	7.2X			1.0s	67.80nm	5.8mb	
			e	26	30.19			Z	19s	1.11um	4.7Msz		FLN	63.81	44 eP	23	44.70	-0.2
TCE	11.76	128	eP	16	01.73	0.4	PV10	38.59	309 eP	20	36.01	0.4			0.6s	29.30nm	5.6mb	
			eS	18	05.43		PV09	38.71	309 (P)	20	36.95	0.4	EGRA	63.89	51 iPd	23	48.08	2.5
TRN	12.06	127	eP	16	06.21	1.0	SRU	39.94	310 (P)	20	35.08	-11.6X	LKO	63.94	88 P	23	45.66	-0.7
			e	18	06.50		DAU	40.92	311 eP	20	54.48	-0.4	MFF	63.98	47 eP	23	46.10	0.0
			eS	18	12.16		MSU	40.96	308 eP	20	54.72	-0.4			1.0s	82.00nm	5.9mb	
TPP	12.23	129	eP	16	05.66	-2.0	ARUT	41.71	307 (P)	21	01.20	0.0	LDF	64.04	44 eP	23	46.30	-0.1
			e	16	14.43		HVU	42.48	313 eP	21	08.67	1.2			1.0s	69.60nm	5.8mb	
TBH	12.42	127	eP	16	13.88	3.8X	LCCM	43.48	318 eP	21	15.50	0.0	DAG	64.14	12 eP	23	45.50	-1.2
			eS	18	23.62		PLM	43.50	299 eP	21	15.92	0.0			0.8s	16.42nm	5.3mb	
			e	18	29.43		TPNV	43.67	305 (P)	21	21.79	4.6X	EPF	64.35	50 eP	23	49.20	0.5
HBF	16.84	332	eP	17	05.95	-1.8	GSC	43.78	302 eP	21	18.31	0.3			1.4s	178.60nm	6.1mb	
SGS	17.12	332	eP	17	10.99	-0.3	PEC	43.83	300 eP	21	18.57	0.2	EROQ	64.48	53 eP	23	50.58	1.1
LHS	18.35	334	eP	17	25.09	-1.5		0.8s	15.04nm		4.9mb		LFF	64.61	48 eP	23	50.10	-0.1
GOGA	18.74	326	eP	17	33.10	1.7	FCC	43.83	343 ePc	21	19.00	1.0			0.9s	42.40nm	5.6mb	
	0.8s	16.00nm			4.3mb	X	SSK	44.31	301 (P)	21	26.98	4.5X	LPO	64.93	49 eP	23	52.20	-0.1
CEH	18.96	340	eP	17	31.80	-2.3	FSA	44.32	173 e(P)	21	21.00	-1.2			1.0s	43.80nm	5.6mb	
	1.0s	57.69nm			4.8mb		PPD	44.46	153 eP	21	23.60	0.1	SALF	64.99	51 P	23	53.82	1.0
MYNC	20.38	328	eP	17	48.09	-1.9	TNP	44.67	306 eP	21	26.89	1.5	LSF	65.14	47 eP	23	53.20	-0.5
	0.6s	22.18nm			4.7mb			1.1s	34.67nm		5.2mb			1.6s	93.30nm		5.7mb	
BLA	20.60	339 ePd	17	50.55	-1.8		ISA	45.18	302 eP	21	30.24	0.9	RJF	65.15	48 eP	23	53.50	-0.2
	0.8s	51.06nm			4.9mb			1.2s	18.62nm		4.9mb			1.0s	48.20nm		5.6mb	
CBN	20.64	346 eP	17	51.00	-1.6		Z	21s	1.01um		4.7Msz		LIC	65.40	91 P	23	54.48	-1.3
	1.0s	58.00nm			4.9mb		BONR	45.48	306 eP	21	32.31	0.4		Z	22s	0.32um	4.5Msz	
TKL	20.67	330 eP	17	53.10	0.2		FRB	45.52	2 eP	21	30.50	-0.9	CAF	65.55	48 eP	23	56.20	-0.1
CVL	20.71	343 eP	17	52.72	-0.6			1.0s	12.00nm		4.8mb			1.1s	56.90nm		5.7mb	
NAV	20.83	338 eP	17	52.89	-1.7		KVN	45.57	307 eP	21	33.38	0.9	TCF	65.61	47 eP	23	56.40	-0.3
GBTN	20.89	329 ePc	17	53.70	-1.5		MRCM	45.58	305 eP	21	33.58	0.9		1.1s	58.10nm		5.7mb	
PAL	22.83	355 eP	18	13.61	-1.0		MEMM	45.92	305 (P)	21	43.88	8.9X	KIC	65.63	91 P	23	55.92	-1.4
CPD	22.90	354 eP	18	14.77	-0.5		8CH	46.41	301 eP	21	38.79	-0.3	MAF	65.86	47 eP	23	58.10	-0.2
TBR	23.00	354 ePc	18	15.71	-0.5		CMB	47.11	305 eP	21	44.37	-0.1		1.6s	95.75nm		5.7mb	
GRT	24.16	322 eP	18	28.10	0.5			1.0s	12.47nm		4.9mb		HYF	65.89	46 eP	23	58.40	0.0
HRV	24.21	359 eP	18	27.27	-0.7		Z	21s	0.80um		4.7Msz		BGF	66.05	47 eP	23	59.00	-0.5
	1.5s	134.67nm			5.3mb		NEW	47.74	320 eP	21	48.05	-1.3		1.0s	30.40nm		5.4mb	
	Z	21s	0.81um		4.2Msz			0.9s	39.40nm		5.5mb		ETER	66.24	51 eP	24	00.37	-0.4
ELC	24.76	324 eP	18	33.50	0.1		ARN	47.89	304 eP	21	50.10	-0.6	LBL	66.37	48 P	24	02.25	0.6
OLY	24.92	318 eP	18	35.79	0.8		COE	47.99	304 (P)	21	52.95	1.6	AVF	66.39	46 eP	24	01.10	-0.5
MIAR	25.77	314 eP	18	43.62	0.7		ORV	48.25	307 eP	21	53.54	0.1		1.2s	54.75nm		5.6mb	
	1.1s	22.27nm			4.8mb		DPW	48.27	319 eP	21	54.45	1.0	SSF	66.49	46 eP	24	01.70	-0.5
FVM	25.93	323 eP	18	43.40	-1.0		JEGM	48.65	304 (P)	21	59.91	3.5X		1.0s	28.80nm		5.4mb	
	1.1s	60.43nm			5.2mb		LBFM	48.91	309 eP	21	59.89	1.2	PLDF	66.61	47 P	24	03.23	0.1
PPM	26.06	276 (P)	18	50.50	4.1X		WDC	49.23	308 P	22	10.00	9.1X	LOR	66.72	46 eP	24	03.20	-0.6
DLA	26.11	342 P	18	46.90	0.9			Z	21s	0.93um	4.8Msz			0.7s	26.55nm		5.5mb	
LDN	26.17	343 P	18	47.90	1.4		TCA	49.67	173 e(P)	22	03.00	-1.4	SMF	66.73	46 eP	24	03.30	-0.5
ELF	26.34	343 P	18	49.40	1.2		LON	50.22	316 eP	22	09.47	1.0		1.3s	72.55nm		5.7mb	
WLVO	26.34	348 P	18	47.21	-0.9		KMPM	50.39	308 eP	22	11.47	1.6	LBF	66.81	46 eP	24	03.50	-0.9
RSNY	26.40	355 eP	18	48.67	-0.1		YKA	53.45	337 eP	22	29.70	-2.8		1.4s	47.05nm		5.5mb	
	1.0s	24.05nm			4.8mb			0.9s	18.70nm		5.1mb		SNF	66.92	42 P	24	05.00	0.1
	Z	22s	0.70um		4.2Msz		AVE	58.51	62 iP	23	10.50	1.2			e	24	08.00	10km
ACTO	26.41	345 P	18	48.26	-0.5				i	23	14.50	13km	DOU	67.13	43 P	24	06.40	0.2
III	26.89	275 (P)	18	55.00	1.3		TIO	58.76	64 iP	23	12.50	1.2	ENN	67.96	42 eP	24	11.50	0.1
MIM	27.00	3 (P)	18	53.78	-0.4		EVAL	58.99	57 eP	23	13.30	0.7		0.7s	10.00nm		5.1mb	
GAC	27.64	353 eP	19	00.50	0.5		EPLA	59.54	54 iPd	23	16.41	0.0			e	24	15.50	13km
LMN	28.05	9 eP	19	06.00	2.3		DCN	60.01	38 iPc	23	19.50	0.2	FBA	68.00	333 eP	24	11.23	-0.2
CBM	28.74	4 eP	19	08.34	-1.6			0.7s	72.00nm		5.9mb			1.1s	14.71nm		5.1mb	
	0.7s	11.20nm			4.8mb		EJIF	60.02	58 eP	23	21.01	1.3	VITF	68.11	45 P	24	12.55	0.0
OCO	29.00	312 iPc	19	08.30	-4.2X		EHOR	60.18	56 iPd	23	20.73	0.0	WLF	68.15	43 iPd	24	12.71	0.1
EEO	29.09	349 eP	19	14.50	1.4		EPRU	60.20	57 eP	23	21.15	0.1		1.5s	30.90nm		5.3mb	
MEO	29.46	309 iPc	19	14.70	-1.9		DMU	60.32	38 iPc	23	21.30	-0.2			ic	24	17.02	14km
WMOK	29.58	309 eP	19	15.54	-2.1			1.0s	94.00nm		5.9mb		WIT	68.35	40 eP	24	15.00	1.2
	0.9s	13.91nm			4.8mb		DLF	60.44	39 iPc	23	22.00	-0.3			e	24	19.00	13km
	Z	19s	0.87um		4.4Msz		MAL	60.87	58 iPd	23	26.80	1.3	HAU	68.37	45 eP	24	13.60	-0.5
ACO	30.76	312 e(P)	19	11.50	-16.6X		PAB	60.87	54 iPc	23	26.00	0.4		1.5s	56.95nm		5.5mb	
ZOBO	34.40	175 P	20	03.00	2.4		ELUQ	60.96	57 eP	23	26.16	0.0	PMR	68.44	330 P	24	20.00	5.8X
	Z	22s	0.92um		4.5Msz		GUD	61.02	53 iPd	23	26.76	0.1		Z	19s	0.58um	4.8Msz	
		S		25	40.00		EBAN	61.33	56 eP	23	28.38	-0.3	WTS	68.47	41 iPd	24	15.10	0.5
		LR		31	14.00		ECOG	61.52	57 iPc	23	30.70	0.6		0.7s	61.60nm		5.9mb	
ARE	34.47	181 eP	20	02.00	1.2		EGUA	61.54	58 iPc	23	30.60	0.5			e	24	19.00	13km
LPB	34.66	175 P	20	07.00	4.3X		HCG	62.04	40 ePc	23	33.00	-0.2	BSF	68.68	45 eP	24	15.40	-0.8
		LR		29	45.00		HTR	62.25	40 eP	23	33.70	-0.9		1.2s	23.80nm		5.2mb	
CNCB	34.95	175 P	20	06.00	0.7		ECRI	62.26	51 iPd	23	34.70	-0.2	RSL	68.72	47 P	24	16.88	0.4
SIV	35.41	163 P	20	22.00	13.4X		EHUE	62.28	56 eP	23	35.46	0.3	LOMF	68.73	46 P	24	16.81	0.3
ALO	35.48	305 eP	20	08.47	-0.9		EVIA	62.32	55 iPc	23	35.60	0.2	BNI	68.81	48 Pc	24	17.90	0.9
	1.0s	28.24nm			5.1mb		ETOR	62.61	53 eP	23	36.96	-0.4	LPL	68.81	47 eP	24	17.50	0.3
	Z	20s	1.14um		4.6Msz	</												

ECH	0.9s	19.50nm	5.3mb	AQU	74.00	50 P	24 54.30	6.2X	VAY	2.19	42 ePn	15 53.30	-0.6	
RRL	68.89	48 P	24 17.32	CEY	74.13	47 eP	24 49.00	0.2	KNT	2.26	49 ePn	15 53.92	-1.1	
MOF	68.90	45 P	24 18.78			i	24 50.00	3km			eSn	16 22.84		
FRF	68.92	50 eP	24 17.23	LJU	74.15	46 e(P)	24 49.00	0.2	SKO	2.35	15 iPn	15 57.00	0.8	
SLKM	68.96	329 eP	24 17.30			e	24 53.50	14km			iSg	16 26.70		
CDF	68.96	44 P	24 16.10	SDI	74.41	51 P	24 56.00	5.5X	PAIG	2.36	84 ePn	15 55.80	-0.5	
LSD	68.96	44 P	24 17.65	SDN	74.86	324 eP	24 54.16	1.5	SOH	2.36	61 ePn	15 55.84	-0.6	
PZZ	69.11	48 P	24 19.10			0.7s	49.31nm	5.6mb	OUR	2.65	75 ePn	15 59.32	-1.2	
LIBD	69.16	49 P	24 20.19	DUI	74.90	51 P	24 55.00	1.7			eSn	16 32.48		
RSP	69.20	45 P	24 19.53	PTJ	75.16	46 eP	24 56.50	1.7	SRS	2.67	57 ePn	16 01.64	0.9	
DIX	69.21	48 P	24 20.52	SGO	75.74	52 P	24 58.40	0.4	ROI	3.14	269 P	16 07.30	-0.2	
BHB	69.23	47 ePd	24 20.40	MGR	76.01	52 P	25 00.00	0.4	CSI	3.35	273 P	16 10.10	-0.3	
BHB	69.24	48 P	24 20.93	SDF	76.20	23 iP	24 59.00	-1.1	S.D. = 1.0 on 16 of 16 obs.					
DOI	69.26	49 P	24 20.50	SRO	76.36	44 eP	24 57.30	-4.1X	APR 08, 1993 20h 17m 21.35 ± 0.60s					
LANF	69.27	44 P	24 20.04			i	25 07.10	31kmX	6.215 N ± 3.2km 120.230 E ± 3.9km					
STV	69.34	49 P	24 20.52	ORI	76.70	52 P	25 08.67	5.2X	DEPTH = 46.2 ± 6.0 km					
HOFF	69.38	44 P	24 20.89			0.8s	42.00nm	5.6mb	5.2mb (45 obs.) 4.5Msz (9 obs.)					
ENR	69.41	49 P	24 20.47	UZD	76.80	45 eP	25 09.70	5.8X	SULU ARCHIPELAGO (258)					
SBF	69.46	49 eP	24 20.90	OJC	76.80	41 eP	25 04.00	0.1	Mw 5.2 (HRV).					
	1.1s	71.05nm	5.7mb			i	25 09.80	19km	CENTROID, MOMENT TENSOR (HRV)					
FEL	69.49	45 P	24 21.06	ROI	76.90	52 P	24 58.30	-6.4X	Data Used: GDSN					
TNS	69.60	42 ePc	24 26.10	BRT	77.08	51 P	25 10.60	5.0X	L.P.B.: 18S, 26C					
ORO	69.67	47 P	24 27.20			0.8s	20.10nm	5.2mb	Centroid Location:					
ROB	69.73	49 P	24 22.62	NUR	77.13	30 eP	25 06.00	0.6	Origin Time 20:17:20.4 0.9					
IMI	69.78	49 P	24 22.71	PSZ	77.38	44 eP	25 07.70	0.5	Lat 6.06N 0.08 Lon 120.35E 0.10					
SLE	69.82	45 P	24 23.10	LCI	77.76	51 P	25 10.80	1.5	Dep 30.6 8.4 Half-duration 1.0					
CRP	69.89	329 eP	24 22.01	OHR	79.67	50 iP	25 21.30	1.5	Moment Tensor: Scale 10**16 Nm					
CP2	69.94	329 eP	24 22.62	ILT	79.68	338 eP	25 18.50	-0.7	Mrr= 1.81 0.34 Mtt= 0.69 0.44					
FIN	69.98	49 P	24 25.00			1.5s	32.00nm	5.1mb	Mff=-2.51 0.64 Mrt= 3.23 1.04					
CKI	70.00	49 P	24 24.30			i	25 36.00	63kmX	Mrf= 0.66 0.83 Mtf= 4.57 0.30					
PCP	70.18	48 P	24 25.64	SKO	79.91	49 eP	25 21.50	0.5	Principal Axes:					
VAI	70.20	47 Pc	24 25.40			1.0s	35.00nm	5.3mb	T Val= 6.12 Plg=36 Azm=329					
RSO	70.21	329 eP	24 24.19	PUL	80.06	30 (P)	25 27.00	5.6X	N -0.12 52 127					
TMA	70.24	47 ePd	24 26.00			1.4s	100.00nm	5.6mb	P -6.00 11 231					
LLS	70.25	46 ePd	24 26.50	HON	80.75	289 P	25 40.00	14.2X	Best Double Couple:Mo=6.1*10**16					
IMA	70.49	335 eP	24 25.90	Z	20s	0.24um	4.5Msz		NP1:Strike= 4 Dip=57 Slip= 160					
NB2	70.54	31 P	24 27.60	VAY	80.90	50 eP	25 27.70	1.4	NP2: 105 74 35					
	0.7s	8.60nm	5.0mb	CMP	81.49	45 ePc	25 39.00	9.6X	KKM	4.00	268 ePd	18 20.50	-1.3	
PGF	70.74	50 eP	24 28.60	MLR	82.04	45 ePc	25 35.40	3.1X			iS	19 05.50		
	1.1s	43.45nm	5.5mb	CVO	82.09	44 eP	25 35.50	3.1X	CTB	4.06	76 ePd	18 23.00	0.4	
BOB	70.80	48 P	24 29.60	VR1	82.44	44 eP	25 37.50	3.3X			eS	19 12.00		
OSS	71.05	46 ePd	24 31.20	OBN	84.95	33 eP	25 51.00	4.2X	DAV	5.38	80 eP	18 40.00	-1.2	
GRF	71.43	43 ePd	24 32.80			1.0s	35.00nm	5.5mb			1.2s	562.50nm	5.8mb	
	1.4s	20.00nm	5.0mb	MOS	85.21	33 eP	25 53.00	5.0X	PLP	6.80	43 iPd	18 59.00	-2.1	
Z	19s	0.40um	4.7Msz	BCAO	88.32	86 iPd	26 07.00	2.9X	PCI	7.08	183 ePd	19 05.00	-0.1	
BRW	71.48	340 eP	24 36.70			1.1s	22.00nm	5.4mb			e(S)	20 09.50		
MOX	71.58	42 eP	24 34.00	TIK	89.33	354 eP	26 10.00	2.2	BAG	10.14	2 eP	19 48.00	0.5	
	1.4s	26.00nm	5.1mb			1.0s	18.00nm	5.3mb	MKS	11.38	184 ePc	20 05.20	1.0	
Z	20s	0.40um	4.7Msz	Z	16s	0.50um	5.0MszX		CVP	11.52	8 eP	20 07.00	0.8	
SVW	71.58	329 eP	24 34.50	NRI	91.37	7 iPd	26 23.20	5.9X	AAI	12.65	141 ePc	20 25.00	3.8X	
TTA	71.63	331 eP	24 31.48			1.0s	15.00nm	5.3mb	TRT	15.77	209 ePc	21 02.90	1.0	
	1.0s	6.93nm	4.7mb	Z	22s	2.80um	5.7Msz		OIZ	16.26	322 P	21 12.00	3.7X	
OGA	71.63	46 iPc	24 35.10	E	20s	0.50um					0.8s	40.00nm	4.6mb	
FUR	71.64	44 P	24 34.50			i	26 36.00	42kmX	GZH	18.04	339 eP	21 30.00	-0.4	
HFS	71.82	32 eP	24 34.50	RMO	142.33	250 ePKP	32 46.90	1.4	Z	14s	1.62um			
	1.0s	17.10nm	5.1mb	CMS	144.13	241 ePKP	32 51.00	2.6X	LEM	18.06	224 ePc	21 31.50	0.6	
Z	19s	199.00um	7.4MszX			1.1s	8.00nm				eS	25 07.00		
WTTA	72.00	45 iPc	24 36.10	CTA	144.68	261 iPKPc	32 51.00	1.4	IPM	19.19	266 ePd	21 44.30	-0.1	
		LR	46 18.00			2.0s	58.82nm		LOE	21.23	303 iPd	22 05.00	-0.7	
CTI	72.17	47 P	24 40.50	BFD	144.96	230 ePKP	32 50.00	0.4	NST	21.83	297 eP	22 13.00	1.3	
CLL	72.37	41 eP	24 37.00			0.8s	20.00nm		KHT	22.90	294 iPc	22 23.00	0.8	
	1.9s	32.00nm	5.1mb	QLP	146.35	249 ePKP	32 53.00	0.7	BDT	23.47	300 eP	22 24.00	-3.7X	
PGD	72.53	49 P	24 38.70	STK	147.52	239 ePKP	32 55.10	1.1			1.2s	136.90nm	5.3mb	
WET	72.57	43 iPc	24 40.30			0.9s	2.70nm		GYA	23.93	329 iPc	22 33.00	0.7	
CRE	72.73	49 P	24 44.80	LEM	168.61	6 ePKPc	33 18.00	-1.3			1.2s	33.00nm	4.7mb	
FVI	72.87	46 P	24 43.90			S.D. = 1.0 on 249 of 292 obs.			Z	20s	0.94um	4.3Msz		
BRG	73.01	41 iPd	24 42.40			APR 08, 1993 19h 15m 17.38 ± 0.57s				CHG	24.22	303 ePc	22 35.00	-0.1
	0.8s	16.00nm	5.1mb	39.705 N ± 7.5km 20.631 E ± 5.2km							1.3s	52.80nm	4.9mb	
KHC	73.03	43 Pd	24 46.30	DEPTH = 13.1 ± 3.7 km					SSE	24.77	2 Pd	22 41.50	1.3	
	1.1s	12.50nm	4.9mb	GREECE-ALBANIA BORDER REGION (392)							1.3s	61.00nm	5.0mb	
GEC2	73.15	43 e(P)	24 43.60	ML 2.6 (THE).					Z	20s	0.60um	4.1Msz		
KBA	73.18	45 iPc	24 43.50	IGT	0.29	233 ePg	15 23.92	0.3	N	14s	0.50um			
		i	24 47.50	FNA	1.22	28 ePb	15 39.25	-0.6	E	14s	0.40um			
ASS	73.33	50 P	24 43.30			eSg	15 30.36		WHN	24.82	348 ePd	22 42.10	1.3	
RBL	73.43	46 P	24 44.60	OHR	1.41	5 iPn	15 43.40	0.7			Z	14s	1.30um	4.6MszX
MNS	73.46	50 P	24 45.70	AGG	1.48	117 ePb	15 44.28	0.5			E	12s	0.73um	
ARV	73.47	49 P	24 51.70			iSg	16 03.10		KMI	25.18	320 Pc	22 44.50	0.0	
PRU	73.52	42 Pd	24 40.70	LIT	1.48	74 iPb	15 43.84	0.1			1.5s	110.00nm	5.2mb	
	Z	19s	0.60um			eSb	16 05.48		Z	20s	1.20um	4.4Msz		
TRI	73.68	47 eP	24 46.40	GRG	1.84	47 ePb	15 50.12	1.2			pP	22 57.00	50kmX	
VOY	73.72	46 eP	24 46.70	THE	2.01	62 ePn	15 53.64	2.3	NJ2	25.74	357 Pc	22 50.50	1.2	
											0.8s	15.00nm	4.6mb	
									Z	18s	0.80um	4.3Msz		

CD2	29.02	330 Pd	23 18.70	-0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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08d 21h

	1.5s	16.00nm		4.9mb	IMA	72.10	19	iPd	42	06.74	-1.2		0.4s	48.00nm		5.4mb				
	Z 16s	1.30um		6.5MszX	INK	74.41	11	eP	42	21.50	0.4			eS	20	06.00				
	N 16s	2.30um				1.0s		2.00nm			4.1mb		MEEK	17.55	196	eP	20	49.00	-0.1	
		pP	33	51.00	FBA	74.53	18	(P)	42	19.62	-2.3			eS	23	46.00				
		sP	33	41.00	YKA	82.15	5	eP	43	01.50	-2.0									
MAIO	12.88	279	eP	33	41.00	-7.6X			0.9s	1.50nm		4.0mb		S.D. = 0.4	on	5	of	5	obs.	
		e	35	50.00	STK	91.33	129	eP	44	00.40	11.7X									
ASH	13.86	286	eP	33	49.50	-12.0X			1.1s	1.80nm			%	APR 08, 1993	22h	42m	35.61±	0.72s		
VAN	14.06	286	eP	33	58.00	-6.1X			S.D. = 1.4	on	35	of	50	obs.			40.431	N ± 5.7km	23.792	E ± 6.9km
	Z 14s	1.50um															DEPTH = 10.0km	(geophysicist)		
LSA	14.50	109	P	34	10.20	-0.1											GREECE		(364)	
	Z 10s	2.55um															ML 2.4	(THE).		
KAT	15.64	290	eP	34	26.00	1.4														
	Z 12s	1.10um																		
	N 12s	1.00um																		
	E 12s	1.20um																		
POO	16.82	185	eP	34	45.00	5.1X														
SHL	17.28	120	eP	34	42.00	-3.7X														
		eS	40	20.00																
HYB	18.11	170	ePd	34	56.50	0.5														
	1.0s	25.00nm		4.3mb																
ELT	19.47	20	eP	35	12.30	0.3														
	1.5s	58.00nm		4.6mb																
	Z 13s	1.00um		4.4Msz																
		e	38	47.00																
GTA	19.86	71	P	35	18.50	2.1														
	1.0s	47.00nm		4.8mb																
	Z 15s	0.86um		4.1Msz																
GBA	21.76	174	P	35	37.00	1.2														
		S	40	35.00																
LZH	23.14	80	eP	35	52.50	2.9X														
	1.2s	36.00nm		4.7mb																
	Z 12s	0.37um		4.1MszX																
	E 10s	0.69um																		
KER	23.14	276	eP	35	55.00	5.4X														
GRS	23.33	289	eP	35	53.00	1.6														
		e	36	25.00																
TAB	23.35	285	eP	35	51.00	-0.6														
SVE	23.64	340	ePc	35	53.00	-1.0														
	2.1s	40.00nm		4.6mb																
	Z 11s	0.60um		4.3MszX																
	N 11s	0.40um																		
	E 11s	0.50um																		
		eS	40	05.00																
ARU	23.91	337	eP	35	55.00	-1.7														
	2.2s	150.00nm		5.1mb																
	N 12s	1.00um																		
	E 12s	1.00um																		
		e	36	02.00																
CD2	24.19	92	eP	36	00.00	0.4														
MOY	24.55	40	eP	36	05.60	2.7X														
KOD	25.10	175	eP	36	10.00	1.2														
ZAK	25.20	45	eP	36	11.00	1.9														
	1.6s	16.00nm		4.4mb																
	Z 13s	0.58um		4.3MszX																
	E 14s	0.38um																		
CHG	26.62	122	ePc	36	24.30	1.7														
	1.0s	29.25nm		4.9mb																
XAN	27.59	83	P	36	33.00	1.7														
	1.0s	5.40nm		4.2mb																
	N 11s	0.70um																		
	E 11s	0.37um																		
BTO	27.73	69	eP	36	35.00	2.4														
GYA	28.23	100	iPc	36	35.40	-1.9														
	Z 10s	0.69um		4.5MszX																
OBN	33.06	319	eP	37	32.00	12.5X														
	Z 12s	0.50um		4.4MszX																
	E 12s	0.70um																		
		e	38	53.00																
BOD	34.18	37	eP	37	27.50	-1.8														
NRI	34.81	8	ePc	37	34.00	-0.5														
		e	37	48.00																
MLR	38.38	301	eP	38	03.00	-2.1														
UZH	40.77	306	eP	38	26.00	1.4														
	1.0s	10.00nm		4.5mb																
TIK	45.53	21	eP	39	04.20	1.2														
	1.5s	12.00nm		4.6mb																
	Z 14s	0.40um		4.5MszX																
		e	39	13.00																
HFS	46.11	322	eP	39	01.90	-5.7X														
	0.5s	1.40nm		4.2mb																
	Z 16s	237.00um		7.2MszX																
		LR	57	51.00																
NB2	47.38	323	P	39	13.10	-4.7X														
	1.0s	5.80nm		4.5mb																
MBC	68.27	4	eP	41	43.00	-1.3														
	0.9s	9.00nm		4.9mb																

09d 00h

SSN 2.37 106 eP 06 54.03 -0.3
 YUP 2.71 324 eP 06 58.20 -1.2
 QZG 2.89 336 eP 07 02.60 0.7
 MRL 3.40 334 eP 07 07.96 -1.2
 PPM 12.29 306 (P) 09 13.00 0.6
 III 12.61 302 (P) 09 17.00 0.5
 SDV 17.52 98 eP 10 20.10 0.4
 GOGA 21.76 11 eP 11 07.14 1.0

0.2s 20.14nm 5.2mb
 LTJ 22.50 322 eP 11 12.73 -0.9
 PRM 22.63 13 IPc 11 15.86 1.1
 MIAR 22.99 349 IPd 11 18.81 0.5
 0.7s 38.78nm 4.9mb

JSC 23.07 15 eP 11 19.63 0.6
 MEO 24.59 339 IPd 11 33.20 -0.7
 WMOK 24.62 339 IPd 11 33.87 -0.3
 1.0s 28.51nm 4.8mb

FNO 24.63 342 IPc 11 34.00 -0.3
 OCO 24.90 342 IPc 11 38.20 1.4
 CEH 25.18 18 eP 11 38.55 -0.8
 0.5s 8.98nm 4.6mb

ELC 25.21 358 eP 11 46.39 28kmX
 PCO 25.85 344 IPc 11 39.21 -0.5
 ACO 26.52 340 IPc 11 51.90 0.1
 ALO 28.25 327 IPd 12 09.76 2.0
 0.7s 1.76nm 3.8mb

GLD 31.50 334 (P) 12 16.34 23kmX
 1.1s 10.55nm 4.5mb
 GOL 31.52 334 IPc 12 38.17 1.2
 0.8s 7.09nm 4.5mb

PV10 32.20 328 IPd 12 45.61 20kmX
 0.8s 7.09nm 4.5mb
 SRU 33.52 328 IPc 12 46.55 29kmX
 RSNY 34.50 17 eP 12 48.87 24kmX
 0.8s 2.21nm 4.1mb

RSSD 34.81 340 eP 13 05.47 0.1
 0.6s 5.26nm 4.6mb
 EEO 35.39 11 eP 13 12.91 25kmX
 BW06 35.86 333 eP 13 15.80 2.0
 1.4s 9.33nm 4.5mb

SIV 38.62 135 P 13 52.00 14.5X
 ULM 38.67 352 eP 13 38.00 0.5
 LMN 39.16 26 eP 13 44.00 2.3
 LCCM 39.30 334 eP 13 43.30 0.3
 JAO 42.87 11 eP 14 09.50 -2.5
 FCC 46.90 356 eP 14 43.80 -0.2
 FRB 53.51 11 eP 15 31.50 -2.9
 0.8s 6.00nm 4.7mb

YKA 53.87 345 eP 15 34.70 -2.4
 0.8s 3.90nm 4.5mb
 INK 63.43 343 eP 16 44.00 0.4
 1.0s 2.00nm 4.2mb
 MBC 66.38 352 eP 17 01.00 -1.5
 1.0s 2.00nm 4.1mb

GBA 150.84 30 PKP 26 08.00 7.4X
 S.D. = 1.3 on 38 of 42 obs.

? APR 09, 1993 01h 11m 28.83± 4.07s
 46.020 N ±15.4km 7.607 E ±51.6km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.0 (LDG).

LPL 0.79 231 Pg 11 44.30 -0.1
 Sg 11 58.00
 LPG 0.79 229 Pg 11 44.40 -0.1
 Sg 11 57.80
 BNI 1.17 214 P 11 50.90 0.2
 eSg 12 05.10
 BSF 1.90 343 Pg 12 01.10 -0.5
 Sg 12 25.50
 HAU 2.16 337 Pg 12 06.00 0.6
 Sg 12 33.70

S.D. = 0.6 on 5 of 5 obs.

APR 09, 1993 01h 13m 01.51± 0.49s
 46.090 N ± 3.9km 7.828 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.7 (LDG).

ORO 0.48 167 P 13 10.50 -0.7
 eSg 13 16.00
 VAI 0.69 108 P 13 16.00 0.8
 eSg 13 23.60
 LSD 0.79 217 P 13 17.62 0.6
 S 13 27.66

LPL 0.96 234 Pg 13 20.20 0.3
 Sg 13 33.80
 LPG 0.96 232 Pg 13 20.20 0.2
 Sg 13 33.80
 RSP 1.02 203 P 13 20.91 0.0
 S 13 34.34

BHB 1.31 198 P 13 25.81 0.0
 S 13 41.86
 BNI 1.32 218 P 13 26.80 0.9
 eSg 13 41.90
 RRL 1.38 212 P 13 28.37 1.3
 S 13 46.43

PCP 1.63 162 P 13 31.67 1.3
 PZZ 1.67 198 P 13 30.25 -0.8
 S 13 49.08
 BSF 1.88 338 Pn 13 35.10 1.0
 Pg 13 38.30

FIN 1.90 172 P 13 40.90
 Sg 14 01.90
 HAU 2.17 333 Pn 13 33.19 -1.1
 Pg 13 39.30 1.1
 Sg 14 11.20

IMI 2.18 179 P 13 37.13 -1.3
 CDF 2.35 351 Pn 13 41.20 0.3
 Pg 13 46.20
 Sg 14 16.10
 FRF 2.67 199 Pg 13 49.50 4.2X
 Sg 14 24.90

LBF 2.80 290 Pn 13 45.60 -1.7
 Pg 13 56.60
 SMF 2.82 283 Pn 13 31.90 0.2
 Pg 13 47.60
 Sg 14 32.40

LRG 2.84 202 Pg 13 53.30 5.7X
 LMR 2.91 199 Pg 13 54.60 5.9X
 LOR 2.98 295 Pn 13 47.90 -1.7
 Pg 13 59.50
 Sg 14 36.00

GEC2 4.84 53 Pn 14 15.30 -1.0
 Sn 15 07.90
 S.D. = 1.0 on 20 of 23 obs.

? APR 09, 1993 01h 46m 56.04± 3.39s
 66.417 N ±33.9km 149.786 W ±16.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ALASKA (676)
 ML 2.6 (AEIC).

MLY 1.45 196 P 47 21.20 -1.1
 S 47 40.40
 MDM 1.60 156 P 47 25.60 1.1
 S 47 44.50
 IMA 1.62 259 eP 47 24.94 0.2
 eS 47 45.78

GLM 1.74 144 P 47 26.00 -0.6
 S 47 48.90
 NEA 1.87 171 P 47 30.30 1.9
 S 47 52.80
 CCB 1.96 154 P 47 29.10 -0.5
 WRH 2.08 159 P 47 30.30 -1.1
 S 47 58.70

HDA 2.34 148 P 47 35.20 0.0
 S.D. = 1.3 on 8 of 8 obs.

? APR 09, 1993 01h 53m 47.06± 1.18s
 35.498 N ±12.5km 75.504 E ±15.6km
 DEPTH = 33.0km (normal)
 EASTERN KASHMIR (302)

NDI 6.95 167 IPnc 55 29.90 0.7
 GKN 10.78 131 P 56 23.20 0.9
 KKN 11.33 130 P 56 29.20 -0.7
 DMN 11.35 131 P 56 30.40 0.2
 PKI 11.56 130 P 56 33.00 -0.2
 GUN 11.62 128 P 56 33.60 -0.4

GBA 21.87 175 P 58 38.00 -0.8
 CHG 26.56 123 eP 59 29.00 5.1X
 MBC 68.13 4 eP 04 45.50 0.2
 S.D. = 0.7 on 8 of 9 obs.

APR 09, 1993 02h 19m 12.29± 0.58s
 39.252 N ± 5.0km 28.160 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

KCT 1.01 9 IPg 19 32.20 0.8
 IZM 1.10 220 IPg 19 32.00 -1.0
 ISg 19 47.00
 EDC 1.12 348 IPn 19 34.50 1.3
 BNT 1.12 351 IPn 19 33.00 -0.3
 KHL 1.41 131 ePn 19 37.50 -0.6
 EZN 1.53 293 IPn 19 39.60 -0.1
 YLV 1.61 35 IPn 19 40.00 -0.9
 CIN 1.65 182 ePn 19 43.00 1.6
 ISg 20 04.00

CTT 1.90 6 ePn 19 44.00 -1.1
 ISK 1.94 21 ePn 19 45.00 -0.6
 GPA 1.95 57 ePn 19 46.00 0.1
 EYL 2.02 49 ePn 19 47.50 0.6
 S.D. = 1.0 on 12 of 12 obs.

? APR 09, 1993 02h 52m 24.88± 2.27s
 12.140 N ±24.9km 87.825 W ±31.6km
 DEPTH = 103.0 ± 22.1 km
 3.9mb (1 obs.)
 NEAR COAST OF NICARAGUA (74)

YUP 2.81 317 eP 53 09.27 0.2
 IXG 3.26 309 eP 53 14.61 -0.6
 eS 54 01.87
 PRM 22.40 12 (P) 57 15.74 0.1
 LTJ 22.58 322 eP 57 18.67 1.1
 MEO 24.57 338 IPc 57 38.00 1.4
 ACO 26.49 339 IPc 57 55.10 0.7
 PV08 32.20 328 (P) 58 46.17 0.6
 DAU 34.91 328 (P) 59 07.84 -1.0
 SIV 38.49 136 P 59 39.20 0.3
 YKA 53.81 345 eP 01 36.00 -2.8
 0.7s 0.90nm 3.9mb

S.D. = 1.5 on 10 of 10 obs.

? APR 09, 1993 03h 22m 44.92± 4.24s
 15.453 N ±25.0km 60.693 W ±68.5km
 DEPTH = 100.0km (geophysicist)
 LEEWARD ISLANDS (92)

CRM 0.73 197 IPd 23 03.23 0.4
 S 23 17.80
 MGG 0.76 308 eP 23 02.50 -0.6
 S 23 17.00
 FDF 0.84 212 eP 23 03.76 -0.2
 S 23 18.60
 MVM 0.91 192 IPd 23 04.96 0.2
 S 23 20.70
 BIM 1.00 201 eP 23 05.23 -0.4
 S 23 22.10
 PAG 1.11 301 eP 23 07.50 0.6
 S.D. = 0.6 on 6 of 6 obs.

APR 09, 1993 03h 35m 35.74± 0.66s
 2.700 N ± 3.9km 128.334 E ± 5.3km
 DEPTH = 188.8 ± 6.9 km
 5.0mb (44 obs.)
 HALMAHERA, INDONESIA (267)

TNE 2.14 208 IPc 36 16.50 1.3
 MNI 3.71 250 ePd 36 33.20 -0.8
 eS 37 16.50
 CTB 6.08 318 ePd 37 04.00 -0.6
 PLP 9.04 339 ePc 37 49.50 5.9X
 MKS 11.84 228 IPc 38 23.60 3.6X
 KKM 12.53 286 ePc 38 26.50 -0.4
 1.5s 241.10nm 5.4mb

MTN 15.69 170 eP 39 07.50 -0.7
 0.4s 58.00nm 5.3mb
 CVP 16.22 337 eP 39 09.00 -5.7X
 KNA 18.34 179 eP 39 38.60 0.0
 GUMO 19.60 56 eP 39 53.70 2.1
 PJG 19.60 56 eP 39 53.50 1.9
 GUA 19.61 56 eP 39 54.00 2.3
 0.7s 71.23nm 5.3mb

LEM 22.74 245 ePd 40 26.20 3.4X
 WB2 23.27 166 IPd 40 27.70 0.0
 0.6s 7.10nm 4.4mb
 IPcP 44 32.70
 eS 44 45.60

ASPA	26.76	169	iPc	40	59.10	-0.9	WMQ	54.48	325	P	44	46.00	-0.1	e	39	55.60				
	0.6s	13.80nm				4.8mb		1.0s	56.00nm				5.2mb	e	40	02.90				
			e	41	40.90				sP	45	46.00			eSg	40	09.50				
			iPcP	44	18.50		BOD	56.12	351	iPc	44	56.00	-1.5	e	40	24.00				
			iS	45	21.20			1.2s	47.00nm				5.1mb	ePn	39	21.50	0.4			
			ePcS	47	57.10		YAK	59.18	1	iPc	45	17.90	-0.8	ePn	39	22.10	0.8			
KAGJ	28.44	5	P	41	14.20	-0.8		0.8s	230.00nm				6.0mb	iPg	39	31.30				
WARB	28.76	183	eP	41	17.00	-0.9			i	46	05.00			iSg	40	10.70				
SSE	29.04	347	Pc	41	20.50	0.2	MGD	59.80	13	iPc	45	22.70	-0.3	Pn	39	23.40	-0.4			
	1.0s	15.00nm				4.7mb		0.8s	70.00nm				5.5mb	Pg	39	30.50				
KUMJ	29.77	4	P	41	26.00	-0.7			e	46	29.00			Sg	40	09.80				
NJ2	30.53	344	Pd	41	33.80	0.4	KSH	59.87	315	P	45	25.70	1.7	iPnc	39	24.50	0.0			
WHN	30.69	336	Pd	41	36.20	1.4	QUE	64.05	302	eP	45	53.50	1.5	iPnd	39	26.80	0.7			
	0.6s	14.00nm				4.9mb	MAIO	71.41	307	iPc	46	37.70	0.2	iPg	39	34.70				
SHNJ	31.37	4	P	41	39.00	-1.7	NRI	71.72	346	eP	46	37.00	-1.6	iSn	40	03.50				
TKSJ	31.58	9	P	41	42.30	-0.2		1.0s	35.00nm				5.1mb	iSg	40	18.10				
WKYJ	32.08	11	P	41	46.70	-0.3			e	46	55.00			ePn	39	28.00	0.2			
YONJ	32.67	8	P	41	51.80	-0.3			e	47	40.00			i(Pg)	39	36.00				
QLP	32.92	153	eP	41	53.70	-0.5	ILT	74.28	18	iPc	46	53.20	-0.3	i(Sn)	40	21.30				
CHG	32.92	301	eP	41	55.20	0.8		1.3s	26.00nm				4.8mb	Lg	40	35.00				
KMI	33.24	314	eP	41	58.50	1.2	SVE	75.67	328	iP	47	00.00	-1.6	ePnd	39	31.20	0.4			
	1.5s	50.00nm				4.9mb		1.2s	50.00nm				5.1mb	ePg	39	43.80				
FORT	33.29	180	eP	41	56.00	-1.4			e	48	08.00			e(Sn)	40	15.30				
TSRJ	33.43	11	eP	41	57.90	-0.7	ARU	76.63	328	ePc	47	06.50	-0.4	eSg	40	28.90				
CHJJ	34.62	15	P	42	06.40	-2.3		1.0s	50.00nm				5.2mb	iPn+	39	33.20	0.8			
MTMJ	34.83	13	P	42	09.10	-1.5	SDN	77.14	34	eP	47	09.31	-0.4	iSg	40	33.40				
MAT	34.89	14	iPc	42	08.90	-2.1		0.8s	103.65nm				5.6mb	eP	39	35.20	0.8			
	0.8s	69.40nm				5.4mb	CRP	82.60	29	eP	47	38.14	-0.7	eP	39	46.30	10.4X			
NIJJ	35.75	15	eP	42	16.00	-2.1	BRW	82.64	18	eP	47	40.11	1.4	e	40	30.60				
XAN	36.06	332	iPc	42	21.00	0.1	IMA	82.67	24	iPc	47	40.42	1.2	eP	39	41.20	0.0			
	1.0s	49.00nm				5.1mb		0.8s	24.39nm				5.0mb	ePn	39	41.40	-0.1			
CD2	36.42	323	P	42	24.60	0.6	SLKM	83.44	30	eP	47	43.13	0.1	iPnd	39	44.70	-0.2			
	1.2s	57.00nm				5.1mb	PMR	84.08	28	iPd	47	46.13	0.0	iPnc	39	47.60	-0.6			
STK	36.62	161	eP	42	25.60	0.0		0.9s	47.51nm				5.2mb	i	39	56.40				
	0.5s	8.40nm				4.6mb		85.61	29	eP	47	54.70	0.8	iSg	41	07.00				
YAMJ	36.90	15	eP	42	28.10	0.3	KLU	88.80	325	iPd	48	09.20	0.0	ePnc	39	50.30	-0.2			
TIY	37.78	339	eP	42	35.50	0.2	OBN	1.0s	35.00nm				5.3mb	eSn	41	12.70				
	0.8s	33.00nm				5.0mb	INK	90.53	22	eP	48	18.00	1.0	iPnc	39	52.50	-0.2			
BRS	38.08	143	iP	42	37.50	-0.4		1.0s	3.00nm				4.3mb	iSg	41	18.10				
OFUJ	38.20	17	eP	42	38.90	0.2	MBC	92.60	13	eP	48	27.00	0.6	iPnc	39	53.40	0.1			
BJI	38.77	345	eP	42	43.50	0.1	DAG	98.49	353	eP	48	52.80	-0.4	i	41	18.10				
	1.2s	100.00nm				5.3mb		1.0s	15.00nm				5.4mb	iSg	41	20.60				
SNY	39.19	354	Pc	42	46.70	-0.1	SLL	99.70	333	eP	48	57.60	-1.5	iPnc	39	54.20	-1.0			
	1.0s	44.00nm				5.1mb		0.8s	20.50nm				5.6mb	Pc	39	54.80	-1.1			
LZH	40.20	329	iPc	42	57.00	1.6	YKA	99.76	25	eP	48	58.90	-0.4	eSn	41	25.00				
	1.2s	140.00nm				5.4mb		0.9s	1.80nm				4.5mb	iPnc	39	55.90	-0.1			
			sP	43	55.00		NB2	100.41	334	Pd diff	49	00.70	-1.5	FVI	5.51	205	P	39	55.80	-0.6
			PcP	44	57.50			0.9s	4.30nm				4.9mb	BNS	5.68	267	ePc	39	59.20	0.3
			ScP	48	29.00		RSSD	114.00	39	ePKP	53	53.80	-0.6		eS	41	37.90			
			S	48	50.00		KIC	132.29	281	PKP	54	31.00	1.1	PTJ	5.73	181	eP	40	04.60	4.9X
HHC	40.88	340	iPc	43	01.60	0.7	LKO	132.51	285	PKP	54	31.46	1.1	VOY	5.80	196	e(Pn)	40	00.00	-0.6
	1.0s	51.00nm				5.0mb	TIC	132.52	281	PKP	54	31.30	0.9		e	40	00.20			
CN2	41.01	357	eP	43	01.00	-0.7	LIC	132.60	281	PKP	54	31.60	1.1		e	40	20.70			
	1.0s	12.00nm				4.4mb	TCA	149.01	158	iPKPc	55	04.30	5.2X		e(Sn)	41	20.00			
HOIJ	41.72	17	eP	43	08.90	1.4	CNCB	158.70	132	PKP	55	16.00	2.7X	ZAG	5.81	181	eP	40	05.00	4.3X
MDJ	41.76	1	eP	43	08.20	0.4	LPB	158.78	131	ePKP	55	27.00	13.8X	WTS	5.82	277	ePn	40	03.00	2.3
	1.3s	63.00nm				5.0mb	ZOBO	158.93	131	PKP	55	15.90	2.3X		0.7s	4.80nm			4.3mb X	
BFD	41.82	163	eP	43	09.20	0.8		S.D. = 1.0	on 89 of 98 obs.					eSn	41	52.00				
	1.0s	18.00nm				4.6mb								OGA	5.83	217	iPd	40	01.60	0.4
KUSJ	42.79	18	eP	43	09.30	-6.9X		APR 09, 1993	03h 38m 32.43±0.50s					CEY	6.00	192	eP	40	26.00	22.6X
ASAJ	43.15	15	eP	43	19.50	0.4		51.625 N ± 4.1km	16.170 E ± 4.3km						e(Sn)	41	14.00			
LSA	44.32	311	Pc	43	30.80	1.5		DEPTH = 10.0km	(geophysicist)					VBV	6.16	186	iPnd	40	05.30	-0.3
	1.8s	38.00nm				4.6mb		4.1mb (2 obs.)							e(Sn)	41	21.00			
GTA	44.80	328	P	43	33.50	0.9	POLAND							CTI	6.33	210	P	40	08.20	0.1
	1.0s	38.00nm				4.8mb		ML 4.1 (GRF), 4.0 (VIE).						CDF	6.57	244	Pn	40	10.60	-0.9
			PcP	45	12.50										Sg	41	57.60			
			ScP	48	47.00		BRG	1.59	243	iPg	39	02.20	1.6		Pn	40	18.30	-1.5		
			S	49	56.00										Pg	40	50.60			
			ScS	53	10.50		PRU	1.94	213	iPnd	39	05.70	0.0		Sg	42	16.30			
GUN	47.62	306	P	43	55.40	0.2		0.5s	184.60nm					HAU	7.31	244	Pn	40	20.60	-1.2
PKI	47.87	305	P	43	56.60	-0.5									Pg	40	54.30			
	0.5s	11.00nm</																		

% APR 09, 1993 04h 00m 49.57±2.20s
16.154 N ±13.2km 60.839 W ±21.8km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

DEG	0.26	307	ePc	00	56.88	-0.1
			S	01	02.44	
SFG	0.36	286	eP	00	58.16	0.1
MGG	0.52	243	eP	01	00.38	0.0
CRM	1.39	183	eP	01	13.02	0.1
FDF	1.44	192	iPd	01	13.59	-0.1
			S	01	32.90	

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

APR 09, 1993 05h 06m 55.56±0.43s
49.142 N ±3.4km 6.880 E ±5.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.6 (STR), 2.3 (UCC).

RUP	0.57	12	ePg	07	06.27	-0.9
LANF	0.63	104	Pg	07	08.07	-0.2
WLF	0.71	318	iPc	07	09.13	-0.3
			iS	07	18.22	
HOFF	0.74	105	Pg	07	10.22	0.2
CDF	0.78	160	Pg	07	10.12	-0.6
			Sg	07	21.48	
WLS	0.79	157	Pg	07	10.48	-0.6
			Sg	07	23.43	
ABH	0.86	30	ePg	07	11.21	-0.9
ECH	0.94	169	Pg	07	13.34	-0.3
			Sg	07	27.35	
VITF	1.10	213	Pg	07	15.79	-0.4
			Sg	07	30.84	
LIBD	1.10	154	Pg	07	17.27	1.0
MOF	1.30	172	Pg	07	20.23	0.5
BSF	1.31	183	Pg	07	20.27	0.4
FEL	1.47	149	ePg	07	23.16	0.9
TNS	1.49	43	ePnc	07	23.70	1.3
			iSn	07	42.30	
			iSg	07	46.00	

ENN	1.74	340	e(Pn)	07	28.00	2.0
	0.4s	8.30nm	e(Sn)	07	51.00	
DOU	1.77	304	Pc	07	25.00	-0.6
LOMF	1.79	181	Pn	07	26.16	-0.7
			Pg	07	29.26	
GRF	2.89	77	ePg	07	55.50	13.0X
			e	08	27.10	
GEC2	4.50	91	Pn	08	04.50	-0.9
			Sn	08	55.90	
			Sg	09	18.80	

S.D. = 0.9 on 18 of 19 obs.

* APR 09, 1993 05h 12m 02.59±1.05s
13.687 N ±17.4km 143.070 E ±10.1km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUMO	1.75	93	eP	12	31.30	0.2
			eS	12	55.90	
PJG	1.75	93	eP	12	31.30	0.2
GUA	1.80	94	eP	12	31.40	-0.4
			eS	12	56.30	
WB2	34.50	195	iPc	18	49.80	-0.1
	0.5s	8.50nm			4.9mb	
ASPA	38.19	194	iPc	19	20.80	-0.3
	0.3s	3.50nm			4.7mb	
WARB	42.73	202	eP	19	59.00	0.5
YKA	83.58	27	eP	24	28.50	-0.1
	0.4s	0.20nm			3.6mb	

S.D. = 0.4 on 7 of 7 obs.

* APR 09, 1993 05h 34m 25.73±0.90s
7.742 S ±12.2km 156.705 E ±11.2km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
SOLOMON ISLANDS (193)

HNR	3.62	118	eP	35	20.00	-0.8
			eS	35	28.00	
RAB	5.73	308	e(P)	35	50.00	-0.8
DZM	17.06	148	iPd	38	35.10	11.6X
RMO	20.12	201	eP	39	00.00	0.2
	1.1s	45.00nm			4.7mb	

QLP	22.17	211	eP	39	20.10	-0.5
ARMA	23.06	191	eP	39	40.50	11.1X
	0.9s	8.00nm				
WB2	24.82	238	iPc	39	45.30	-1.2
	0.5s	9.40nm			4.6mb	
CMS	25.71	202	eP	39	54.00	-0.8
ASPA	27.00	232	eP	40	07.90	1.1
	0.6s	3.90nm			4.2mb	
STK	27.84	208	eP	40	15.80	1.5
	2.5s	0.90nm			3.0mb X	
YKA	96.20	28	eP	47	52.70	1.2
	0.9s	1.20nm			4.4mb	

S.D. = 1.2 on 9 of 11 obs.

% APR 09, 1993 05h 43m 26.32±3.10s
40.846 N ±10.4km 30.321 E ±22.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

EYL	0.31	204	iPg	43	32.40	-0.3
			eSg	43	39.40	
HRT	0.50	267	iPg	43	36.60	0.2
YLV	0.77	249	iPn	43	40.90	-0.5
ISK	0.98	283	iPn	43	44.40	-0.5
CTT	1.46	282	iPn	43	52.40	-0.4
KCT	1.61	249	ePn	43	55.90	1.0
BNT	1.89	256	ePn	43	59.40	0.4
DMK	2.16	298	ePn	44	03.00	0.1

S.D. = 0.6 on 8 of 8 obs.

? APR 09, 1993 05h 54m 17.30±0.89s
31.477 S ±24.1km 13.591 W ±11.6km
DEPTH = 10.0km (geophysicist)
5.5mb (1 obs.) 5.1msz (2 obs.)
SOUTHERN MID-ATLANTIC RIDGE (410)

KIC	38.56	14	(P)	01	42.80	0.8
BUL	39.42	84	eP	01	49.70	0.3
LSZ	41.33	77	eP	02	05.00	-0.1
			i	02	47.00	
			i	03	13.00	
LKO	41.50	12	P	02	05.30	-1.0
SIV	45.76	278	eP	02	57.00	16.1X
			e	04	04.00	
BCAO	47.04	46	iPc	02	50.20	-0.7
	1.0s	40.00nm			5.5mb	
			ic	03	58.30	
			id	06	48.00	

CNCB	51.26	273	P	03	26.10	1.9
LPB	51.48	273	eP	03	24.00	-1.8
Z 21s	2.51um				5.2msz	
	LR	19	54.00			
ZOBO	51.62	274	P	03	26.00	-1.0
Z 22s	1.29um				4.9msz	
	S	11	04.00			
	LR	20	32.00			

SDV	67.69	296	eP	05	18.40	1.0
MLR	84.59	27	eP	06	52.00	0.0
			e	31	22.00	
PRU	84.86	18	eP	07	02.00	8.9X
			e	08	07.50	
			e	08	33.50	
			e	10	52.00	
CLL	85.70	16	eP	06	58.00	0.8
YKA	122.41	327	ePKP	13	13.40	-0.1
	0.4s	0.10nm				

S.D. = 1.1 on 12 of 14 obs.

% APR 09, 1993 06h 18m 25.09±0.80s
26.427 S ±8.3km 27.433 E ±8.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

PRY	0.50	176	eP	18	34.50	-0.6
			S	18	41.00	
BFS	0.75	231	eP	18	40.60	0.6
			S	18	49.70	
SLR	1.03	48	eP	18	44.50	-0.6
			S	18	59.60	
SEK	1.90	175	iPc	18	59.10	0.5
			S	19	21.50	
SWZ	2.03	248	eP	19	00.10	-0.4
			S	19	22.90	
BFT	2.46	73	e(P)	19	07.50	0.8
BLF	2.89	202	eP	19	12.50	-0.3

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

? APR 09, 1993 06h 27m 41.24±4.76s
36.950 N ±32.1km 8.747 E ±31.3km
DEPTH = 10.0km (geophysicist)
TUNISIA (397)
mbLg 3.8 (MDD).

ESEL	5.39	303	ePn	29	05.00	1.3
			eSn	30	09.20	
PGF	5.59	2	Pn	29	08.70	2.1
LMR	6.60	346	Pn	29	18.90	-1.8
			Sn	30	35.10	
LRG	6.75	345	Pn	29	21.80	-0.9
			Sn	30	40.50	
FRF	6.80	347	Pn	29	22.30	-1.1
			Sn	30	39.90	
SBF	6.98	352	Pn	29	24.20	-1.8
			Sn	30	43.50	
ACU	7.42	285	ePn	29	32.70	0.4
EROO	7.57	303	ePn	29	34.50	0.3
			eSn	31	00.00	
ECHE	8.08	292	ePn	29	42.50	1.0
			eSn	31	12.00	
EALH	8.14	279	ePn	29	42.50	0.2
LPG	8.67	351	Pn	29	52.10	2.2
LPL	8.69	351	Pn	29	53.10	3.0X
EGRA	8.74	310	ePn	29	45.70	-4.8X
			eSn	31	18.00	
ENIJ	8.77	273	ePn	29	51.20	0.2
EPF	8.86	316	Pn	29	53.20	1.0
			Sn	31	32.10	
EVIA	9.06	284	ePn	29	55.20	0.0
			eSn	31	35.00	
EHUE	9.07	279	ePn	29	55.50	0.3
ETOR	9.27	298	ePn	29	57.50	-0.4
ECOG	9.84	276	ePn	30	05.00	-0.9
ELUO	10.39	277	ePn	30	12.80	-0.6
GUD	10.72	294	ePn	30	16.50	-1.5

S.D. = 1.3 on 19 of 21 obs.

% APR 09, 1993 06h 55m 31.83±1.57s
38.401 S ±8.7km 175.849 E ±7.0km
DEPTH = 210.7 ±15.1 km
NORTH ISLAND, NEW ZEALAND (159)

WLZ	0.57	339	P	56	00.80	0.3
			eS	56	18.80	
WHH	0.70	134	P	56	00.50	-0.9
MOZ	0.83	262	P	56	01.90	0.0
URZ	1.00	82	P	56	02.30	-0.6
			S	56	20.80	
WAHZ	1.35	163	P	56	05.80	0.2
TTH	1.37	147	P	56	05.90	0.2
BSZ	1.57	207	P	56	07.80	0.5
TEHZ	1.75	155	eP	56	09.40	0.3
PUZ	1.92	81	P	56	11.20	0.5
			e			

TNP 1.40 72 ePc 58 19.44 0.2
 KVN 1.53 24 eP 58 21.64 0.6
 ISA 2.02 170 P 58 29.56 1.6
 ARN 2.12 263 eP 58 29.45 0.0
 S 58 58.34
 PHAM 2.18 214 eP 58 29.62 -0.7
 TPNV 2.23 108 (P) 58 31.90 0.7
 BCH 2.64 202 eP 58 36.33 -0.7
 ORV 2.79 314 (P) 58 38.80 -0.2
 14 obs. associated

* APR 09, 1993 07h 07m 50.38± 3.32s
 33.801 N ±25.6km 140.322 E ±22.1km
 DEPTH = 93.8 ± 24.3 km
 3.9mb (2 obs.)

SOUTH OF HONSHU, JAPAN (211)

KAKJ 2.40 357 P 08 29.40 0.8
 eS 08 56.50
 CHJJ 2.49 334 P 08 30.20 0.3
 eS 08 59.60
 IIDJ 2.60 311 P 08 32.40 1.0
 S 09 03.60
 MAT 3.24 328 iPd 08 40.10 0.0
 eS 09 17.00
 MTMJ 3.46 324 P 08 43.70 0.5
 NIJJ 3.60 343 eP 08 44.60 -0.4
 S 09 25.40
 WKYJ 3.95 277 P 08 49.40 -0.5
 TSRJ 3.97 297 P 08 49.70 -0.5
 TKSJ 5.22 274 eP 09 06.90 -0.6
 OFUJ 5.38 11 eP 09 08.10 -1.6
 S 10 04.90
 YONJ 5.83 286 P 09 15.50 -0.4
 KUMJ 8.06 264 eP 09 47.30 0.8
 IMA 49.93 29 eP 16 36.90 0.7
 1.0s 1.00nm 3.8mb
 FBA 52.32 31 iP 16 54.60 0.5
 0.6s 0.90nm 4.0mb
 INK 57.67 26 eP 17 33.00 0.3
 MBC 59.87 16 eP 17 47.00 -0.9
 S.D. = 0.8 on 16 of 16 obs.

* APR 09, 1993 10h 22m 58.98± 1.45s
 31.412 S ±10.5km 68.196 W ±11.4km
 DEPTH = 116.3 ± 17.2 km
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.20 191 iPd 23 15.00 -0.7
 S 23 25.30
 RTLL 0.25 289 iPd 23 15.50 -0.3
 (S) 23 41.00
 ZON 0.43 252 iPc 23 17.20 0.8
 eS 23 29.20
 RTCV 0.53 213 iPc 23 16.70 -0.3
 RTBS 1.10 257 iPc 23 22.80 0.8
 S 23 38.90
 MRA 2.34 116 iPd 23 37.80 0.7
 S 24 02.00
 TCA 3.08 98 iPd 23 47.40 0.3
 (S) 24 17.00
 RFA 3.36 184 ePd 23 50.00 -0.7
 S 24 19.30
 CYA 3.62 36 ePd 23 53.70 -0.5
 S 24 30.00
 S.D. = 0.8 on 9 of 9 obs.

APR 09, 1993 10h 35m 11.24± 0.54s
 29.431 N ± 9.6km 51.952 E ± 7.3km
 DEPTH = 33.0km (normol)
 4.5mb (8 obs.)

SOUTHERN IRAN (353)

TEH 6.31 356 eP 36 43.00 -1.5
 KER 6.41 321 e(P) 36 58.00 12.1X
 RYD 6.68 227 ePc 36 50.50 0.8
 eS 38 09.00
 QASM 8.17 248 eP 37 08.33 -2.1
 MAIO 9.33 41 eP 37 27.00 0.4
 e 39 15.00
 QUE 13.05 83 eP 38 23.00 5.9X
 AYN 13.95 272 eP 38 26.33 -2.5
 DHJN 14.04 215 eP 38 29.33 -1.0
 MASJ 14.17 283 P 38 44.60 12.8X
 SHWJ 14.30 278 P 38 40.70 7.1X
 DHLJ 14.39 280 P 38 40.00 5.5X
 EYL 20.97 308 eP 39 50.00 -4.0X

NDI 22.09 86 iP 40 05.00 -0.2
 KSH 22.14 57 P 40 06.20 0.5
 0.7s 30.00nm 4.8mb
 VRI 25.69 317 eP 40 41.00 1.1
 MLR 25.98 315 eP 40 46.50 3.8X
 e 02 53.00
 SKO 27.61 305 eP 40 58.50 1.0
 OHR 27.83 303 eP 40 59.00 -0.6
 GKN 28.65 85 P 41 00.00 -7.2X
 SGO 31.80 300 P 41 37.10 2.3
 WMO 31.81 53 P 41 34.60 -0.4
 SFI 34.90 306 P 42 03.70 2.0
 PGD 34.99 305 P 42 04.60 1.9
 CLL 36.25 318 e(P) 42 26.00 13.0X
 KAF 36.75 340 iP 42 16.40 -0.7
 0.3s 1.20nm 4.3mb
 BCAO 40.22 238 ePc 42 49.00 2.4
 0.8s 5.00nm 4.3mb
 GTA 40.31 63 P 42 48.00 0.7
 1.0s 23.00nm 4.9mb
 SLL 40.34 331 eP 42 43.30 -3.8X
 0.3s 1.40nm 4.1mb
 NB2 41.52 331 P 42 54.20 -2.5
 1.1s 2.80nm 3.9mb
 LZH 43.72 67 eP 43 15.00 -0.2
 1.2s 78.00nm 5.4mb
 XAN 48.15 69 P 43 49.00 -1.3
 TIY 50.31 64 eP 44 07.20 0.3
 LKO 57.16 262 P 44 56.92 -0.6
 KIC 58.00 258 (P) 45 04.00 0.6
 MBC 74.44 358 eP 46 47.00 -0.3
 FRB 76.06 337 eP 46 57.00 0.3
 YKA 87.76 354 eP 47 57.40 -0.4
 1.0s 2.30nm 4.4mb
 S.D. = 1.4 on 27 of 37 obs.

* APR 09, 1993 11h 16m 19.63s
 59.246 N 153.585 W
 DEPTH = 90.1km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUI 0.12 42 eP 16 31.80 0.8
 eS 16 41.21
 AUW 0.14 25 eP 16 32.06 1.0
 AUH 0.14 32 eP 16 32.09 0.9
 AUE 0.16 44 eP 16 31.81 0.7
 AUL 0.16 29 eP 16 32.11 1.0
 MCNL 0.39 261 iP 16 33.11 -0.7
 eS 16 43.48
 OPT 0.45 24 iP 16 33.52 -0.7
 eS 16 43.57
 PDB 0.63 331 iP 16 34.85 -0.8
 eS 16 46.87
 INW 0.86 15 eP 16 36.98 -1.2
 INE 0.86 18 eP 16 37.16 -1.1
 SYI 0.89 135 eP 16 36.81 -1.5
 CNPM 1.23 76 eP 16 41.34 -1.1
 RED 1.25 19 eP 16 41.55 -1.1
 RS1 1.29 19 eP 16 42.35 -1.0
 RSO 1.29 19 iP 16 42.31 -1.0
 eS 17 00.28
 RS2 1.29 19 iP 16 42.37 -1.0
 eS 17 01.39
 RDW 1.30 17 eP 16 42.43 -1.0
 NCT 1.36 14 eP 16 42.97 -1.1
 DFR 1.42 18 eP 16 43.87 -1.0
 BRLL 1.47 68 eP 16 45.07 -0.4
 KDC 1.61 159 P 16 45.50 -1.6
 NKA 1.91 37 eP 16 52.20 1.1
 CKL 2.05 17 eP 16 52.15 -1.1
 CKT 2.08 19 eP 16 52.43 -1.1
 SPU 2.09 21 eP 16 52.30 -1.3
 CKN 2.10 19 eP 16 52.76 -1.1
 BGL 2.11 16 eP 16 53.19 -0.8
 SLKM 2.12 52 eP 16 52.97 -1.0
 CP2 2.13 18 eP 16 53.04 -1.3
 CPAM 2.14 19 eP 16 53.29 -1.1
 SEW 2.27 66 eP 16 55.31 -0.6
 MPA 2.47 58 eP 16 57.23 -1.4
 SUA 2.64 31 eP 17 00.73 -0.4
 PTE 2.81 53 eP 17 01.32 -1.9
 PMS 2.84 43 P 17 02.90 -0.9
 SKT 2.92 19 eP 17 03.83 -1.1
 36 obs. associated

* APR 09, 1993 11h 17m 09.11± 0.94s

57.626 N ±10.8km 154.283 W ±10.0km
 DEPTH = 76.5 ± 16.8 km
 2.9mb (1 obs.)
 KODIAK ISLAND REGION (13)

KDC 0.97 82 eP 17 27.74 -0.1
 eS 17 41.19
 RSO 2.95 15 eP 17 56.35 1.5
 SVW 3.56 349 eP 18 02.51 -0.6
 SLKM 3.57 34 eP 18 03.98 0.7
 CRP 3.81 16 eP 18 05.60 -1.2
 SDN 4.14 239 (P) 18 11.22 0.1
 PMR 4.76 31 (P) 18 20.05 0.2
 BALM 7.00 56 eP 18 50.17 -0.9
 YKA 20.14 59 eP 21 39.30 0.3
 0.6s 0.40nm 2.9mb
 S.D. = 1.0 on 9 of 9 obs.

APR 09, 1993 11h 35m 38.16± 0.58s
 14.937 N ± 2.9km 120.510 E ± 3.9km
 DEPTH = 33.7 ± 5.3 km
 5.6mb (97 obs.) 5.6Msz (51 obs.)
 LUZON, PHILIPPINE ISLANDS (249)
 Mw 5.6 (HRV). Felt strongly in
 the Angeles-Olongapo area. Felt
 (III RF) at Tagaytay and (II RF)
 at Quezon City.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 30S, 64C
 Centroid Location:
 Origin Time 11:35:43.7 0.5
 Lat 15.59N 0.04 Lon 120.42E 0.05
 Dep 15.0 FLX Half-duration 1.6
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.60 0.07 Mtt=1.02 0.08
 Mff=-0.42 0.08 Mrt=-0.85 0.21
 Mrf=1.38 0.17 Mtf=-1.85 0.07
 Principal Axes:
 T Val= 2.92 Plg=23 Azm=218
 N -0.81 48 336
 P -2.11 33 112
 Best Double Couple: Mo=2.5*10**17
 NP1:Strike=258 Dip=49 Slip=-172
 NP2: 163 84 -42

QVP 0.57 123 iPc 35 51.00 1.3
 eS 36 00.00
 TGY 0.93 154 iPd 35 56.00 1.1
 BAG 1.47 3 iPc+ 35 59.00 -3.8X
 BCP 1.48 4 eP 36 00.00 -2.9X
 PGP 1.49 163 iP 36 04.00 1.0
 SZP 2.60 359 ePd 36 18.00 -0.7
 CVP 3.03 24 ePd 36 25.00 0.2
 eS 37 10.00
 PIP 3.37 2 iPc 36 30.00 0.2
 eS 37 21.00
 PPR 5.42 199 iPc 36 57.00 -1.7
 eS 38 00.00
 BBP 5.65 14 ePc 37 02.20 0.3
 PLP 5.75 130 ePd 37 08.20 4.8X
 CTB 8.50 154 eP 37 43.00 1.1
 DAV 9.25 147 eP+ 37 58.00 5.7X
 HKC 9.47 322 eP 37 51.40 -4.0X
 eS 39 35.00
 QZH 10.12 350 eP 38 02.50 -1.7
 1.5s 130.00nm 6.0mb
 Z 19s 22.10um 4.1Msz
 N 12s 10.90um
 S 39 50.00
 GZH 10.56 321 Pd 38 08.00 -2.3
 Z 19s 19.60um
 N 12s 7.76um
 E 11s 16.50um
 IS 40 04.00
 TSM 10.89 194 iP 38 15.00 0.2
 QIZ 10.98 293 P 38 12.00 -4.1X
 E 14s 25.30um
 S 40 10.00
 MNI 14.07 162 eP 39 00.50 3.1X
 SSE 16.10 2 Pc 39 24.00 0.4
 1.4s 270.00nm 5.2mb
 Z 18s 24.10um 4.4Msz
 N 15s 12.70um
 E 15s 4.50um
 sP 39 36.70
 S 42 20.00

WHN	16.53	341	eP	39	29.00	-0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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[illegible]

LTX 4.88 277 Lg 30 49.38
 WMOK 5.94 355 eP 30 31.87 -3.2X
 MEO 5.97 356 iPc 30 47.65 -2.2X
 FNO 6.46 5 iPd 30 48.10 -2.2X
 OCO 6.72 5 iPd 30 56.40 -0.9
 MIAR 6.91 33 eP 31 02.50 1.6
 TUL 6.91 33 eP 31 08.19 -3.3X
 RLO 7.35 15 P 31 07.25 -2.5X
 AGX 7.79 19 P 31 12.55 -3.3X
 ACO 7.87 210 (P) 32 14.50 57.5X
 PCO 7.91 354 iPd 31 16.50 -1.2
 OLY 7.92 7 iPc 31 35.70 18.0X
 ALQ 8.73 39 eP 31 29.38 0.3
 9.35 313 (P) 31 37.59 -0.3
 MRX 9.49 198 (P) 32 35.50 56.0X
 PPM 9.71 183 (P) 32 23.50 40.4X
 III 10.46 187 (P) 32 08.00 14.9X
 FVM 11.18 33 (P) 31 59.43 -3.2X
 ELC 11.27 39 eP 32 00.64 -3.3X
 GLD 12.38 334 (P) 32 19.32 0.1

GOL 12.40 333 (P) 32 19.95 0.5
 PV08 13.09 321 (P) 32 28.73 0.0
 PV10 13.17 319 (P) 32 28.89 -0.9
 PV09 13.31 319 eP 32 33.31 1.7X
 SRU 14.52 318 (P) 32 46.85 -0.7
 GLA 14.94 291 (P) 32 52.13 -0.7
 EMUT 15.16 320 (P) 32 56.65 0.8
 MSU 15.17 313 (P) 32 56.15 0.2
 ARUT 15.61 309 eP 33 02.65 1.0
 DAU 15.82 320 (P) 33 05.44 1.0

RSSD 15.99 344 eP 33 03.98 -2.7X
 0.7s 12.44nm 4.2mb
 (S) 36 20.35

BW06 16.72 330 (P) 33 15.80 -0.1
 1.5s 14.49nm 3.9mb
 HVU 17.59 321 (P) 33 27.19 0.5
 TNP 18.39 305 P 33 40.00 3.2X
 1.3s 13.27nm 3.9mb

BGMT 19.75 330 eP 33 59.50 6.5X
 MCMT 19.81 328 eP 33 57.50 3.8X
 LCCM 20.16 331 eP 33 59.70 2.4X
 HRY 20.84 333 eP 34 12.70 8.4X
 ARN 21.34 300 (P) 34 09.74 0.3
 e 34 23.39

ULM 21.48 4 eP 34 16.00 5.4X
 RSNY 24.47 44 (P) 34 40.87 0.8
 1.0s 12.09nm 4.5mb

JAO 29.86 27 eP 35 29.00 -0.5
 YKA 35.38 347 eP 36 16.40 -1.1
 0.9s 0.90nm 3.6mb

FBA 47.48 334 eP 37 56.28 -0.3
 1.1s 6.30nm 4.6mb
 e 38 08.22

MBC 48.60 353 eP 38 17.00 11.8X
 S.D. = 0.8 on 23 of 45 obs.

? APR 09, 1993 12h 56m 20.47±2.88s
 42.009 N ±27.5km 24.410 E ±9.8km
 DEPTH = 10.0km (geophysicist)

BULGARIA (359)
 ML 2.5 (THE).

SRS 1.08 215 ePb 56 40.54 -0.3
 eSb 57 00.78

SOH 1.43 214 iPb 56 46.62 0.1
 eSb 57 08.86

VAY 1.54 244 ePn 56 48.00 0.0
 ALN 1.66 132 ePn 56 49.58 -0.1
 OUR 1.70 191 ePn 56 50.58 0.2

S.D. = 0.3 on 5 of 5 obs.

? APR 09, 1993 13h 20m 12.83±11.39s
 18.738 N ±45.2km 65.406 W ±81.1km
 DEPTH = 28.2 ± 9.3 km

PUERTO RICO REGION (90)

LPR 0.61 226 P 20 25.00 0.0
 CPD 0.85 215 P 20 28.80 0.0
 SJG 0.94 229 iP 20 30.10 0.0

APR 1.29 257 P 20 35.00 0.0
 PORP 1.35 240 P 20 36.00 0.0
 LRS 1.43 252 P 20 37.00 -0.2
 MGP 1.76 246 P 20 42.00 0.2

S.D. = 0.2 on 7 of 7 obs.

? APR 09, 1993 13h 35m 17.87±9.28s
 44.347 N ±17.8km 8.157 E ±94.5km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.4 (LDG).

SBF 0.71 227 Pg 35 31.20 -0.7
 Sg 35 44.20

FRF 1.34 235 Pg 35 42.70 0.1
 Sg 36 01.60

LPG 1.52 320 Pg 35 45.30 -0.1
 LMR 1.56 230 Pg 35 45.70 0.0
 Sg 36 07.00

LRG 1.58 236 Pg 35 46.70 0.8
 Sg 36 10.60

S.D. = 0.8 on 5 of 5 obs.

* APR 09, 1993 13h 43m 23.01±1.24s
 14.877 N ±9.6km 121.294 E ±28.6km
 DEPTH = 33.0km (normal)

4.3mb (1 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

QVP 0.38 228 ePc 43 32.50 0.7
 TGY 0.85 204 ePd 43 38.00 -0.5
 eS 43 55.00

PGP 1.41 194 ePc 43 46.50 -0.1
 eS 44 02.00

CVP 2.86 10 eP 44 08.00 0.7
 PIP 3.49 349 eP 44 15.50 -0.8
 NB2 86.49 333 P 55 59.40 -4.2X

0.7s 1.50nm 4.3mb
 S.D. = 1.0 on 5 of 6 obs.

? APR 09, 1993 14h 26m 29.71±7.90s
 38.228 N ±66.2km 21.602 E ±8.9km
 DEPTH = 5.0km (geophysicist)

GREECE (364)
 ML 3.2 (THE).

AGG 0.98 35 ePb 26 48.56 -0.2
 eSb 27 11.24

IGT 1.64 323 iPn 26 59.00 -0.2
 eSn 27 29.44

LIT 1.99 20 ePn 27 06.20 1.8X
 SRN 2.07 323 ePn 27 12.30 6.8X

LSK 2.07 338 ePn 27 06.20 0.6
 KBN 2.47 345 ePn 27 11.50 0.1

SOH 2.92 27 ePn 27 17.76 0.0
 OHR 2.95 348 iPn 27 18.00 -0.1

VAY 3.18 13 ePn 27 21.60 0.3
 SRS 3.27 27 ePn 27 22.68 0.1

PHP 3.57 346 ePn 27 26.20 -0.6
 LACI 3.70 337 ePn 27 34.50 5.7X

SKO 3.74 358 ePn 27 31.50 2.1X
 S.D. = 0.4 on 9 of 13 obs.

APR 09, 1993 14h 37m 35.98±0.64s
 27.910 N ±10.1km 101.071 E ±7.0km
 DEPTH = 10.0km (geophysicist)

4.3mb (2 obs.)
 SICHUAN, CHINA (307)
 ML 4.2 (BJI).

KMI 3.15 151 Pnc 38 26.50 -0.3
 Pg 38 29.00

CD2 3.80 37 Pn 38 39.20 3.3X
 Pg 38 44.30

GYA 5.19 105 Pn 38 56.00 0.4
 Z 12s 1.01um

LZH 8.49 15 eP 39 58.40
 Z 12s 0.37um

E 10s 0.87um
 XAN 9.09 46 P 39 50.00 -0.3
 Z 15s 0.35um

N 11s 0.79um
 E 11s 0.37um

GUN 13.44 274 P 40 52.60 3.1X
 PKI 13.88 272 P 40 56.80 1.5

KKN 13.97 273 P 40 55.40 -1.1
 DMN 14.14 273 P 40 56.60 -2.2

GKN 14.53 274 P 41 05.60 1.9
 WRA 57.44 142 P 47 27.80 0.4

0.7s 1.10nm 4.0mb
 WB2 57.44 142 eP 47 27.20 -0.3
 0.5s 2.80nm 4.5mb
 S.D. = 1.3 on 10 of 12 obs.

% APR 09, 1993 15h 09m 57.09±0.76s
 44.393 N ±6.4km 8.321 E ±6.2km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.0 (GEN).

FIN 0.20 204 P 10 01.53 0.0
 S 10 05.12

PCP 0.22 47 P 10 01.80 -0.1
 S 10 05.74

ROB 0.34 253 P 10 03.72 -0.4
 S 10 08.99

IMI 0.57 213 P 10 08.90 0.1
 S 10 16.85

ENR 0.67 256 P 10 10.18 -0.3
 S 10 19.24

STV 0.73 259 P 10 12.14 0.6
 S 10 21.89

BHB 0.88 301 P 10 14.16 0.2
 S 10 26.23

PZZ 0.88 278 P 10 13.93 -0.2
 S 10 26.29

S.D. = 0.4 on 8 of 8 obs.

% APR 09, 1993 16h 04m 30.31±1.07s
 28.037 N ±17.2km 16.899 W ±6.9km
 DEPTH = 10.0km (geophysicist)

CANARY ISLANDS REGION (394)
 mbLg 3.1 (MDD). Felt (III) at
 Colloso Solvoje, Tenerife.

CTFE 0.71 52 eP 04 45.80 1.4
 iS 04 54.80

CHIE 0.99 252 eP 04 49.80 0.7
 eS 05 02.80

TBT 1.10 306 eP 04 50.10 -0.9
 eS 05 02.70

GGC 1.12 85 iP 04 50.90 -0.4
 iS 05 05.60

CFTV 2.51 81 eP 05 11.00 -0.9
 eS 05 39.30

S.D. = 1.5 on 5 of 5 obs.

% APR 09, 1993 16h 21m 54.11±1.56s
 34.282 S ±18.1km 70.657 W ±14.8km
 DEPTH = 90.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CACH 0.17 16 iP 22 07.34 -0.1
 iS 22 20.46

CHCH 0.35 1 iP 22 08.12 0.1
 iS 22 21.68

LNv 0.71 297 iP 22 10.92 0.1
 iS 22 25.62

FCH 1.00 18 iP 22 14.49 0.0
 iS 22 32.41

LCCH 1.11 316 iP 22 15.25 -0.1
 iS 22 33.55

PEL 1.14 359 iP 22 16.01 0.3
 iS 22 34.84

JACH 1.60 2 (P) 22 21.36 -0.3
 iS 22 43.89

S.D. = 0.2 on 7 of 7 obs.

APR 09, 1993 16h 24m 15.10±0.66s
 13.181 N ±9.4km 92.941 E ±5.8km
 DEPTH = 33.0km (normal)

4.5mb (15 obs.)
 ANDAMAN ISLANDS, INDIA (703)

KHT 5.71 73 eP 25 39.70 -0.2
 BDT 7.11 55 eP 25 55.00 -4.5X

NST 7.39 70 eP 26 04.00 0.5
 CHG 8.04 45 ePn 26 11.00 -1.6

eSg 27 40.50
 LOE 9.46 63 eP 26 33.00 0.8

HYB 14.50 289 eP 27 48.50 8.5X
 GBA 15.09 273 P 27 49.00 1.3

KOD 15.43 261 eP 27 51.00 -1.4
 PKI 15.95 335 P 27 57.60 -1.5

0.6s 21.00nm 4.5mb
 GUN 16.07 337 P 28 00.60 0.0

? APR 09, 1993 16h 29m 32.09± 0.87s
37.217 N ±15.8km 28.824 E ± 6.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.2 (ISK).

YER	0.44	259	iPg	29	41.00	-0.1
			eSg	29	50.00	
CIN	0.70	303	ePg	29	46.00	0.1
			iSg	30	02.00	
ELL	0.99	118	ePg	29	51.00	0.1
			eSg	30	05.50	
BCK	1.43	80	ePn	29	58.00	-0.1
	S.D. = 0.2	on	4 of	4 obs.		

APR 09, 1993 16h 52m 54.79± 0.38s
43.116 N ± 5.6km 18.084 E ± 4.5km
DEPTH = 12.6 ± 3.7 km
NORTHWESTERN BALKAN REGION (383)
ML 3.1 (TTG).

BRY	0.40	122	iPg _d	53	02.72	-0.4
			iSg	53	09.34	
HCY	0.73	155	iPg _c	53	08.61	-0.4
			iSg	53	20.54	
NKY	0.74	114	ePg	53	08.51	-0.6
			iSg	53	20.51	
PLE	0.98	77	ePg	53	12.89	-0.4
			iSg	53	27.41	
BDV	1.00	146	iPc	53	13.45	0.0
			iSg	53	29.04	
TTG	1.11	128	iPg _d	53	14.74	-0.5
			iSg	53	32.36	
HVAR	1.20	274	iPg _c	53	16.60	-0.3
			iSg	53	39.80	
IVA	1.35	100	iPg _d	53	19.72	0.3
			iSg	53	40.41	
ULC	1.44	143	iPg _d	53	21.41	0.8
			iSg	53	43.50	
PVY	1.48	110	iPg _c	53	22.10	0.8
			iSg	53	44.84	
BRT	2.33	197	P	53	35.90	2.4
			eSn	54	00.30	
SKO	2.73	114	ePn	53	40.00	0.8
OHR	2.84	134	ePn	53	42.20	1.4
VBY	3.13	321	iPn _d	53	46.00	1.2
			iSn	54	25.20	
PTJ	3.17	332	eP	53	46.60	1.2
SGO	3.29	220	P	53	48.00	1.0
RIY	3.47	311	e(Pn)	53	51.80	2.3
CEY	3.71	316	ePn	53	54.00	1.0
			e	54	04.90	

		eSn	54	40.00	
ARV	3.77	278 P	53	53.00	-0.9
LJU	3.87	320 e(Pn)	54	07.50	12.2X
		e(Sn)	54	57.00	
ASS	3.97	271 P	53	56.70	-0.1
		eSn	54	41.80	
TRI	4.04	311 e(Pn)	54	08.30	10.7X
		e	54	43.30	
		e(Sn)	55	05.30	
VOY	4.18	316 ePn	54	00.20	0.5
		eSn	54	49.80	
CRE	4.50	279 P	54	02.50	-1.8
RBL	4.62	318 P	54	05.80	-0.3
FVI	5.13	315 P	54	13.20	0.1
		(Sn)	55	12.40	
CTI	5.45	305 P	54	16.50	-1.3
S.D. = 1.1 on 25 of 27 obs.					

APR 09, 1993 16h 59m 44.96 \pm 0.48s
32.655 S \pm 6.9km 69.867 W \pm 7.4km
DEPTH = 115.3 \pm 7.4 km
MENDOZA PROVINCE, ARGENTINA (139)
MD 4.4 (SAN).

JACH	0.61	267	iP	00	02.74	-0.8
FCH	0.76	208	iP	00	05.39	0.4
PEL	0.84	235	iP	00	04.84	-0.6
MDZ	0.89	105	iP	00	09.80	4.0X
			iS	00	24.20	
SAN	1.04	220	iP	00	07.25	-0.1
			iS	00	23.55	
RTBS	1.05	20	iPd	00	08.50	1.1
RTCV	1.38	55	iPc	00	11.60	0.5
CHCH	1.43	207	iP	00	12.18	0.4
ZON	1.50	43	iPd	00	14.00	1.5
CACH	1.58	203	iP	00	14.64	1.0
			iS	00	37.31	
LCCH	1.65	240	iP	00	13.24	-1.0
CFA	1.73	53	iPd	00	16.20	0.9
			S	00	38.00	
RTLL	1.78	42	iPd	00	16.50	0.6
LNV	1.83	224	iP	00	15.24	-1.3
			iS	00	38.15	
RFA	2.41	151	iPc	00	25.00	0.9
			(S)	00	53.20	
MRA	3.52	87	iPc	00	38.70	-0.1
			S	01	10.50	
RTPR	3.70	52	e(P)	00	40.40	-0.9
			(S)	01	23.00	
TCA	4.67	75	iPc	00	53.60	-1.0
CYA	5.47	41	iPc	01	02.70	-2.8
			S	02	01.80	
FSA	7.36	28	eP	01	29.30	-1.9
CNCB	15.87	7	P	03	24.20	0.6
LPB	16.13	6	eP	03	28.00	1.3
ZOBO	16.39	6	P	03	31.20	1.1
SIV	18.41	28	P	04	06.00	12.0X
PPD	19.56	62	eP	04	05.30	-0.8
WRA	122.80	207	PKP	18	30.00	0.8
	0.6s					
		0.60nm				

S. D. = 1.2 on 24 of 26 obs.

% APR 09, 1993 18h 46m 41.79± 0.77s
26.428 S ± 6.1km 27.366 E ± 8.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

PRY	0.51	169	e(P)	46	51.50	-0.5
KSR	0.70	323	e(P)	46	55.60	-0.2
			S	47	05.00	
SLR	1.07	50	eP	47	02.70	0.1
			S	47	15.90	
SEK	1.90	173	eP	47	15.70	0.4
			S	47	38.50	
SWZ	1.97	247	iPd	47	16.60	0.3
			S	47	41.20	

S.D. = 0.5 on 5 of 5 obs.

APR 09, 1993 19h 11m 30.29± 0.26s
45.857 N ± 2.7km 11.973 E ± 2.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.5 (GRF), 3.2 (VIE).
CTI 0.29 310 P 11 35.20 -1.3
eSa 11 40.00

STATION	TIME	FREQ.	MODE	TX POWER (dBm)	TX FREQ (MHz)	RX FREQ (MHz)	SIGNAL TO NOISE RATIO (dB)
VVI	0.34	68	P	11	36.50	-0.8	
			eSg	11	41.50		
FVI	0.93	37	P	11	47.70	-0.2	
			eSg	12	02.80		
SAL	1.04	257	Pc	11	51.20	1.2	
			eSg	12	05.30		
SCE	1.20	351	iPg	11	52.30	-0.4	
OGA	1.21	327	iPg	11	52.90	0.0	
RBL	1.25	62	Pc	11	53.50	-0.2	
			eSg	12	11.20		
TRI	1.26	96	ePg	11	53.50	-0.2	
			eSg	12	10.70		
VOY	1.35	82	iPnd	11	55.00	-0.2	
			e	12	00.80		
			eSn	12	13.50		
WTTA	1.43	351	iPg	11	57.20	0.8	
			eSg	12	17.20		
SQTA	1.46	339	iPg	11	57.10	0.3	
			iSg	12	16.60		
WATA	1.50	350	iPg	11	58.10	0.7	
			iSg	12	19.00		
OSS	1.52	304	ePc	11	58.20	0.6	
KBA	1.55	37	iPg	11	59.20	1.1	
			iSg	12	20.80		
MDI	1.58	268	P	11	59.80	1.4	
			eSg	12	20.00		
MOTA	1.60	338	iPg	11	59.60	0.7	
			iSg	12	20.70		
CEY	1.72	93	ePn	12	00.60	0.1	
			eSg	12	22.50		
RIY	1.77	106	ePn	12	01.40	0.3	
			iSn	12	23.90		
LJU	1.80	83	e(Pn)	12	05.00	3.5X	
			eSg	12	24.50		
VDL	1.85	291	ePc	12	03.90	1.4	
SFI	1.94	183	P	12	03.50	-0.1	
BHG	1.97	18	eP	12	05.70	1.7	
PGD	1.99	185	Pc	12	03.50	-1.0	
BDI	2.04	209	P	12	05.00	-0.2	
BOB	2.09	239	P	12	05.70	-0.1	
CRE	2.23	180	P	12	08.30	0.4	
VAI	2.24	271	P	12	08.70	0.8	
VBY	2.33	98	ePn	12	15.60	6.4X	
			iSn	12	37.90		
ARV	2.46	163	P	12	12.00	0.9	
PTJ	2.78	88	iP	12	23.50	7.7X	
ASS	2.83	170	P	12	15.90	-0.5	
CKI	2.98	243	P	12	18.20	-0.3	
SLE	3.06	310	eP	12	19.10	-0.5	
GEC2	3.21	21	Pn	12	20.80	-1.0	
			Pg	12	28.40		
			Sn	12	59.70		
			Sg	13	11.70		
WET	3.35	10	iPnc	12	36.20	12.5X	
KHC	3.45	18	ePn	12	24.50	-0.7	
			ePg	12	37.00		
			eSn	13	06.00		
			eSg	13	21.50		
			e	13	29.50		
LPG	3.68	266	Pn	12	28.80	0.1	
LPL	3.69	267	Pn	12	28.70	-0.1	
GRF	3.87	353	ePg	12	42.90	11.8X	
			eSg	13	32.40		
BSF	4.07	301	Pn	12	33.70	-0.3	
			Pg	12	47.50		
			Sn	13	20.30		
			Sg	13	41.70		
CDF	4.10	310	Pn	12	33.50	-0.9	
			Pg	12	46.90		

* APR 09, 1993 20h 19m 13.76 ± 0.65s
29.229 N ± 7.4km 142.296 E ± 12.9km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)

SOUTH OF HONSHU, JAPAN (211)

IIDJ 7.25 330 P 21 03.60 3.4X
CHJJ 7.35 339 P 21 00.70 -0.8
eS 22 21.00

MAT 8.06 336 eP 21 11.00 -0.5
0.7s 10.27nm 5.0mb X
eS 22 38.00

MDJ 18.38 330 eP 23 27.50 0.0

NJ2 20.36 284 P 23 50.00 -0.1

CHG 40.73 265 eP 26 53.40 0.1

WMQ 45.44 304 P 27 32.80 1.4

WB2 49.48 190 iPd 28 02.80 -0.2

0.7s 4.20nm 4.6mb

WRA 49.48 190 P 28 02.50 -0.6

0.7s 4.40nm 4.6mb

MBC 63.81 15 eP 29 45.00 0.5

YKA 70.23 29 eP 30 25.20 0.1

0.5s 0.40nm 3.7mb

NB2 81.67 338 P 31 30.00 0.2

0.7s 1.30nm 4.1mb

ZOBO 149.23 72 ePKP 39 05.00 7.6X

CNCB 149.61 73 PKP 39 08.00 10.0X

S.D. = 0.7 on 11 of 14 obs.

? APR 09, 1993 21h 21m 10.84 ± 5.94s
4.326 S ± 62.9km 130.237 E ± 74.6km
DEPTH = 121.2 ± 26.3 km

BANDA SEA (280)

AA1 2.13 287 iPc 21 46.50 0.0

eS 22 12.00

MTN 8.51 174 eP 23 13.00 0.3

eS 24 41.00

WB2 16.03 166 eP 24 50.20 -0.6

i 24 53.70

iS 27 39.80

ASPA 19.55 170 iPc 25 32.10 0.5

0.6s 52.90nm 5.1mb

eS 29 00.70

WARB 22.00 189 eP 25 56.00 -0.2

S.D. = 0.8 on 5 of 5 obs.

% APR 09, 1993 21h 40m 39.92 ± 0.51s
40.380 N ± 5.0km 29.449 E ± 3.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

YLV 0.20 343 iPg 40 44.80 0.5

eSg 40 48.00

HRT 0.47 21 iPg 40 49.30 -0.2

EYL 0.57 71 iPg 40 50.80 -0.8

eSg 40 59.00

GPA 0.66 98 ePg 40 53.50 0.3

ISK 0.75 337 iPg 40 54.80 0.3

KCT 0.85 261 iPn 40 56.00 -0.3

CTT 1.09 315 iPn 41 00.50 0.1

BNT 1.17 269 iPn 41 01.30 -0.5

EDC 1.21 269 iPn 41 02.50 0.0

ALT 1.42 159 ePn 41 06.30 0.5

S.D. = 0.5 on 10 of 10 obs.

& APR 09, 1993 21h 51m 54.81s
37.370 N 119.052 W

DEPTH = 6.2km

CENTRAL CALIFORNIA (39)

<GM-P>. MD 3.0 (GM). ML 3.1

(BRK).

MMPM 0.24 5 ePc 51 59.86 0.0

MEMM 0.31 17 ePc 52 01.25 0.2

MTUM 0.39 92 iPc 52 02.38 -0.3

MRCM 0.53 55 ePc 52 05.12 -0.3

S 52 12.02

BONR 0.83 45 eP 52 10.67 -0.8

CMB 1.25 303 iPc 52 17.60 -0.8

iS 52 33.84

TNP 1.62 63 eP 52 24.42 0.3

LLA 1.69 244 eP 52 25.93 0.9

eS 52 48.03

ISA 1.77 165 ePc 52 26.91 0.8

S 52 49.43

PRI 1.78 227 iPc 52 27.64 1.2

eS 52 52.43

KVN 1.84 24 (P) 52 28.17 0.9

PHAM 1.88 216 (P) 52 28.88 1.2

ARN 1.98 270 eP 52 30.47 1.3

SAD 2.01 253 eP 52 30.71 1.1

MHC 2.06 270 ePc 52 31.93 1.4

eS 52 58.72

COE 2.09 268 (P) 52 33.00 2.2

PRS 2.13 242 eP 52 32.16 0.8

BCH 2.33 201 eP 52 33.81 -0.6

ORV 2.91 319 (P) 52 42.53 0.1

19 obs. associated

APR 09, 1993 21h 54m 35.87 ± 0.51s

49.887 N ± 5.4km 18.454 E ± 4.1km

DEPTH = 15.3 ± 5.5 km

CZECH AND SLOVAK REPUBLICS (547)

ML 3.7 (GRF).

RAC 0.26 320 iPd 54 42.40 0.7

i 54 43.50

iS 54 45.40

i 54 47.80

OJC 0.93 68 iPg 54 52.80 -0.3

iSg 55 05.60

VRAC 1.34 245 iPnc 55 08.50 0.6

0.3s 207.80nm

i 55 00.90

SPC 1.36 120 iPnd 55 00.50 0.1

iSn 55 20.20

Lg 55 23.00

KSP 1.68 306 iPd 55 05.50 0.7

0.9s 96.00nm

iSn 55 28.70

iSg 55 30.40

ZST 1.91 208 iPn 55 08.20 0.1

e(Sn) 55 32.70

SRO 2.08 183 eP 55 12.00 1.5

VKA 2.15 222 iP 55 11.30 -0.2

i 55 17.00

PSZ 2.19 154 ePn 55 11.50 -0.7

PRU 2.53 274 ePn 55 17.00 0.0

1.0s 39.60nm

Pg 55 23.20

Sg 55 56.40

BRG 3.05 291 iPg 55 31.00 6.7X

iSg 56 14.00

KHC 3.27 258 Pn 55 27.50 0.0

e 55 34.60

e 55 41.50

e 56 07.30

e 56 17.50

eSg 56 22.30

e 56 46.00

GEC2 3.28 253 Pn 55 27.10 -0.6

Pg 55 34.10

Sg 56 19.40

WET 3.71 261 ePn 55 33.20 -0.6

CLL 3.75 294 ePg 55 47.00 12.6X

eSg 56 35.00

HOF 4.26 278 ePn 55 54.10 12.6X

KBA 4.41 232 iPnc 55 43.80 0.0

i 56 56.60

i 56 59.10

MOX 4.45 282 ePn 55 44.00 -0.3

iPg 55 59.90

iSg 56 58.90

GRF 4.69 270 ePn 55 47.10 -0.6

ePg 56 02.70

e(Sn) 56 48.20

e(Sg) 57 04.20

S.D. = 0.7 on 16 of 19 obs.

APR 09, 1993 22h 08m 16.36 ± 0.61s

32.484 N ± 0.6km 89.488 E ± 0.1km

DEPTH = 10.0km (geophysicist)

4.7mb (9 obs.)

XIZANG (306)

LSA 3.12 152 Pn 09 05.00 -1.9

Sn 10 35.00

GUN 5.53 215 P 09 41.00 0.0

KKN 5.93 219 P 09 46.60 0.1

0.6s 23.00nm 5.1mb

PKI 6.04 217 P 09 48.40 0.2

0.5s 18.00nm 5.1mb

GKN 6.13 224 P 09 49.60 0.3

0.6s 33.00nm 5.3mb

DMN 6.17 219 P 09 50.00 0.1

0.5s 33.00nm 5.4mb

GTA 10.85 48 eP 10 53.50 -1.3

1.2s 10.00nm 5.1mb

Z 12s 0.36um 6.3Msz

E 12s 0.26um

WMO 11.41 353 eP 10 03.20 -59.2X

GYA 16.11 107 P 12 06.00 1.4

1.0s 15.00nm 4.1mb

XAN 16.33 79 P 12 09.00 1.7

1.0s 3.60nm 3.5mb X

MAIO 24.99 287 eP 13 46.00 4.3X

NB2 56.60 325 P 18 01.20 -0.2

0.8s 2.60nm 4.3mb

GEC2 57.43 311 ePc 18 08.40 0.9

0.7s 1.05nm 4.0mb

e 18 14.10

e 18 17.10

e 18 24.80

WRA 67.52 134 P 19 19.20 4.2X

0.8s 0.90nm 4.0mb

YKA 83.39 11 eP 20 43.50 -1.2

0.4s 0.10nm 3.4mb X

S.D. = 1.2 on 12 of 15 obs.

? APR 09, 1993 22h 16m 48.97 ± 1.86s

9.819 S ± 21.5km 122.800 E ± 12.4km

DEPTH = 33.0km (normal)

4.6mb (5 obs.) 4.9Msz (1 obs.)

SAVU SEA (288)

KNA 8.28 136 iPc 18 49.20 -0.6

0.2s 53.00nm 6.3mb X

eS 20 18.00

MTN 8.70 111 eP 18 54.50 -1.1

0.3s 232.00nm 6.8mb X

eS 20 29.00

NANU 14.46 208 eP 20 12.00 -1.3

0.4s 11.00nm 4.7mb

eS 22 42.00

WB2 15.02 133 iPd 20 17.10 -3.6X

eS 22 54.90

WARB 16.68 168 eP 20 43.00 1.1

0.4s 5.00nm 4.0mb

ASPA 17.38 144 iPc 20 50.70 0.0

0.4s 40.10nm 4.9mb

eS 23 56.00

MRWA 20.33 197 eP 21 25.00 -0.1

eS 25 02.00

STK 28.02 144 iPd 22 39.40 0.3

0.6s 3.10nm 4.2mb

eS 28 08.30

TOO 34.38 147 iPd 23 36.80 1.6

0.4s 5.00nm 4.8mb

CNCB 151.47 158 PKP 36 40.30 3.9X

LPB 151.68 158 PKP 36 39.00 2.5X

ZOBO 151.92 157 PKP 36 37.20 0.1

Z 18s 0.17um 4.9Msz

LR 38 16.00

S.D. = 1.1 on 9 of 12 obs.

* APR 09, 1993 22h 22m 04.54 ± 3.68s

45.593 N ± 21.8km 26.722 E ± 11.1km

DEPTH = 155.3 ± 35.2 km

ROMANIA (358)

VRI 0.28 0 iPc 22 25.00 -0.2

CVO 0.45 301 iPc 22 25.30 -0.6

ISR 0.47

09d 23h

NEAR N COAST OF NEW GUINEA, PNG. (200)

MDG 1.70 186 eP 01 49.50 -0.4
LAT 3.27 161 eP 02 12.20 -0.1
CTA 16.44 179 iPc 05 16.00 3.9X
1.0s 25.00nm 4.3mb

id 05 21.50

MTN 17.32 237 eP 05 23.00 -0.1

AAI 17.72 269 ePd 05 32.00 4.0X

WB2 19.84 214 iPc 05 53.10 -0.1

0.6s 53.60nm 5.0mb

KNA 20.80 233 eP 06 02.00 -1.3

e 06 07.00

QLP 22.97 184 iPd 06 25.80 1.0

RMQ 22.97 174 iPd 06 25.80 0.9

0.5s 22.00nm 4.9mb

ASPA 23.14 209 iPc 06 27.50 0.9

0.9s 17.10nm 4.6mb

is 10 43.60

BRS 24.59 165 iPc 06 40.80 0.2

0.5s 7.00nm 4.5mb

eS 11 15.00

DZM 27.10 135 iPc 07 03.90 -0.3

ARMA 27.26 169 iPd 07 05.00 -0.5

0.9s 23.00nm 4.8mb

STK 28.48 188 eP 07 19.80 3.4X

0.5s 2.50nm 4.2mb

XAN 51.14 320 eP 10 25.50 1.4

BJI 51.26 331 eP 10 29.00 4.1X

Z 20s 0.36um 4.4msz

CD2 52.83 314 eP 10 39.20 2.3

HHC 54.21 328 Pd 10 44.80 -2.2

1.2s 12.00nm 4.8mb

BTO 54.86 327 eP 10 53.00 1.2

LZH 55.68 319 eP 10 59.80 1.9

2.0s 27.00nm 4.9mb

Z 25s 0.30um 4.3mszX

GTA 60.20 320 eP 11 29.00 -0.5

GUN 65.66 303 P 12 05.60 -0.6

PKI 65.95 302 P 12 07.20 -0.8

KKN 66.13 302 P 12 08.20 -0.8

DMN 66.22 302 P 12 09.00 -0.6

GKN 66.73 302 P 12 12.20 -0.6

YKA 97.50 28 eP 14 52.70 -1.0

0.9s 0.50nm 4.0mb

SIV 146.97 127 PKP 21 14.60 12.7X

KIC 150.67 277 (PKP) 21 19.30 11.6X

LKO 151.11 283 PKP 21 19.28 10.9X

S.D. = 1.1 on 23 of 30 obs.

& APR 10, 1993 00h 16m 02.10s

38.820 N 122.798 W

DEPTH = 3.9km

NORTHERN CALIFORNIA (36)

<GM-P>. MD 3.0 (GM). ML 3.0

(BRK).

NTYM 0.44 166 eP 16 11.03 0.1

ZSP 0.97 154 iPd 16 19.98 -1.1

HMR 1.03 130 eP 16 22.28 0.2

BKS 1.04 155 ePc 16 21.92 -0.4

eS 16 37.10

ORV 1.25 54 eP 16 21.41 -4.4

JEGM 1.33 168 (P) 16 26.52 -0.7

PCC 1.36 166 iPc 16 26.17 -1.6

ARN 1.78 145 eP 16 31.05 -2.8

COE 1.80 150 eP 16 32.29 -1.8

KMPM 1.89 328 (P) 16 35.79 0.2

GCC 1.90 160 iPd 16 34.81 -0.7

CMB 2.05 112 ePc 16 36.52 -1.3

eS 17 01.92

LGPM 2.09 359 (P) 16 41.63 3.2

SAO 2.31 152 eP 16 39.50 -2.1

LBFM 2.62 15 eP 16 46.81 0.7

MMPM 3.21 111 eP 16 54.86 0.3

MEMM 3.25 110 eP 16 54.96 0.1

KVN 3.67 85 (Pn) 17 00.62 -0.5

ePc 17 08.59

TNP 4.44 98 ePg 17 22.62 10.6

19 obs. associated

? APR 10, 1993 00h 40m 58.97±2.35s

6.803 S ±35.1km 125.502 E ±19.2km

DEPTH = 497.4 ±26.4 km

4.6mb (2 obs.)

BANDA SEA (280)

MTN 8.17 138 iPc 42 58.80 0.5

0.3s 398.00nm 6.1mb X

KNA 9.45 160 iPc 43 11.20 -0.6

WB2 15.64 148 iPc 44 15.60 -0.5

0.2s 14.40nm 5.3mb

i 44 41.00

i 47 04.50

LEM 17.76 269 ePc 44 37.00 -0.1

NANU 18.38 211 eP 44 43.30 0.3

ASPA 18.61 155 iPc 44 45.70 0.5

eS 47 47.70

WARB 19.30 177 eP 45 02.00 10.0X

0.4s 13.00nm

STK 29.12 151 eP 46 20.20 -0.1

0.8s 2.90nm 3.9mb

S.D. = 0.6 on 7 of 8 obs.

? APR 10, 1993 00h 51m 04.05±1.05s

23.052 S ±10.8km 179.381 W ±15.0km

DEPTH = 540.0km (geophysicist)

4.4mb (8 obs.)

SOUTH OF FIJI ISLANDS (171)

WLZ 15.39 195 eP 54 21.80 4.7X

URZ 15.45 190 eP 54 19.50 1.7

NOZ 15.67 188 eP 54 23.60 3.7X

MRW 18.80 194 eP 54 51.10 0.9

ORZ 18.99 199 eP 54 54.00 2.0

0.3s 36.00nm 5.5mb X

THZ 19.75 197 eP 55 00.40 1.2

DSZ 20.05 200 eP 55 03.40 1.4

KHZ 20.19 195 eP 55 03.40 0.2

LTZ 20.87 197 eP 55 08.80 -0.7

0.5s 43.00nm 5.3mb

WVZ 21.59 200 eP 55 16.20 0.2

BWZ 23.17 200 eP 55 28.80 -1.5

LRCZ 23.81 200 eP 55 34.80 -1.6

MSCZ 23.82 200 eP 55 35.90 -0.4

MHZ 23.83 200 P 55 35.20 -1.3

LSCZ 23.85 200 P 55 34.90 -1.7

CMCZ 23.91 200 eP 55 36.30 -0.9

TLC 24.01 200 eP 55 37.40 -0.7

ARMA 26.86 248 iPd 56 04.00 0.6

RMQ 29.09 257 iPd 56 23.30 0.5

CNB 29.77 239 iPc 56 29.00 0.4

0.5s 10.00nm 4.7mb

CMS 31.94 247 eP 56 47.00 0.1

0.8s 9.00nm 4.4mb

QLP 33.14 256 eP 56 56.70 -0.3

TOO 33.39 236 iPc 56 59.20 0.1

0.3s 17.00nm 5.1mb

BFD 35.57 238 eP 57 17.20 0.0

0.9s 5.00nm 4.1mb

STK 35.57 247 iPc 57 17.40 0.1

0.5s 3.60nm 4.2mb

ASPA 42.74 260 iPc 58 15.00 -0.4

1.1s 4.50nm 3.9mb

WB2 43.03 265 iPd 58 17.00 -0.7

0.5s 5.10nm 4.3mb

WRA 43.04 265 P 58 18.10 0.4

0.9s 1.00nm 3.3mb X

NB2 141.33 352 PKP 09 34.60 0.3

0.8s 1.50nm

HFS 141.82 349 ePKP 09 35.10 0.0

0.3s 2.60nm

GEC2 152.25 341 ePKP 10 08.50 16.3X

S.D. = 1.0 on 28 of 31 obs.

* APR 10, 1993 01h 02m 43.32±0.51s

27.596 S ±10.7km 66.233 E ±7.5km

DEPTH = 10.0km (geophysicist)

4.9mb (6 obs.)

SOUTH INDIAN OCEAN (425)

ABM 18.94 290 eP 07 13.20 6.1X

AVY 19.05 293 eP 07 09.40 1.0

VTY 19.13 292 eP 07 08.30 -1.0

OPO 19.81 293 eP 07 13.20 -3.9X

LSZ 37.33 281 iPc 09 57.90 0.0

i 10 05.00

GBA 42.37 16 P 10 40.00 0.5

HYB 46.31 16 eP 11 11.80 0.6

BCAO 55.93 297 iPd 12 23.00 -1.2

1.0s 10.00nm 4.8mb

id 12 31.00

QUE 57.46 1 eP 12 36.00 1.0

DMN 57.80 20 P 12 37.00 -0.5

PKI 57.86 20 P 12 37.20 -0.8

KKN 58.03 20 P 12 37.40 -1.6

GKN 58.03 19 P 12 38.20 -0.8

GUN 58.32 20 P 12 40.60 -0.7

ASPA 60.45 103 iPc 12 55.90 0.1

0.8s 9.40nm 5.0mb

WRA 62.12 99 P 13 07.80 0.6

0.9s 3.40nm 4.5mb

SPA 62.56 180 iPd 13 09.50 -0.1

1.0s 16.00nm 5.2mb

KMI 63.12 37 P 13 14.00 0.2

1.5s 1440.00nm 6.9mb X

MAIO 63.87 354 eP 13 18.00 -0.4

LKO 78.63 287 P 14 46.54 -0.9

VR1 81.44 333 eP 15 03.50 1.7

MLR 81.45 333 eP 15 03.50 1.5

OBN 86.20 343 ePc 15 26.50 0.8

1.2s 22.00nm 5.2mb

GEC2 89.38 328 eP 15 41.10 -0.2

1.2s 1.57nm 4.2mb

e 15 49.30

e 15 54.10

KHC 89.64 329 eP 15 42.50 0.1

FUR 90.06 327 eP 15 45.00 0.6

e 15 53.60

YKA 145.10 1 ePKP 22 21.20 -0.7

1.2s 16.10nm

S.D. = 0.9 on 25 of 27 obs.

? APR 10, 1993 01h 10m 50.73±2.27s

5.604 N ±25.9km 82.907 W ±15.6km

DEPTH = 10.0km (geophysicist)

4.4mb (1 obs.)

SOUTH OF PANAMA (83)

MD 4.2 (UPA).

DVD 2.85 9 iP 11 37.29 0.2

UPA 4.74 45 eP 12 04.39 0.4

eS 12 51.78

ECO 4.91 40 iP 12 05.56 -0.8

eS 12 56.58

SDV 12.60 74 eP 13 53.40 0.2

YKA 61.37 344 eP 21 10.50 1.5

0.8s 2.20nm 4.4mb

INK 71.04 342 eP 22 09.00 -1.6

MBC 73.39 351 eP 22 28.00 3.6X

S.D. = 1.4 on 6 of 7 obs.

* APR 10, 1993 01h 12m 44.78±0.74s

33.675 S ±10.1km 70.700 W ±14.1km

DEPTH = 80.0km (geophysicist)

RMO 20.71 181 ipP 34 00.20 81kmX
0.6s 7.00nm 4.2mb
QLP 21.31 192 iPc 33 56.40 0.2
ASPA 23.11 218 iPd 34 15.00 0.9
0.5s 5.30nm 4.3mb
eS 38 17.00
S.D. = 0.9 on 5 of 5 obs.

% APR 10, 1993 01h 45m 38.55±1.18s
38.294 S ± 6.0km 175.914 E ± 6.4km
DEPTH = 206.4 ± 12.3 km
NORTH ISLAND, NEW ZEALAND (159)

WLZ 0.49 329 P 46 06.40 0.0
eS 46 24.50
WHH 0.74 143 P 46 07.00 -0.8
NGZ 0.92 195 P 46 08.90 0.0
URZ 0.94 88 P 46 07.60 -1.2
S 46 26.20
CNZ 0.95 197 eP 46 09.00 0.0
PAHZ 1.06 123 P 46 09.60 -0.1
MOH 1.28 131 P 46 11.80 0.6
TTH 1.43 151 eP 46 13.00 0.5
WAHZ 1.44 166 Pc 46 13.00 0.3
KUZ 1.55 354 P 46 13.90 0.4
BSZ 1.69 207 P 46 15.50 0.7
NOZ 1.70 102 eP 46 15.30 0.4
TEHZ 1.83 158 P 46 16.60 0.4
PUZ 1.86 84 P 46 16.20 -0.3
S 46 40.90
HBZ 2.01 71 P 46 18.20 0.3
PGZ 2.34 173 P 46 21.50 0.1
MNG 2.35 188 P 46 21.70 0.2
eS 46 49.40
KIW 2.68 196 P 46 25.20 0.0
MTW 2.88 186 P 46 27.20 -0.3
CAW 2.89 193 P 46 27.60 0.0
DIW 2.94 211 eP 46 28.20 -0.1
MRW 3.08 197 P 46 29.60 -0.2
S 47 05.30
BLW 3.09 186 P 46 29.70 -0.3
MOW 3.17 189 P 46 30.60 -0.3
KHZ 4.50 203 P 46 47.20 -0.1
S.D. = 0.5 on 25 of 25 obs.

APR 10, 1993 02h 07m 09.73±0.44s
43.284 N ± 4.1km 0.666 W ± 3.9km
DEPTH = 9.2 ± 4.1 km
PYRENEES (378)
MD 3.2 (BTH). mbLg 3.0 (MDD).
ML 2.8 (LDG).

MADF 0.18 219 Pg 07 14.43 0.7
Sg 07 17.12
OGE 0.18 129 Pg 07 14.65 0.9
Sg 07 17.93
ATE 0.20 187 Pg 07 13.47 -0.6
Sg 07 15.30
ESCF 0.22 162 Pg 07 13.69 -0.7
Sg 07 15.79
ELYF 0.26 245 Pg 07 16.03 0.8
ISSF 0.27 200 Pg 07 14.82 -0.7
Sg 07 17.74
BOH 0.31 234 Pg 07 16.36 0.2
Sg 07 20.78
JAU 0.33 138 Pg 07 15.84 -0.7
Sg 07 19.43
BTH 0.37 115 iPgc 07 17.30 -0.1
ISg 07 22.30
ELIZ 0.64 260 iPgd 07 22.50 -0.1
eSg 07 31.00
EPF 0.78 109 Pg 07 24.50 -0.5
Sg 07 35.60
ENSF 0.88 123 Pg 07 25.55 -1.2
EGRA 1.12 167 iPnc 07 33.20 2.5X
eSn 07 49.90
SALF 1.46 110 Pg 07 37.00 0.7
ECRI 1.51 244 iPnc 07 39.10 2.1X
eSn 07 58.50
GRBF 1.67 105 Pg 07 41.19 1.8
LPD 1.94 43 Pn 07 43.80 0.7
Pg 07 49.00
Sg 08 16.00
LFF 1.94 31 Pn 07 44.60 1.5
Pg 07 49.40
Sg 08 15.70

TRGS 2.09 111 Pg 07 48.76 3.3X
RJF 2.56 37 Pn 07 52.90 0.9
Pg 08 00.40
Sn 08 22.50
Sg 08 34.80
CAF 2.56 49 Pn 07 51.80 -0.3
Sn 08 21.00
EROQ 2.59 162 ePn 07 53.80 1.4
eSn 08 24.40
ETOR 2.67 203 ePn 07 52.70 -1.1
eSn 08 22.50
ETER 2.77 110 ePn 08 00.70 5.6X
eSn 08 32.80
MFF 3.34 6 Pn 08 02.30 -0.8
Pg 08 15.40
Sg 08 59.20
MAF 3.73 37 Pn 08 07.50 -1.2
Sg 09 13.40
BGF 4.12 36 Pn 08 12.30 -1.8
Pg 08 29.70
Sg 09 23.80
S.D. = 1.1 on 23 of 27 obs.

APR 10, 1993 02h 07m 48.15±0.93s
24.309 S ± 4.8km 69.829 W ± 11.2km
DEPTH = 82.7 ± 13.2 km
4.3mb (1 obs.)
NORTHERN CHILE (123)

FSA 3.88 118 eP 08 48.30 1.6
SLA 3.97 97 ePd 08 49.10 1.0
e 09 20.80
YJA 4.51 63 ePc 08 56.70 0.7
CYA 5.48 140 ePc 09 10.30 1.3
RTPR 6.66 154 e(P) 09 25.30 0.1
ZON 7.28 172 eP 09 38.10 4.2X
RTBS 7.33 177 e(P)d 09 35.50 1.0
CFA 7.40 169 ePc 09 35.90 0.3
RTCV 7.61 172 ePc 09 38.40 0.0
CNCB 7.66 13 P 09 39.80 0.2
CCH 7.71 27 eP 09 40.00 0.0
i 09 44.00
LPB 7.91 12 P 09 42.90 0.0
1.0s 120.00nm 5.5mb X
ARE 7.96 348 eP 09 42.00 -1.5
ZOBO 8.16 12 P 09 46.00 -0.5
Z 24s 0.18um
LR 12 56.00
TCA 8.40 148 eP 09 48.50 -0.8
MDZ 8.59 174 e(P) 09 57.80 6.0X
PEL 8.83 185 eP 10 00.20 5.0X
MRA 8.85 157 ePd 09 54.00 -1.3
RFA 10.49 174 ePd 10 15.80 -1.9
SIV 11.66 46 P 10 40.40 7.0X
PPD 17.18 86 eP 11 41.60 -2.7
VAO 20.98 91 eP 12 40.80 14.1X
LTX 62.47 327 iPd 18 06.18 1.0
FVM 64.91 342 iPc 18 21.71 0.9
KIC 70.31 73 (P) 18 54.50 -0.6
YKA 93.55 341 eP 20 56.60 1.2
0.9s 1.30nm 4.3mb
WRA 130.11 210 PKP 26 54.50 3.8X
0.9s 0.80nm
S.D. = 1.2 on 21 of 27 obs.

% APR 10, 1993 02h 09m 31.39±0.71s
39.149 N ± 6.1km 28.021 E ± 7.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM 0.96 219 iPg 09 49.90 -0.2
ISg 10 03.40
KCT 1.13 13 iPn 09 52.60 -0.4
EDC 1.20 354 ePn 09 54.50 0.2
BNT 1.21 356 iPn 09 54.10 -0.3
EZN 1.48 298 ePn 09 58.90 0.3
ALT 1.63 93 ePn 10 01.00 0.1
YLV 1.76 36 ePn 10 03.00 0.2
S.D. = 0.3 on 7 of 7 obs.

APR 10, 1993 02h 18m 21.53±0.41s
44.462 N ± 4.1km 9.844 E ± 3.5km
DEPTH = 16.2 ± 4.0 km
NORTHERN ITALY (545)
ML 2.6 (GEN). 2.4 (LDG).

BORS 0.22 184 P 18 27.03 0.3
BOB 0.42 317 Pc 18 29.10 -1.0
eSg 18 36.10
BDI 0.67 126 P 18 34.70 0.2
eSg 18 44.40
PCP 0.93 275 P 18 39.24 0.3
S 18 51.49
CKI 1.12 269 Pc 18 42.20 0.1
eSg 18 58.20
FIN 1.20 258 P 18 43.49 0.0
S 18 58.04
MDI 1.32 356 P 18 46.00 0.8
eSg 19 05.50
ROB 1.43 264 P 18 46.47 -0.3
S 19 04.34
IMI 1.51 249 P 18 47.55 -0.4
S 19 04.95
SAOF 1.71 255 Pg 18 51.30 0.4
Sg 19 13.16
CRE 1.73 118 P 18 51.20 -0.1
ENR 1.76 263 P 18 51.64 0.1
S 19 12.59
AUTN 1.80 256 Pg 18 52.51 0.2
STV 1.82 264 P 18 52.60 0.1
S 19 13.93
SBF 1.83 252 Pn 18 52.50 -0.2
BHB 1.88 283 P 18 53.61 0.3
AURF 1.90 253 Pg 18 53.70 0.0
Sg 19 19.03
TOUF 1.92 257 Pg 18 54.57 0.5
REVF 1.92 249 Pg 18 52.02 -2.0
PZZ 1.96 272 P 18 54.43 -0.2
S 19 16.47
CTI 2.03 38 P 18 55.50 -0.1
LPG 2.43 296 Pn 19 03.50 2.1
LPL 2.45 297 Pn 19 02.80 1.2
FRF 2.48 250 Pn 19 02.00 0.2
Sn 19 31.00
LMR 2.66 246 Pn 19 03.90 -0.6
Sn 19 34.70
LRG 2.71 249 Pn 19 05.10 -0.1
Sn 19 37.90
BSF 3.98 329 Pn 19 23.10 -0.2
Sn 20 09.80
HAU 4.29 327 Pn 19 26.70 -1.0
Sn 20 16.30
CDF 4.33 337 Pn 19 27.30 -0.9
S.D. = 0.8 on 29 of 29 obs.

APR 10, 1993 03h 03m 13.94±0.96s
50.329 N ± 12.5km 18.868 E ± 5.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.6 (WAR).

RAC 0.50 241 iPd 03 24.30 0.3
IS 03 32.50
OJC 0.61 100 iPgd 03 25.80 -0.4
ISg 03 34.10
SPC 1.45 141 ePn 03 41.20 0.8
i(Sn) 03 58.80
Lg 04 03.00
KSP 1.72 288 ePn 03 44.50 0.4
0.4s 88.00nm
iPg 03 46.90
ISg 04 11.00
VRAC 1.79 236 iPn 03 46.30 1.2
0.5s 101.40nm
eSg 04 10.60
ZST 2.43 209 e(Pn) 03 53.00 -1.3
e 04 02.30
e 04 20.40
PSZ 2.50 164 eP 03 59.70 4.3X
SRO 2.54 188 iPn 04 02.70 6.8X
VKA 2.66 220 e(P) 04 04.00 6.5X
i 04 49.00
PRU 2.80 265 ePn 03 59.00 -0.6
0.6s 12.30nm
Pg 04 06.60
eSn 04 33.80
eSg 04 43.70
BRG 3.18 282 iPg 04 12.00 7.0X
ISg 04 57.00
KHC 3.64 253 Pn 04 11.00 -0.5
ePg 04 25.70
e 04 49.00
Sg 05 10.00

10d 03h

GEC2 3.68 248 Pn 05 24.40 0.0
Pg 04 12.10
Sg 04 20.30
ePg 05 07.50
eSg 04 27.00 12.6X
MOX 4.64 277 (Pg) 04 42.90 17.2X
iSg 05 43.80
GRF 4.97 266 ePg 04 46.20 15.8X
eSg 05 53.70
S.D. = 0.9 on 9 of 16 obs.

? APR 10, 1993 03h 09m 39.04 ± 1.65s
53.802 N ± 36.0km 163.959 W ± 17.1km
DEPTH = 33.0km (normal)
3.8mb (6 obs.)

UNIMAK ISLAND REGION (10)

SDN 2.54 51 ePd 10 19.99 1.2
KDC 7.58 54 (P) 11 28.72 -1.1
ADK 7.94 261 (P) 11 32.92 -2.1
SLKM 10.03 42 eP 12 02.93 -0.9
KLU 12.32 44 eP 12 31.81 -3.1X
BALM 13.66 49 eP 12 51.25 -1.5
INK 20.36 33 eP 14 14.50 -0.4
0.5s 1.00nm 3.4mb
YKA 26.82 51 eP 15 18.60 0.9
0.7s 0.70nm 3.4mb
MBC 28.02 21 eP 15 29.00 0.6
0.5s 1.00nm 3.8mb
KAF 64.15 355 eP 20 11.10 -0.7
0.4s 2.50nm 4.7mb
NUR 65.83 355 eP 20 31.50 8.9X
HFS 66.40 1 eP 20 25.70 -0.6
0.4s 2.40nm 4.7mb
GEC2 77.71 2 ePc 21 35.20 1.5
0.6s 0.49nm 3.7mb
GUN 78.82 302 P 21 41.20 0.7
PKI 79.33 302 P 21 43.80 0.6
GKN 79.36 303 P 21 44.00 0.8
DMN 79.45 303 P 21 44.60 0.8
WB2 90.48 236 iPd 22 54.70 16.2X
0.5s 4.30nm
WRA 90.48 236 P 22 50.70 12.2X
0.6s 2.00nm
BUL 145.04 339 iPKPc 29 14.60 0.1
1.0s 5.00nm
S.D. = 1.1 on 16 of 20 obs.

? APR 10, 1993 03h 13m 06.35 ± 2.71s
28.041 N ± 10.5km 101.228 E ± 33.3km
DEPTH = 10.0km (geophysicist)
4.4mb (2 obs.)
SICHUAN, CHINA (307)
ML 4.4 (BJI).

KMI 3.21 155 Pnd 13 57.50 -0.5
Pg 14 01.50
Sn 14 38.40
Sg 14 46.00
CD2 3.61 37 Pn 14 07.80 4.3X
Sg 14 54.90
GYA 5.09 107 Pn 14 25.00 0.4
Z 10s 1.78um
Sn 15 26.60
LZH 8.32 15 eP 15 16.50 6.4X
Z 10s 0.80um
E 10s 2.48um
XAN 8.90 46 eP 15 17.00 -1.0
Z 15s 1.00um
N 11s 2.16um
E 13s 1.18um
S 16 56.50
GTA 11.40 354 eP 15 57.00 4.6X
Z 10s 0.96um
E 10s 0.66um
BTO 14.47 28 eP 16 32.80 -0.4
Z 11s 0.52um
N 12s 0.49um
BJI 17.20 42 eP 17 10.50 2.4X
1.5s 34.00nm 4.3mb
N 11s 0.82um
CN2 25.01 45 P 18 33.10 1.4
1.0s 12.00nm 4.5mb
Z 12s 0.42um 4.2mszx
S.D. = 1.3 on 5 of 9 obs.

% APR 10, 1993 03h 46m 48.50 ± 0.78s
37.908 N ± 7.3km 14.494 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.16 82 P 46 53.10 0.8
eSg 46 57.00
GIB 0.38 283 P 46 56.70 0.4
eSg 47 02.60
MEU 0.88 157 Pd 47 05.00 -0.4
TDS 2.27 39 P 47 26.10 -0.5
ROI 2.32 44 P 47 27.90 0.5
CSI 2.33 36 P 47 30.80 3.2X
MGR 2.38 20 P 47 27.10 -1.0
SGO 2.72 13 P 47 33.20 0.2
S.D. = 0.8 on 7 of 8 obs.

* APR 10, 1993 04h 23m 08.66 ± 1.36s
27.794 N ± 11.8km 100.190 E ± 15.7km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
YUNNAN, CHINA (318)
ML 3.8 (BJI).

KMI 3.51 139 ePg 24 05.00 0.5
Sg 24 48.00
CD2 4.40 44 Pn 24 18.40 1.4
Pg 24 26.00
Sn 25 08.80
GYA 5.92 101 Pn 24 36.80 -1.8
XAN 9.74 48 eP 25 31.80 -0.1
WMO 18.90 331 P 27 30.80 -0.8
WRA 57.83 141 P 33 03.70 0.9
0.7s 0.40nm 3.6mb
S.D. = 1.5 on 6 of 6 obs.

APR 10, 1993 05h 01m 23.59 ± 0.46s
1.226 N ± 9.0km 85.069 W ± 10.5km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
OFF COAST OF ECUADOR (104)

SDV 16.26 62 eP 05 12.70 1.3
ARE 22.10 143 eP 06 18.00 -0.2
III 22.14 321 (P) 06 19.80 1.3
PPM 22.16 324 (P) 06 20.70 1.7
ZOBO 24.13 137 P 06 38.00 -0.3
1.1s 58.00nm 5.0mb
LPB 24.33 137 P 06 39.50 -0.6
CNCB 24.60 137 Pc 06 42.80 -0.1
SIV 29.23 127 eP 07 40.00 15.1X
OLY 34.62 351 (P) 08 11.14 -0.7
MEO 35.69 341 iPc 08 20.50 -0.5
WMOK 35.71 340 iPc 08 20.43 -0.7
FNO 35.75 343 iPd 08 20.50 -1.0
OCO 36.02 343 iPc 08 27.40 3.6X
NAV 36.13 6 (P) 08 23.77 -0.9
CVL 37.08 9 (P) 08 31.87 -0.7
ACO 37.62 341 iPc 08 36.40 -0.8
ALO 39.02 332 iPd 08 49.65 0.4
TUC 39.28 325 iPc 08 51.79 0.5
GLD 42.51 337 (P) 09 18.31 0.5
GOL 42.53 337 iPc 09 18.34 0.3
PV10 43.01 332 (P) 09 21.92 -0.1
PV09 43.16 332 eP 09 23.41 0.1
SRU 44.30 331 eP 09 31.50 -0.9
MSU 44.65 329 iPd 09 35.52 0.2
ARUT 44.77 328 (P) 09 36.90 0.7
EEO 45.53 6 eP 09 42.50 0.6
RSSD 45.92 341 (P) 09 44.81 -0.4
LMN 47.88 19 eP 10 09.50 9.1X
ULM 49.70 351 eP 10 15.00 0.6
LCCM 50.28 336 eP 10 18.30 -0.8
ORV 50.55 324 (P) 10 20.70 -0.4
FCC 57.81 354 eP 11 15.50 1.6
FRB 63.56 8 eP 11 50.50 -2.4
YKA 64.99 345 eP 11 59.20 -3.1X
1.2s 5.00nm 4.5mb
INK 74.56 343 eP 13 00.50 -0.1
1.0s 4.00nm 4.4mb
MBC 77.39 352 eP 13 15.50 -1.0
1.0s 5.00nm 4.5mb
KIC 80.25 84 (P) 13 34.80 1.5
ECOG 82.49 53 eP 13 31.10 -13.6X
EHUE 83.30 52 eP 13 51.50 2.7X
WRA 137.21 242 PKP 20 48.50 2.2X
0.8s 0.80nm

NDI 145.76 28 ePKP 21 02.50 1.4
GKN 149.30 18 PKP 21 00.00 -7.0X
S.D. = 1.0 on 34 of 42 obs.

APR 10, 1993 05h 14m 16.59 ± 0.89s
38.954 N ± 6.8km 27.163 E ± 12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.9 (ISK).
IZM 0.56 172 iPg 14 28.00 0.0
iSg 14 37.50
EZN 1.09 324 ePn 14 37.00 0.0
EDC 1.49 21 ePn 14 43.50 0.1
BNT 1.52 22 ePn 14 43.50 -0.3
KCT 1.59 35 ePn 14 45.00 0.2
S.D. = 0.2 on 5 of 5 obs.

& APR 10, 1993 05h 52m 47.63s
63.883 N 148.584 W
DEPTH = 15.9km
CENTRAL ALASKA (1)
<AEIC>. ML 2.7 (AEIC), 2.8 (PMR).

MCK 0.22 226 iP 52 52.67 -0.1
eS 52 56.14
RND 0.49 194 iP 52 57.23 -0.3
eS 53 03.86
WRH 0.63 20 iP 52 59.85 0.1
eS 53 08.32
NEA 0.73 343 eP 53 01.77 0.3
eS 53 11.90
CCB 0.84 24 eP 53 03.37 0.0
eS 53 14.59
TRF 0.87 241 eP 53 04.44 0.3
eS 53 16.10
HDA 0.89 53 eP 53 04.36 0.2
HUR 1.02 208 eP 53 06.80 0.3
eS 53 20.09
FBA 1.08 18 iPc 53 07.31 -0.1
eS 53 21.60
MDM 1.09 8 eP 53 07.90 0.2
eS 53 22.01
GLM 1.22 25 eP 53 09.61 -0.3
eS 53 26.25
THY 1.35 109 eP 53 12.51 0.7
MLY 1.48 322 eP 53 13.42 -0.3
PAX 1.67 122 eP 53 17.91 1.4
eS 53 39.75
SDG 1.94 133 eP 53 22.13 1.9
DOT 2.02 95 eP 53 24.32 2.8
eS 53 50.31
SML 2.09 177 eP 53 24.37 1.9
GHO 2.12 184 eP 53 23.84 0.8
SCM 2.14 164 eP 53 25.07 1.9
PLRM 2.31 186 eP 53 24.96 -0.7
PMR 2.31 186 eP 53 28.71 3.1
SKT 2.34 217 eP 53 26.21 0.2
TZL 2.34 141 eP 53 29.13 3.1
PMS 2.69 190 eP 53 34.40 3.4
KLU 2.70 152 eP 53 32.34 1.2
VLZ 2.95 158 eP 53 36.44 1.8
IMA 3.08 318 eP 53 35.96 -0.7
CRP 3.10 214 eP 53 42.50 5.5
CP2 3.13 214 (P) 53 43.13 5.8
GLB 3.29 136 eP 53 41.17 1.5
MPA 3.43 186 P 53 46.70 5.3
SLKM 3.47 193 P 53 47.20 5.1
TTA 3.47 257 (P) 53 46.39 4.2
eS 54 35.02
BALM 4.07 132 eP 53 50.99 0.4
SVW 4.29 233 eP 54 06.40 12.7
35 obs. associated

& APR 10, 1993 06h 22m 17.09s
63.112 N 150.855 W
DEPTH = 136.5km
CENTRAL ALASKA (1)
<AEIC>.

TRF 0.43 37 iP 22 36.51 -0.5
eS 22 51.81
HUR 0.57 103 eP 22 37.20 -0.4
eS 22 52.71
RND 0.95 71 eP 22 39.90 -0.6
MCK 1.06 53 eP 22 41.04 -0.5

SKT	1.18	196	eS	22	59.43	
			eP	22	42.10	-0.5
			eS	23	01.15	
PWA	1.54	162	P	22	46.20	-0.1
GHO	1.62	145	eP	22	47.15	-0.2
			eS	23	09.86	
SUA	1.66	178	eP	22	47.92	0.0
PMR	1.72	151	eP	22	47.25	-1.3
PLRM	1.72	151	eP	22	47.67	-0.8
SML	1.76	137	eP	22	48.24	-0.7
			eS	23	12.70	
WRH	1.84	41	eP	22	48.93	-0.9
MLY	1.93	1	eP	22	50.06	-0.9
CRP	1.95	199	eP	22	50.36	-1.0
CPAM	1.96	199	eP	22	51.26	-0.2
CP2	1.97	200	eP	22	51.17	-0.5
PMS	1.97	161	P	22	51.00	-0.5
BGL	1.99	202	eP	22	51.97	0.1
CKN	1.99	199	eP	22	51.16	-0.7
SPU	2.02	197	eP	22	51.36	-0.7
CKT	2.02	199	eP	22	51.64	-0.5
CKL	2.04	201	eP	22	52.20	-0.3
CCB	2.05	40	eP	22	51.58	-0.8
SCM	2.08	126	eP	22	52.02	-0.9
HDA	2.17	51	eP	22	53.38	-0.5
MDM	2.18	31	eP	22	53.19	-0.9
FBA	2.25	36	eP	22	53.61	-1.2
TTA	2.36	268	eP	22	54.94	-1.4
PTE	2.42	158	eP	22	56.20	-0.7
GLM	2.42	37	eP	22	56.46	-0.7
PAX	2.46	91	eP	22	57.26	-0.4
SDG	2.51	101	eP	22	58.03	-0.2
SLKM	2.63	173	eP	22	59.10	-0.7
MPA	2.73	164	eP	23	00.20	-0.7
TZL	2.73	111	eP	23	00.66	-0.4
NCT	2.74	202	eP	23	01.40	0.1
KLU	2.82	123	eP	23	00.87	-1.4
VLZ	2.91	131	eP	23	03.45	0.2
SVW	3.01	230	eP	23	04.03	-0.7
SEW	3.09	167	eP	23	04.92	-0.8
DOT	3.11	77	eP	23	05.14	-0.8
CNPM	3.60	183	eP	23	11.83	-0.7
GLB	3.69	114	eP	23	12.83	-0.9
BALM	4.51	114	(P)	23	23.60	-1.1

44 obs. associated

? APR 10, 1993 06h 39m 01.75±2.07s
51.159 N ±16.0km 178.194 W ±30.0km
DEPTH = 33.0km (normal)
4.2mb (9 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.19	52	eP	39	21.59	-0.5
SVW	15.96	43	eP	42	47.17	2.0
	0.8s	30.29nm			4.5mb	
KDC	16.27	56	eP	43	02.20	13.2X
TTA	16.76	37	eP	42	55.83	0.5
	0.8s	4.78nm			3.7mb	
PMS	18.70	46	eP	43	18.80	-0.5
PMR	19.01	45	eP	43	19.58	-3.4X
IMA	19.44	31	eP	43	26.09	-2.1
	0.8s	1.73nm			3.4mb	
FBA	20.89	37	eP	43	40.53	-2.6X
	1.3s	13.79nm			4.2mb	
INK	27.42	35	eP	44	46.00	0.2
MBC	33.67	22	eP	45	42.50	1.5
	1.0s	3.00nm			4.2mb	
YKA	35.11	46	eP	45	51.70	-1.8
	0.8s	0.80nm			3.7mb	
NEW	38.61	70	eP	46	23.00	-0.2
	0.7s	10.64nm			4.8mb	
BW06	46.01	72	ePc	47	24.03	0.2
	0.8s	4.55nm			4.5mb	
MSU	46.96	79	ePc	47	32.51	1.2
SRU	47.61	77	eP	47	37.14	0.7
RSSD	48.49	68	ePc	47	42.71	-0.5
	0.7s	2.72nm			4.4mb	
PV10	48.97	77	eP	47	47.21	0.1
LTX	58.31	81	eP	48	54.85	-0.9
ELC	61.47	65	eP	49	16.34	-0.9
JSC	68.13	62	ePc	50	01.34	1.0
WRA	82.12	224	P	51	33.20	13.0X
	0.6s	0.70nm				

S.D. = 1.2 on 17 of 21 obs.

* APR 10, 1993 06h 52m 41.16±1.00s
0.214 S ± 8.7km 124.628 E ±11.7km

DEPTH = 90.0 ± 12.6 km
4.4mb (5 obs.)
SOUTHERN MOLUCCA SEA (269)

MNI	1.66	7	iPc	53	09.50	0.1
			eS	53	32.00	
AAI	4.96	134	ePd	53	54.10	-0.6
			eS	54	58.00	
LEM	18.20	248	ePd	56	50.50	0.9
WB2	21.80	155	eP	57	27.60	0.3
	0.8s	18.50nm			4.5mb	
			i	57	31.90	
ASPA	24.99	160	eP	58	01.60	3.4X
	0.8s	5.20nm			4.0mb	
STK	35.35	155	eP	59	36.20	6.4X
	0.5s	1.40nm			4.1mb	
MAT	38.68	18	eP	59	59.00	1.2
	0.8s	7.46nm			4.6mb	
GUN	46.49	310	P	01	00.80	-0.9
	0.6s	16.00nm			5.1mb	
PKI	46.68	310	P	01	02.80	-0.4
KKN	46.89	310	P	01	04.60	-0.1
DMN	46.94	309	P	01	05.00	-0.2
GKN	47.49	310	P	01	09.20	-0.2

S.D. = 0.8 on 10 of 12 obs.

* APR 10, 1993 06h 56m 38.37±1.24s
16.861 N ±12.1km 99.008 W ± 8.2km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)
Felt in southeastern Guerrero.

ACX	0.81	271	iP	56	53.49	0.1
			iS	57	06.00	
III	1.57	344	iP	57	03.42	-1.0
OXX	2.20	84	iP	57	13.33	-0.1
			(S)	57	40.00	
PPM	2.22	9	iP	57	14.06	-0.1
			(S)	57	47.00	
IIA	2.30	8	iP	57	14.46	-0.3
CRX	2.61	346	(P)	57	20.50	1.0
IISM	2.62	36	iP	57	19.69	0.4
			(S)	57	48.20	
MRX	3.51	324	(P)	57	37.07	5.2X

S.D. = 0.8 on 7 of 8 obs.

% APR 10, 1993 07h 35m 07.49±0.61s
26.915 S ± 5.6km 26.814 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.3 (PRE).

BFS	0.03	303	eP	35	08.70	-0.1
			S	35	09.90	
PRY	0.59	91	eP	35	18.60	-0.7
			S	35	24.50	
KSR	1.05	4	eP	35	27.50	-0.4
			S	35	41.00	
SEK	1.58	153	iPc	35	36.60	0.3
			S	35	57.50	
SLR	1.77	49	eP	35	40.00	1.0
			S	36	02.50	
BLF	2.25	194	eP	35	46.20	0.1
			S	36	01.00	
FRS	3.12	205	eP	35	58.00	-0.2

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

% APR 10, 1993 07h 59m 08.79±0.67s
37.093 N ± 6.7km 3.964 W ± 5.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.1 (MDD).

ECOG	0.37	60	iPgc	59	15.86	-0.5
			eSg	59	21.90	
EGUA	0.41	129	iPgc	59	15.43	-1.8
			eSg	59	22.70	
ELUO	0.53	333	iPgc	59	18.36	-1.1
			eSg	59	26.70	
EPRU	1.02	263	ePgc	59	28.56	0.4
			eSg	59	42.00	
E8AN	1.08	7	ePg	59	29.12	0.0
			eSg	59	43.10	
EHOR	1.26	306	ePn	59	31.43	-0.7
			eSn	59	48.70	
EHUE	1.31	56	ePn	59	33.95	0.9
			eSn	59	51.70	

EJIF	1.37	243	ePn	59	34.75	0.9
ENIJ	1.41	94	ePn	59	35.65	1.1
EVIA	1.93	36	ePn	59	42.76	0.7
			eSn	00	05.60	

S.D. = 1.1 on 10 of 10 obs.

& APR 10, 1993 08h 15m 45.70s
36.567 N 121.155 W
DEPTH = 3.9km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 2.9 (GM).

SAO	0.31	310	iPc	15	51.71	-0.1
COE	0.80	329	ePc	16	02.11	0.3
			S	16	16.38	
ARN	0.84	339	ePc	16	02.53	0.2
			S	16	15.18	
PHAM	0.95	140	eP	16	03.93	-0.5
PKEM	0.98	121	eP	16	05.37	0.4
CMB	1.59	23	eP	16	13.84	-0.9
			S	16	36.65	
HMR	1.67	342	(P)	16	17.67	1.9
MMPM	1.99	58	eP	16	21.87	1.0
			S	16	46.96	
MEMM	2.08	58	eP	16	22.33	0.5
			S	16	50.72	
NTYM	2.18	327	eP	16	21.05	-2.1
MTUM	2.22	69	eP	16	24.43	0.4
			S	16	54.33	
ISA	2.35	112	eP	16	24.96	-0.9
			S	16	54.37	
MRCM	2.39	62	eP	16	27.86	1.4
ORV	3.00	355	eP	16	33.68	-1.2
GSC	3.75	108	eP	16	44.36	-1.3

15 obs. associated

% APR 10, 1993 08h 16m 32.39±1.06s
39.104 N ± 7.8km 27.677 E ±12.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.78	205	ePg	16	47.50	-0.1
			iSg	17	00.00	
EDC	1.25	7	ePn	16	55.50	-0.1
KCT	1.26	24	iPn	16	56.20	0.4
BNT	1.26	8	iPn	16	55.40	-0.5
EZN	1.27	305	iPn	16	56.10	0.1

S.D. = 0.5 on 5 of 5 obs.

* APR 10, 1993 08h 42m 49.24±1.28s
9.052 S ±14.2km 124.445 E ±14.2km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)
TIMOR REGION, INDONESIA (289)

MTN	7.57	120	eP	44	44.60	4.5X
	0.3s	187.00nm			6.6mb X	
			eS	46	03.00	
KNA	7.88	148	eP	44	45.80	1.3
	0.2s	43.00nm			6.2mb X	
			eS	46	06.00	
WB2	14.46	140	iPd	46	12.70	-0.8
			eS	48	41.70	
NANU	15.93	211	eP	46	33.00	0.4
			eS	49	12.00	
ASPA	17.12	149	iPd	46	48.10	0.4
			eS	49	46.20	
WARB	17.17	173	eP	46	47.00	-1.3
	0.3s	7.00nm			4.3mb	
MEEK	18.34	197	eP	47	03.00	0.1
GUN	52.36	316	P	52	01.00	0.0

S.D. = 1.1 on 7 of 8 obs.

APR 10, 1993 09h 12m 38.86±0.18s
0.212 S ± 3.4km 124.385 E ± 4.8km
DEPTH = 39.2km (11 depth phases)
5.2mb (59 obs.) 4.5Msz (4 obs.)
SOUTHERN MOLUCCA SEA (269)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 34S, 63C
Centroid Location:
Origin

10d 09h

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Moment Tensor:      Scale 10**16 Nm
Mrr=- 9.40  0.42    Mtt=-4.92  0.54
Mff=-4.48  0.79    Mrt= 2.70  0.59
Mrf= 7.54  0.50    Mtf=-6.13  0.53

Principal Axes:
T Val= 12.70      Plg=66    Azm=270
N      0.50       15       37
P     -13.20      18      131

Best Double Couple:Ma=1.3*10**17
NP1:Strike=244 Dip=30 Slip= 121
NP2:      29      65      74

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AAI	5.14	132	ePd	13	55.50	0.1
			eS	14	57.00	
DAV	7.35	9	eP	14	31.00	4.5X
	1.4s	930.23nm				6.5mb X
CTB	7.36	359	eP	14	33.00	6.3X
TLE	9.94	123	ePd	15	00.90	-1.4
	1.0s	8.00nm				4.9mb
KKM	10.25	307	ePd	15	10.00	3.3X
	0.9s	127.60nm				6.1mb
			e	15	29.50	
PLP	11.32	3	ePd	15	26.00	4.8X
KHK I	11.92	227	ePc	15	45.50	16.2X
			e	19	50.60	
PGP	14.04	346	ePc	16	02.50	5.0X
MTN	14.22	152	eP	15	58.50	-1.3
TGY	14.63	347	ePd	16	10.00	4.9X
QCP	15.11	348	eP	16	30.00	18.6X
QVP	15.11	347	iPd	16	19.00	7.6X
KNA	16.03	165	eP	16	22.00	-1.3
BAG	16.94	347	eP	16	37.60	2.7
			e	19	48.00	
LEM	17.97	248	ePd	16	50.60	2.9
	1.0s	110.00nm				4.9mb
			eS	20	24.00	
CVP	17.98	352	ePd	16	50.00	2.3
KGM	21.18	276	eP	17	25.50	2.2
WRA	21.90	154	P	17	28.79	-1.8
	1.4s	29.70nm				4.5mb
WB2	21.91	154	iPd	17	28.20	-2.4
	1.0s	19.10nm				4.5mb
			i	17	33.80	20kmX
			i	17	45.90	
			eS	21	28.60	
IPM	23.82	282	ePc	17	51.10	1.7
	0.8s	50.50nm				5.1mb
NANU	23.83	201	eP	17	50.00	0.6
QIZ	23.86	324	P	17	52.00	2.2
	1.0s	44.00nm				4.9mb
PMG	24.44	113	eP	17	56.00	0.6
SNG	24.82	288	eP	18	02.50	3.5X
ASPA	25.08	159	iPd	18	01.70	0.2
	1.9s	27.00nm				4.5mb
			e	18	12.70	42km
			eS	22	23.30	
WARB	25.91	175	eP	18	09.00	-0.2
MEEK	26.85	191	eP	18	16.00	-1.9
NST	28.68	304	eP	18	32.00	-2.5
CTA	29.13	134	iPc	18	40.00	1.4
			e	25	27.00	
KHT	29.54	301	eP	18	43.00	0.7
BDT	30.43	306	eP	18	47.00	-3.1X
FORT	30.60	174	eP	18	50.00	-1.5
CHG	31.33	309	ePc	18	58.40	0.3
	1.2s	66.41nm				5.3mb
GYA	31.54	329	P	19	01.20	1.2
	1.0s	23.00nm				5.0mb
Z	30s	0.86um				4.2MszX
N	16s	1.43um				
E	16s	1.22um				
			pP	19	16.00	60kmX
KAGJ	31.83	11	P	19	01.90	-0.4
QLP	32.44	145	eP	19	07.20	-0.5
NJ2	32.51	351	Pc	19	08.30	0.1
	Z	26s	0.71um			4.2MszX
KMI	32.75	322	Pd	19	12.50	1.8
	1.5s	90.00nm				5.4mb
	Z	20s	0.70um			4.4Msz
KUMJ	33.13	10	P	19	13.20	-0.4
SHNJ	34.73	10	P	19	26.70	-0.7
RMQ	35.12	140	eP	19	32.60	1.8
	1.1s	37.00nm				5.2mb
TKSJ	35.20	14	P	19	32.10	0.6
STK	35.45	154	eP	19</		

YONJ	36.22	13	P	19	40.80	0.7
CD2	36.63	330	P	19	44.30	0.7
	1.2s	100.00nm				5.6mb
XAN	37.03	338	P	19	46.50	-0.4
	1.0s	50.00nm				5.4mb
Z	30s	0.71um				4.3Mszx
E	17s	0.41um				
ADE	37.07	160	e(P)	19	48.00	0.7
CMS	37.15	149	eP	19	48.20	0.3
	1.1s	32.00nm				5.1mb
TSRJ	37.17	16	eP	19	47.70	-0.3
IIDJ	37.68	18	eP	19	54.00	1.6
BRS	38.38	137	iPc	19	58.00	-0.4
		e	20	10.00	44km	
CHJJ	38.55	19	P	19	58.60	-1.0
MTMJ	38.67	17	P	20	00.40	-0.4
MAT	38.75	18	eP	20	00.00	-1.4
	0.8s	43.28nm				5.3mb
		eS	25	46.00		
KAKJ	39.09	20	eP	20	03.50	-0.6
TIY	39.32	345	eP	20	07.00	0.9
	0.9s	51.00nm				5.3mb
Z	24s	1.08um				4.6Mszx
N	14s	0.51um				
ARMA	39.66	142	eP	20	10.20	1.1
	0.8s	29.00nm				5.1mb
BFD	40.43	157	eP	20	22.00	6.8X
BJI	40.76	350	eP	20	18.00	0.2
	1.0s	44.00nm				5.2mb
Z	28s	0.83um				4.4Mszx
		ePcP	22	19.00		
		eS	26	30.00		
		eSS	29	28.00		
YAMJ	40.83	19	eP	20	19.20	0.8
LZH	40.86	334	iPc	20	20.00	1.1
	1.4s	120.00nm				5.4mb
Z	28s	0.76um				4.4Mszx
N	14s	0.37um				
		pP	20	35.00	58kmX	
		pCp	22	19.80		
		ScP	26	04.00		
		pCs	26	10.00		
CAN	41.79	149	eP	20	27.70	1.3
		i	20	33.20	19kmX	
		i	20	41.20		
SNY	41.85	359	eP	20	26.50	-0.2
Z	28s	1.12um				4.6Mszx
TOO	41.97	155	iPd	20	29.90	2.1
	0.7s	18.00nm				4.9mb
CNB	41.98	149	iPd	20	31.80	3.8X
	0.6s	15.00nm				4.9mb
		i	20	43.70	43km	
OFUJ	42.19	20	eP	20	29.60	0.0
HHC	42.50	346	eP	20	32.80	0.6
	0.9s	32.00nm				5.1mb
LSA	43.45	316	Pc	20	41.40	0.8
	1.2s	32.00nm				4.9mb
CN2	43.83	1	eP	20	42.40	-0.4
	0.8s	48.00nm				5.3mb
Z	26s	0.68um				4.4Mszx
MDJ	44.87	5	iPc	20	51.70	0.4
	0.9s	39.00nm				5.3mb
GTA	45.39	333	P	20	55.50	-0.2
	1.0s	38.00nm				5.2mb
Z	20s	0.69um				4.6Msz
E	15s	0.41um				
		pP	21	07.00	41km	
		sP	21	13.00		
		pCp	22	35.50		
		ScP	26	23.00		
		S	27	33.50		
		sS	28	00.00		
GUN	46.30	310	P	21	02.80	-0.5
PKI	46.49	310	P	21	04.40	-0.4
KKN	46.70	310	P	21	06.00	-0.3
	0.8s	36.00nm				5.4mb
DMN	46.75	310	P	21	06.40	-0.3
	0.6s	45.00nm				5.6mb
KUSJ	46.81	20	eP	21	07.80	1.2</

			e	21	40.90	51kmX
CIT	52.81	352	eP	21	52.50	-0.1
POO	52.99	293	iPd	21	51.50	-3.0
NDI	53.45	307	eP	21	55.00	-2.6
ZAK	53.53	343	eP	21	56.00	-1.7
	1.0s		25.00nm			5.2mb
			e	23	00.50	299kmX
WMO	54.70	328	P	22	05.20	-1.4
	1.5s		48.00nm			5.3mb
	Z	28s	0.62um			4.5MszX
			PcP	23	07.60	
			PP	24	14.00	
			ScP	27	02.40	
			PcS	27	04.80	
			eS	29	45.00	
			ScS	31	50.20	
IRK	54.95	345	eP	22	07.50	-0.8
	1.0s		27.00nm			5.2mb
	Z	18s	0.22um			4.3Msz
MOY	55.35	343	eP	22	10.00	-1.1
	1.0s		39.00nm			5.4mb
80D	58.46	354	iPc	22	32.10	-0.9
	0.9s		61.00nm			5.7mb
KSH	59.23	318	P	22	39.60	0.7
	1.0s		40.00nm			5.5mb
	Z	28s	0.88um			4.7MszX
	E	24s	2.40um			
			ScS	32	24.00	
PRZ	59.23	322	iP	22	38.50	-0.4
	1.0s		120.00nm			6.0mb
FRU	61.80	320	eP	22	56.00	-0.3
	2.0s		40.00nm			5.2mb
			e	23	36.00	170kmX
ELT	61.98	335	iPc	22	55.00	-2.2
			eS	31	10.00	
YAK	62.20	3	iPc	22	57.90	-0.6
	1.0s		181.00nm			6.2mb
			e	23	08.00	33km
			eS	31	18.00	
QUE	62.34	305	eP	22	56.10	-4.2X
MGD	63.54	14	ePc	23	07.40	0.0
	0.8s		50.00nm			5.7mb
			e	23	19.00	39km
			e	23	38.00	
			e	31	34.00	
MAIO	70.08	309	eP	23	48.00	-1.4
NRI	73.63	347	iPc	24	08.30	-1.5
	1.2s		44.00nm			5.3mb
			e	24	18.00	31km
SVE	76.10	329	iPc	24	22.50	-1.7
	1.2s		60.00nm			5.4mb
ARU	77.00	329	eP	24	28.00	-1.2
	1.3s		100.00nm			5.7mb
			e	24	41.00	44km
AVY	77.31	251	iPc	24	32.40	0.5
VTY	77.50	251	iPc	24	33.30	0.4
ABM	77.72	250	iPc	24	34.50	0.3
OPD	77.96	251	iPc	24	35.10	-0.3
ILT	78.28	19	iPc	24	36.50	0.5
	1.0s		32.00nm			5.3mb
			i	24	50.00	46km
MAW	79.27	200	P	24	44.00	2.5
GRS	80.92	310	eP	24	50.00	-1.1
	1.2s		40.00nm			5.3mb
PYA	83.90	314	eP	25	05.00	-1.2
TTA	85.45	27	eP	25	14.40	0.8
	0.8s		7.27nm			4.9mb
BRW	86.63	18	iPd	25	20.38	1.2
RSO	86.65	30	eP	25	19.38	-0.4
IMA	86.91	24	iPc	25	21.46	0.6
	0.8s		7.43nm			5.0mb
SLKM	87.91	30	eP	25	24.78	-0.8
MOS	88.34	326	eP	25	27.00	-0.7
	2.0s		60.00nm			5.5mb
	Z	21s	0.60um			5.0Msz
OBN	88.90	325	iPc	25	29.80	-0.6
	1.5s		63.00nm			5.7mb
			i	25	40.00	32

BUL 95.35 250 iPc 26 01.00 -0.1
1.0s 6.00nm 5.0mb
LSZ 95.92 255 iPd 26 03.90 0.2
MLR 96.08 316 eP 26 04.00 0.1
MBC 96.28 12 eP 26 04.00 -0.1
UZH 98.14 319 eP 26 12.00 -0.9
1.8s 18.00nm 5.6mb

HFS 100.37 332 ePd 26 20.30 -2.5X
0.4s 1.50nm 4.8mb
Z 20s 152.00um 7.5mszX

YKA 104.03 24 ePd 26 39.20 0.2X
0.9s 0.80nm 4.6mb

LCCM 113.01 39 ePKP 31 14.20 0.2
MSU 115.76 47 ePKP 31 20.70 1.1
SRU 116.72 45 ePKP 31 21.54 0.2
PV10 118.07 46 ePKP 31 24.83 0.8
RSSD 118.72 38 iPKPd 31 24.39 -0.6
GOL 120.05 43 iPKPd 31 28.09 0.3
ALQ 121.39 48 ePKPc 31 31.15 0.8
LTX 125.84 53 ePKP 31 38.43 -0.6

WMOK 127.07 45 ePKP 31 40.35 -0.8
LKO 129.37 282 PKP 31 46.24 0.2
MIAR 130.76 42 iPKPc 31 49.39 1.3
eSKP 35 07.78

PEL 143.91 158 iPKPd 32 10.90 -1.5
MDZ 144.80 160 i(PKP) 32 14.60 0.6
RTCV 145.84 160 ePKPd 32 16.70 1.0
CFA 146.17 160 ePKPd 32 17.00 0.7
MRA 146.18 165 ePKPc 32 17.10 0.9
TCA 147.49 166 iPKPc 32 21.60 3.2X
FSA 152.00 160 ePKP 32 33.60 8.3X
YJA 155.76 157 ePKPc 32 33.50 2.3X
CNCB 159.15 145 PKP 32 38.20 2.6X
LPB 159.30 144 ePKP 32 42.00 6.4X
i 33 14.30

ZOBO 159.49 144 PKPc 32 37.30 1.3
1.0s 17.50nm
i 33 16.60
LR 58 10.00

SDV 162.74 60 iPKPd 32 39.60 0.7
SIV 163.02 162 PKP 32 54.00 15.1X
i 33 43.00

CAR 164.80 47 ePKP 32 39.80 -0.9
S.D. = 1.2 on 131 of 154 obs.

% APR 10, 1993 09h 35m 44.60 ± 0.65s
41.089 N ± 8.9km 28.751 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ISK 0.23 96 iPg 35 49.30 -0.3
CTT 0.25 284 iPg 35 49.30 -0.6
YLV 0.70 138 ePg 35 57.90 -0.6
HRT 0.74 111 iPg 35 59.40 0.2
BNT 0.97 221 iPg 36 03.40 0.4
DMK 1.05 315 iPg 36 04.70 0.4
iSg 36 19.20

EYL 1.19 116 ePn 36 07.40 0.6
S.D. = 0.6 on 7 of 7 obs.

% APR 10, 1993 09h 48m 53.72 ± 2.84s
33.659 S ± 9.1km 71.761 W ± 26.1km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.0 (SAN).

LCCM 0.24 41 iP 49 00.34 -0.4
iS 49 05.69
LNV 0.42 135 iP 49 02.84 -0.2
iS 49 10.05
SAN 0.94 78 iP 49 10.07 -0.6
iS 49 23.79

CHCH 0.96 107 iP 49 10.38 -0.6
iS 49 23.91

PEL 1.04 61 iP 49 12.08 0.1
iS 49 26.16

CACH 1.07 116 iP 49 13.32 0.8
iS 49 28.64

FCH 1.27 75 iP 49 15.70 0.1
iS 49 32.43

JACH 1.38 45 iP 49 17.47 0.5
iS 49 34.69

S.D. = 0.6 on 8 of 8 obs.

? APR 10, 1993 09h 55m 28.33 ± 9.81s
42.937 N ± 46.6km 128.408 W ± 62.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR 4.44 51 P 56 36.51 -0.8
SSOR 4.71 64 P 56 41.05 -0.1
NLO 4.74 47 P 56 41.54 -0.1
PGO 4.97 57 P 56 45.05 0.3
BMW 5.11 44 eP 56 46.16 -0.7
BPO 5.16 68 P 56 47.91 0.3
RVW 5.17 50 P 56 47.42 -0.1
VLMW 5.26 58 P 56 49.83 0.0

LVP 5.31 52 P 56 49.73 0.0
TDH 5.31 61 P 56 50.11 0.3
MTMW 5.40 53 P 56 50.86 -0.1
FL2 5.42 51 P 56 51.05 -0.2
VLL 5.46 60 P 56 52.14 0.4
CZM 5.47 48 P 56 51.64 -0.2
SHW 5.48 51 eP 56 52.38 0.3
ERK 5.48 50 P 56 51.83 -0.3
HSR 5.50 52 P 56 52.79 0.3

CPW 5.50 41 P 56 51.75 -0.6
JLK 5.50 52 P 56 52.44 0.1
REMW 5.51 52 P 56 53.61 0.9X
STD 5.51 51 P 56 52.61 0.0
YEL 5.52 52 P 56 53.08 0.4
ESD 5.53 52 P 56 53.58 0.7X
VFP 5.53 62 P 56 53.41 0.5

CDFW 5.55 53 P 56 52.92 -0.1
SOSW 5.56 51 P 56 53.71 0.5
KOSW 5.66 49 P 56 54.71 0.1
GULW 5.72 56 P 56 55.72 0.3
LMW 5.73 47 P 56 55.59 0.0
ASR 5.83 54 P 56 57.21 0.2
VIPM 5.86 72 P 56 57.22 -0.2

MEW 5.90 42 P 56 58.42 0.6
GHW 5.98 45 P 56 58.99 0.0
LON 6.04 49 iPc 57 00.07 0.1
GLK 6.05 51 P 57 00.32 0.3
VGB 6.06 62 P 57 00.55 0.4
REMR 6.07 48 P 57 00.52 0.1
RVC 6.07 47 P 57 00.50 0.1

WPW 6.16 50 P 57 01.55 -0.1
GL2 6.21 58 P 57 02.02 -0.3
FMW 6.23 48 P 57 02.71 0.0
GSM 6.33 45 P 57 04.24 0.1
JBO 6.66 65 P 57 08.11 -0.5
HTW 6.75 42 P 57 09.97 0.1
MXC 6.83 55 P 57 10.62 -0.3

EBG 6.84 52 P 57 11.15 0.0
JCW 6.95 39 P 57 13.31 0.7
TBM 6.96 50 P 57 13.44 0.5
RSW 7.17 58 P 57 15.23 -0.6
RPW 7.32 39 P 57 17.83 -0.1
ETW 7.36 48 P 57 18.43 -0.1
CRF 7.49 56 P 57 20.12 -0.1

EPH 7.63 52 P 57 22.03 -0.2
SAW 7.93 50 P 57 25.73 -0.7
YKA 21.21 18 eP 00 30.80 14.7X

0.4s 0.10nm
S.D. = 0.4 on 52 of 55 obs.

? APR 10, 1993 10h 26m 36.36 ± 2.27s
11.239 N ± 27.9km 87.530 W ± 15.2km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
NEAR COAST OF NICARAGUA (74)
MD 4.0 (APY).

PYN 1.24 24 eP 26 57.92 0.5
SSN 1.65 88 eP 27 03.80 0.4
PYT 1.92 48 iPd 27 06.89 -0.5
eS 27 34.05

EEO 36.01 10 eP 33 37.50 1.2
SIV 37.65 135 P 34 07.00 16.6X
ULM 39.50 352 eP 34 06.50 1.0

LCCM 40.24 334 eP 34 13.00 1.1
JAO 43.49 10 eP 34 36.00 -2.1
YKA 54.75 345 eP 36 03.20 -1.6

0.8s 0.90nm 3.9mb
WRA 138.85 253 PKP 46 13.40 11.4X
0.6s 0.30nm

S.D. = 1.5 on 8 of 10 obs.

* APR 10, 1993 10h 34m 38.36 ± 0.82s

56.346 N ± 21.9km 34.390 W ± 11.0km
DEPTH = 10.0km (geophysicist)
4.7mb (6 obs.)
NORTH ATLANTIC OCEAN (402)

FRB 18.40 308 eP 38 52.50 -2.2
LMN 21.62 254 eP 39 31.50 1.2
GRR 21.79 97 eP 39 31.90 0.0
1.4s 48.35nm 4.7mb
LPF 21.89 98 eP 39 30.50 -2.4
TCF 24.71 98 eP 39 59.70 -0.9

1.2s 26.20nm 4.8mb
BGF 24.90 97 eP 40 02.30 0.0
0.6s 5.25nm 4.4mb

MAF 24.94 98 eP 40 03.80 1.0
0.9s 12.80nm 4.6mb

SSF 24.96 96 eP 40 01.80 -1.2
1.2s 20.55nm 4.7mb

LOR 25.04 95 eP 40 02.90 -0.8
HAU 26.00 91 eP 40 13.90 1.2

MBC 35.09 335 eP 41 33.00 0.0
YKA 38.77 313 eP 42 01.90 -2.2

0.6s 0.40nm 3.3mb X
INK 42.41 327 eP 42 35.00 1.0

FBA 48.93 329 eP 43 26.90 1.1
0.9s 0.50nm 3.5mb X

GKN 81.43 51 P 46 58.20 1.3
KKN 81.89 51 P 46 59.40 0.0

DMN 81.97 51 P 47 01.40 1.6
0.6s 13.00nm 5.2mb

GUN 82.04 51 P 47 01.60 1.3
S.D. = 1.4 on 18 of 18 obs.

APR 10, 1993 11h 37m 42.36 ± 0.81s
31.808 S ± 7.4km 68.885 W ± 6.7km
DEPTH = 12.4 ± 5.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV 0.30 100 iPd 37 49.00 0.2
ZON 0.31 34 iPd 37 49.30 0.2
eS 37 54.30

RTBS 0.51 287 iPd 37 52.50 -0.1
CFA 0.59 70 iPd 37 53.40 -0.6

RTLL 0.59 37 iPd 37 53.00 -1.2
MDZ 1.07 178 e(P) 38 09.20 6.8X

RTPR 2.53 54 e(P) 38 25.90 2.1
(S) 38 57.50

MRA 2.76 103 ePd 38 27.40 0.3
i 38 30.80
(S) 39 01.90

e 39 06.80
RFA 2.98 173 ePc 38 30.00 -0.2
S 39 17.50

TCA 3.69 84 eP 38 40.00 -0.5
i 38 48.00

CYA 4.29 39 ePd 38 48.50 -0.4
(S) 39 52.30

S.D. = 1.1 on 10 of 11 obs.

% APR 10, 1993 13h 24m 15.02 ± 0.92s
39.533 N ± 7.6km 28.505 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

KCT 0.72 351 iPn 24 29.20 -0.1
BNT 0.94 331 iPn 24 32.70 -0.2

EDC 0.95 329 iPn 24 33.50 0.4
YLV 1.23 33 ePn 24 37.70 -0.2

ALT 1.33 110 iPn 24 40.10 0.4
KHL 1.45 146 ePn 24 41.00 -0.3

EYL 1.63 50 ePn 24 44.00 0.0
S.D. = 0.4 on 7 of 7 obs.

% APR 10, 1993 13h 30m 44.20 ± 0.85s
39.986 N ± 8.9km 29.178 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV 0.60 14 ePg 30 55.70 -0.7
KCT 0.68 293 iPg 30 56.80 -0.9

EYL 0.95 52 ePn 31 03.00 0.7
BNT 1.03 291 iPn 31 04.70 1.0

EDC 1.07 290 iPn 31 04.50 0.2
ALT 1.18 142 ePn 31 06.00 -0.2

10d 13h

S.D. = 1.0 on 6 of 6 obs.

* APR 10, 1993 13h 31m 01.32±0.61s
54.128 S ±20.4km 129.650 W ±12.4km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.) 4.9Msz (6 obs.)
PACIFIC-ANTARCTIC RIDGE (691)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 34S, 58C
Centroid Location:
Origin Time 13:31:11.2 0.2
Lot 54.955 0.04 Lon 129.13W 0.05
Dep 15.0 FIX Half-duration 1.3
Moment Tensor; Scale 10¹⁷ Nm
Mrr=0.05 0.04 Mtt=1.08 0.06
Mff=-1.12 0.04 Mrt=0.24 0.14
Mrf=-0.68 0.14 Mtf=1.26 0.04
Principal Axes:
T Val= 1.65 Plg= 2 Azm=155
N 0.30 70 58
P -1.95 20 246
Best Double Couple: Mo=1.8×10¹⁷
NP1: Strike=289 Dip=74 Slip=-12
NP2: 22 78 -164

SPA 36.06 180 iPd 38 05.00 0.4
1.2s 37.32nm 5.1mb
Z 20s 2.07um 4.9Msz
i 48 02.10
TCA 50.89 91 iPd 40 02.50 -1.9
NVL 52.40 165 (P) 40 15.00 -0.2
Z 16s 1.40um 5.1MszX
N 16s 1.00um
E 16s 0.50um
e 40 29.00
e 47 32.00
TOO 57.81 249 eP 40 55.80 0.9
0.8s 12.00nm 5.0mb
CNCB 60.00 77 P 41 11.50 0.5
LPB 60.16 76 P 41 12.60 0.7
LR 59 22.00
ZOB0 60.36 76 P 41 12.70 -0.7
1.0s 32.50nm 5.4mb
S 49 28.00
LR 59 14.00
SIV 64.65 82 P 41 52.40 11.0X
ASPA 74.81 251 iPd 42 41.70 -1.8
1.2s 8.10nm 4.6mb
Z 20s 1.60um 5.3Msz
WB2 77.51 253 iPd 42 58.40 -0.3
0.9s 3.70nm 4.5mb
WRA 77.52 253 P 42 58.20 -0.5
0.8s 1.90nm 4.2mb
YKA 116.88 8 ePKP 49 55.10 8.8X
0.7s 0.60nm
INK 122.15 358 ePKP 50 05.00 8.9X
BCAO 124.11 141 ePKPd 50 02.50 0.9
0.7s 6.00nm
ic 50 07.40
MBC 130.27 3 ePKP 50 14.50 3.0X
1.0s 2.00nm
EPF 145.80 88 ePKP 50 42.00 1.0
1.5s 58.00nm
DAG 146.62 23 ePKP 50 43.80 2.6X
0.9s 6.72nm
MFF 147.53 82 ePKP 50 46.70 3.1X
1.3s 37.20nm
RJF 147.80 86 ePKP 50 47.20 3.2X
Z 19s 0.17um 4.9Msz
CAF 147.91 87 ePKP 50 48.00 3.7X
IRK 148.28 289 ePKP 50 54.20 9.6X
1.6s 15.00nm
e 51 10.00
LSF 148.32 84 ePKP 50 48.60 3.7X
1.3s 33.95nm
FLN 148.44 79 ePKP 50 49.30 4.4X
Z 22s 0.20um 4.9Msz
TCF 148.74 84 ePKP 50 49.70 4.1X
1.3s 28.90nm
BGF 149.26 84 ePKP 50 51.20 4.9X
AVF 149.68 84 ePKP 50 52.00 5.1X
EKA 149.71 66 PKP 50 57.00 10.3X
1.0s 20.20nm
SMF 149.89 85 ePKP 50 52.50 5.2X
1.3s 22.40nm

LBF 150.14 85 ePKP 50 53.10 5.4X
1.4s 26.55nm
LOR 150.22 84 ePKP 50 53.30 5.5X
1.2s 25.60nm
Z 22s 0.28um 5.0Msz
PGF 150.60 96 ePKP 50 54.00 5.4X
LPL 150.98 89 ePKP 50 55.80 6.6X
0.9s 9.65nm
LPG 150.98 89 ePKP 50 55.90 6.6X
1.0s 11.60nm
DOU 152.00 79 PKP 51 05.60 15.3X
HAU 152.05 84 ePKP 50 57.40 6.9X
Z 23s 0.28um 5.0MszX
BSF 152.22 85 ePKP 50 58.00 7.2X
1.1s 24.90nm
CDF 152.79 84 ePKP 50 59.10 7.5X
QUE 153.23 213 ePKP 51 04.80 11.9X
GRF 155.68 84 ePKP 51 05.00 9.6X
Z 23s 0.30um 5.1MszX
MOX 156.31 83 ePKPd 51 06.20 10.0X
1.6s 20.00nm
Z 18s 0.20um 5.0Msz
OHR 156.41 111 ePKP 50 53.70 -3.0X
GEC2 156.76 88 ePKP 50 58.00 1.0
1.2s 1.71nm
e 51 01.20
e 51 05.40
e 51 09.60
e 51 13.10
KHC 156.82 87 ePKP 51 04.50 7.5X
e 51 34.50
e 51 07.00
CLL 157.38 82 ePKP 51 07.00 9.5X
1.3s 17.00nm
e 51 29.00
VAY 157.52 113 ePKP 51 02.00 4.0X
PRU 157.75 86 ePKP 51 07.00 9.0X
e 51 31.00
BRG 157.76 83 ePKP 51 07.20 9.2X
1.2s 13.00nm
S.D. = 1.1 on 13 of 47 obs.

? APR 10, 1993 14h 23m 46.61±1.76s
56.275 N ±33.4km 154.784 W ±22.1km
DEPTH = 33.0km (normal)
3.1mb (1 obs.)
KODIAK ISLAND REGION (13)
ML 3.4 (PMR).

KDC 1.94 39 ePc 24 18.30 0.5
SDN 3.36 256 eP 24 38.00 0.0
SVW 4.87 355 eP 25 05.70 6.3X
PMS 5.68 26 eP 25 10.50 -0.3
INK 15.48 30 eP 27 29.00 5.3X
YKA 21.10 56 eP 28 29.90 -0.2
0.9s 0.70nm 3.1mb
MBC 23.85 20 eP 29 00.50 3.4X
S.D. = 0.7 on 4 of 7 obs.

& APR 10, 1993 14h 25m 06.03s
63.363 N 150.523 W
DEPTH = 144.9km
CENTRAL ALASKA (1)
<AEIC>.

TRF 0.14 50 ePd 25 25.70 1.4
eS 25 39.70
HUR 0.56 133 eP 25 26.81 -0.6
RND 0.75 86 ePd 25 28.14 -0.6
MCK 0.80 62 ePd 25 28.69 -0.3
S 25 45.43
NEA 1.38 27 ePc 25 33.35 -0.9
SKT 1.46 199 iPd 25 34.55 -0.6
eS 25 55.64
WRH 1.55 43 iPd 25 35.41 -0.6
MLY 1.68 357 ePd 25 37.11 -0.4
eS 25 59.82
PWA 1.74 170 P 25 38.00 -0.2
CCB 1.76 42 ePc 25 37.76 -0.6
GHO 1.76 154 ePd 25 38.07 -0.5
eS 26 02.94
SML 1.86 146 iPd 25 38.76 -0.9
eS 26 04.73
MDM 1.89 31 ePc 25 39.47 -0.5
PMR 1.89 159 ePd 25 38.58 -1.3
eS 26 01.94
PLRM 1.89 159 ePd 25 39.05 -0.9
eS 26 04.34

HDA 1.89 55 ePc 25 39.24 -0.8
SUA 1.91 183 eP 25 40.75 0.5
eS 26 06.30
FBA 1.95 37 ePc 25 39.93 -0.7
GLM 2.13 39 iPd 25 42.46 -0.4
SCM 2.13 135 iPd 25 42.00 -0.9
THY 2.15 86 eP 25 43.80 0.7
PMS 2.17 168 P 25 42.70 -0.7
CRP 2.24 201 eP 25 43.56 -0.7
CPAM 2.25 200 eP 25 44.39 0.0
eS 26 13.10
CP2 2.25 202 eP 25 44.24 -0.3
eS 26 12.64
BGL 2.28 203 eP 25 44.96 0.2
CKN 2.28 201 eP 25 44.92 0.2
SPU 2.30 199 eP 25 44.52 -0.5
CKT 2.31 201 eP 25 44.72 -0.4
PAX 2.33 97 eP 25 44.98 -0.3
eS 26 14.62
CKL 2.33 202 eP 25 45.17 -0.3
SDG 2.43 108 ePd 25 45.83 -0.6
eS 26 15.60
TTA 2.53 263 ePc 25 46.64 -1.2
PTE 2.60 164 eP 25 47.77 -0.9
NKA 2.65 188 eP 25 51.13 1.9
TZL 2.70 117 eP 25 49.26 -0.6
KLU 2.85 129 ePd 25 50.39 -1.5
SLKM 2.87 177 eP 25 51.66 -0.4
DOT 2.91 81 eP 25 51.82 -0.8
eS 26 25.70
MPA 2.94 169 ePd 25 51.90 -1.0
DFR 2.96 201 eP 25 53.77 0.4
VLZ 2.98 137 ePd 25 51.61 -1.8
eS 26 27.14
NCT 3.03 203 eP 25 54.61 0.3
IMA 3.04 335 eP 25 52.99 -1.3
RDW 3.09 202 eP 25 53.80 -1.2
SVW 3.29 229 P 25 57.20 -0.3
SEW 3.31 171 eP 25 56.92 -0.8
HIN 3.53 146 eP 25 59.20 -1.5
CVA 3.62 139 eP 26 00.55 -1.2
GLB 3.67 119 ePd 26 01.70 -0.8
CNPM 3.87 185 eP 26 04.37 -0.7
FYU 3.92 33 eP 26 05.15 -0.6
RAGM 4.07 135 eP 26 06.61 -1.2
AUW 4.25 201 eP 26 10.15 0.0
CROM 4.35 124 eP 26 10.73 -0.9
TGL 4.47 122 eP 26 11.75 -1.4
BALM 4.49 118 eP 26 12.25 -1.2
KAIM 4.51 137 eP 26 12.02 -1.6
SYI 4.86 192 eP 26 17.82 -0.4
CTGM 4.93 115 eP 26 18.73 -0.7
YAH 5.13 122 eP 26 20.79 -1.3
61 obs. associated

? APR 10, 1993 15h 39m 15.05±1.05s
39.133 N ±16.2km 27.583 E ±46.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM 0.78 199 iPg 39 30.20 0.0
ISg 39 42.20
EDC 1.23 10 ePn 39 38.50 0.6
BNT 1.25 12 iPn 39 37.60 -0.6
KCT 1.26 28 ePn 39 38.60 0.1
S.D. = 0.9 on 4 of 4 obs.

? APR 10, 1993 15h 56m 10.44±4.08s
4.007 N ±31.4km 125.724 E ±49.9km
DEPTH = 139.0 ±35.7 km
4.7mb (8 obs.)
TALAUD ISLANDS, INDONESIA (263)

MNI 2.70 199 ePd 56 54.00 0.0
eS 56 58.50
MTN 17.58 162 eP 00 14.00 5.6X
WB2 25.27 161 iPd 01 26.10 0.6
0.5s 16.40nm 4.8mb
ASPA 28.64 164 iPd 01 56.00 -0.1
0.5s 11.20nm 4.8mb
WARB 30.02 178 iPd 02 06.00 -2.3X
FORT 34.66 176 eP 02 45.70 -2.8X
STK 38.75 158 iPd 03 23.20 0.4
0.6s 11.80nm 4.8mb
ADE 40.65 164 iPd 03 38.50 0.1
BRS 40.69 142 iPd 03 38.50 -0.4

1.0s 4.00nm 4.1mb
 ARMA 42.25 146 iPd 03 52.10 0.4
 0.7s 8.00nm 4.5mb
 BFD 43.87 161 iPd 04 03.70 -0.9
 0.6s 6.00nm 4.4mb
 e 05 52.20
 HFS 97.31 332 eP 09 32.40 3.8X
 0.5s 1.30nm 4.7mb
 NB2 98.09 333 P 09 32.30 0.1
 1.0s 2.40nm 4.7mb
 S.D. = 0.6 on 9 of 13 obs.

% APR 10, 1993 16h 05m 21.67±1.54s
 39.073 N ±11.2km 28.243 E ±18.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 1.02 229 ePn 05 41.00 0.0
 KCT 1.18 4 iPn 05 43.70 0.0
 BNT 1.31 349 ePn 05 45.10 -0.7
 EDC 1.31 347 iPn 05 46.50 0.7
 YLV 1.73 30 ePn 05 52.00 0.0
 S.D. = 0.7 on 5 of 5 obs.

* APR 10, 1993 16h 45m 32.63±1.90s
 38.550 N ±16.8km 20.509 E ±8.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.2 (THE). MD 3.1 (ATH).

VLS 0.38 170 ePg 46 39.80 59.4X
 eSg 46 46.60
 IGT 0.99 352 ePg 45 50.48 -0.9
 eSg 46 05.72
 KEK 1.29 335 ePg 45 57.50 1.0
 AGG 1.50 71 ePb 45 58.42 -1.2
 eSb 46 20.88
 KZN 2.01 29 ePn 46 09.50 2.5X
 LIT 2.18 44 ePn 46 10.28 0.8
 eSn 46 38.24
 FNA 2.33 16 ePn 46 11.64 0.0
 OHR 2.57 5 ePn 46 12.50 -2.5
 VLI 2.66 133 ePg 46 25.40 9.1X
 GRG 2.81 31 ePn 46 18.32 -0.1
 PAIG 2.82 60 iPn 46 19.24 0.7
 eSn 46 52.44
 VAY 3.19 29 ePn 46 25.00 1.3
 KNT 3.19 34 ePn 46 23.48 -0.3
 ROI 3.23 290 P 46 24.50 0.1
 SKO 3.49 11 ePn 46 29.20 1.2
 S.D. = 1.2 on 12 of 15 obs.

APR 10, 1993 17h 54m 25.49±0.48s
 44.442 N ±2.8km 7.292 E ±3.3km
 DEPTH = 14.9 ± 5.5 km
 NORTHERN ITALY (545)
 ML 3.2 (LDG). 2.6 (GEN).

DOI 0.07 331 Pd 54 29.00 0.3
 eSg 54 31.10
 PZZ 0.15 295 Pc 54 29.70 0.0
 S 54 32.18
 STV 0.20 173 Pc 54 30.12 -0.3
 S 54 32.76
 ENR 0.23 157 P 54 30.59 -0.4
 S 54 33.62
 BHB 0.40 357 Pd 54 33.36 -0.4
 S 54 38.68
 ROB 0.44 109 Pc 54 34.58 0.1
 S 54 40.62
 RRL 0.60 323 P 54 37.32 0.0
 S 54 45.25
 IMI 0.68 141 Pc 54 38.35 -0.3
 S 54 46.88
 FIN 0.70 109 Pc 54 38.87 0.0
 S 54 47.86
 CKI 0.71 91 P 54 39.40 0.4
 eSg 54 48.40
 RSP 0.71 358 P 54 38.21 -0.9
 S 54 46.77
 BNI 0.75 324 P 54 40.10 0.2
 eSg 54 50.70
 PCP 0.90 83 P 54 42.82 0.5
 S 54 54.59
 FRF 1.00 208 Pg 54 44.00 0.1
 Sg 54 56.60

LSD 1.02 355 P 54 43.99 -0.5
 S 54 57.12
 LPG 1.12 340 Pg 54 46.90 0.6
 Sg 55 01.50
 LPL 1.15 340 Pg 54 46.90 0.3
 Sg 55 01.50
 LRG 1.19 215 Pg 54 47.50 0.2
 Sg 55 03.10
 LMR 1.24 207 Pg 54 48.10 0.0
 Sg 55 03.70
 S.D. = 0.4 on 19 of 19 obs.

% APR 10, 1993 17h 54m 53.48±0.58s
 39.552 N ±5.1km 28.562 E ±6.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).

KCT 0.71 347 iPn 55 07.50 -0.1
 BNT 0.94 329 iPn 55 11.60 0.1
 EDC 0.96 326 iPn 55 11.50 -0.2
 YLV 1.19 31 iPn 55 15.60 -0.1
 ALT 1.30 112 ePn 55 18.00 0.4
 KHL 1.44 148 ePn 55 19.00 -0.7
 IZM 1.53 222 ePn 55 21.30 0.3
 EYL 1.59 50 ePn 55 22.00 0.2
 S.D. = 0.4 on 8 of 8 obs.

APR 10, 1993 17h 58m 07.25±1.29s
 8.387 S ±6.6km 111.254 E ±7.3km
 DEPTH = 88.2 ± 12.7 km
 5.0mb (12 obs.)
 JAWA, INDONESIA (277)

LEM 3.92 293 iPd 59 07.00 0.5
 iS 59 54.00
 KGM 13.01 322 eP 01 09.00 -1.1
 NANU 14.68 164 eP 01 24.00 -7.7X
 0.3s 26.00nm 5.0mb
 eS 03 53.00
 IPM 16.43 321 ePd 01 56.00 2.1
 KNA 18.61 115 eP 02 19.90 -0.7
 MEEK 19.45 160 eP 02 27.20 -2.4
 0.2s 34.00nm 5.3mb
 eS 05 46.00
 MTN 20.03 104 eP 02 36.00 0.4
 0.4s 75.00nm 5.4mb
 eS 06 12.00
 MRWA 21.20 168 eP 02 49.00 1.6
 eS 06 27.00
 BAL 22.69 168 eP 03 13.00 10.9X
 eS 07 06.00
 eS 03 04.50 -0.3

WARB 22.96 142 eP 03 04.50 -0.3
 0.3s 11.00nm 4.7mb
 e 03 18.00
 eS 07 14.00
 KLB 23.87 166 eP 03 28.00 14.4X
 eS 07 30.00
 MUN 23.92 170 eP 03 29.00 14.9X
 eS 07 44.00
 COOL 24.21 159 eP 03 31.00 14.0X
 eS 07 46.00
 WB2 25.13 120 iPc 03 26.00 0.2
 0.3s 12.50nm 4.8mb
 ePp 03 45.40 87kmX
 iS 08 08.10
 ASPA 26.48 128 iPc 03 37.90 -0.3
 0.6s 11.60nm 4.6mb
 eP 03 44.00 -1.1
 e 04 14.00
 eS 08 50.00
 QLP 36.12 124 eP 05 04.10 1.4
 STK 36.62 134 iPd 05 07.70 0.9
 0.4s 8.70nm 5.0mb
 CD2 39.73 350 eP 05 34.20 1.4
 GBA 40.06 303 P 05 35.00 -0.6
 XAN 42.25 357 eP 05 54.00 0.5
 LSA 42.52 334 P 05 56.80 0.5
 PKI 43.63 326 P 06 04.60 -0.5
 GUN 43.64 327 P 06 03.60 -1.6
 DMN 43.83 326 P 06 05.00 -1.7
 KKN 43.87 326 P 06 06.60 -0.4
 GKN 44.40 326 P 06 09.40 -1.7
 TIY 45.87 1 eP 06 23.60 1.1
 GTA 48.72 348 eP 06 45.00 0.1
 CN2 53.51 13 eP 07 20.40 -0.4
 1.0s 5.80nm 4.6mb

WMO 56.18 340 eP 07 40.20 -0.1
 AVY 62.34 253 eP 08 23.20 -0.1
 VTY 62.52 253 eP 08 24.30 -0.1
 ABM 62.69 252 eP 08 25.50 -0.2
 OPO 63.01 253 eP 08 23.20 -4.5X
 YAK 71.64 9 eP 09 20.20 -0.7
 SLR 80.11 245 iPc 10 09.70 0.1
 0.6s 19.00nm 5.1mb
 BUL 80.29 251 iPd 10 10.90 0.3
 SEK 80.49 243 eP 10 11.50 -0.1
 0.4s 10.00nm 5.0mb
 SPA 81.66 180 iPc 10 17.20 0.2
 0.9s 25.00nm 5.1mb
 OBN 88.17 326 eP 10 50.00 0.7
 WIN 90.63 247 eP 11 04.00 2.2
 0.5s 7.04nm 5.2mb
 SIV 154.62 197 PKP 18 06.40 15.0X
 CNCB 154.95 182 ePKP 17 55.00 2.5X
 ZOBO 155.50 181 ePKP 17 49.00 -4.3X
 S.D. = 1.1 on 36 of 45 obs.

APR 10, 1993 18h 21m 27.11±0.76s
 42.052 N ±6.4km 25.671 E ±7.2km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 2.9 (THE). Felt (III) in the
 Dimitrovgrad area.

KDZ 0.44 205 iPg 21 35.00 -1.2
 PLD 0.72 275 iPg 21 40.00 -1.3
 JMB 0.79 58 iPg 21 43.00 0.5
 ALN 1.19 166 ePg 21 48.42 -0.8
 iSg 22 04.54
 PVL 1.19 348 iP 21 49.00 -0.3
 PGB 1.22 295 iPg 21 40.00 -9.9X
 SRS 1.82 240 ePb 21 58.46 -0.2
 eSb 22 22.34
 VTS 1.90 287 eP 21 59.00 -1.1
 KKB 1.94 265 iP 22 01.00 0.6
 SOH 2.13 236 ePn 22 04.38 1.1
 eSn 22 32.38
 OUR 2.14 217 ePn 22 04.06 0.8
 eSn 22 32.82
 KNT 2.26 248 ePn 22 07.06 1.9
 eSn 22 36.02
 S.D. = 1.2 on 11 of 12 obs.

? APR 10, 1993 18h 29m 48.22±3.13s
 34.415 S ±13.3km 179.077 W ±34.3km
 DEPTH = 33.0km (normol)
 4.6mb (3 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.82 213 P 30 47.30 1.2
 PUZ 4.24 210 P 30 53.40 1.3
 S 31 39.00
 NOZ 4.80 208 eP 31 01.30 1.4
 KUZ 4.84 240 P 31 01.40 0.8
 URZ 4.92 218 P 31 01.40 -0.3
 eS 31 51.60
 OUZ 6.08 260 P 31 17.60 -0.6
 WAHZ 6.41 213 eP 31 20.80 -2.1
 PGZ 7.21 209 eP 31 32.00 -1.9
 MNG 7.55 213 eP 31 35.50 -3.3X
 eS 32 53.10
 RMO 28.75 277 eP 35 48.30 3.5X
 ASPA 42.16 272 iPd 37 40.20 0.8
 0.8s 9.20nm 4.6mb
 WB2 43.49 277 iPc 37 49.80 -0.5
 0.4s 15.80nm 5.1mb
 WRA 43.50 277 P 37 50.30 -0.1
 0.5s 3.00nm 4.3mb
 BAO 145.98 213 ePKP 49 28.30 2.3X
 0.7s 6.00nm
 id 49 45.00
 KAF 147.96 338 ePKP 49 35.10 7.5X
 0.4s 1.70nm
 KIC 151.60 168 (PKP) 49 45.70 11.0X
 APO 152.53 346 ePKP 49 43.50 8.9X
 0.4s 1.50nm
 NB2 152.54 349 PKP 49 44.30 9.6X
 0.7s 1.80nm
 S.D. = 1.4 on 11 of 18 obs.

APR 10, 1993 18h 46m 54.97±0.72s
 42.992 N ±6.9km 1.824 W ±7.3km
 DEPTH = 12.3 ± 4.3 km

10d 18h

PYRENEES (378)
ML 3.2 (LDG). mLg 3.2 (MDD).

ELIZ	0.28	51	iPg	47 02.00	1.1
			eSn	47 07.00	
BOH	0.61	79	Pg	47 06.86	-0.2
			Sg	47 16.78	
ECRI	0.63	233	iPg	47 06.40	-1.1
			eSn	47 14.00	
ELYF	0.64	73	Pg	47 07.59	0.1
MADF	0.75	78	Pg	47 09.67	0.2
			Sg	47 20.85	
ISSF	0.76	87	Pg	47 08.90	-0.7
			Sg	47 21.09	
ATE	0.83	83	Pg	47 10.60	-0.2
			Sg	47 23.30	
LHE	0.89	95	Pg	47 11.60	-0.2
			Sg	47 25.90	
ESCF	0.92	84	Pg	47 12.68	0.3
			Sg	47 25.86	
OGE	1.01	79	Pg	47 13.79	0.0
JAU	1.07	87	Pg	47 15.11	0.1
			Sg	47 30.63	
BTH	1.19	83	iPnc	47 16.00	-1.0
			iPg	47 19.00	
			i(Sn)	47 34.50	
			iSg	47 37.50	
			i	47 39.50	
EGRA	1.37	125	ePn	47 27.00	7.2X
			eSn	47 51.20	
EPF	1.59	88	Pn	47 23.80	0.8
			Sn	47 46.20	
ETOR	2.18	185	ePn	47 33.00	1.4
			eSn	47 59.20	
SALF	2.23	95	Pg	47 35.63	3.4X
LFF	2.69	43	Pn	47 40.10	1.4
LPO	2.76	51	Pn	47 40.90	1.2
			Sn	48 15.20	
GUD	2.92	217	ePn	47 42.30	0.1
			eSn	48 16.20	
RJF	3.34	45	Pn	47 48.30	0.4
			Sn	48 28.90	
CAF	3.41	54	Pn	47 50.00	1.0
			Sn	48 29.80	
ETER	3.52	100	ePn	48 02.50	12.0X
			eSn	48 45.00	
LSF	4.04	35	Pn	47 57.30	-0.6
			Sn	48 45.10	
TCF	4.38	40	Pn	48 02.00	-0.7
			Sn	48 53.70	
MAF	4.50	43	Pn	48 03.50	-0.9
			Sn	48 55.30	
SMF	5.44	46	Pn	48 16.00	-1.0
			Sn	49 17.00	

S.D. = 0.9 on 23 of 26 obs.

% APR 10, 1993 19h 11m 45.91±0.73s
44.429 N ± 6.0km 7.278 E ± 13.9km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.6 (GEN).

PZZ	0.15	301	P	11 49.51	0.0
			S	11 51.66	
STV	0.19	170	P	11 50.06	-0.1
			S	11 52.81	
ENR	0.23	153	P	11 50.93	0.1
			S	11 54.00	
BHB	0.41	359	P	11 54.50	0.1
			S	12 00.41	
RSP	0.72	359	P	12 00.04	-0.2
			S	12 09.05	

S.D. = 0.2 on 5 of 5 obs.

% APR 10, 1993 19h 22m 23.13±0.86s
26.407 S ± 6.6km 27.460 E ± 9.5km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY	0.52	179	eP	22 32.50	-1.1
			S	22 38.50	
KSR	0.74	317	e(P)	22 37.50	-0.5
			S	22 46.20	
SLR	1.00	48	eP	22 42.60	0.0
			S	22 54.80	
SEK	1.91	176	iPc	22 58.20	1.3

SWZ	2.06	248	S	23 20.50	
			eP	22 59.80	0.9
			S	23 23.20	
BLF	2.92	202	eP	23 10.50	-0.7
			S	23 46.50	

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

* APR 10, 1993 19h 45m 58.49±3.28s
38.429 N ± 28.4km 22.064 E ± 9.4km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.7 (THE).

AGG	0.63	19	ePg	46 10.56	-0.6
			eSg	46 20.32	
LIT	1.70	11	ePb	46 28.44	0.1
			eSb	46 50.84	
IGT	1.74	310	ePb	46 28.76	-0.2
PAIG	1.95	39	ePb	46 32.08	0.1
			iSb	46 57.42	
FNA	2.41	347	ePn	46 38.64	0.0
OUR	2.41	37	ePn	46 38.40	-0.2
GRG	2.54	6	ePn	46 41.48	1.1
SOH	2.59	22	ePn	46 41.52	0.4
			eSn	47 14.48	
KNT	2.80	13	ePn	46 43.56	-0.6
			eSn	47 17.96	
VAY	2.92	8	ePn	46 40.40	-5.3X
SRS	2.93	23	ePn	46 46.08	0.1
SKO	3.57	353	ePn	47 02.00	6.9X

S.D. = 0.6 on 10 of 12 obs.

* APR 10, 1993 20h 01m 40.20s
62.554 N 152.501 W
DEPTH = 139.2km
3.1mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

SKT	0.73	141	eP	02 01.57	-0.5
			eS	02 18.12	
BGL	1.30	178	eP	02 06.96	-0.3
CP2	1.30	174	eP	02 07.82	0.4
CRP	1.30	173	eP	02 06.19	-1.2
CPAM	1.32	172	eP	02 07.06	-0.4
CKN	1.34	173	eP	02 07.63	0.0
TRF	1.35	47	eP	02 07.64	-0.3
			eS	02 29.06	
CKL	1.36	177	eP	02 07.57	-0.4
SUA	1.37	142	eP	02 08.06	0.0
HUR	1.38	71	eP	02 07.53	-0.5
			S	02 28.51	
SPU	1.39	171	eP	02 07.42	-0.8
PWA	1.53	125	P	02 09.60	0.0
			S	02 31.50	
TTA	1.66	285	eP	02 09.40	-1.8
			eS	02 29.21	
GHO	1.85	113	eP	02 12.54	-0.9
			eS	02 38.60	
PLRM	1.86	120	eP	02 12.21	-1.1
PMR	1.86	120	eP	02 11.30	-2.0
			eS	02 36.52	
RND	1.87	61	eP	02 13.16	-0.5
			eS	02 38.05	
PMS	1.91	132	P	02 13.10	-1.0
			S	02 38.70	
SVW	2.07	227	eP	02 13.77	-2.3
RDW	2.08	184	eP	02 16.09	-0.2
SML	2.09	109	eP	02 15.02	-1.3
SLKM	2.33	151	eP	02 18.82	-0.3
PTE	2.37	134	eP	02 18.10	-1.5
SCM	2.53	104	eP	02 20.08	-1.7
MPA	2.56	143	eP	02 20.66	-1.4
MLY	2.61	17	eP	02 21.95	-0.8
WRH	2.76	44	eP	02 23.39	-1.2
SEW	2.87	148	eP	02 24.57	-1.4
CCB	2.97	43	eP	02 26.04	-1.2
CNPM	3.10	168	eP	02 28.53	-0.5
HDA	3.11	51	eP	02 28.25	-0.9
SDG	3.22	87	eP	02 29.95	-0.7
AUW	3.23	189	P	02 32.40	1.7
VLZ	3.25	113	eP	02 30.38	-0.6
PAX	3.26	80	eP	02 30.51	-0.7
KLU	3.28	106	eP	02 29.19	-2.3
			eS	03 07.86	
GLM	3.33	41	eP	02 31.08	-1.1
IMA	3.57	352	eP	02 33.16	-2.1

HIN	3.60	124	eP	02 33.42	-2.2
CVA	3.81	119	eP	02 37.35	-0.9
DOT	3.99	70	eP	02 39.05	-1.7
GLB	4.25	101	eP	02 42.70	-1.6
RAGM	4.34	117	eP	02 44.11	-1.3
CROM	4.81	108	eP	02 51.20	-0.8
TGL	4.95	107	eP	02 52.49	-1.2
BALM	5.05	103	P	02 53.40	-1.7
CTGM	5.54	102	P	03 00.60	-1.1
YAH	5.61	108	eP	03 01.46	-1.2
YKA	17.32	73	eP	05 32.30	-2.2

0.5s 0.50nm 3.1mb
49 obs. associated

APR 10, 1993 20h 01m 44.44±0.26s
8.076 S ± 4.9km 75.148 W ± 7.5km
DEPTH = 134.4km (12 depth phases)
4.7mb (21 obs.)
CENTRAL PERU (116)

NNA	4.23	203	iPd	02	47.70	-0.5
	0.4s	122.88nm	eS	03	22.00	
ARE	9.07	157	eP	03	55.00	1.1
ZOBO	10.65	141	Pc	04	13.90	-1.2
LPB	10.86	141	P	04	16.80	-1.0
CNCB	11.15	142	P	04	21.80	0.1
CCH	12.76	137	P	04	41.50	-1.0
SIV	15.85	121	P	05	27.00	5.6X
			i	05	35.80	
YJA	16.81	148	ePc	05	35.00	1.3
SDV	17.44	15	eP	05	41.50	0.3
CAR	20.19	24	eP	05	54.50	-16.3X
TCA	25.15	158	eP	06	58.00	-0.9
PPD	26.82	124	eP	07	13.50	-0.6
LTX	46.24	325	(P)	09	56.62	-1.4
WMOK	48.09	334	(P)	10	13.48	1.1
	0.8s	2.00nm				3.9mb
			eP	10	42.80	127km
ALO	52.02	327	eP	10	42.18	-0.3
	0.9s	2.09nm				4.0mb
			eP	11	13.59	135km
LMN	54.48	9	eP	11	02.00	1.8
			pP	11	32.00	127km
SRU	57.28	328	eP	11	19.42	-1.1
			eP	11	51.69	136km
ARUT	57.96	325	(P)	11	24.89	-0.4
DUG	59.29	327	eP	11	33.78	-0.6
	0.8s	2.49nm				4.3mb
			eP	12	05.16	131km
ULM	60.82	345	ePc	11	45.30	0.8
			pP	12	18.00	136km
JAO	61.64	360	eP	11	47.50	-2.4
			pP	12	20.90	139km
ORV	63.90	321	eP	12	05.14	0.0
FCC	68.35	350	eP	12	34.50	1.6
			pP	13	08.50	139km
LIC	71.35	81	P	12	51.60	-0.5
TIC	71.44	80	P	12	52.30	-0.3
LKO	71.45	77	P	12	52.04	-0.6
KIC	71.66	81	P	12	53.60	-0.3
FR8	71.79	3	eP	12	52.50	-1.1
	0.9s	14.00nm				4.7mb
			pP	13	27.00	140km
YKA	76.62	342	eP	13	19.50	-2.0
	0.6s	4.30nm				4.4mb
SPA	81.98	180	iPd	13	51.30	0.9
	1.1s	25.60nm				4.9mb
EPF	85.01	45	eP	14	07.30	1.2
	1.1s	14.15nm				4.7mb
LPF	85.49	40	eP	14	07.10	-1.2
MFF	85.66	42	eP	14	09.00	-0.2
	0.8s	6.45nm				4.6mb
GRR	85.72	40	eP	14	08.10	-1.3
LFF	85.80	44	iPc	14	10.50	0.6
	0.6s	5.75nm				4.6mb
LPO	86.04	44	eP	14	11.60	0.5
INK	86.36	342	eP	14	13.00	0.9
	1.0s	6.00nm				4.5mb
			pP	14	50.00	146kmX
CAF	86.71	44	eP	14	14.50	0.1
	0.7s	3.00nm				4.3mb
BGF	87.64	42	eP	14	18.70	-0.1
	1.1s	14.15nm				4.9mb
MBC	88.03	350	ePd	14	20.80	0.7
	0.8s	14.00nm				5.0mb
			pP	14	55.50	135km

KLU	88.05	333	eP	14	20.33	-0.2	BRS	25.49	255	iPc	39	40.50	0.9	DEPTH = 116.2km (29 depth phases)
			epP	14	54.71	134km	ARMA	26.76	249	iPc	39	51.10	0.2	5.1mb (21 obs.)
SMF	88.33	43	eP	14	22.10	0.0		0.7s	12.00nm				4.6mb	NORTHERN CHILE (123)
	0.9s		7.20nm			4.7mb	RMO	29.07	258	iPd	40	11.40	0.5	Mw 5.3 (HRV).
LOR	88.49	42	eP	14	22.40	-0.5	CNB	29.60	239	iPc	40	15.30	-0.1	CENTROID, MOMENT TENSOR (HRV)
WIN	89.01	113	iPc	14	27.00	0.9		1.0s	32.00nm				4.9mb	Data Used: GDSN
	0.6s		8.67nm			5.0mb	CAN	29.89	240	eP	40	17.40	-0.5	L.P.B.: 32S, 50C
FBA	90.01	336	eP	14	29.01	-0.6	CMS	31.84	248	iPd	40	34.00	-0.4	Centroid Location:
	0.7s		6.16nm			4.8mb		0.6s	5.00nm				4.3mb	Origin Time 21:01:34.2 0.3
			(pP)	15	03.45	133km	OLP	33.12	257	eP	40	45.10	-0.1	Lat 22.39S 0.03 Lon 68.80W 0.04
LPL	90.05	44	iPc	14	31.30	0.8	TOO	33.19	237	iPc	40	45.90	0.1	Dep 120.8 1.8 Half-duration 1.1
	0.8s		11.15nm			5.0mb		0.4s	15.00nm				4.9mb	Moment Tensor; Scale 10**16 Nm
LPG	90.06	44	eP	14	31.50	0.9	BFD	35.39	238	eP	41	03.60	-0.5	Mrr=-6.34 0.27 Mtt=-2.15 0.47
	0.8s		11.15nm			5.0mb	STK	35.47	248	iPc	41	04.80	0.0	Mff= 8.49 0.50 Mrt= 1.98 0.27
DAG	90.55	11	eP	14	30.00	-1.8		0.5s	3.30nm				4.2mb	Mrf=-8.43 0.31 Mtf= 0.90 0.44
	0.8s		6.72nm			4.8mb	ASPA	42.75	260	iPc	42	03.70	-0.2	Principal Axes:
BSF	90.55	42	eP	14	32.10	-0.5		0.7s	16.30nm				4.7mb	T Vol= 12.30 Plg=24 Azm= 90
CDF	90.98	41	eP	14	34.30	-0.2	WB2	43.08	266	iPc	42	06.10	-0.4	N -1.60 13 354
	0.8s		3.75nm			4.6mb		0.5s	24.10nm				5.0mb	P -10.70 62 238
GEC2	95.26	42	eP	14	55.80	1.6	WRA	43.09	266	P	42	06.80	0.2	Best Double Couple:Ma=1.1*10**17
	0.8s		0.51nm			3.9mb		0.8s	5.80nm				4.2mb	NP1:Strike=206 Dip=24 Slip= -56
			e	15	03.90	25kmX	NANU	59.50	257	iPc	44	06.10	0.2	NP2: 349 71 -104
STK	126.99	220	ePKP	20	34.60	0.0		0.4s	12.00nm				4.6mb	
			e	21	07.30		HFS	142.33	349	ePKP	53	24.70	-0.1	
ASPA	137.56	221	ePKP	20	50.50	-4.5X		0.3s	1.50nm					
	0.9s		5.60nm					S.D. = 0.4 on 17 of 17 obs.						
			e	21	27.60									
WB2	139.77	226	ePKP	20	49.90	-9.2X								
	0.6s		4.90nm											
			e	20	58.50									
			e	21	31.50									
WRA	139.78	226	PKP	20	53.00	-6.1X								
	0.7s		0.90nm											
MTN	146.63	232	ePKP	21	12.00	1.1								
	0.4s		69.00nm											
HHC	146.82	351	ePKP	21	11.50	0.8								
NDI	146.87	48	ePKP	21	11.80	0.8								
BTO	147.29	353	ePKP	21	14.00	2.5X								
POO	148.14	68	iPKPc	21	16.00	2.7X								
GTA	148.48	7	PKP	21	17.00	3.6X								
TIY	149.71	348	ePKP	21	20.00	4.7X								
LZH	152.10	2	ePKP	21	26.40	7.4X								
	1.2s		23.00nm											
GKN	152.48	41	PKP	21	20.40	0.6								
GBA	152.53	76	PKPd	21	28.00	8.1X								
HYB	152.75	68	ePKP	21	20.40	0.2								
			e	21	28.00									
KKN	153.04	41	PKP	21	21.00	0.3								
DMN	153.05	41	PKP	21	21.40	0.7								
PKI	153.27	41	PKP	21	21.60	0.5								
GUN	153.34	40	PKP	21	21.60	0.4								
XAN	153.89	352	PKP	21	21.50	0.1								
	S.D. = 1.0					on 60 of 71 obs.								

10d 21h

		epP	12	13.72	118km	NEW	82.65	330	eP	13	37.86	-0.2	ZOBO	6.48	5	P	49	24.40	-1.5		
		esP	12	25.77			1.0s	11.52nm			4.7mb					LR	51	38.00			
TBR	63.57	356	(P)	11	46.43	-0.4	DPW	82.88	329	iPd	13	39.83	0.6	ARE	6.78	337	eP	49	25.00	-4.7X	
MEO	63.61	333	iPc	11	45.40	-1.8			epP	14	09.71	116km				iS	51	01.00			
WMOK	63.65	333	eP	11	45.46	-2.0			esP	14	21.00		RTLL	8.54	178	ePd	49	53.00	-0.6		
	0.6s	3.34nm			4.4mb		MAW	83.32	163	P	13	43.59	2.4	ZON	8.75	180	eP	49	57.60	1.2	
		epP	12	13.84	115km	SAW	83.34	328	P	13	41.98	0.4	CFA	8.83	177	ePd	49	56.40	-1.0		
OCO	63.79	334	iPc	11	47.00	-1.3	BLF	83.55	119	e(P)	13	44.10	0.7	RTCV	9.07	179	ePc	49	59.60	-1.1	
NVL	65.85	159	(P)	12	02.00	0.8	WTV	83.60	328	P	13	43.81	0.9	TCA	9.31	157	iP	50	03.10	-0.9	
		e	12	30.00	113km	FCC	83.66	347	ePc	13	45.50	2.6	SIV	9.88	48	P	50	20.00	8.3X		
RSNY	66.99	356	eP	12	07.88	-0.8			pP	14	26.50	164kmX	MRA	9.99	165	ePc	50	12.10	-0.9		
	0.8s	19.34nm			5.1mb		FMW	83.93	327	P	13	45.50	0.7	MDZ	10.09	181	e(P)	50	29.50	15.0X	
		epP	12	36.20	114km	BMW	84.43	326	P	13	49.25	2.1	PEL	10.49	189	eP	50	26.00	6.2X		
ALO	67.37	327	iPd	12	11.60	0.1	JCW	84.91	328	P	13	49.23	-0.2	RFA	11.97	179	ePd	50	37.00	-2.4	
	1.2s	74.91nm			5.5mb		SEK	85.01	118	eP	13	51.70	1.0	NNA	13.20	323	iPc	51	03.00	7.4X	
		epP	12	40.21	115km	PRY	85.43	117	e(P)	14	05.00	12.2X		0.8s	17.16nm			4.6mb			
		esP	12	52.59		MCW	85.68	328	(P)	13	54.03	0.7			eS	53	22.80				
SPA	67.57	180	iPd	12	13.20	0.8	FRB	86.03	0	eP	13	54.00	-0.5	PPD	16.14	91	eP	51	31.30	-1.8	
	0.6s	21.14nm			5.2mb	SLR	86.56	116	eP	14	01.00	2.6			e	51	34.20				
TUC	67.66	322	ePd	12	13.65	0.4			1.0s	20.00nm		5.1mb	PPD	16.14	91	eP	51	35.30	2.2		
	1.8s	74.92nm			5.3mb	BUL	89.06	111	eP	14	11.30	0.9	SDV	31.50	356	eP	54	02.00	-3.4X		
		epP	12	42.77	117km	BCAO	89.35	85	iPd	14	20.00	8.3X	MIAR	61.68	337	iPd	57	58.78	-1.5		
		esP	12	55.99			1.0s	10.00nm			4.9mb			0.5s	23.27nm			5.5mb			
LMN	68.20	3	eP	12	18.00	1.8			ic	14	42.20	81kmX	LTX	61.74	325	(P)	58	00.64	-0.3		
KIC	69.03	73	(P)	12	20.34	-1.6	CSY	91.42	180	P	14	24.00	3.8X	ELC	62.76	342	iPd	58	05.07	-2.3	
CBM	69.18	1	eP	12	21.50	-0.6	YKA	92.18	341	eP	14	23.70	0.1			epP	58	30.43	102km		
	1.4s	52.98nm			5.2mb		0.8s	9.80nm			5.1mb				esP	58	41.58				
		epP	12	50.46	116km	INK	101.93	340	ePd	15	09.00	1.3	FVM	63.76	341	iPd	58	11.94	-2.1		
		esP	13	03.29		MBC	103.27	349	ePd	15	14.00	0.4		0.5s	69.35nm			5.8mb			
EEO	69.49	353	eP	12	27.50	3.4X	ASPA	128.95	207	iPKPc	20	23.20	0.4			epP	58	37.64	103km		
LKO	69.75	70	P	12	25.52	-0.9			e	20	55.30				esP	58	49.07				
GLA	70.54	320	eP	12	31.65	0.8			i	21	08.70		MEO	63.86	333	iPd	58	12.90	-1.8		
		epPd	13	00.80	116km	WB2	132.01	210	iPKPc	20	29.20	0.6	EMM	67.18	1	eP	58	34.78	-0.9		
		esP	13	13.79			0.7s	2.70nm					RSNY	67.18	356	eP	58	34.59	-1.2		
GLD	70.65	331	ePd	12	32.07	0.5			e	21	01.30			0.8s	26.53nm			5.2mb			
	1.2s	29.56nm			5.0mb	WRA	132.02	210	PKP	20	25.40	-3.2X	SPA	67.38	180	iPd	58	39.00	1.9		
		epP	13	00.86	115km		0.5s	7.00nm						0.5s	22.22nm			5.3mb			
GOL	70.67	331	ePc	12	31.23	-0.6	POO	144.99	90	ePKP	20	40.00	-12.3X			i	59	04.50	101km		
	1.1s	39.45nm			5.2mb	KUSJ	145.43	314	ePKP	20	51.80	-0.5	ALO	67.63	327	iPd	58	39.15	0.1		
		epPd	13	01.10	119km	KSH	145.81	52	ePKP	20	54.70	1.4		0.6s	11.75nm			5.0mb			
		iS	13	13.60		ASAJ	146.29	317	ePKP	20	55.40	1.7			epP	59	05.39	104km			
PV08	71.31	328	ePd	12	36.22	0.4	HOOJ	146.68	314	ePKP	20	56.90	2.6X	LMN	68.37	3	ePd	58	44.30	1.1	
		epP	13	04.74	113km	GBA	146.88	100	PKP	20	57.00	1.6	LIC	68.59	73	P	58	43.70	-1.5		
		esP	13	17.07		NDI	148.95	72	ePKP	21	00.50	2.1X	TIC	68.79	73	P	58	45.00	-1.4		
PV10	71.35	328	eP	12	35.86	0.0	IRK	149.90	8	ePKP	21	00.00	0.9	KIC	68.91	73	P	58	45.60	-1.5	
		esP	13	17.66			1.8s	37.00nm					EEO	69.70	352	eP	58	53.00	1.7		
PV09	71.49	328	eP	12	37.25	0.5			e	21	35.50		GLA	70.80	320	eP	58	59.39	1.1		
PEC	72.52	319	eP	12	43.27	0.7			e	21	44.20		GOL	70.92	331	ePc	58	58.94	-0.3		
	1.2s	39.05nm			5.1mb	LEM	150.59	173	iPKPc	21	09.20	7.7X		0.8s	8.40nm			4.6mb			
		esP	13	25.27		WMO	151.34	37	PKP	21	08.40	6.7X			epP	59	25.86	106km			
SRU	72.65	327	iPd	12	43.70	0.2	MAT	152.70	307	ePKP	21	12.00	8.2X	PV08	71.57	328	eP	59	03.46	0.3	
		epP	13	12.38	113km	GUN	156.63	72	PKP	21	00.00	-9.8X	PV10	71.60	328	eP	59	02.83	-0.5		
		iS	13	25.15		GTA	160.67	27	ePKP	21	15.00	1.3	SRU	72.91	327	iPd	59	11.01	0.1		
MSU	73.04	326	iPd	12	46.63	0.8	TIY	164.86	356	ePKP	21	14.80	-3.0X			epP	59	37.26	102km		
		epP	13	16.05	116km		S.D. = 1.4	on 95 of 113 obs.							esP	59	48.37				
		esP	13	28.28									MSU	73.30	326	iPd	59	14.17	0.9		
ARUT	73.17	325	eP	12	47.80	1.3	% APR 10, 1993 21h 29m 26.57±1.11s								ePcP	59	29.67				
		epP	13	17.80	119km		28.676 S ±10.0km	67.617 W ±14.0km							ePc	59	40.31	102km			
		esP	13	29.44			DEPTH = 33.0km (normal)								esP	59	51.42				
GSC	73.28	321	eP	12	48.11	1.0	LA RIOJA PROVINCE, ARGENTINA (138)						ARUT	73.43	324	eP	59	15.11	1.2		
		epP	13	17.73	117km	CYA	1.62	82	iPd	29	53.30	0.1			epP	59	41.43	102km			
EMUT	73.34	328	ePd	12	48.33	0.8			S	30	05.40				esP	59	52.81				
TPNV	74.12	322	eP	12	53.68	1.7	RTPR	1.89	150	ePc	29	57.10	0.1	DUG	74.88	327	iPc	59	22.87	0.6	
	0.9s	21.72nm			5.0mb				S	30	20.00			0.7s	4.37nm			4.4mb			
DUG	74.63	327	ePc	12	55.39	0.5	FSA	2.95	29	iP	30	12.10	-0.1	BW06	75.28	330	iPd	59	24.22	-0.3	
	1.2s	43.84nm			5.1mb				(S)	30	45.00			0.5s	2.05nm			4.2mb			
		epP	13	25.66	120km	CFA	2.97	190	ePd	30	12.10	-0.4			76.48	356	ePc	59	29.00	-1.7	
BW06	75.03	330	ePd	12	56.87	-0.3			S	30	47.20		ULM	76.56	342	eP	59	32.50	1.2		
	0.7s	4.72nm			4.4mb	RTBS	3.37	208	e(P)	30	18.50	0.3	LCCM	78.70	331	eP	59	44.00	0.6		
TNP	75.46	323	eP	13	00.93	1.2	TCA	3.73	136	iP	30	20.00	-3.3X	ORV	79.17	321	ePd	59	46.89	1.0	
	0.8s	7.34nm			4.5mb				(S)	30	57.00		LBFM	80.58	322	ePd	59	53.97	0.3		
		epP	13	30.06	114km		S.D. = 0.4	on 5 of 6 obs.					DPW	83.13	329	iPd	00	07.11	0.6		
		esP	13	42.37									FCC	83.89	347	eP	00	12.50	2.5		
MTUM	75.72	321	eP	13	03.04	1.8	APR 10, 1993 21h 47m 50.92±0.30s						FRB	86.21	0	eP	00	20.50	-0.9		
PHAM	75.79	319	eP	13	02.87	1.5	22.757 S ± 4.6km	68.742 W ± 8.1km					BUL	88.82	111	iPd	00	36.70	1.5		
JAQ	76.28	356	eP	13	02.00	-1.7	DEPTH = 102.5km (8 depth phases)						YKA	92.42	341	eP	00	50.50	-0.2		
ULM	76.32	343	ePc	13	06.00	1.9	5.0mb (10 obs.)							0.6s	6.80nm			5.1mb			
		pP	13	32.50	102kmX	NORTHERN CHILE (123)							ASPA	128.87	207	iPKPc	06	49.50	0.8		
LCCM	78.45	331	eP	13	16.80	0.7								0.6s	7.60nm						
ORV	78.91	321	ePd	13	19.72	1.2	YJA	3.05	80	iPc	48	40.50	1.8	WB2	131.94	210	iPKPc				

MRRJ 148.38 315 ePKP 07 27.50 4.4X
 HYB 148.87 94 ePKP 07 29.00 4.3X
 LEM 150.38 173 iPKPd 07 35.20 7.9X
 MAT 152.96 367 ePKP 07 38.00 7.8X
 S.D. = 1.3 on 53 of 67 obs.

SRS 0.58 8 iPg 32 54.30 -0.3
 PAIG 0.64 166 ePg 32 55.46 -0.1
 KNT 0.76 325 ePg 32 57.78 0.1
 S.D. = 0.3 on 5 of 5 obs.

STK 0.4s 6.20nm 4.4mb
 26.96 197 eP 51 24.40 -0.6
 0.8s 2.10nm 3.8mb
 YKA 97.67 28 eP 59 14.60 -1.6
 0.6s 0.30nm 4.0mb
 GEC2 123.84 327 ePKPc 04 40.70 0.6
 0.6s 0.75nm
 S.D. = 1.2 on 9 of 10 obs.

APR 10, 1993 22h 32m 24.79±0.31s
 53.605 N ±10.0km 35.202 W ±4.3km
 DEPTH = 10.0km (geophysicist)
 4.6mb (12 obs.) 3.9msz (3 obs.)
 NORTH ATLANTIC OCEAN (402)

APR 11, 1993 00h 03m 24.76±1.62s
 40.347 N ±5.5km 126.398 W ±15.6km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA(34)
 MD 3.5 (GM).

? APR 11, 1993 01h 49m 23.26±1.22s
 6.018 S ±17.4km 150.556 E ±24.0km
 DEPTH = 33.0km (normol)
 4.3mb (4 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

FRB 19.84 314 eP 36 56.50 -1.7
 LMN 20.53 260 eP 37 07.00 1.3
 CBM 21.93 266 eP 37 20.15 0.3
 0.9s 21.95nm 4.6mb
 LDF 22.44 89 eP 37 25.70 0.8
 JAO 23.76 287 eP 37 37.00 -0.8
 HYF 24.70 89 eP 37 47.50 0.6
 TCF 24.93 92 eP 37 49.60 0.4
 BGF 25.17 91 eP 37 51.70 0.3
 0.9s 20.80nm 4.8mb

KMPM 1.74 87 ePc 03 55.27 0.0
 FHC 1.89 75 eP 03 56.33 -1.1
 0.8s 04 16.33
 LGPM 2.77 77 eP 04 09.12 -1.1
 0.8s 04 16.33
 NTYM 3.49 123 eP 04 20.40 0.2
 0.8s 05 01.12
 LBFM 3.56 72 eP 04 21.73 0.3
 0.8s 05 01.11

PMG 4.76 225 eP 50 35.00 0.4
 0.8s 51 28.00
 RMO 20.43 185 iPc 54 00.80 0.2
 0.8s 35.00nm 4.8mb
 WB2 20.97 227 iPc 54 04.80 -1.3
 0.8s 10.10nm 4.3mb

MAF 25.18 92 eP 37 51.60 0.1
 1.0s 13.80nm 4.6mb
 SSF 25.31 89 eP 37 52.80 0.0
 0.7s 7.40nm 4.5mb
 AVF 25.36 90 eP 37 53.10 -0.1
 1.2s 24.10nm 4.8mb
 LOR 25.42 88 eP 37 53.90 0.1
 1.2s 19.95nm 4.7mb

DBO 3.64 39 P 04 22.11 -0.3
 LMEM 3.69 85 eP 04 24.58 1.3
 ORV 3.85 100 eP 04 26.57 1.3
 0.8s 05 09.07
 HSO 4.02 37 P 04 27.47 -0.3
 RNO 4.07 28 P 04 28.12 -0.4
 COE 4.81 128 ePd 04 39.10 0.1
 ARN 4.84 127 iPd 04 39.13 -0.2
 0.8s 05 33.95

QLP 21.32 196 iPc 54 10.20 0.6
 ASPA 23.76 221 iPd 54 34.80 1.0
 0.4s 4.30nm 4.3mb
 STK 27.06 197 eP 55 03.50 -1.2
 1.6s 1.60nm 3.4mb
 GEC2 123.89 327 ePKP 08 19.70 -0.1
 0.7s 0.50nm

Z 23s 0.35um 3.8msz
 LBF 25.63 89 eP 37 56.10 0.3
 1.3s 31.05nm 4.8mb
 SMF 25.72 90 eP 37 56.90 0.3
 0.7s 7.70nm 4.5mb
 HAU 26.55 85 eP 38 04.10 -0.2
 Z 22s 0.30um 3.8msz
 ELUO 26.66 114 eP 38 05.70 0.3
 EHUE 27.40 112 eP 38 12.00 -0.2
 MOX 28.49 77 eP 38 25.70 3.8X
 Z 18s 0.20um 3.8msz

SSOR 5.36 32 P 04 47.55 0.7
 BPO 5.53 37 P 04 49.15 -0.2
 VBEM 5.89 35 P 04 54.16 -0.2
 VIPM 5.96 44 P 04 54.88 -0.5
 VLMM 6.09 30 P 04 58.15 1.1
 VFP 6.15 34 P 04 57.56 -0.4
 SHW 6.58 26 eP 05 04.73 0.6
 VGB 6.61 37 iPd 05 04.15 -0.2
 BCH 7.18 134 eP 05 11.68 -0.7
 LON 7.21 26 eP 05 12.78 0.0
 LCCM 11.94 58 eP 06 34.90 16.7X
 S.D. = 0.7 on 22 of 23 obs.

BCAO 132.21 271 iPKPc 08 37.00 0.4
 0.6s 6.00nm
 S.D. = 1.0 on 8 of 8 obs.
 * APR 11, 1993 03h 02m 43.95±0.76s
 15.066 N ±7.8km 120.320 E ±15.9km
 DEPTH = 33.0km (normol)
 4.3mb (1 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

EEO 28.60 274 eP 38 25.00 2.2
 FCC 32.24 303 eP 38 57.00 2.1
 ULM 36.57 290 eP 39 33.50 1.2
 MBC 37.42 337 eP 39 39.00 -0.1
 0.9s 4.00nm 4.2mb
 SKO 38.79 84 eP 39 50.30 -0.7
 Z 18s 0.62um 4.5msz
 LR 55 58.00

? APR 11, 1993 00h 49m 11.43±1.23s
 17.644 S ±15.6km 168.432 E ±23.1km
 DEPTH = 33.0km (normol)
 4.4mb (4 obs.)
 VANUATU ISLANDS (186)

QVP 0.79 124 iPc 02 59.00 0.3
 0.8s 03 11.80
 TGY 1.13 148 iPd 03 04.00 0.5
 0.8s 03 28.00
 BCP 1.37 12 eP 03 12.00 4.9X
 PGP 1.67 158 ePd 03 11.40 0.1
 SZP 2.48 3 ePd 03 22.50 -0.3
 CVP 2.99 29 eP 03 35.00 4.8X
 PIP 3.25 5 eP 03 34.00 0.1
 WB2 37.43 158 iPc 09 54.80 -1.2
 0.6s 3.10nm 4.3mb

OBN 40.17 58 eP 39 59.00 -3.2X
 YKA 40.35 315 eP 40 02.50 -1.1
 0.8s 1.30nm 3.7mb
 INK 44.49 328 eP 40 37.00 -0.3
 BW06 48.57 289 eP 41 08.50 -1.7
 0.5s 2.22nm 4.5mb
 PV10 51.18 284 eP 41 30.48 0.2
 TIC 52.84 141 (P) 41 41.20 -1.4
 MSU 52.89 287 eP 41 42.22 -0.9
 SLKM 55.03 327 eP 41 57.47 -0.8
 MA10 64.28 63 eP 43 03.00 0.6
 BAO 65.60 118 ePc 43 09.00 -2.0
 1.0s 5.00nm 4.7mb

PVC 0.15 230 iPc 49 16.40 -1.1
 0.8s 49 24.50
 BKM 0.18 262 iP 49 17.80 -0.1
 0.8s 49 27.50
 DZM 4.78 203 iPc 50 23.00 -0.1
 0.8s 51 22.90
 CMS 24.68 232 eP 54 31.80 1.0
 STK 28.10 235 eP 55 05.10 2.8X
 0.7s 2.40nm 4.0mb

CPA 47.64 301 P 11 19.70 0.6
 S.D. = 0.8 on 7 of 9 obs.
 APR 11, 1993 03h 05m 18.19±0.55s
 44.809 N ±3.3km 6.770 E ±6.8km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.1 (LDG), 1.6 (GEN).

SIV 72.79 206 eP 44 08.00 12.9X
 ZOBO 75.11 213 P 44 08.70 -0.6
 GKN 83.52 51 P 44 54.60 0.4
 KKN 84.00 50 P 44 56.60 -0.1
 DMN 84.07 50 P 44 57.60 0.5
 GUN 84.17 50 P 44 58.40 0.7
 PKI 84.24 50 P 44 58.20 0.1
 GBA 92.03 64 P 45 35.00 -0.1
 WRA 145.45 18 PKP 52 01.50 -3.0X
 0.7s 1.00nm

ASPA 32.81 254 iPd 55 42.90 -1.2
 0.5s 7.40nm 4.8mb
 LZH 81.10 312 eP 01 26.00 0.8
 1.5s 32.00nm 5.1mb
 YKA 99.61 27 eP 02 52.00 -0.4
 0.8s 0.30nm 3.9mb
 BAO 147.74 250 ePKPc 08 57.00 4.6X
 0.8s 4.00nm
 S.D. = 1.1 on 7 of 9 obs.

RRL 0.11 5 P 05 21.24 0.0
 S 05 23.90
 BHB 0.35 84 P 05 26.14 0.7
 S 05 32.73
 PZZ 0.38 142 P 05 26.18 0.1
 S 05 32.64
 RSP 0.49 45 P 05 29.02 0.9
 S 05 37.35

ASPA 148.99 20 iPKPc 52 13.00 2.9X
 1.2s 5.70nm
 S.D. = 0.9 on 38 of 43 obs.
 % APR 10, 1993 23h 32m 42.86±0.86s
 40.545 N ±7.7km 23.480 E ±11.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.6 (THE).

* APR 11, 1993 01h 45m 47.31±1.36s
 6.076 S ±17.7km 150.382 E ±23.0km
 DEPTH = 61.3 ±15.0 km
 4.2mb (5 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

LPG 0.69 359 Pg 05 31.60 -0.4
 Sg 05 41.80
 STV 0.69 145 P 05 30.99 -0.9
 S 05 41.52
 LSD 0.70 23 P 05 31.86 -0.4
 S 05 42.66
 LPL 0.71 358 Pg 05 32.10 -0.2
 Sg 05 42.40

SOH 0.29 341 iPg 32 49.14 0.1
 eSg 32 53.25
 OUR 0.44 119 ePg 32 51.94 0.2
 eSg 32 58.10

RAB 2.58 44 iPd 46 28.00 0.6
 0.5s 84.51nm
 LAT 3.41 260 eP 46 46.40 7.2X
 PMG 4.60 224 eP 46 55.00 -0.9
 eS 47 51.00
 RMO 20.36 184 iPc 50 21.10 -0.3
 0.8s 49.00nm 4.9mb
 WB2 20.80 227 iPd 50 25.90 0.0
 0.7s 10.60nm 4.3mb
 i 50 32.50
 QLP 21.22 195 iPc 50 30.60 0.5
 ASPA 23.61 221 iPc 50 55.40 1.8

ENR 0.74 141 P 05 31.68 -1.2
 S 05 42.71
 FRF 1.25 184 Pg 05 42.20 0.7
 Sg 05 58.30
 LRG 1.39 192 Pg 05 43.90 0.4
 Sg 06 01.60
 LMR 1.49 187 Pg 05 45.30 0.4
 Sg 06 04.50
 S.D. = 0.7 on 12 of 12 obs.

11d 03h

& APR 11, 1993 03h 10m 35.39s
58.375 N 153.258 W

DEPTH = 59.4km

2.9mb (1 obs.)

KODIAK ISLAND REGION

<AEIC>. ML 2.9 (AEIC).

(13)

SYI	0.51	62	iP	10 46.63	-0.9
			eS	10 55.57	
CDD	0.59	340	iP	10 47.74	-0.7
			eS	10 58.44	
KDC	0.75	147	eP	10 49.83	-0.4
			eS	11 01.88	
AUI	0.97	355	eP	10 52.37	-0.7
			eS	11 05.54	
MCNL	0.99	326	iP	10 52.58	-0.8
			eS	11 06.00	
AUE	0.99	357	iP	10 53.02	-0.4
AUH	1.00	355	iP	10 52.81	-0.8
AUL	1.01	355	iP	10 53.09	-0.7
PDB	1.50	342	iP	10 58.93	-1.4
CNPM	1.56	41	eP	11 00.30	-0.9
			eS	11 22.27	
INE	1.69	3	eP	11 01.97	-1.3
			eS	11 22.41	
INW	1.70	2	iP	11 01.95	-1.3
			eS	11 21.94	
BRLLK	1.86	40	eP	11 03.89	-1.5
RED	2.07	7	eP	11 07.33	-1.0
RS1	2.11	7	eP	11 07.83	-1.2
RS2	2.11	7	iP	11 08.09	-1.0
RSO	2.11	7	iP	11 08.04	-1.0
RDW	2.13	6	iP	11 08.20	-1.1
NCT	2.20	4	iP	11 09.18	-1.1
DFR	2.24	7	eP	11 09.81	-1.0
SEW	2.61	47	iP	11 13.28	-2.7
SLKM	2.64	35	iP	11 14.17	-2.3
CKL	2.87	9	iP	11 18.29	-1.5
SPU	2.88	12	iP	11 18.25	-1.6
CKT	2.88	10	eP	11 18.34	-1.6
MPA	2.91	42	eP	11 17.05	-3.1
CKN	2.91	10	eP	11 19.22	-1.1
BGL	2.93	8	eP	11 19.41	-1.2
CP2	2.94	10	eP	11 19.70	-1.2
CPAM	2.94	11	eP	11 19.76	-1.1
CRP	2.95	10	eP	11 19.10	-1.9
SVW	2.99	337	eP	11 19.11	-2.3
PTE	3.30	39	eP	11 22.86	-2.8
SUA	3.35	21	eP	11 25.26	-1.3
PMS	3.43	31	P	11 25.30	-2.3
SKT	3.72	13	eP	11 29.99	-1.6
VLZ	4.46	49	eP	11 39.41	-2.6
KLU	4.84	47	eP	11 44.36	-3.1
BALM	6.13	60	eP	12 02.66	-2.9
YKA	19.30	61	eP	14 54.40	-3.5
	0.5s		0.40nm		2.9mb
MBC	21.58	21	eP	15 21.00	-0.2
	41 obs.		associated		

APR 11, 1993 05h 08m 09.58± 0.66s

1.369 N ± 2.9km 126.183 E ± 4.0km

DEPTH = 57.8 ± 6.1 km

5.2mb (52 obs.)

NORTHERN MOLUCCA SEA

(266)

Mw 5.3 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.8.: 35S, 57C

Centroid Location:

Origin Time 05:08:13.9 0.4

Lot 1.69N 0.04 Lon 126.43E 0.04

Dep 43.8 2.6 Half-duration 1.1

Moment Tensor: Scale 10¹⁶ Nm

Mrr= 8.27 0.30 Mtt=-1.59 0.39

Mff=-6.68 0.51 Mrt= 2.29 0.61

Mrf= 5.12 0.61 Mtf=-0.46 0.36

Principal Axes:

T Vol= 10.22 Plg=71 Azm=301

N -1.76 6 192

P -8.46 18 100

Best Double Couple: Mo=9.3*10¹⁶

NP1: Strike=180 Dip=28 Slip= 76

NP2: 15 63 97

MNI	1.35	273	ePd	08 34.00	1.6
SWI	5.54	114	ePd	09 31.00	-0.4
DAV	5.71	354	eP	09 33.50	-0.4

BIP 6.81 1 ePc 09 48.50 -0.7

TLE 9.56 137 ePc 10 46.50

1.8s 5.00nm 4.3mb

PLP 9.81 353 ePd 10 31.50 0.9

KKM 10.98 295 ePc 10 49.00 2.4

0.7s 81.90nm 5.9mb

PGP 13.12 337 ePd 11 18.00 2.9

QCP 14.12 339 eP 11 31.00 2.9

KHK 14.31 227 eP 11 37.80 7.2X

0.6s 17 05.90

MTN 14.95 161 eP 11 37.00 -2.0

0.5s 130.00nm 5.4mb

BAG 15.93 340 eP 11 53.40 1.6

TRT 16.24 236 ePd 12 00.00 4.5X

1.3s 7.20nm 3.7mb X

CVP 16.79 345 eP 12 02.00 -0.4

SJI 16.99 238 ePc 12 09.20 4.3X

0.6s 14 23.00

KNA 17.20 172 eP 12 07.20 -0.3

LEM 20.24 246 ePc 12 41.80 -1.1

MDG 20.65 109 eP 12 45.70 -1.2

GUMO 22.12 56 eP 13 02.30 0.6

0.7s 167.10nm 5.6mb

PJG 22.12 56 eP 13 02.20 0.5

GUA 22.13 56 eP 13 02.10 0.3

0.6s 122.67nm 5.5mb

LAT 22.26 111 eP 13 02.50 -0.6

WRA 22.64 160 P 13 06.80 -0.1

0.7s 88.10nm 5.3mb

WB2 22.65 160 iPd 13 05.80 -1.1

0.8s 221.90nm 5.6mb

0.6s 17 09.00

KGM 22.86 272 ePc 13 10.50 1.5

PMG 23.48 118 eP 13 15.00 0.0

QIZ 23.76 319 P 13 17.80 0.1

N 13s 0.91um

GZH 24.93 331 P 13 29.20 0.3

Z 26s 1.41um 4.4MszX

IPM 25.32 278 ePc 13 32.90 0.1

NANU 25.96 203 iPc 13 38.80 0.3

0.4s 12.00nm 4.8mb

ASPA 25.99 164 iPc 13 38.10 -0.8

0.5s 63.40nm 5.4mb

0.6s 17 07.30

ePcP 18 03.00

eS 24 29.60

SNG 26.13 284 eP 13 40.60 0.4

WARB 27.39 179 eP 13 52.20 0.5

0.3s 10.00nm 4.9mb

MEEK 28.78 194 eP 14 03.60 -0.6

LOE 28.84 305 eP 14 04.50 -0.3

CTA 29.02 138 iPc 14 06.00 -0.4

1.5s 48.61nm 4.9mb

ic 14 10.50

eS 19 00.00

SSE 29.94 351 Pc 14 19.20 4.7X

Z 20s 0.50um 4.1MszX

S 19 03.00

KHT 30.34 297 eP 14 18.20 0.0

BDT 31.04 302 iPd 14 19.00 -5.3X

1.0s 5.50nm 4.2mb

WHN 31.11 340 eP 14 25.50 0.7

Z 22s 1.29um 4.5Msz

N 16s 1.50um

eS 19 20.00

GYA 31.22 325 iPd 14 25.20 -0.7

1.0s 29.00nm 5.0mb

Z 28s 1.54um 4.5MszX

N 15s 0.67um

E 15s 1.29um

S 19 24.00

NJ2 31.29 348 Pc 14 26.00 -0.4

Z 30s 0.77um 4.2MszX

CHG 31.84 305 ePc 14 30.40 -1.0

1.0s 19.75nm 4.9mb

MRWA 31.94 197 eP 14 31.70 -0.4

0.4s 8.00nm 4.9mb

FORT 32.02 177 eP 14 32.00 -0.7

COOL 32.43 188 eP 14 35.00 -1.4

KMI 32.71 318 Pc 14 38.50 -0.6

1.4s 90.00nm 5.4mb

Z 25s 2.10um 4.7MszX

N 15s 0.80um

pP 14 47.50 31kmX

eS 19 44.00

BAL 33.05 195 eP 14 41.50 -0.3

KLB 33.74 193 eP 14 47.20 -0.5

0.4s 14.00nm 5.2mb

MUN 34.49 195 eP 14 52.00 -2.1

NWA0 35.14 193 eP 14 59.80 0.1

TSRJ 35.19 14 P 14 59.50 -0.6

IIDJ 35.65 17 P 15 04.30 0.2

TIA 35.67 347 eP 15 02.70 -1.5

STK 36.15 157 iPc 15 07.70 -0.6

0.6s 28.80nm 5.4mb

e 16 30.90

ePcP 17 33.70

eS 20 42.40

eScS 25 18.70

XAN 36.29 335 P 15 07.90 -1.6

1.0s 17.00nm 4.9mb

Z 30s 0.74um 4.3MszX

N 14s 0.35um

E 14s 0.34um

S 20 40.00

CHJJ 36.49 18 P 15 09.00 -2.1

MTMJ 36.65 16 P 15 11.60 -1.0

MAT 36.73 16 eP 15 10.00 -3.1X

1.5s 152.78nm 5.7mb

Z 20s 0.35um 4.1MszX

eS 20 52.00

RKG 36.77 193 iPd 15 15.30 1.8

0.4s 15.00nm 5.3mb

DL2 37.59 354 P 15 20.00 -0.2

1.0s 180.00nm 6.0mb

NIJJ 37.60 17 P 15 18.50 -1.9

ADE 38.00 163 iPd 15 24.50 0.6

TIY 38.32 342 eP 15 25.60 -0.9

Z 30s 1.56um 4.6MszX

N 14s 0.51um

BRS 38.37 140 iPc 15 26.00 -1.0

0.7s 5.00nm 4.5mb

e 15 31.00

ePP 16 54.00

YAMJ 38.77 18 eP 15 30.40 0.2

BJI 39.55 348 eP 15 36.00 -0.6

1.0s 22.00nm 5.0mb

Z 28s 0.69um 4.3MszX

ePcP 17 44.50

eS 21 30.00

ARMA

GTA	44.85	331 P	16 17.50	-2.6	0.7s	1.20nm	4.7mb	eS	40 55.50					
		PcP	18 01.50		BRG	102.79	323 ePdiff	22 07.00	4.8X	GTA	16.17	16 eP	38 12.50	0.4
ASAJ	45.01	17 eP	16 21.10	0.0	WDC	105.13	47 PKP	26 40.00	12.7X		1.0s	10.00nm		3.9mb
GUN	46.70	308 P	16 33.80	-1.4		Z 20s	0.63um		5.2Msz	GBA	18.83	240 P	38 48.00	3.4X
PKI	46.92	307 P	16 35.40	-1.5	NEW	106.41	38 PKP	26 40.00	10.4X	WMO	20.54	347 P	39 02.00	-0.6
KKN	47.12	308 P	16 36.60	-1.7		Z 19s	2.64um		5.8Msz		1.0s	28.00nm		4.5mb
OMN	47.18	307 P	16 37.20	-1.7	BCAO	107.48	275 ePKPc	26 18.90	-13.7X			eS	42 44.60	
GKN	47.73	308 P	16 41.40	-1.6		0.6s	6.00nm			KSH	21.80	320 P	39 17.60	2.2
	0.8s	44.00nm		5.5mb	TPNV	110.88	49 PKP	26 50.00	11.5X		0.6s	50.00nm		5.1mb
HYB	49.44	292 ePc	16 54.50	-1.7		Z 20s	2.46um		5.8Msz			pP	39 38.00	96kmX
	1.0s	60.00nm		5.6mb	DUG	112.28	45 PKP	26 50.00	8.9X			sP	39 45.00	
GBA	49.72	287 P	16 57.00	-1.3		Z 19s	0.19um		4.7Msz	QUE	24.96	290 eP	39 47.80	1.6
IRK	53.93	344 ePd	17 28.80	-0.6	SRU	114.33	46 ePKP	26 45.62	0.5	MAIO	32.23	301 eP	40 53.00	1.7
	3.0s	119.00nm		5.4mb	PV10	115.69	46 ePKP	26 48.42	0.6	VR1	57.71	310 ePc	44 15.50	2.4
Z 18s		0.20um		4.2MszX	RSSD	116.37	38 ePKP	26 48.32	-0.6	MLR	58.27	310 iPc	44 19.50	2.2
		e	18 13.00			Z 21s	0.06um		4.2MszX	WB2	58.63	135 iPd	44 18.60	-1.2
		e	18 30.50		GOL	117.68	43 PKP	27 00.00	8.4X		0.5s	10.20nm		5.2mb
		LR	36 33.00			Z 19s	0.95um		5.4Msz	KAF	58.78	329 eP	44 19.60	-0.7
NDI	53.98	305 eP	17 27.00	-3.2X	GLD	117.75	43 PKP	27 00.00	8.4X		0.5s	3.20nm		4.7mb
WMO	54.35	326 P	17 31.60	-1.1		Z 21s	1.35um		5.5Msz	NUR	59.39	327 eP	44 24.00	-0.6
	1.0s	28.00nm		5.2mb	WMOK	124.69	45 ePKP	27 04.70	-0.1		0.6s	3.70nm		4.7mb
		PP	19 36.00			Z 19s	0.83um		5.4Msz	SDF	59.61	336 iP	44 25.60	-0.4
KSH	59.31	316 P	18 08.40	0.3	SLM	127.97	36 PKP	27 20.00	9.0X	KNT	60.87	305 eP	44 34.48	-0.5
	1.2s	80.00nm		5.7mb		Z 20s	126.28um		7.6MszX	ASPA	61.06	138 iPc	44 35.30	-1.2
Z 32s		1.63um		5.0MszX	MIAR	128.39	42 ePKP	27 12.33	0.4		0.7s	6.50nm		4.9mb
		sP	18 35.40			Z 19s	0.47um		5.2Msz	GRG	61.27	305 eP	44 37.20	-0.6
		PP	20 14.00		CBM	130.29	13 PKP	27 30.00	14.9X	LIT	61.32	304 eP	44 37.36	-0.8
QUE	62.96	303 eP	18 32.10	-0.9		Z 19s	1.21um		5.6Msz	AGG	61.60	303 eP	44 38.52	-1.5
SMY	64.77	30 P	18 50.00	5.9X	KIC	130.41	279 PKP	27 17.52	1.2	AVY	62.13	231 eP	44 45.90	2.0
	Z 21s	2.17um		5.3Msz		1.1s	26.00nm			VTY	62.37	231 eP	44 47.30	1.8
CSY	68.43	187 eP	19 09.10	2.0	TIC	130.65	280 PKP	27 17.98	1.2	OPO	62.41	232 eP	44 46.50	0.8
MAIO	70.51	308 iPc	19 19.50	-1.1	RSNY	130.69	19 PKP	27 30.00	14.0X	UPP	62.87	327 iP	44 47.20	-0.8
		e	29 18.00			Z 19s	0.91um		5.5Msz	KSP	64.27	317 eP	44 57.50	0.1
HON	76.29	69 P	20 00.00	5.6X	LIC	130.71	279 PKP	27 18.12	1.2	HFS	64.83	327 eP	44 59.80	-1.1
	Z 20s	0.36um		4.7Msz	MCWV	132.72	27 PKP	27 30.00	10.0X		0.4s	4.20nm		4.7mb
AVY	79.53	251 iPc	20 13.10	0.6		Z 19s	1.01um		5.6Msz	BRG	65.74	317 i(P)	45 07.20	0.4
VTY	79.72	250 iPc	20 14.10	0.6	MYNC	133.97	35 ePKP	27 23.87	1.3	NB2	65.97	328 P	45 06.80	-1.4
OPO	80.17	251 iPc	20 15.40	-0.5	GOGA	135.54	36 PKP	27 40.00	14.5X		0.6s	2.70nm		4.4mb
SVW	83.10	29 eP	20 31.69	1.4		Z 19s	0.92um		5.5Msz	CDF	70.47	315 eP	45 36.00	-0.5
	1.0s	71.74nm		5.6mb	CEH	136.07	30 PKP	27 40.00	13.5X		0.5s	2.05nm		4.3mb
TTA	83.24	27 eP	20 31.63	0.6		Z 20s	0.69um		5.4Msz	HAU	71.18	315 eP	45 40.10	-0.6
	0.9s	31.12nm		5.3mb	PEL	144.64	155 iPKPd	27 41.60	-0.4	LPG	71.57	312 eP	45 43.30	-0.1
KDC	84.21	32 eP	20 36.74	0.9		1.0s	220.00nm				0.8s	5.65nm		4.5mb
	0.9s	17.44nm		5.1mb	MDZ	145.61	157 i(PKP)	27 45.20	1.5	LPL	71.58	312 eP	45 43.30	-0.1
RSO	84.40	29 eP	20 36.43	-0.6	CFA	146.98	157 e(PKP)	27 46.80	0.9		0.5s	3.30nm		4.5mb
BRW	84.57	18 eP	20 38.86	1.4	TCA	148.50	162 ePKPd	27 50.00	1.6	STK	71.68	139 iPd	45 42.80	-1.0
CP2	84.75	29 eP	20 39.10	0.3			i	27 53.30			0.4s	1.10nm		4.1mb
IMA	84.75	24 eP	20 39.21	0.6	FSA	152.77	155 iPKP	27 57.20	2.5	LBF	73.00	314 eP	45 50.90	-0.6
	0.7s	6.78nm		4.8mb	CNCB	159.27	139 PKP	28 07.00	3.0X	SMF	73.19	314 eP	45 52.00	-0.6
CRP	84.79	29 eP	20 38.25	-0.7	PPD	159.32	187 ePKP	28 05.20	1.9		0.5s	3.85nm		4.6mb
SLKM	85.65	30 eP	20 42.99	-0.1	LPB	159.39	138 PKP	28 05.80	1.8	SSF	73.29	314 eP	45 52.80	-0.3
PMR	86.27	29 eP	20 45.77	-0.2	ZOBO	159.56	137 PKPc	28 06.00	1.6		1.0s	11.20nm		4.7mb
	1.0s	24.12nm		5.3mb		1.0s	11.25nm			AVF	73.47	314 eP	45 53.80	-0.4
	Z 21s	2.19um		5.5Msz	CCH	160.00	143 (PKP)	28 18.00	13.5X	BGF	73.87	314 eP	45 55.60	-0.9
KLU	87.80	29 eP	20 54.30	0.7	SDV	160.39	58 ePKP	28 05.50	0.7	MAF	74.16	314 eP	45 58.40	0.2
OBN	88.65	325 iPd	20 57.50	-0.1	SIV	163.81	154 PKP	28 23.40	15.4X	TCF	74.38	314 eP	45 59.60	0.1
	1.3s	82.00nm		5.8mb			i	29 16.00			0.6s	3.80nm		4.5mb
Z 20s		0.40um		4.8Msz						EKA	74.65	324 P	46 01.00	0.2
		iP	21 27.00	112kmX							2.9s	149.70nm		5.4mb
		eS	31 36.00							CAF	74.90	313 eP	46 02.70	0.1
KVT	89.21	311 iP	21 02.00	1.3		APR 11, 1993	05h 34m	27.95± 0.71s			0.6s	3.05nm		4.4mb
BALM	89.53	29 eP	21 01.59	-0.3		23.926 N ± 6.0km	94.126 E ± 5.1km			LDF	75.13	317 eP	46 02.80	-0.9
HRI	89.63	303 eP	21 03.60	0.7		DEPTH = 74.5 ± 6.6 km				RJF	75.15	313 eP	46 04.30	0.4
ADI	90.07	303 eP	21 05.70	0.9		4.6mb (33 obs.)					0.6s	5.25nm		4.6mb
RMN	90.66	300 eP	21 08.00	0.3		MYANMAR-INDIA BORDER REGION	(294)			LSZ	75.26	246 iPc	46 07.00	1.9
INK	92.55	21 eP	21 16.50	1.0						LPO	75.57	313 eP	46 06.50	0.2
	1.0s	4.00nm		4.8mb	SHL	2.61	309 iPnc	35 10.50	1.6		0.5s	3.85nm		4.6mb
KAF	93.42	332 iP	21 18.40	-1.2	LSA	6.34	336 Pc	36 01.80	0.6	GRR	75.66	317 eP	46 05.80	-0.9
	0.7s	6.30nm		5.2mb	CHG	6.78	138 iPn	36 06.80	-0.2	LFF	75.79	313 eP	46 07.90	0.4
SIT	93.49	33 P	21 30.00	10.0X			eSg	37 55.90			0.5s	5.05nm		4.7mb
	Z 21s	1.28um		5.3Msz	KMI	7.93	80 Pc	36 24.00	0.9	BUL	77.39	241 iPc	46 17.90	0.9
MBC	94.36	13 eP	21 24.50	0.8		1.5s	200.00nm		5.6mb		1.0s	14.50nm		4.9mb
NUR	94.49	331 iP	21 23.60	-0.9			sP	36 42.00		MBC	77.94	8 eP	46 18.50	-0.4
	0.9s	8.40nm		5.2mb	BDT	8.06	145 eP	36 22.00	-2.6		0.6s	1.00nm		3.9mb
VR1	95.61	316 ePd	21 31.50	1.4		1.0s	7.00nm		4.4mb	SLR	80.58	237 iPc	46 36.00	1.8
MLR	96.21	316 eP	21 34.00	1.0	GUN	8.42	300 P	36 28.80	-1.0		1.1s	50.00nm		5.4mb
BUL	97.58	250 eP	21 40.10	0.5	PKI	8.66	297 P	36 31.60	-1.5	INK	81.65	16 eP	46 39.50	0.6
	1.0s	5.00nm		5.0mb	KKN	8.85	298 P	36 34.80	-0.8		0.5s	1.00nm		4.0mb
VAY	99.30	312 iP	21 45.50	-1.3	DMN	8.92	296 P	36 35.60	-1.0	KSR	81.71	237 iPc	46 41.00	0.9
DAG	99.52	352 eP	21 46.30	-0.9	GKN	9.45	297 P	36 42.40	-1.4	PRY	81.83	236 e(P)	46 36.50	-4.2X
	0.9s	7.56nm		5.2mb	GYA	11.63	75 P	37 15.20	2.1	BLF	83.94	235 e(P)	46 52.00	0.5
HFS	99.84	332 eP	21 49.10	0.2		1.2s	14.00nm		4.8mb		1.0s	40.00nm		5.4mb
	0.4s	1.20nm		4.8mb	LZH	14.74	32 eP	37 55.60	1.6	WIN	87.94	244 iPc	47 15.00	3.7X
NB2	100.64	333 Pdiff	21 50.60	-1.9		1.5s	27.00nm		4.3mb		1.0s	40.00nm		5.5mb
	0.9s	4.90nm		5.1mb	NDI	15.88	291 iPc	38 07.50	-0.9	YKA	90.88	13 eP	47 22.90	-1.4
KSP	101.38	323 ePdiff	21 55.80	-0.1		0.5s	31.69nm		4.7mb		0.5s	0.30nm		3.9mb
YKA	101.86	24 ePdiff	21 56.70	-1.1	HYB	15.94	249 eP	38 10.00	0.8					

11d 05h

FRB 91.57 352 eP 47 27.00 -0.3
SDV 144.15 334 iPKPd 53 56.00 -1.8
PPD 148.17 266 ePKP 54 08.90 4.9X
S.D. = 1.2 on 67 of 71 obs.

? APR 11, 1993 05h 49m 10.88±1.14s
9.923 N ±20.5km 125.318 E ±49.4km
DEPTH = 122.5 ± 9.2 km
4.1mb (3 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

PLP 1.28 345 ePd 49 37.00 0.7
eS 49 51.80
BIP 1.92 151 iPc 49 43.00 -0.9
eS 50 05.40
BWA 49.25 155 iPc 57 50.30 1.3
CAN 50.26 155 eP 57 57.10 0.4
INK 84.95 21 eP 01 34.00 0.9
KAF 85.50 332 iP 01 35.70 -0.2
0.5s 3.20nm 4.5mb
MBC 86.25 13 eP 01 40.00 0.6
NUR 86.64 331 eP 01 29.80 -11.7X
0.8s 7.90nm
HFS 91.92 332 eP 02 05.30 -1.1
0.3s 0.20nm 3.9mb
YKA 94.45 24 eP 02 16.30 -1.7
0.7s 0.50nm 4.0mb
S.D. = 1.3 on 9 of 10 obs.

APR 11, 1993 06h 00m 56.42±0.12s
51.287 N ±3.1km 178.599 W ±1.8km
DEPTH = 33.0km (normol)
5.6mb (121 obs.) 4.8Msz (40 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

Mw 5.4 (HRV). ML 5.1 (PMR).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 30S, 51C

Centroid Location:

Origin Time 06:00:58.6 0.4

Lot 51.24N 0.04 Lon 178.44W 0.08

Dep 17.0 BDY Half-duration 1.2

Moment Tensor; Scale 10**16 Nm

Mrr= 9.64 0.32 Mtt=-8.09 0.39

Mff=-1.54 0.31 Mrt= 8.34 1.38

Mrf= 1.70 1.33 Mtf=-3.84 0.48

Principal Axes:

T Vol= 12.94 Plg=69 Azm=358

N 0.00 7 251

P -12.94 20 158

Best Double Couple: Mo=1.3*10**17

NP1: Strike=237 Dip=25 Slip= 74

NP2: 74 66 97

ADK 1.34 63 iPd 01 19.85 1.0
SMY 4.73 291 eP 02 09.56 2.3
SVW 16.04 43 eP 04 42.25 1.4
0.8s 225.17nm 5.3mb
KDC 16.41 57 eP 04 43.28 -2.2X
0.8s 75.95nm 4.9mb
TTA 16.81 37 iPc 04 52.43 1.8
0.9s 109.19nm 5.0mb
RSO 17.06 47 iPc 04 55.73 1.9
CP2 17.59 45 ePc 05 03.01 2.5
CRP 17.63 45 eP 05 02.32 1.4
SLKM 18.25 49 eP 05 07.64 -0.9
PMS 18.79 47 eP 05 14.60 -0.5
PMR 19.10 46 ePd 05 17.17 -1.6
0.9s 46.60nm 4.7mb
IMA 19.46 31 iPc 05 22.94 -0.1
0.9s 100.54nm 5.1mb
KLU 20.54 48 eP 05 33.82 -0.6
FBA 20.94 38 eP 05 37.27 -1.1
0.8s 70.82nm 5.1mb
BALM 22.13 50 eP 05 49.72 -0.8
BRW 22.39 18 ePd 05 53.23 0.5
SIT 25.63 60 P 06 30.00 5.9X
Z 21s 1.28um 4.4Msz
KUSJ 26.02 266 eP 06 26.20 -1.7
ASAJ 26.80 270 eP 06 34.00 -1.1
INK 27.46 35 ePd 06 41.30 0.4
0.9s 16.00nm 4.7mb
OFUJ 30.17 262 eP 07 05.80 0.3
KAKJ 32.90 259 P 07 29.60 0.3
NIIJ 32.96 262 P 07 30.30 0.4
MBC 33.65 22 ePc 07 35.50 0.0
0.9s 23.00nm 5.1mb

CHJJ 33.72 260 P 07 36.90 0.3
KIP 33.87 144 (P) 07 36.66 -1.2
MAT 33.90 261 iPc 07 38.10 0.0
1.2s 139.06nm 5.8mb
Z 20s 1.42um 4.7Msz
eS 12 58.00
HON 33.96 144 P 07 50.00 11.3X
Z 20s 1.58um 4.7Msz
MTMJ 34.12 262 P 07 40.40 0.3
MDJ 34.71 280 Pc 07 43.90 -1.1
1.0s 53.00nm 5.4mb
Z 24s 1.98um 4.8MszX
S 13 09.00
IIDJ 34.76 260 P 07 46.30 0.7
PGC 34.87 72 eP 07 47.50 1.3
0.8s 33.00nm 5.3mb
YKA 35.20 46 eP 07 48.20 -0.8
0.8s 21.10nm 5.1mb
MCW 35.22 72 iPc 07 50.15 0.8
e 07 58.94
ONR 35.47 75 P 07 53.51 2.0
GMW 35.76 74 iPc 07 55.14 1.2
TSRJ 35.92 262 P 07 55.60 0.2
JCW 35.98 72 P 07 56.68 0.9
BMW 35.99 75 iPc 07 57.02 1.1
KMOR 36.24 77 P 07 59.47 1.4
FMW 36.72 74 P 08 03.22 1.0
LON 36.72 74 ePc 08 02.67 0.6
SHW 36.73 75 ePc 08 03.57 1.3
WKYJ 37.03 261 eP 08 05.70 1.0
ASR 37.14 75 P 08 06.50 0.8
WTV 37.39 72 P 08 07.97 0.3
CN2 37.69 281 Pc 08 09.40 -0.7
1.0s 27.00nm 5.1mb
Z 20s 1.22um 4.7Msz
N 18s 0.74um
E 18s 0.62um
eP 08 19.50 35kmX
ePP 09 41.00
eS 13 57.00
VBEM 37.69 77 P 08 11.28 1.0
SAW 37.71 72 P 08 10.74 0.4
YONJ 37.72 264 eP 08 10.10 -0.4
VGB 37.95 75 iPc 08 13.16 0.8
WAH2 38.07 73 P 08 14.04 0.7
CROR 38.09 76 P 08 14.62 1.0
TKSJ 38.14 262 P 08 15.30 1.3
DPW 38.35 71 iPc 08 15.94 0.2
JBO 38.55 75 P 08 18.16 0.8
VIPM 38.56 77 P 08 18.51 0.8
NEW 38.80 70 iPc 08 19.69 0.2
0.9s 275.18nm 6.0mb
LGPM 39.16 83 iPc 08 23.53 0.9
LNOR 39.28 73 P 08 24.25 0.7
LBFM 39.49 82 ePc 08 26.71 1.2
WDC 39.53 83 P 08 40.00 14.5X
Z 20s 0.63um 4.5Msz
SHNJ 39.88 264 P 08 29.60 1.1
SNY 39.92 280 iPc 08 29.00 0.3
1.2s 210.00nm 5.8mb
Z 22s 1.50um 4.8Msz
N 17s 0.82um
S 14 26.00
EBI 40.09 71 ePc 08 30.66 0.3
LMEM 40.15 83 eP 08 32.21 1.2
ORV 40.77 84 ePc 08 35.66 -0.1
KUMJ 41.11 263 P 08 39.70 1.1
KAGJ 41.99 261 P 08 46.90 1.0
COE 42.05 87 eP 08 46.84 0.5
ARN 42.08 86 iPc 08 46.92 0.3
CMB 42.38 85 iPc 08 49.32 0.2
1.1s 22.03nm 4.8mb
Z 21s 1.18um 4.8Msz
LCCM 43.12 70 ePc 08 54.70 -0.4
KVN 43.19 82 eP 08 56.33 0.5
MMPM 43.49 84 eP 08 59.14 0.7
MEMM 43.51 84 eP 09 00.07 1.9
BONR 43.73 83 eP 09 01.23 0.9
PHAM 43.74 87 iPc 09 01.23 1.1
MTUM 43.94 84 iPc 09 02.57 0.7
TNP 44.33 82 iPc 09 05.09 0.0
1.0s 40.31nm 5.2mb
HVU 44.85 75 iPc 09 09.51 0.3
ISA 45.06 86 iPc 09 10.06 -0.7
0.8s 21.85nm 5.1mb
Z 19s 0.85um 4.7Msz
BJI 45.52 282 eP 09 14.50 0.2

1.1s 79.00nm 5.5mb
Z 20s 0.90um 4.7Msz
N 15s 0.58um
eS 15 50.00
eSS 19 08.00
IRK 45.56 303 ePc 09 14.60 0.1
1.4s 29.00nm 5.0mb
Z 18s 1.01um 4.8Msz
e 09 28.90
e 09 51.70
e 10 53.10
LR 25 33.00
TPNV 45.63 83 eP 09 15.71 0.2
0.9s 68.17nm 5.6mb
Z 20s 2.46um 5.1Msz
DUG 45.77 77 iPd 09 16.96 0.5
1.0s 144.72nm 5.9mb
FCC 45.93 46 eP 09 19.00 1.7
BW06 46.21 72 iPc 09 20.08 0.0
0.8s 167.88nm 6.0mb
GSC 46.33 85 iPc 09 20.73 -0.2
SSK 46.48 87 iPc 09 22.73 0.5
DAU 46.59 76 iPc 09 23.64 0.5
ARUT 46.85 80 ePc 09 24.93 -0.2
PEC 47.02 87 ePc 09 25.30 -1.0
MSU 47.18 79 iPc 09 28.06 0.3
EMUT 47.22 76 iPc 09 28.15 0.1
TIA 47.30 278 Pc 09 28.50 0.1
1.4s 140.00nm 5.8mb
Z 24s 0.97um 4.7MszX
eS 16 16.00
PLM 47.57 87 eP 09 30.04 -0.8
GUMO 47.75 231 e(P) 09 24.50 -7.7X
Z 22s 0.18um 4.0Msz
SRU 47.83 77 iPc 09 32.66 -0.1
HHC 47.84 286 Pc 09 33.00 0.3
Z 22s 1.81um
N 15s 0.61um
E 17s 1.39um
sP 09 46.00
PcP 11 01.00
PP 11 25.00
S 16 28.00
SSE 48.12 269 Pd 09 35.00 0.1
1.4s 110.00nm 5.7mb
Z 20s 0.60um 4.6Msz
pP 09 42.50 25kmX
PcP 11 00.50
S 16 32.00
sS 16 42.00
RSSD 48.68 68 iPd 09 38.42 -0.9
1.0s 95.24nm 5.8mb
BTO 48.92 287 iPd 09 42.00 0.9
1.0s 96.00nm 5.8mb
N 15s 0.38um
E 17s 1.14um
pP 09 52.00 34kmX
ePP 11 40.00
S 16 46.00
NJ2 48.94 272 Pc 09 41.00 -0.2
Z 24s 0.75um 4.6MszX
GLA 49.04 86 iPd 09 41.47 -0.6
PV09 49.06 77 iPc 09 41.88 -0.6
PV10 49.19 77 iPc 09 43.23 -0.2
TIY 49.25 282 eP 09 44.40 0.8
1.0s 92.00nm 5.8mb
Z 22s 1.29um 4.9Msz
N 19s 1.58um
PP 11 42.00
PV08 49.31 76 iPc 09 43.50 -0.9
ULM 49.63 57 eP 09 48.00 1.7
KBS 49.90 357 eP 09 48.30 0.3
GOL 50.59 73 iPd 09 54.29 0.2
1.0s 225.32nm 6.1mb
Z 19s 0.95um 4.8Msz
GLD 50.64 73 iPc 09 55.08 0.7
1.0s 146.95nm 5.9mb
Z 21s 1.35um 4.9Msz
DAG 51.57 6 eP 09 59.90 -0.8
1.1s 12.66nm 4.8mb
TUC 52.07 84 iPc 10 04.55 -0.6
0.7s 17.97nm 5.1mb
Z 21s 0.49um 4.5Msz
WHN 52.79 274 Pc 10 10.00 -0.4
1.0s 89.00nm 5.7mb
Z 20s 0.88um 4.8Msz
eS 17 36.00

	1.1s	60.55nm		5.5mb	ROB	84.63	355 P	13 27.10	-0.5	EGUA	92.14	4 eP	14 02.70	-0.9
Z	20s	0.32um		4.7MsZ	BDI	84.70	353 P	13 27.80	-0.1	BPA	92.50	59 eP	14 04.00	-1.5
HYF	81.82	359 iPc	13 13.80	0.7	FIN	84.70	355 P	13 27.05	-0.9	MGH	92.57	59 eP	14 06.00	0.2
OGA	81.88	353 iPd	13 14.60	1.0	STV	84.71	356 P	13 26.78	-1.2	PAG	93.43	59 eP	14 08.00	-1.8
	0.8s	17.00nm		5.1mb	ENR	84.72	356 P	13 26.87	-1.2	MGG	93.72	59 eP	14 10.00	-1.0
BZS	81.91	346 iPd	13 15.00	1.5	SFI	84.74	352 Pc	13 29.40	1.4	TOO	93.92	208 iPc	14 11.70	0.3
LLS	82.01	355 eP	13 15.00	0.7	PGD	84.80	353 Pc	13 29.80	1.2		0.9s	27.00nm		5.7mb
FVI	82.01	352 P	13 14.10	0.1	IVA	84.85	346 iPc	13 29.13	0.4	SDV	94.13	70 eP	14 13.80	0.6
SSF	82.02	359 iPc	13 14.60	0.5	FIR	84.93	353 eP	13 30.00	1.0	BFD	94.45	210 eP	14 13.70	0.0
	1.1s	74.50nm		5.6mb	TOUF	84.95	356 P	13 29.46	0.1		0.8s	4.00nm		4.9mb
WBZ	82.03	224 iPc	13 13.30	-1.1	AUTN	84.96	356 P	13 29.83	0.4	CAR	95.00	67 eP	14 13.80	-3.3X
	0.8s	31.50nm		5.4mb	SAOF	84.96	356 P	13 29.22	0.0	ZOBO	115.32	85 PKP	19 39.00	2.0
LBF	82.08	358 iPc	13 14.70	0.2	HRT	85.01	339 eP	13 28.00	-0.9			LR	56 12.00	
	1.0s	36.00nm		5.4mb	HVAR	85.01	349 iPc	13 29.00	-0.4	LPB	115.53	85 ePKP	19 36.00	-1.2
RBL	82.09	352 Pc	13 14.20	-0.4	BRY	85.02	347 iPc	13 29.54	-0.1	CNCB	115.82	85 PKP	19 38.00	0.1
OSS	82.12	354 ePc	13 15.40	0.5	IMI	85.02	355 P	13 28.70	-0.8	SIV	119.49	78 ePKP	19 53.00	8.8X
AVF	82.29	359 iPc	13 15.90	0.4	CRE	85.02	352 P	13 30.50	0.9	TIC	122.04	8 PKP	19 48.26	-0.8
	1.0s	69.00nm		5.7mb	NKY	85.04	347 iPc	13 29.60	-0.1	KIC	122.34	7 PKP	19 48.92	-0.7
BRS	82.30	205 iPc	13 16.50	0.8	AURF	85.07	356 P	13 29.83	0.0	LIC	122.45	8 PKP	19 49.00	-0.9
	0.9s	5.00nm		4.6mb X	SBF	85.09	356 P	13 29.70	-0.2	Z 20s		0.28um		4.9MsZ
		i	13 30.00		PVY	85.11	346 iPc	13 29.44	-0.7	BCAO	122.59	340 iPKPd	19 49.10	-1.1
PTJ	82.38	350 eP	13 16.10	0.0	EYL	85.14	338 eP	13 25.00	-5.3X		0.8s	18.00nm		
LJU	82.39	351 eP	13 17.00	0.9	CALN	85.22	356 P	13 30.80	0.1			id	21 24.00	
SMF	82.43	358 iPc	13 16.60	0.4	TTG	85.38	347 iPc	13 30.15	-1.1	PPD	130.03	75 ePKP	20 04.00	-0.3
	1.0s	98.00nm		5.8mb	FRF	85.42	356 iPc	13 31.90	0.4	SPA	141.10	180 iPKPc	20 16.60	-7.2X
ZAG	82.46	350 iPc	13 16.70	0.3	HCY	85.47	347 iPc	13 30.32	-1.4		0.8s	8.33nm		
VOY	82.46	351 eP	13 15.50	-1.1	ARMA	85.48	205 iPc	13 32.90	1.1	BUL	142.29	315 ePKP	20 22.00	-5.3X
MFF	82.48	1 iPc	13 17.10	0.6		0.9s	66.00nm		5.8mb		1.0s	15.00nm		
BGF	82.53	359 eP	13 17.20	0.4	SKO	85.49	345 iP	13 32.40	0.5			i	20 23.60	
	1.1s	60.55nm		5.6mb		1.1s	100.00nm		5.9mb	BFT	146.38	309 iPKPd	20 33.70	-0.5
RMQ	82.61	209 iPc	13 17.70	0.4	ASPA	85.51	223 iPc	13 31.80	-0.2	SLR	147.28	311 iPKPc	20 38.10	2.6X
	1.2s	96.00nm		5.7mb		0.9s	46.00nm		5.7mb		0.9s	125.00nm		
		eP	13 32.50	51kmX	Z	21s	0.60um		5.0MsZ		Z 22s	5.29um		6.3MsZx
CTI	82.64	353 Pc	13 16.90	-0.6	ASS	85.51	352 P	13 32.50	0.5	PRY	148.67	311 iPKPd	20 41.20	3.4X
CEY	82.70	351 e(P)	13 17.50	-0.2	LRG	85.54	356 iPc	13 32.70	0.7		0.9s	91.00nm		
TMA	82.77	355 ePc	13 18.50	0.2		1.0s	64.60nm		5.8mb	WIN	148.84	331 iPKPc	20 42.00	3.8X
TRI	82.80	351 eP	13 18.00	-0.1	BDV	85.58	347 iPc	13 30.48	-1.8		1.0s	90.00nm		
TCF	82.80	359 iPc	13 18.60	0.4	LMR	85.66	356 iPc	13 33.30	0.7	SEK	149.76	309 iPKPd	20 44.10	4.7X
	1.0s	39.60nm		5.5mb		1.0s	77.20nm		5.9mb		0.8s	113.00nm		
LSF	82.84	360 iPc	13 18.80	0.4	ULC	85.84	347 iPc	13 31.05	-2.6	SWZ	149.88	314 iPKPc	20 44.40	4.8X
	0.8s	49.70nm		5.7mb	VAY	85.94	344 iP	13 34.60	0.5		0.6s	47.00nm		
VBY	82.85	350 ePc	13 17.30	-1.1	EPF	86.06	1 eP	13 34.60	-0.1	BLF	151.11	311 iPKPd	20 47.80	6.4X
		ePcP	13 22.30			1.1s	29.30nm		5.4mb		0.7s	88.00nm		
MAF	82.87	359 iPc	13 19.30	0.8	LESF	86.06	0 P	13 33.51	-1.2		S.D. = 0.9	on 401 of 421 obs.		
	1.0s	70.00nm		5.7mb	MTHF	86.15	359 P	13 36.08	0.9	? APR 11, 1993	06h 03m 38.82± 9.42s			
DIX	82.88	356 iPd	13 19.80	0.9	AQU	86.16	351 Pc	13 35.90	0.7	40.795 N ±15.1km	30.456 E ±66.6km			
MMK	82.88	355 ePc	13 19.80	0.9	MNS	86.19	352 Pc	13 35.10	-0.3	DEPTH = 10.0km	(geophysicist)			
EMS	82.91	356 ePc	13 19.50	0.5	PGF	86.31	354 P	13 36.26	0.2	TURKEY		(366)		
TRT	83.01	249 ePc	13 18.00	-1.6	ECRI	86.42	3 eP	13 37.20	0.7	MD 2.8 (ISK).				
VAI	83.02	355 Pc	13 19.20	-0.1	OHR	86.44	345 eP	13 35.00	-1.6	EYL	0.32	225 iPg	03 45.60	0.0
AGO	83.03	359 P	13 20.00	0.6	SDI	86.76	351 Pc	13 37.90	-0.3	HRT	0.60	273 iPg	03 50.10	-0.9
MDI	83.05	354 Pc	13 18.80	-0.6	EGRA	86.89	1 eP	13 39.50	0.8			iSg	04 03.10	
PLDF	83.11	358 P	13 20.45	0.6	SGO	87.73	349 P	13 41.40	-1.4	YLV	0.85	255 ePg	03 55.60	0.3
SAL	83.17	354 Pc	13 19.90	-0.1	GBA	88.02	289 Pc	13 45.00	0.5	ISK	1.09	285 iPg	04 00.10	0.8
RSL	83.30	356 P	13 21.55	0.6		0.7s	10.00nm		5.2mb	CTT	1.57	284 iPg	04 06.60	-0.2
PYM	83.33	359 P	13 21.07	0.0	ORI	88.08	348 Pc	13 45.20	0.7		S.D. = 0.9	on 5 of 5 obs.		
LPL	83.47	356 iPc	13 23.10	1.2	MGR	88.12	349 Pc	13 43.90	-0.8	APR 11, 1993	06h 59m 48.10± 0.28s			
LPG	83.49	356 eP	13 23.50	1.4	CMS	88.17	210 iPc	13 45.20	0.4	39.744 S ± 3.6km	176.542 E ± 4.6km			
	1.3s	48.40nm		5.5mb		0.9s	22.00nm		5.5mb	DEPTH = 32.8km	(3 depth phases)			
LSD	83.51	356 P	13 23.16	1.0	ETOR	88.22	3 iPd	13 45.20	-0.1	5.5mb (19 obs.)	5.5MsZ (28 obs.)			
COLF	83.56	358 P	13 22.65	0.5	EROQ	88.27	1 eP	13 45.20	-0.2	NORTH ISLAND, NEW ZEALAND	(159)			
SSB	83.78	358 P	13 23.72	0.5	MMN	88.31	349 P	13 44.40	-1.2	Mw 5.7 (HRV). ML 6.2 (WEL). Felt				
RJF	83.79	360 iPc	13 23.70	0.4	GUD	88.32	4 iPc	13 45.30	-0.5	in the Nopier-Wellington area.				
	1.1s	77.15nm		5.8mb	TDS	88.49	349 Pc	13 46.40	-0.1	CENTROID, MOMENT TENSOR (HRV)				
Z	22s	0.43um		4.8MsZ	ROI	88.55	348 P	13 43.50	-3.3X	Date Used: GDSN				
RSP	83.81	356 P	13 23.94	0.4	EPLA	88.79	6 iPc	13 47.90	-0.1	L.P.8.: 37S, 83C				
LBL	83.85	359 P	13 24.18	0.5	RIV	88.83	205 iPc	13 48.70	0.9	Centroid Location:				
BNI	83.93	356 Pc	13 26.10	1.9	GRI	89.31	348 P	13 50.13	-0.3	Origin Time	06:59:54.1 0.2			
RRL	84.06	356 P	13 26.18	1.2		0.7s	71.60nm		6.1mb	Lot 39.68S 0.03 Lon 176.83E 0.04				
BOB	84.07	354 Pc	13 25.60	0.8	PAB	89.41	4 iPc	13 50.00	-1.0	Dep 22.4 2.1 Half-duration 1.9				
BHB	84.12	356 P	13 24.90	-0.1		1.1s	18.99nm		5.3mb	Moment Tensor; Scale 10**17 Nm				
LFF	84.15	0 iPc	13 25.80	0.7	ECHE	89.48	2 iPd	13 51.50	0.3	Mrr=-1.79 0.07 Mtt= 0.08 0.09				
	1.1s	211.00nm		6.2mb	STK	89.92	213 iPc	13 53.60	0.6	Mff=-1.88 0.10 Mrt= 1.41 0.17				
QLP	84.16	213 iPc	13 25.80	0.6		0.8s	31.60nm		5.6mb	Mrf= 3.63 0.36 Mtf=-1.28 0.08				
CAF	84.17	360 iPc	13 26.10	0.9	BWA	90.14	207 iPc	13 54.40	0.3	Principal Axes:				
	1.1s	103.55nm		5.9mb			iP	14 01.70	23kmX	T Val= 4.11 Plg=59 Azm=286				
PCP	84.35	355 P	13 25.45	-0.7	EVIA	90.39	3 iPd	13 55.00	-0.6	N 0.70 3 22				
HYB	84.36	291 iPc	13 26.50	-0.1	CNB	90.72	206 iPc	13 57.90	1.2	P -4.80 31 114				
	1.0s	70.00nm		5.8mb		0.6s	13.00nm		5.4mb	Best Double Couple:Mo=4.5*10**17				
LPO	84.41	0 iPc	13 27.00	0.6	CAN	90.82	206 eP	13 57.00	-0.2	NP1:Strike=215 Dip=15 Slip= 103				
	1.0s	154.80nm		6.1mb			eP	14 06.50	30kmX	NP2: 21 76 86				
DOI	84.46	356 P	13 26.30	-0.4	EHOR	91.07	5 eP	13 58.50	-0.1	WAHZ	0.15	287 iPd	59 54.60	0.3
PZZ	84.46	356 P	13 26.23	-0.6	EHUE	91.20	3 iPd	13 59.30	0.0					
PLE	84.48	347 iPc	13 27.99	1.1	ELUO	91.39	5 eP	13 59.90	-0.2					
CKI	84.48	355 Pc	13 26.30	-0.5	ECOG	91.70	4 iPd	14 01.20	-0.5					
SURF	84.50	356 P	13 28.29	1.2	EPRU	91.93	5 eP	14 02.50	-0.1					

TTH	0.30	47	iPd	59	55.40	-0.4			ePP	07	27.00		Z	19s	0.67um	5.2Msz
TEHZ	0.32	140	iPd	59	57.50	1.4			eS	11	30.00		LSA	105.07	296 Pd	13 55.60 1.1
TAHZ	0.63	14	iPc	00	01.00	0.4	CTA	32.52	298 P	06	19.60	1.5	GBA	105.51	275 PKP	18 18.00 8.4X
MOH	0.77	38	iPc	00	03.30	0.8	SBA	38.44	183 iPc	07	11.20	3.4X	GOL	106.40	52 PKP	18 20.00 8.9X
WHH	0.86	358	iPc	00	04.60	0.7	ASPA	39.27	281 iPc	07	14.60	-0.9	Z	21s	1.78um	5.6Msz
PGZ	0.90	193	Pc	00	06.20	1.9		0.8s	164.20nm				GLD	106.52	52 PKP	18 20.00 8.8X
NGZ	0.92	308	Pd	00	06.70	1.8	Z	23s	10.30um		5.6MszX		Z	21s	1.71um	5.6Msz
CNZ	0.94	305	iPc	00	07.10	2.0			eS	13	05.50		WMOK	107.60	59 PKP	18 20.00 6.8X
PAHZ	0.97	24	iPd	00	06.00	0.6	PMC	39.98	311 eP	07	22.00	0.7	Z	18s	2.45um	5.8Msz
MAHZ	1.18	62	Pc	00	08.10	-0.2	FORT	40.17	267 eP	07	22.00	-0.8	IMA	107.96	12 ePd	14 04.67 -1.4
MNG	1.19	223	iPc	00	10.40	1.9	WB2	41.12	286 iPc	07	30.00	-0.7		1.1s	3.59nm	5.4mb
BSZ	1.24	267	iPc	00	12.80	3.6X		0.6s	251.10nm		6.1mb		RSSD	109.87	49 PKP	18 30.00 12.6X
PATZ	1.38	351	P	00	12.20	0.9			iS	13	55.50		Z	21s	1.02um	5.4Msz
TAZ	1.51	359	iPd	00	13.90	0.8	WRA	41.13	286 P	07	30.10	-0.7	MIAR	110.99	62 PKP	18 30.00 10.5X
URZ	1.55	17	Pd	00	13.40	-0.2		0.7s	81.10nm		5.6mb		Z	19s	1.42um	5.6Msz
OTW	1.59	195	P	00	19.20	5.0X	RAB	41.70	322 eP	07	36.09	0.7	INK	114.00	18 ePKP	18 24.00 -0.2
UTU	1.59	350	Pc	00	15.10	0.8	WARB	43.47	273 eP	07	48.00	-1.9	FVM	114.99	61 PKP	18 40.00 12.9X
NOZ	1.62	46	Pd	00	13.60	-1.1	CSY	44.83	212 eP	08	00.50	0.2	Z	18s	4.58um	6.1Msz
MTW	1.62	209	P	00	15.20	0.5		0.6s	100.80nm		5.9mb		SLM	115.46	60 PKP	18 40.00 12.0X
KIW	1.67	228	P	00	16.90	1.4	COOL	45.44	263 eP	08	03.00	-2.7	Z	18s	1.08um	5.5Msz
CAW	1.77	219	P	00	17.40	0.5	KLB	47.70	261 eP	08	21.50	-2.0	YKA	115.78	29 ePKP	18 26.00 -1.8
BLW	1.82	206	P	00	17.80	0.3	MTN	48.04	291 eP	08	25.00	-1.3		1.2s	4.70nm	
MOZ	1.83	312	iPc	00	18.90	1.1	MUN	48.71	259 eP	08	30.00	-1.3	GOGA	117.45	68 PKP	18 40.00 8.1X
MOW	1.94	210	P	00	19.10	-0.3	Z	20s	7.40um		5.7Msz		Z	19s	0.50um	5.1Msz
WLZ	2.01	338	iPd	00	21.20	0.8	BAL	48.96	261 eP	08	31.00	-2.2	MYNC	117.83	66 PKP	18 40.00 7.4X
MRW	2.04	223	P	00	22.10	1.3	MEEK	49.43	267 eP	08	34.60	-2.3	Z	20s	1.02um	5.4Msz
WEL	2.05	221	P	00	20.80	-0.1		0.5s	46.00nm		5.8mb		CEH	121.80	68 PKP	18 50.00 9.9X
NRZ	2.06	281	Pd	00	23.70	2.6	MRWA	50.16	262 eP	08	40.30	-2.2	Z	18s	0.52um	5.2Msz
BHW	2.09	217	P	00	21.70	0.2	SPA	50.44	180 iPd	08	46.50	2.1	MBC	122.53	15 ePKP	18 39.00 -1.3
PUZ	2.14	39	iPd	00	20.40	-1.8		1.0s	180.00nm		6.0mb			1.0s	10.00nm	
TCW	2.27	229	P	00	24.60	0.6	Z	18s	1.25um		5.0Msz		RSNY	128.61	60 PKP	19 00.00 7.0X
HBZ	2.55	33	P	00	26.20	-1.8			i	23	59.10		Z	20s	1.69um	5.7Msz
GFW	2.68	229	P	00	30.10	0.2	NANU	53.96	269 eP	09	09.80	-1.2	HRV	129.89	63 PKP	19 10.00 14.5X
KUZ	3.06	348	P	00	34.90	-0.4		0.6s	24.00nm		5.4mb		Z	18s	0.75um	5.4Msz
QRZ	3.25	249	P	00	37.50	-0.5	MAW	61.99	203 P	10	08.60	1.8	CBM	133.62	59 PKP	19 10.00 7.6X
THZ	3.42	233	P	00	38.90	-1.6	HON	65.24	26 P	10	40.00	11.5X	Z	18s	2.18um	5.9Msz
KHZ	3.50	219	P	00	39.80	-1.8	Z	18s	0.47um		4.7Msz		FRB	135.63	35 ePKP	19 04.50 -1.2
DSZ	4.12	239	P	00	49.30	-1.1	DAV	66.18	303 eP	10	33.00	-1.8	BCAO	139.61	215 iPKPc	19 13.40 -1.2
WCZ	4.18	335	P	00	50.80	-0.3	NVL	69.25	185 eP	10	55.00	1.8		1.0s	40.00nm	
LTZ	4.43	225	Pc	00	51.50	-3.2X		1.6s	60.00nm		5.4mb				id	19 25.90
MOZ	4.91	215	P	00	59.00	-2.5	Z	20s	1.50um		5.2Msz		KEV	145.93	342 ePKP	19 24.00 0.1
			S	01	51.10				iPcP	11	03.00			1.5s	94.40nm	
OUZ	5.09	332	P	01	03.80	-0.2			eS	19	58.00		LIC	146.60	177 PKP	19 28.48 1.8
WVZ	5.49	231	P	01	07.40	-2.3	LEM	69.48	278 ePc	10	55.00	-0.7	Z	20s	0.47um	5.3Msz
ODZ	6.86	218	P	01	24.10	-4.9X		1.0s	70.00nm		5.7mb		KIC	146.74	178 PKP	19 28.98 2.1
BWZ	6.88	224	P	01	24.40	-4.8X	PAF	70.12	222 eP	11	02.00	3.1X	TIC	147.02	177 PKP	19 30.08 2.7
LSCZ	7.55	222	P	01	33.40	-5.2X			eS	21	06.00		MBH	147.18	264 ePKP	19 28.30 1.0
MHZ	7.56	223	P	01	33.60	-5.2X			eSS	25	16.00		DSI	147.61	268 ePKP	19 29.30 1.5
SBCZ	7.56	223	P	01	33.00	-5.8X	KKM	71.76	295 ePc	11	07.50	-1.9	SDF	147.74	339 iPKP	19 28.50 1.6
CMCZ	7.62	222	P	01	35.20	-4.4X	IIDJ	82.90	329 P	12	10.90	0.3	HR1	148.03	271 ePKP	19 30.90 2.3
TLC	7.75	223	P	01	37.10	-4.5X	CHJJ	82.97	330 P	12	09.70	-1.2	OBN	149.35	313 iPKPd	19 33.00 3.2X
TUZ	8.02	217	P	01	41.20	-3.9X	MAT	83.71	330 eP	12	13.00	-1.7		1.5s	105.00nm	
SIZ	9.40	218	P	02	02.80	-1.3		1.5s	86.11nm		5.7mb		Z	24s	1.30um	5.6MszX
DZM	19.61	331	iPc	04	16.50		TSRJ	83.73	328 P	12	15.10	0.3	N	24s	0.50um	
RIV	21.13	278	eP	04	34.20	1.8	SNG	83.86	285 eP	12	06.30	-9.6X	E	24s	0.50um	
Z	21s	0.72um			4.0MszX		PEL	84.48	129 iP	12	22.50	3.5X			i	19 51.00
		eS	08	36.00				1.2s	531.25nm		6.6mb X				ePP	23 00.00
CNB	21.97	273	iPc	04	42.90	2.1			i	12	30.00	24km			eSS	43 34.00
	1.5s	207.00nm			5.3mb		GZH	85.88	305 P	12	26.00	0.2	KVT	150.06	285 iPKP	19 31.00 -0.4
CAN	22.25	273	eP	04	44.40	0.8	ASAJ	88.90	336 eP	12	41.30	1.3	CSS	150.51	272 ePKP	19 36.50 4.3X
		e	05	02.10	80kmX		TCA	89.37	131 e(P)	12	46.50	3.6X	KAF	151.25	331 ePKP	19 36.40 4.0X
ARMA	22.35	287	iPd	04	37.90	-6.8X	WHN	90.67	310 eP	12	49.00	0.5		0.7s	12.20nm	
	1.3s	145.00nm			5.3mb		Z	20s	1.25um		5.3Msz		NSD	151.44	340 ePKP	19 35.70 3.1X
BWA	23.01	274	iPc	04	50.20	-0.9	MDJ	94.00	328 eP	13	04.50	1.0		0.8s	7.30nm	
		e	05	06.10	69kmX		CN2	95.08	326 eP	13	07.00	-1.5	KAS	151.81	285 ePKP	19 40.00 6.0X
BRS	23.24	295	iPd-	04	57.00	3.6X	SAO	95.10	45 P	13	20.00	11.2X	AKU	152.69	13 e(PKP)	19 35.90 1.5
	1.3s	39.00nm			4.8mb		Z	18s	1.46um		5.5Msz			1.7s	123.00nm	
		iP	05	06.50	35km		ISA	95.98	48 P	13	20.00	7.1X	NUR	152.86	329 iPKP	19 40.10 5.3X
		e	05	11.00			Z	19s	1.20um		5.4Msz			0.5s	10.10nm	
		i	05	40.50			CM8	96.60	45 P	13	30.00	14.3X	UPP	155.98	334 iPKP	19 59.60 20.7X
		iS	09	27.00			Z	18s	1.18um		5.4Msz		MLR	157.69	295 ePKP	19 47.00 5.1X
TOO	24.29	265	iPc	05	04.90	1.4	BJI	96.63	318 eP	13	15.00	-0.6	OJC	160.58	310 ePKP	19 49.60 4.9X
	0.7s	267.00nm			5.9mb		Z	24s	1.02um		5.2MszX		BZS	160.69	296 ePKP	19 40.00 -4.9X
CMS	26.20	279	iPc	05	21.80	0.3	N	18s	0.81um				SPC	160.70	307 ePKP	19 45.20 0.1
	1.3s	145.00nm			5.4mb		WDC	97.31	42 P	13	30.00	11.3X	SKO	161.05	285 iPKP	19 44.50 -0.9
RMQ	26.64	291	iPd	05	27.00	1.4		Z	20s	1.34um		5.4Msz	Z	20s	1.11um	
	1.3s	139.00nm			5.4mb		CNCB	97.73	119 eP	13	34.00	12.0X			i	19 45.60
BFD	26.65	265	iPc	05	26.20	0.6	LPB	97.85	119 eP	13	36.00	13.6X			i	19 54.90
	0.7s	88.00nm			5.5mb		TPNV	98.16	48 P	13	30.00	7.2X	SRO	162.37	304 ePKP	19 43.00 -3.5X
STK	29.27	275	iPc	05	49.80	0.5	Z	19s	2.30um		5.7Msz				e	19 54.60
	0.8s	43.10nm			5.2mb		TUC	98.30	55 P	13	30.00	6.5X	ZST	163.00	307 ePKP	19 46.60 -0.6
		eS	10	56.60			Z	18s	0.98um		5.3Msz				e	19 55.90
QLP	29.89	286	iPc	05	55.20	0.3	ALQ	102.74	55 Pd	13	50.00	6.3X	BRG	163.50	318 ePKP	19 47.00 -0.6
ADE	30.30	267	iPd	05	59.00	0.5	Z	18s	1.40um		5.5Msz			1.4s	24.00nm	
CTA	32.52	298	iPc+	06	16.00	-2.1	SIT	104.61	25 Pd	14	00.00	8.9X			e	19 56.00
							Z	20s	1.92um		5.6Msz		PRU	163.68	315 ePKP	19 47.00 -0.8
Z	24s	3														

11d 07h

CLL 163.71 321 ePKP 20 40.50
Z 21s 1.00um 19 47.00 -0.8
e 20 39.00 4.9msz
KHC 164.66 313 ePKP 19 57.00 8.2X
Z 24s 2.70um
N 24s 1.80um
E 24s 0.80um
e 20 44.60
e 21 09.00
e 21 28.00
MOX 164.81 321 ePKP 19 51.00 2.2
Z 21s 1.00um
GRF 165.61 319 ePKP 19 48.00 -1.5
Z 23s 1.00um
EVAL 176.64 129 ePKP 20 07.50 12.2X
ACU 177.33 244 ePKP 20 05.20 9.8X
EALH 177.53 221 ePKP 20 07.00 11.6X
EHOR 177.63 143 iPKPd 20 07.60 12.3X
EHUE 177.96 200 ePKP 20 06.80 11.3X
ECHE 178.07 266 ePKP 20 07.00 11.6X
EVIA 178.67 214 ePKP 20 04.80 9.2X
GUD 178.96 30 iPKPc 20 06.00 10.4X
PAB 179.28 106 iPKPc 20 06.50 10.9X
1.8s 113.64nm
iPKKP 21 53.00
ePP 25 45.00
S.D. = 1.3 on 113 of 178 obs.

APR 11, 1993 07h 04m 12.34± 0.30s
22.428 N ± 5.5km 144.912 E ± 6.3km
DEPTH = 33.0km (normal)
4.8mb (23 obs.) 4.5msz (7 obs.)
VOLCANO ISLANDS REGION (213)

PJG 8.79 180 eP 06 21.50 1.3
GUMO 8.79 180 eP 06 21.50 1.3
1.4s 214.30nm 6.1mb X
GUA 8.84 180 eP 06 21.70 0.8
0.8s 95.52nm 6.0mb X
CHJJ 14.52 341 P 07 34.70 -2.6
S 07 49.70
MAT 15.22 339 eP 07 38.00 -8.5X
Z 20s 0.71um
eS 10 25.00
KAGJ 15.25 308 eP 07 51.90 5.0X
KUMJ 16.03 312 eP 08 04.00 7.0X
YAMJ 16.24 346 eP 07 59.80 0.2
SHNJ 16.82 317 eP 08 04.70 -2.2
MRRJ 20.20 352 eP 08 51.30 4.3X
KUSJ 20.61 360 eP 08 56.00 4.7X
ASAJ 21.71 356 eP 09 05.30 2.8
PLP 22.10 243 ePd 09 07.70 1.2
CVP 22.18 262 eP 09 11.00 3.7X
SSE 22.84 297 P 09 15.50 1.8
1.0s 11.00nm 4.3mb
Z 20s 0.50um 4.0msz
E 16s 0.50um

BAG 23.70 260 eP 09 33.00 10.6X
NJ2 25.02 298 eP 09 33.00 -1.8
Z 16s 0.70um 4.3mszX
N 11s 0.53um
E 12s 0.80um

MDJ 25.47 334 eP 09 43.40 4.5X
1.1s 20.00nm 4.6mb
Z 20s 0.98um 4.3msz
S 14 08.00

SNY 26.34 322 eP 09 52.00 5.0X
Z 28s 0.77um 4.1mszX
sP 10 10.00
S 14 26.00

CN2 26.71 328 eP 09 54.60 4.2X
1.2s 15.00nm 4.5mb
Z 16s 1.30um 4.6mszX
N 13s 0.65um
E 13s 0.33um

TIA 27.73 306 eP 10 01.70 1.8
Z 30s 1.46um 4.4mszX
BJI 30.01 312 eP 10 20.00 -0.3
Z 20s 0.54um 4.2msz
eS 15 16.00

TIY 31.78 306 eP 10 38.80 2.8
Z 30s 2.49um 4.7mszX
N 20s 1.38um

HHC 33.54 311 eP 10 52.60 1.3
Z 21s 0.76um 4.4msz

N 11s 0.20um
E 13s 0.41um
XAN 33.59 298 P 10 50.70 -1.1
Z 20s 1.52um 4.7msz
N 18s 0.95um
E 18s 1.08um
CD2 37.56 292 eP 11 25.50 0.0
Z 22s 1.37um 4.7msz
LZH 38.05 300 eP 11 30.00 0.3
Z 22s 1.22um 4.7msz
N 19s 1.36um
GTA 41.77 305 P 12 01.00 0.6
Z 24s 2.11um 4.9mszX
E 20s 1.12um

CHG 43.05 274 eP 12 11.00 0.0
e 16 37.30
WB2 43.36 195 iPd 12 11.60 -1.7
0.4s 21.70nm 5.3mb

WRA 43.36 195 P 12 12.39 -1.0
e 12 21.50
ASPA 47.05 194 iPc 12 41.00 -1.8
0.6s 12.60nm 5.1mb

LSA 48.48 290 P 12 55.60 1.0
RMO 48.77 175 eP 13 03.00 6.9X
DZM 48.95 153 iPc 12 56.10 -1.6
BRS 50.11 171 e(P) 13 15.00 8.6X
WMO 51.36 309 P 13 16.40 0.4

1.0s 21.00nm 5.1mb
GUN 53.28 289 P 13 30.60 -0.2
PKI 53.74 288 P 13 33.20 -1.0
KKN 53.82 289 P 13 34.00 -0.6

DMN 54.00 289 P 13 31.20 -4.8X
STK 54.09 183 P 13 43.79 7.6X
STK 54.09 183 eP 13 33.30 -2.8
0.9s 1.30nm 4.0mb

GKN 54.35 289 P 13 38.20 -0.3
PMR 59.11 31 eP 14 09.66 -2.0
1.1s 16.45nm 5.1mb
TOO 59.68 179 eP 14 23.50 7.7X
0.5s 6.00nm 5.0mb

KSH 60.16 304 P 14 19.00 -0.4
Z 34s 1.72um 5.0mszX
sP 14 39.00
KLU 60.61 31 eP 14 20.83 -1.3

INK 66.26 24 eP 14 59.00 0.0
1.0s 4.00nm 4.5mb
QUE 69.09 295 eP 15 28.00 10.3X
MBC 69.74 15 eP 15 20.00 -0.7

1.0s 5.00nm 4.5mb
MAIO 73.54 303 eP 15 46.00 1.8
e 18 57.00
YKA 75.06 28 eP 15 50.70 -1.6

1.0s 5.30nm 4.5mb
GMW 75.29 44 eP 15 54.49 0.5
VGB 77.24 46 eP 16 05.65 0.7
DPW 78.12 43 eP 16 09.91 0.1

NEW 78.67 42 eP 16 11.85 -0.9
0.9s 19.03nm 5.1mb
ORV 78.71 52 eP 16 13.10 0.0

SDF 79.67 340 iP 16 18.00 0.2
CMB 80.05 53 eP 16 20.19 -0.3
1.3s 17.91nm 4.9mb
OBN 81.76 327 eP 16 32.00 3.0X

1.0s 18.00nm 5.0mb
Z 16s 0.60um 5.0mszX
e 19 29.00

KAF 82.73 335 eP 16 33.10 -0.8
0.6s 5.30nm 4.8mb
LCCM 82.91 43 eP 16 35.50 0.1

GSC 83.73 55 (P) 16 41.21 1.5
HVU 84.02 47 eP 16 42.77 1.6
NUR 84.32 335 eP 16 41.00 -1.0
0.6s 6.30nm 5.0mb

DUG 84.65 49 eP 16 44.38 0.0
1.0s 10.25nm 5.0mb
ARUT 85.21 51 (P) 16 47.83 0.6

DAU 85.64 48 eP 16 49.60 0.1
BW06 85.74 45 eP 16 50.18 0.3
0.9s 2.34nm 4.4mb
MSU 85.81 50 eP 16 50.56 0.3

EMUT 86.20 48 eP 16 52.49 0.3
SRU 86.71 49 eP 16 54.59 -0.1
PV10 88.08 49 eP 17 01.68 0.3
APO 88.30 338 eP 17 00.10 -1.5

0.6s 5.00nm 5.0mb
NB2 88.84 339 P 17 03.30 -1.0
0.8s 2.40nm 4.6mb

TUC 89.53 55 eP 17 08.86 0.7
1.2s 6.71nm 4.8mb
GLD 90.05 46 eP 17 11.07 0.5
1.3s 15.21nm 5.1mb

KSP 94.17 330 eP 17 29.60 0.5
e 19 44.50
e 19 55.60

ZOBO 148.28 85 PKP 23 57.90 3.2X
1.0s 15.50nm
Z 21s 1.57um 5.8mszX
LR 46 00.00

LPB 148.37 85 PKP 23 57.30 2.7
Z 18s 3.09um 6.1mszX
LR 46 06.00

CNCB 148.56 86 PKP 23 59.90 4.8X
CCH 150.41 86 (PKP) 24 12.00 14.4X
SIV 154.66 80 ePKP 24 14.00 10.7X
S.D. = 1.3 on 63 of 84 obs.

? APR 11, 1993 07h 11m 59.31± 3.08s
1.327 N ± 33.9km 126.156 E ± 31.1km
DEPTH = 73.0 ± 23.2 km
4.7mb (6 obs.)
NORTHERN MOLUCCA SEA (266)

MNI 1.32 275 ePd 12 22.50 0.1
eS 12 37.50
WB2 22.62 160 iPd 16 54.00 -1.0
0.7s 27.70nm 4.8mb

iS 20 58.10
ASPA 25.96 164 iPc 17 26.00 -0.9
0.4s 11.40nm 4.8mb
eS 21 59.40

WARB 27.35 179 eP 17 40.00 0.4
STK 36.12 157 iPc 18 55.00 -1.2
0.7s 5.50nm 4.6mb

BRS 38.36 140 iP 19 14.00 -1.1
ARMA 39.82 145 eP 19 28.00 0.7
0.6s 6.00nm 4.7mb
BFD 41.21 160 iPc 19 39.40 0.9

0.4s 5.00nm 4.7mb
BWA 41.25 152 iPc 19 40.30 1.4
CAN 42.25 152 eP 19 47.50 0.4
TOO 42.64 157 eP 19 51.00 0.7

0.7s 6.00nm 4.5mb
GBA 49.71 287 P 20 46.00 -0.4
S.D. = 1.0 on 12 of 12 obs.

& APR 11, 1993 07h 16m 33.74s
61.429 N 150.054 W
DEPTH = 47.0km
SOUTHERN ALASKA (2)
<AEIC>, ML 2.7 (AEIC).

PWA 0.24 21 P 16 42.00 -0.1
S 16 48.80

PMS 0.30 128 P 16 42.70 0.0
SUA 0.33 276 iPd 16 43.08 0.0
eS 16 51.21

PLRM 0.47 69 iPd 16 43.80 -0.7
eS 16 52.41
PMR 0.47 69 iPc 16 43.56 -0.9
eS 16 51.80

GHO 0.64 57 iPd 16 46.19 -0.6
PTE 0.76 138 iPc 16 47.38 -0.8
eS 16 59.02

SKT 0.89 309 iPc 16 49.29 -0.9
eS 17 01.98

NKA 0.90 220 eP 16 51.29 1.2
SML 0.91 64 iPc 16 49.47 -0.9
eS 17 02.54

SLKM 0.93 185 iPc 16 49.59 -1.0
eS 17 02.51

CGLM 0.95 263 eP 16 50.66 -0.3
SPU 1.00 256 iPc 16 50.85 -0.8
eS 17 04.61

MPA 1.00 160 iPc 16 50.46 -1.1
eS 17 04.72

CPAM 1.02 261 iPc 16 51.41 -0.6
CRP 1.03 262 iPc 16 50.84 -1.3
eS 17 05.13

CKN 1.05 260 iPc 16 51.69 -0.6
CKT 1.06 259 iPc 16 51.66 -0.9
eS 17 06.12

CP2 1.07 262 ePc 16 51.70 -1.0
CKL 1.13 259 iPc 16 52.49 -1.0
BGL 1.14 263 iPc 16 52.77 -0.9

GEW	1.36	167	eP	16 55.11	-1.5
SCM	1.36	71	iPc	16 55.72	-1.1
			eS	17 13.58	
DFR	1.53	238	iPc	16 58.01	-1.2
RSO	1.64	235	eP	16 59.65	-1.1
RS2	1.64	235	eP	17 00.08	-0.7
RS1	1.64	235	eP	17 00.04	-0.7
RDW	1.65	236	eP	17 00.06	-0.8
NCT	1.65	239	eP	16 59.85	-1.0
RED	1.67	234	eP	16 59.91	-1.2
			eS	17 21.38	
VLZ	1.82	98	iPc	17 01.34	-1.8
KLU	1.99	86	iPc	17 03.70	-1.9
			eS	17 27.97	
CNPM	2.00	198	eP	17 04.93	-0.7
INE	2.02	228	eP	17 04.98	-1.1
HIN	2.02	119	eP	17 03.48	-2.5
TRF	2.03	357	eP	17 04.92	-1.4
INW	2.04	229	eP	17 05.62	-0.7
CVA	2.28	111	eP	17 07.15	-2.4
SCAM	2.54	109	iPc	17 10.17	-3.2
PDB	2.62	233	eP	17 12.50	-2.1
SVW	2.71	266	eP	17 13.44	-2.5
GLB	3.00	87	ePc	17 17.34	-2.6
TTA	3.17	301	eP	17 19.50	-2.9
CROM	3.43	98	eP	17 23.29	-2.8
FBA	3.63	15	eP	17 28.51	-0.4
BALM	3.75	93	eP	17 27.31	-3.4

46 obs. associated

* APR 11, 1993 07h 23m 36.78±0.96s
 17.131 S ±21.9km 179.085 W ±20.1km
 DEPTH = 573.0 ± 8.2 km
 4.8mb (10 obs.)

FIJI ISLANDS REGION (181)

VUN	2.50	249	ePc	24 51.20	-0.2
DZM	14.49	248	iPc	26 41.00	0.5
BR5	27.91	244	iPc	28 43.50	-0.1
ARMA	29.79	238	iPc	29 00.10	0.3
	0.7s	10.00nm		4.6mb	
RMO	31.20	247	iPd	29 12.00	0.3
	0.5s	11.00nm		4.7mb	
CTA	32.95	259	iPc	29 27.00	0.6
CNB	33.40	231	iPc	29 30.20	0.0
	0.5s	14.00nm		4.8mb	
CMS	34.85	239	iPd	29 42.20	0.0
	0.9s	15.00nm		4.6mb	
OLP	35.21	248	iPd	29 45.40	0.2
TOO	37.17	230	iPd	30 01.20	0.0
	0.9s	43.00nm		5.1mb	
STK	38.45	240	iPd	30 12.30	0.6
	0.3s	5.80nm		4.6mb	
BFD	39.20	232	eP	30 17.50	-0.2
	0.6s	3.00nm		4.1mb	
WB2	44.13	259	iPd	30 56.60	-0.4
	0.6s	32.50nm		5.0mb	
ASPA	44.39	254	ePd	30 59.10	0.2
	0.6s	151.70nm		5.7mb	
WARB	50.94	250	eP	31 47.50	-0.7
	0.4s	13.00nm		4.7mb	
MEEK	58.10	249	eP	32 37.00	-1.4
NANU	61.33	253	eP	32 59.40	-0.2
FBA	85.20	13 (P)		35 13.50	-0.2
YKA	93.90	25	eP	35 54.00	-0.1
	0.5s	0.20nm		3.5mb X	
KSP	144.19	343	ePKP	42 10.00	0.9
CDF	148.37	352	ePKP	42 20.90	4.8X
	0.7s	3.10nm			
FLN	148.43	2	ePKP	42 20.60	4.6X
	Z 22s	0.73um		5.4Msz	
LDF	148.61	1	ePKP	42 20.90	4.6X
	0.4s	1.80nm			
GRR	148.79	2	ePKP	42 21.70	5.2X
HAU	148.89	353	ePKP	42 22.00	5.2X
	Z 23s	1.10um		5.6MszX	
BSF	149.00	352	ePKP	42 22.80	5.7X
LPF	149.14	3	ePKP	42 22.50	5.4X
LOR	149.85	356	ePKP	42 24.40	6.2X
	0.4s	2.40nm			
	Z 23s	1.52um		5.7MszX	
SSF	150.08	356	ePKP	42 25.00	6.5X
	0.5s	3.05nm			
LBF	150.12	356	ePKP	42 24.90	6.2X
BGF	150.61	357	ePKP	42 26.20	6.8X
TCF	150.91	358	ePKP	42 26.70	6.8X
LPL	151.28	351	ePKP	42 28.60	7.9X

S.D. = 0.5 on 20 of 33 obs.

? APR 11, 1993 07h 56m 02.97±1.10s
 39.110 N ±8.3km 27.604 E ±13.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM	0.76	201	iPg	56 17.80	0.0
			iSg	56 30.30	
EZN	1.22	306	iPn	56 25.80	0.1
BNT	1.27	11	ePn	56 26.00	-0.5
KCT	1.28	27	iPn	56 27.10	0.4

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

? APR 11, 1993 10h 06m 10.35±4.81s
 13.287 N ±13.6km 122.875 E ±47.6km
 DEPTH = 33.0km (normol)

LUZON, PHILIPPINE ISLANDS (249)

PGP	1.88	277	eP	06 45.00	4.2X
			eS	07 02.00	
TGY	2.05	293	iPc	06 44.00	0.7
			iS	07 02.00	
QVP	2.25	306	iPd	06 45.10	-0.9
			iS	07 01.20	
CVP	4.51	347	eP	07 24.60	6.5X
SZP	4.84	331	ePd	07 23.00	0.2
PPR	5.35	230	ePd	07 30.00	-0.1
			iS	08 21.00	

S.D. = 1.2 on 4 of 6 obs.

APR 11, 1993 10h 15m 49.81±0.28s
 47.649 N ±6.3km 27.488 W ±3.5km
 DEPTH = 10.0km (geophysicist)

4.6mb (38 obs.)

NORTHERN MID-ATLANTIC RIDGE (403)

EKA	16.93	54	P	19 50.00	2.0
	1.1s	21.60nm		4.2mb	
EPLA	17.17	108	eP	19 53.80	2.6
GUD	18.11	104	eP	20 03.00	-0.1
ETOR	19.41	101	eP	20 17.20	-1.7
EJIF	19.74	117	eP	20 20.00	-2.6
LSF	19.81	83	eP	20 22.20	-1.0
	0.8s	12.20nm		4.3mb	
LPO	20.03	88	eP	20 24.50	-1.0
RJF	20.06	86	eP	20 24.80	-1.1
	Z 21s	0.30um		3.6Msz	
TCF	20.26	83	eP	20 27.30	-0.6
	1.2s	40.45nm		4.6mb	
EVIA	20.26	107	eP	20 28.80	0.7
HYF	20.32	80	eP	20 28.00	-0.5
ECOG	20.39	112	eP	20 29.50	0.1
MAF	20.52	83	eP	20 30.00	-0.6
	0.9s	19.50nm		4.5mb	
CAF	20.55	87	eP	20 30.00	-0.9
	1.0s	29.60nm		4.6mb	
BGF	20.62	82	eP	20 30.90	-0.7
	0.9s	24.25nm		4.6mb	
EHUE	20.68	109	iPc	20 32.80	0.4
ECHE	20.75	103	iPd	20 33.00	-0.1
AVF	20.90	81	eP	20 33.90	-0.6
	1.2s	81.20nm		5.0mb	
SNF	20.92	70	iPc	20 34.13	-0.6
SSF	20.94	80	eP	20 34.40	-0.5
	1.1s	48.10nm		4.8mb	
EROO	21.05	99	eP	20 34.00	-2.1
LOR	21.13	79	eP	20 36.30	-0.6
	1.3s	71.50nm		4.9mb	
	Z 20s	0.20um		3.5Msz	
DOU	21.16	71	P	20 36.40	-0.7
SMF	21.26	81	eP	20 37.70	-0.5
	1.1s	38.85nm		4.7mb	
L8F	21.27	80	eP	20 37.70	-0.7
	1.3s	76.20nm		4.9mb	
ENN	21.94	69	eP	20 45.00	0.0
	0.9s	14.20nm		4.4mb	
WLF	22.21	72	P	20 50.00	2.4
WTS	22.42	66	eP	20 50.00	0.3
	1.0s	12.80nm		4.3mb	
HAU	22.62	76	eP	20 51.70	-0.1
	1.1s	43.45nm		4.9mb	
	Z 23s	0.30um		3.7MszX	
BSF	22.95	77	eP	20 55.10	0.0
	0.9s	23.10nm		4.7mb	
CDF	23.15	75	eP	20 57.30	0.3

EMS	1.1s	17.10nm		4.5mb	
LPL	23.48	81	ePd	21 01.50	1.1
LPG	23.51	82	eP	21 01.60	0.9
LRG	23.53	82	eP	21 02.00	1.0
	23.95	87	eP	21 05.60	0.8
FRF	24.11	87	eP	21 07.70	1.4
	1.1s	32.70nm		4.8mb	
MMK	24.17	81	ePd	21 09.00	1.8
SBF	24.53	86	eP	21 10.70	0.2
LLS	24.63	78	ePd	21 12.90	1.3
TMA	24.76	80	P	21 20.92	8.1X
VDL	25.05	79	P	21 18.94	3.3X
OSS	25.44	78	P	21 20.65	1.4
GRF	25.46	71	ePd	21 19.80	0.6
	0.8s	10.00nm		4.6mb	
	Z 21s	0.20um		3.6Msz	
		e(P)	21 23.40	13kmX	
MOX	25.55	69	eP	21 20.00	-0.1
	1.1s	10.00nm		4.4mb	
	Z 20s	0.20um		3.6Msz	
NB2	25.79	44	P	21 23.20	1.0
	0.7s	3.30nm		4.1mb	
CLL	26.32	67	iP	21 26.70	-0.5
	1.7s	24.00nm		4.6mb	
BRG	26.98	68	iP	21 32.50	-0.7
	1.6s	27.00nm		4.7mb	
		e	21 46.90		
KHC	27.08	71	eP	21 33.90	-0.3
		e	21 44.50		
		e	24 54.50		
PRU	27.51	69	eP	21 38.50	0.4
FRB	27.55	321	eP	21 38.50	0.3
KSP	28.45	67	eP	21 45.60	-0.9
PSZ	31.45	72	eP	22 13.40	0.1
NUR	32.27	47	eP	22 19.00	-1.2
	0.9s	8.70nm		4.7mb	
LKO	42.26	147	P	23 45.02	0.1
	0.7s	11.00nm		4.7mb	
MYNC	43.41	275	(P)	23 55.37	1.2
	1.0s	5.97nm		4.3mb	
MBC	44.76	340	eP	24 05.50	1.0
	1.0s	8.00nm		4.6mb	
TIC	45.14	148	P	24 08.40	0.1
	0.9s	14.50nm		4.9mb	
KIC	45.50	147	P	24 11.00	-0.1
	1.0s	15.00nm		4.9mb	
LIC	45.53	148	P	24 11.00	-0.3
	0.9s	10.50nm		4.8mb	
YKA	48.06	321	eP	24 28.80	-2.0
	1.0s	2.30nm		4.2mb	
INK	52.08	333	eP	25 01.50	0.1
	1.0s	2.00nm		4.0mb	
SDV	53.09	238	eP	25 09.00	-0.8
WMOK	53.38	284	eP	25 10.79	-0.8
	1.0s	5.36nm		4.5mb	
GLD	54.55	292	(P)	25 21.05	0.7
	1.3s	17.55nm		4.9mb	
LCCM	55.04	302	eP	25 23.40	-0.4
BW06	55.44	298	(P)	25 26.09	-0.8
	1.3s	6.47nm		4.5mb	
BRW	55.99	342	eP	25 29.40	-0.7
PV10	57.75	293	eP	25 44.11	0.7
8CAO	58.35	123	iPd	25 46.20	-1.3
	0.8s	14.00nm		5.1mb	
FBA	58.61	334	eP	25 47.82	-0.9
	0.9s	3.22nm		4.4mb	
IMA	59.35	337	eP	25 53.19	-0.9
	0.9s	5.24nm		4.7mb	
MSU	59.60	295	eP	25 55.90	-0.4
LTX	59.99	282	eP	25 57.99	-0.9
TUC	62.69	289	eP	26 16.88	-0.2

11d 10h

11.430 N \pm 4.3km					61.522 W \pm 9.3km					KLU 45.30 40 eP 41 37.77 0.0					LLS 81.77 330 ePc 45 37.10 0.0				
DEPTH = 10.0km (geophysicist)					(95)					BALM 47.09 40 iPd 41 51.99 0.1					VDL 81.91 329 iPc 45 38.20 0.4				
WINDWARD ISLANDS										GUN 47.57 271 P 41 56.40 0.0					TMA 82.46 329 ePd 45 40.60 0.0				
MD 3.4 (TRN).										KKN 48.08 271 P 42 00.40 0.3					VAI 82.70 329 Pd 45 41.50 -0.1				
										PKI 48.11 271 P 42 00.20 -0.3					LOR 83.24 333 eP 45 44.40 0.0				
GRW 0.74 349 eP 21 49.47 1.5										0.6s 15.00nm 4.9mb					0.8s 12.65nm 4.8mb				
										DMN 48.31 271 P 42 02.20 0.3					FLN 83.29 336 eP 45 44.50 -0.1				
TCE 0.76 197 eP 21 47.73 -0.6										GKN 48.44 272 P 42 02.80 0.0					0.5s 5.30nm 4.7mb				
										INK 49.10 29 ePc 42 07.70 0.6					LDF 83.34 336 eP 45 45.30 0.4				
TPR 0.77 108 eP 21 48.01 -0.4										0.5s 4.00nm 4.5mb					0.5s 4.80nm 4.6mb				
										MBC 50.96 18 eP 42 20.50 -0.7					BOB 83.36 328 P 45 45.40 0.2				
TRN 0.79 171 eP 21 47.90 -0.8										0.5s 2.00nm 4.2mb					LBF 83.45 333 eP 45 45.50 0.0				
										KEV 58.49 338 eP 43 12.00 -3.8X					0.6s 7.05nm 4.7mb				
BOT 0.83 108 eP 21 50.54 1.1										0.5s 9.80nm 5.0mb					SSF 83.54 333 eP 45 46.00 0.1				
TBH 1.04 155 eP 21 52.39 -0.6										YKA 58.63 32 eP 43 15.60 -1.2					GRR 83.74 336 eP 45 47.10 0.2				
										0.7s 4.40nm 4.5mb					LPL 83.75 330 eP 45 47.80 0.5				
TPP 1.11 176 eP 21 55.78 1.6										HYB 59.24 266 eP 43 20.70 -0.9					0.7s 6.70nm 4.6mb				
FCV 1.74 9 eP 22 03.31 -0.5										e 44 08.00					LPG 83.76 330 eP 45 48.00 0.6				
										SDF 60.15 336 iP 43 25.80 -1.4					0.6s 6.05nm 4.6mb				
SVB 1.85 8 eP 22 05.24 -0.2										GBA 62.51 263 Pc 43 44.00 0.4					SMF 83.79 333 eP 45 47.40 0.2				
										WB2 62.71 189 eP 43 43.80 -0.9					0.8s 13.15nm 4.8mb				
SVV 1.90 9 eP 22 05.63 -0.5										0.7s 2.20nm 4.2mb					EEO 83.79 27 eP 45 56.00 8.8X				
SLB 2.43 11 eP 22 13.11 -0.7										WRA 62.71 189 P 43 44.50 -0.2					AVF 83.83 333 eP 45 47.70 0.3				
										KAF 63.70 332 iP 43 49.30 -1.5					0.7s 18.30nm 5.0mb				
S.D. = 1.0 on 11 of 11 obs.										0.4s 13.10nm 5.2mb					LPF 84.12 336 eP 45 49.30 0.5				
										OBN 64.09 322 iPc 43 52.50 -1.0					BGF 84.20 333 eP 45 49.60 0.3				
APR 11, 1993 10h 33m 32.22 \pm 0.28s										0.9s 34.00nm 5.3mb					MAF 84.59 333 eP 45 52.00 0.8				
42.639 N \pm 3.5km 142.385 E \pm 3.3km										NUR 65.38 331 iP 44 00.40 -1.3					0.5s 10.70nm 5.0mb				
DEPTH = 134.9 \pm 2.9 km										0.4s 33.30nm 5.6mb					TCF 84.65 334 eP 45 51.90 0.4				
4.7mb (48 obs.)										NEW 65.65 46 eP 44 03.50 -0.2					LSF 84.90 334 eP 45 53.30 0.5				
HOKKAIDO, JAPAN REGION (224)										0.9s 5.70nm 4.5mb					0.5s 11.60nm 5.0mb				
										ASPA 66.44 188 P 44 10.10 1.3					MFF 85.12 335 eP 45 54.60 0.7				
HOOJ 0.71 111 iP+ 33 54.40 1.0										UPP 68.26 333 iP 44 18.40 -1.4					LRG 85.65 330 eP 45 56.70 0.2				
										FCC 68.68 28 eP 44 31.00 8.6X					0.7s 15.55nm 5.0mb				
SAP 0.88 299 iP 33 54.70 0.0										APO 68.91 335 eP 44 21.90 -1.9					RJF 85.75 333 eP 45 57.80 0.8				
										0.5s 30.50nm 5.4mb					CAF 85.90 333 eP 45 59.10 1.3				
MRRJ 0.99 258 iPd 33 55.80 0.1										NB2 69.32 337 P 44 25.40 -1.0					0.7s 13.45nm 4.9mb				
										0.7s 28.50nm 5.2mb					LTX 86.14 53 eP 45 59.22 -0.1				
ASAJ 1.49 7 iPd 34 01.20 0.3										NAO 69.61 337 P 44 25.00 -3.1					LFF 86.32 334 eP 46 01.00 1.2				
										LCCM 69.96 46 eP 44 31.00 0.3					LPO 86.40 333 eP 46 01.30 1.1				
KUSJ 1.77 74 iPd 34 04.50 0.4										FRB 71.16 14 ePc 44 36.00 -1.4					0.5s 9.70nm 5.0mb				
										0.6s 7.00nm 4.7mb					EPF 88.15 333 eP 46 10.60 1.8				
AOMJ 2.57 217 P 34 14.30 0.3										TNP 71.97 55 eP 44 44.20 1.2					LMN 88.63 19 eP 46 15.50 4.6X				
										0.9s 2.34nm 3.9mb					CNCB 143.49 54 PKP 52 52.00 -1.2				
OFUJ 3.60 189 P 34 26.30 -1.2										DUG 73.17 51 eP 44 50.16 0.3					S.D. = 0.8 on 114 of 120 obs.				
										0.6s 2.61nm 4.2mb					& APR 11, 1993 10h 52m 03.45s				
YAMJ 4.81 203 P 34 43.60 -0.1										BW06 73.25 47 iPc 44 50.52 0.2					34.145 N 116.723 W				
										0.4s 1.80nm 4.2mb					DEPTH = 5.4km				
NIIJ 5.99 207 P 34 59.50 -0.2										ULM 74.44 35 eP 45 00.50 3.7X					SOUTHERN CALIFORNIA (43)				
KAKJ 6.65 196 P 35 05.40 -3.3X										MSU 74.67 52 eP 44 59.09 0.4					<PAS-P>. ML 3.0 (PAS).				
										RSSD 75.19 43 eP 45 01.25 -0.3					PEC 0.44 235 iPc 52 11.73 -0.6				
MAT 6.89 209 iPc 35 11.90 -0.1										0.7s 2.96nm 4.2mb					PLM 0.80 188 ePd 52 18.19 -1.3				
0.8s 17.91nm 4.6mb										SRU 75.21 50 eP 45 01.56 -0.1					S 52 28.49				
										KSP 75.74 328 iPc 45 04.30 0.1					SSK 0.81 275 iPc 52 18.42 -1.3				
MTMJ 7.00 212 P 35 29.00 0.3										PV10 76.56 50 ePc 45 10.21 0.9					GSC 1.16 357 eP 52 24.59 -1.0				
CHJJ 7.09 203 P 35 13.30 -1.3										CLL 76.61 330 iP 45 08.50 -0.5					GLA 1.92 124 eP 52 34.73 -2.4				
										1.1s 19.00nm 4.8mb					ISA 2.09 317 ePn 52 37.48 -2.1				
IIDJ 7.95 207 P 35 26.00 -0.3										BRG 76.61 329 i(P) 45 08.60 -0.5					TPNV 2.82 8 (P) 52 53.55 3.4				
										PV08 76.64 50 eP 45 10.44 0.6					MEMM 3.95 334 (P) 53 04.31 -1.6				
MDJ 9.49 286 eP 35 46.60 -0.2										PRU 77.10 328 P 45 12.10 0.4					ARUT 4.51 35 (P) 53 08.93 -5.1				
										e 45 17.50					MSU 5.70 39 (P) 53 26.40 -4.6				
CN2 12.41 281 eP 36 25.20 -0.1										1.1s 12.00nm 4.6mb					10 obs. associated				
										MOX 77.66 330 eP 45 14.90 0.1					? APR 11, 1993 10h 58m 05.81 \pm 1.14s				
BJI 19.83 271 eP 37 53.00 -1.3										KHC 78.16 328 P 45 18.00 0.3					18.783 S \pm 47.2km 177.837 W \pm 34.8km				
										e 45 24.00					DEPTH = 500.0km (geophysicist)				
HHC 23.01 276 eP 38 27.80 1.9										GRF 78.59 330 iPc 45 20.80 0.8					4.0mb (6 obs.)				
										1.0s 30.00nm 5.0mb					FIJI ISLANDS REGION (181)				
BTO 24.21 276 P 38 38.30 0.8										KBA 79.92 327 iPd 45 28.10 0.7					TOO 37.05 232 iPc 04 33.00 -0.7				
XAN 27.47 263 P 39 07.00 -0.5										0.7s 6.00nm 4.5mb					0.5s 4.00nm 4.2mb				
										i 45 33.90					WB2 45.00 260 iPc 05 37.40 -0.2				
LZH 30.31 271 Pc 39 33.20 0.3										RBL 80.35 327 P 45 28.90 -0.6					0.8s 2.90nm 3.9mb				
										VAY 80.35 318 eP 45 29.40 -0.1					ASPA 45.09 255 iPd 05 38.40 0.2				
GTA 32.03 279 P 39 48.00 0.1										WATA 80.40 329 iPc 45 30.10 0.2					0.9s 5.80nm 4.1mb				
										i 45 36.10					ALQ 86.21 51 eP 09 54.50 -0.5				
KMI 36.87 255 eP 40 30.00 0.7										VBY 80.41 325 eP 45 29.60 -0.1					1.0s 2.50nm 3.9mb				
										WTTA 80.44 328 iPc 45 30.40 0.3					FBA 86.54 12 eP 09 54.89 -0.8				
WMO 39.25 291 P 40 49.20 0.3										0.5s 4.70nm 4.5mb					0.7s 2.30nm 4.0mb				
										i 45 36.80					YKA 94.90 25 eP 10 33.50 -0.7				
BRW 41.00 25 ePc 41 02.10 -0.6										MOTA 80.58 329 iP 45 31.10 0.3					0.6s 0.20nm 3.4mb				
IMA 41.54 34 eP 41 06.90 -0.6										SOTA 80.64 329 iPc 45 31.40 0.3					KSP 146.10 344 ePKP 16 49.70 1.2				
										CDF 81.08 332 eP 45 33.40 0.1					CLL 146.43 348 iPKP 16 50.60 1.6				
LSA 42.72 270 eP 41 18.80 0.9										1.0s 112.00nm 5.6mb					KHC 148.36 346 ePKP 16 55.50 3.3X				
										0.1s 112.00nm 5.6mb					FLN 150.02 4 ePKP 16 58.50 3.8X				
SLKM 43.38 42 eP 41 21.65 -0.7										OHR 81.37 319 eP 45 35.00 0.1									
										CTI 81.44 328 Pc 45 34.20 -1.0									
PMS 43.61 41 ePc 41 24.10 -0.1										BSF 81.75 332 eP 45 36.40 -0.4									
CHG 43.63 251 eP 41 25.80 1.0										HAU 81.76 332 eP 45 36.70 -0.1									
PMR 43.77 40 eP 41 25.70 0.3										0.6s 3.05nm 4.2mb									
FBA 44.03 35 iPc 41 27.38 -0.1																			
0.6s 9.89nm 4.7mb																			

[illegible]

11d 11h

			ScP	31	13.00		PGZ	62.97	137	P	28	28.10	-1.2	VAY	97.98	312	eP	31	33.40	-1.9
			eS	32	09.00		NOZ	63.31	135	P	28	31.10	-0.5	BZS	97.94	316	eP	31	36.00	0.7
			ScS	35	33.00		CSY	67.65	186	iPc	28	58.80	0.2	LIT	98.13	311	iP	31	34.60	-1.8
CAN	42.97	149	iPd	26	05.00	1.3		0.7s	68.30nm				5.5mb	SPC	98.23	320	eP	31	37.50	0.7
			iPcP	26	49.20		MAIO	69.00	309	iPc	29	06.60	-1.0	OJC	98.31	321	eP	31	26.60	-10.4X
			iPP	27	47.80			1.1s	62.43nm				5.3mb					31	29.90	20kmX
			iScP	31	15.60				e		37	42.00						35	43.70	
RIV	43.00	146	iPd	26	05.50	1.6	AVY	77.13	250	iPc	29	55.70	0.7	SLL	99.26	332	eP	31	38.90	-2.2
TOO	43.15	155	iPd	26	06.40	1.3	VTY	77.32	250	eP	29	56.50	0.4		0.5s	11.40nm				5.6mb
	0.6s	222.00nm					ABM	77.55	250	iPc	29	57.80	0.4	DAG	99.72	352	iPd	31	42.00	-0.9
			i	27	48.50	572kmX	OPO	77.76	251	iPc	29	58.20	-0.3		1.0s	21.00nm				5.5mb
			iS	31	15.70		RYD	78.04	295	iPc	29	58.10	-1.7	SRO	99.76	319	eP	31	43.20	-0.4
CNB	43.15	149	iPc	26	06.10	0.9	MAW	80.06	200	eP	30	10.00	0.4	NB2	100.05	333	Pdiff	31	42.80	-1.8
			iP	27	50.00	588kmX	DHJN	80.54	288	iPc	30	13.50	0.0		0.9s	7.90nm				5.1mb
MDJ	43.89	6	iPc	26	10.70	-0.2	QASM	80.91	296	eP	30	14.30	-0.7	KSP	100.36	322	ePdiff	31	46.00	-0.2
	0.8s	230.00nm					KMTA	81.15	288	iPc	30	16.90	0.3					32	56.00	
			S	32	19.00		SDN	81.19	34	eP	30	16.43	0.7					e	35	59.30
			ScS	35	36.00			0.6s	223.58nm				6.1mb	ZST	100.47	319	e(Pdiff)	31	46.80	0.1
MRRJ	44.21	18	eP	26	13.60	0.2	SVW	84.70	29	eP	30	35.05	1.5					e	36	03.20
GTA	44.21	333	iPc	26	13.50	-0.2		0.6s	15.15nm				5.0mb	PRU	101.66	322	ePdiff	31	51.00	-1.0
	1.0s	140.00nm					TTA	84.78	27	eP	30	34.83	0.9					e	31	55.00
Z	16s	0.74um				4.7MszX		0.6s	4.30nm				4.5mb					e	35	00.00
E	12s	0.26um					BRW	85.82	19	iPd	30	40.32	1.5					e	35	56.50
			pP	27	15.00	299kmX			e		30	49.73		BRG	101.79	323	iPdiff	31	52.80	0.3
			sP	27	38.00				eP		31	45.14	271kmX		1.0s	21.00nm				5.6mb
			PcP	27	33.00		IMA	86.19	24	iPc	30	41.71	0.8					i	31	55.80
			ScP	31	19.00			0.6s	8.84nm				4.8mb	CLL	102.23	323	ePdiff	31	54.00	-0.4
			S	32	24.00				eP		31	45.68	267km		1.5s	24.00nm				5.5mb
			sS	34	06.00		CP2	86.35	29	eP	30	41.94	0.1	VBY	102.34	317	ePdiff	31	57.80	2.7
			ScS	35	40.00		CRP	86.39	29	(P)	30	41.43	-0.5	KHC	102.50	321	ePdiff	31	55.90	0.1
HOOJ	44.91	20	eP	26	19.90	1.0	GAZ	86.80	307	iP	30	44.70	0.5					e	33	39.00
GUN	45.21	310	P	26	21.60	-0.4	WAJH	87.18	296	eP	30	46.10	-0.1					e	34	48.50
PKI	45.40	309	P	26	22.80	-0.7	SLKM	87.28	30	eP	30	45.71	-0.3					e	35	16.60
KKN	45.61	309	P	26	24.60	-0.4			(pP)		31	51.16	273km					e	36	21.50
DMN	45.66	309	P	26	25.00	-0.4	PMS	87.64	29	eP	30	47.80	0.0					e	36	34.00
KUSJ	46.04	21	eP	26	27.90	0.0	AYN	87.69	299	iPc	30	49.00	0.4	MOX	103.27	323	iPdiff	31	59.50	0.4
GKN	46.21	309	P	26	29.20	-0.5	OBN	87.73	325	iPc+	30	48.00	-0.2		1.1s	11.00nm				5.5mb
ASAJ	46.23	19	eP	26	29.50	0.1		0.9s	78.00nm				5.6mb	YKA	103.31	24	ePdiff	32	00.50	1.5
DZM	47.38	121	iPc	26	38.90	0.2	Z	20s	0.30um				4.7Msz		0.6s	0.60nm				4.5mb
HYB	47.46	293	iPc	26	38.00	-1.3			i		30	53.00		CDF	106.68	322	ePKP	36	43.50	20.0X
	1.0s	230.00nm							e		30	58.00		BGMT	112.72	39	ePKP	36	37.20	1.9
			e	27	39.00	291km			iP		31	58.00	293km	DUG	114.32	45	ePKP	36	39.93	1.4
GBA	47.63	288	Pc	26	40.00	-0.5			eP		32	41.00		MSU	115.45	46	ePKP	36	43.08	2.3
NDI	52.38	306	iPc	27	14.00	-2.2			eP		33	54.00						eSKP	39	51.85
	0.6s	213.33nm							eSKS		40	48.00		SRU	116.38	45	ePKP	36	43.84	1.4
			iS	34	15.00				eS		41	02.00						eSKP	39	52.26
WMO	53.52	328	iPc	27	23.60	-0.8	KVT	87.78	311	iP	30	50.00	1.1	PV10	117.74	45	ePKP	36	46.81	1.6
	1.0s	160.00nm					PMR	87.86	29	eP	30	48.78	0.1					eSKP	39	55.50
IRK	53.81	345	ePc	27	24.30	-2.0		0.5s	4.53nm				4.6mb	RSSD	118.24	37	ePKP	36	46.59	0.7
	1.3s	108.00nm					HRI	87.94	303	eP	30	50.50	0.6					eSKP	39	55.04
			e	27	31.80	25kmX	BHL	88.02	304	P	30	50.00	-0.3	GOL	119.66	42	ePKP	36	50.22	1.4
			e	27	50.20		JVI	88.27	302	iPc	30	51.80	0.4					iSKP	39	59.15
			e	27	57.80		ADAT	88.28	307	eP	30	51.40	0.1	LKO	128.59	283	PKP	37	06.28	-0.1
			e	28	29.10		ADI	88.38	303	iPc	30	52.50	0.6		0.5s	14.00nm				
			e	28	56.00		HQL	88.53	299	eP	30	52.70	0.1	MIAR	130.35	41	ePKP	37	11.30	2.2
KSH	58.08	317	P	27	57.60	0.8	FBA	88.56	25	eP	30	50.67	-1.4					iSKP	40	07.24
	1.2s	390.00nm						0.6s	3.23nm				4.4mb	MYNC	135.74	33	(PKP)	37	19.70	0.3
Z	16s	0.60um				4.8MszX	MBH	88.67	300	iPc	30	53.60	0.2	PRM	137.45	33	(PKP)	37	13.01	-9.6X
			pP	29	01.00	287km	CS	89.93	305	eP	30	58.80	-0.3	RFA	144.34	163	ePKPd	37	34.50	-0.3
			sP	29	21.00		SPA	90.82	180	iPd	31	03.60	0.9	PEL	145.08	158	iPKP	37	37.40	1.3
			PP	30	10.00			1.0s	71.00nm				5.6mb		1.2s	1078.13nm				
			PcS	32	43.00		BALM	91.14	29	eP	31	05.15	1.0	MRA	147.33	165	ePKPd	37	43.30	3.6X
			S	35	38.00		KEV	91.59	340	iP	31	04.50	-1.4	CFA	147.33	161	e(PKP)	37	41.10	1.3
			sS	37	17.00			0.7s	10.70nm				4.9mb	TCA	148.63	166	iPKPd	37	47.60	5.7X
QRZ	60.57	139	P	28	13.90	0.3	SDF	92.10	337	iP	31	08.80	0.5	YJA	156.93	157	ePKPd	37	57.50	3.1X
DSZ	60.57	140	P	28	13.50	-0.1	KAF	92.80	332	iP	31	10.30	-1.3	CNCB	160.32	144	PKP	38	01.00	2.6
WVZ	60.62	142	P	28	13.90	0.1		0.8s	32.60nm				5.4mb					i	38	43.90
KUZ	60.86	134	Pd	28	16.10	0.6	NUR	93.80	331	iP	31	14.90	-1.3	LPB	160.47	144	ePKP	38	00.00	1.6
THZ	61.29	140	P	28	18.50	0.1		0.5s	5.80nm				4.9mb					i	38	43.00
SIZ	61.29	147	P	28	17.90	-0.3	INK	93.90	21	eP	31	18.00	1.4	ZO80	160.66	143	PKP	38	01.70	3.0
QUE	61.29	304	eP	28	16.50	-2.3		0.5s	2.00nm				4.5mb		1.5s	13.44nm				
LTZ	61.41	141	P	28	17.80	-1.3	CIN	94.05	308	eP	31	17.00	-0.9					i	38	44.90
TUZ	61.58	145	P	28	19.60	-0.5	VRI	94.36	316	ePc	31	20.00	0.8	SIV	164.18	162	PKP	38	17.60	16.1X
ODZ	61.65	144	P	28	20.00	-0.6	CVO	94.75	316	ePd	31	15.00	-6.0X					i	39	12.60
BSZ	61.68	137	P	28	21.30	0.4			e		34	37.00								
CNZ	61.82	136	P	28	22.90	0.9	MLR	94.94	316	iPc	31	22.50	0.5							
NGZ	61.85	136	P	28	22.60	0.4			e		34	13.00								
KHZ	62.03	140	P	28	22.40	-0.7	BUL	95.18	250	iPc	31	24.70	1.1							
MRW	62.20	139	P	28	23.00	-1.3		1.0s	19.50nm				5.2mb							
MCO	62.27	158	eP	28	25.50	1.0	MBC	95.39	12	eP	31	24.00	0.7							
CAW	62.38	138	P	28	24.20	-1.4		0.7s	2.00nm				4.4mb							
MNG																				

S.D. = 0.3 on 4 of 4 obs.
 ? APR 11, 1993 13h 03m 36.52±2.96s
 10.233 N ±35.3km 61.161 W ±19.8km
 DEPTH = 60.0km (geophysicist)
 TRINIDAD (98)
 MD 2.6 (TRN).

TBH 0.27 20 iP 03 46.57 0.1
 eS 03 53.32
 TPP 0.30 286 iP 03 46.56 -0.1
 eS 03 53.40
 TRN 0.48 330 iP 03 47.99 -0.3
 eS 03 56.58
 TCE 0.74 308 eP 03 51.70 0.3
 eS 04 01.34

S.D. = 0.5 on 4 of 4 obs.
 * APR 11, 1993 13h 13m 53.84±2.08s
 4.729 S ± 6.0km 152.519 E ± 9.9km
 DEPTH = 98.6 ± 19.4 km
 4.7mb (11 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

PMG 7.06 229 eP 15 36.00 -0.3
 GUA 19.66 337 eP 18 18.40 0.9
 0.8s 220.90nm 5.5mb
 GUMO 19.72 337 eP 18 17.80 -0.4
 0.9s 257.40nm 5.6mb
 PJG 19.72 337 eP 18 18.20 0.0
 DZM 21.89 143 iPc 18 40.90 0.7
 RMQ 21.93 189 eP 18 40.40 -0.1
 0.8s 20.00nm 4.5mb
 QLP 23.13 199 iPd 18 52.80 0.7
 WB2 23.27 228 iPc 18 53.40 -0.2
 0.3s 31.00nm 5.1mb

ARMA 25.57 182 eP 19 16.80 1.4
 0.9s 10.00nm 4.3mb
 ASPA 26.02 222 eP 19 19.20 -0.3
 0.3s 5.50nm 4.6mb
 CMS 27.35 193 eP 19 30.00 -1.6
 STK 28.89 199 iPc 19 44.20 -1.2
 1.8s 2.80nm 3.6mb X
 WARB 32.68 227 eP 20 18.30 -0.6
 MEEK 39.02 232 eP 21 11.00 -1.6
 URZ 40.19 149 eP 21 23.30 1.3
 PGZ 41.63 153 eP 21 34.80 1.0
 CHG 57.70 296 eP 23 38.30 1.4
 GUN 71.84 301 P 25 09.40 0.7
 PKI 72.16 301 P 25 11.00 0.5
 KKN 72.32 301 P 25 12.00 0.6
 0.6s 11.00nm 4.9mb

DMN 72.43 301 P 25 12.80 0.8
 0.8s 19.00nm 5.0mb
 GKN 72.93 301 P 25 15.60 0.8
 CP2 78.29 24 (P) 25 42.18 -2.4
 SLKM 78.72 25 ePc 25 45.71 -1.0
 IMA 80.48 19 eP 25 55.84 -0.3
 0.7s 1.67nm 4.0mb
 FBA 81.92 22 ePc 26 01.88 -1.6
 0.5s 5.80nm 4.7mb
 BALM 82.39 26 eP 26 05.96 -0.2
 INK 88.49 21 eP 26 37.00 1.0
 MBC 94.11 14 eP 27 02.50 0.6
 YKA 95.49 28 eP 27 08.10 -0.4
 0.6s 1.30nm 4.6mb
 PPD 144.62 140 ePKP 33 20.90 -0.4
 S.D. = 1.0 on 31 of 31 obs.

APR 11, 1993 13h 25m 26.48±0.67s
 38.635 N ± 5.7km 23.861 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.2 (ATH).

ATH 0.67 190 iPnd 25 38.90 -0.9
 AGG 1.26 288 ePb 25 51.88 2.0
 eSb 26 10.76
 PAIG 1.30 354 ePb 25 49.48 -1.0
 eSb 26 06.12
 OUR 1.70 3 ePb 25 54.80 -1.5
 LIT 1.81 324 iPb 25 57.80 -0.1
 eSb 26 20.56
 PRK 1.98 71 ePn 26 01.50 1.2
 VLI 2.05 201 ePn 26 09.60 -0.8
 THE 2.11 341 iPn 26 01.94 -0.3

SOH 2.22 350 eSn 26 28.00
 ePn 26 03.16 -0.7
 eSn 26 29.68
 EZN 2.25 57 iP 26 06.00 1.7
 KZN 2.32 317 ePn 26 06.70 1.3
 SRS 2.49 355 ePn 26 06.76 -0.9
 eSn 26 35.56
 KNT 2.63 344 ePn 26 09.32 -0.4
 eSn 26 40.40
 VAY 2.86 340 eP 26 12.70 -0.2
 FNA 2.88 319 ePn 26 13.96 0.7
 S.D. = 1.2 on 15 of 15 obs.

? APR 11, 1993 13h 25m 37.11±3.12s
 7.488 S ±23.3km 130.374 E ±44.2km
 DEPTH = 33.0km (normol)
 TANIMBAR ISLANDS REG., INDONESIA(281)

TLE 2.99 52 iPd 26 23.30 0.0
 iS 26 56.00
 MTN 5.38 172 eP 27 02.00 4.9X
 0.3s 33.00nm 5.3mb
 eS 28 12.00
 KNA 8.36 191 eP 27 38.90 -0.1
 eS 29 15.00
 WB2 12.97 163 eP 28 41.50 -0.3
 i 28 45.40
 eS 31 08.90
 ASPA 16.44 169 eP 29 27.50 0.5
 eS 32 31.40

S.D. = 0.6 on 4 of 5 obs.

% APR 11, 1993 14h 57m 46.83±0.58s
 44.354 N ± 4.6km 7.279 E ± 5.7km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.2 (GEN).

STV 0.11 163 P 57 49.36 0.0
 S 57 50.62
 ENR 0.16 141 P 57 50.37 0.1
 S 57 52.34
 PZZ 0.20 320 P 57 51.34 0.4
 S 57 54.71
 ROB 0.43 98 P 57 56.11 0.7
 S 58 01.81
 BHB 0.49 359 P 57 56.59 0.0
 S 58 03.20
 IMI 0.62 135 P 57 58.95 -0.4
 S 58 07.34
 RRL 0.67 328 P 58 00.04 -0.2
 S 58 09.13
 FIN 0.68 102 P 58 00.07 -0.4
 S 58 09.34
 RSP 0.80 359 P 58 02.49 -0.4
 S 58 13.01
 PCP 0.93 78 P 58 05.17 0.1
 S 58 16.73

S.D. = 0.4 on 10 of 10 obs.

? APR 11, 1993 15h 55m 38.49±1.23s
 39.108 N ± 8.0km 27.640 E ±15.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM 0.77 203 iPg 55 53.50 0.0
 iSg 56 05.00
 EZN 1.24 306 ePn 56 01.60 0.0
 EDC 1.25 8 iPn 56 01.50 -0.2
 BNT 1.27 10 iPn 56 02.20 0.2
 S.D. = 0.3 on 4 of 4 obs.

APR 11, 1993 16h 05m 58.38±0.22s
 32.142 N ± 5.3km 40.321 W ± 2.3km
 DEPTH = 10.0km (geophysicist)
 5.0mb (48 obs.) 4.5msz (25 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

LMN 23.33 313 eP 11 11.50 4.1X
 CBM 25.86 313 eP 11 31.70 0.0
 1.2s 35.88nm 4.9mb
 Z 20s 1.12um 4.4msz
 HRV 26.77 302 P 11 50.00 9.9X
 Z 19s 0.63um 4.2msz
 RSNY 29.33 305 P 12 10.00 6.7X
 Z 22s 0.52um 4.1msz

PAB 29.93 66 eP 12 07.00 -1.8
 CEH 32.21 287 P 12 40.00 11.2X
 Z 21s 0.84um 4.4msz
 EEO 32.91 307 eP 12 40.50 5.8X
 JAO 33.24 321 eP 12 37.00 -0.5
 NAV 33.48 290 eP 12 40.87 1.0
 MFF 33.86 53 eP 12 42.00 -0.2
 1.4s 57.05nm 5.3mb
 LSF 34.94 54 eP 12 52.10 -0.3
 1.3s 39.00nm 5.1mb

PRM 35.09 285 (P) 12 54.73 1.0
 TCF 35.41 54 eP 12 56.10 -0.3
 1.4s 67.10nm 5.3mb
 GOGA 36.11 284 P 13 10.00 7.6X
 Z 22s 0.36um 4.1msz
 FRB 36.23 339 ePc 13 02.70 -0.3
 1.0s 10.00nm 4.6mb
 GBTN 36.37 288 eP 13 05.30 0.7
 MYNC 36.39 287 (P) 13 05.50 0.7
 1.2s 12.51nm 4.6mb
 Z 21s 0.75um 4.4msz
 SSF 36.41 53 eP 13 04.30 -0.5
 1.5s 44.90nm 5.1mb
 SMF 36.58 54 eP 13 06.10 -0.1
 1.5s 88.80nm 5.4mb

LOR 36.68 53 eP 13 06.60 -0.4
 1.3s 26.00nm 4.9mb
 Z 23s 0.22um 3.9msz X
 LBF 36.72 53 eP 13 06.70 -0.7
 1.5s 43.35nm 5.0mb
 SNF 37.52 47 Pc 13 20.20 6.2X
 LRG 38.12 59 eP 13 19.80 0.6
 1.5s 62.70nm 5.1mb

LMR 38.23 59 eP 13 20.40 0.3
 FRF 38.33 59 eP 13 21.30 0.3
 1.7s 94.85nm 5.3mb
 HAU 38.44 52 eP 13 21.50 -0.4
 1.3s 29.95nm 4.9mb
 Z 19s 0.17um 3.9msz
 LPL 38.48 56 eP 13 23.10 0.7
 1.3s 18.75nm 4.7mb
 LPG 38.49 56 eP 13 23.40 0.8
 1.5s 31.85nm 4.8mb
 BSF 38.72 52 eP 13 23.90 -0.4
 1.7s 48.50nm 4.9mb
 DOI 38.79 57 Pc 13 25.90 1.0
 CDF 39.11 51 eP 13 27.20 -0.3
 1.6s 69.65nm 5.1mb

LKO 39.21 117 P 13 27.68 -0.9
 MMK 39.37 55 P 13 31.53 1.6
 VAI 39.92 55 P 13 34.60 0.5
 TMA 40.00 55 P 13 35.91 0.8
 LLS 40.13 54 P 13 37.02 0.9
 SLM 40.80 293 P 13 50.00 8.6X
 Z 18s 0.54um 4.4msz
 FVM 41.02 293 eP 13 44.11 0.8
 0.9s 27.68nm 5.0mb
 Z 18s 1.35um 4.8msz

MOTA 41.59 53 iP 13 48.40 0.3
 1.7s 83.80nm 5.2mb
 i 13 55.10
 SOTA 41.66 53 iPd 13 49.30 0.7
 i 13 55.70

LIC 41.81 120 PKP 13 49.34 -0.6
 GRF 41.82 50 ePc 13 49.90 0.2
 Z 18s 0.30um 4.2msz
 e 13 53.10
 id 13 56.50
 WATA 41.91 53 iPd 13 51.10 0.4
 i 13 57.80

KIC 41.92 120 PKP 13 50.40 -0.5
 CTI 41.93 55 P 13 50.40 -0.4
 WTTA 41.95 53 iPd 13 51.50 0.5
 1.6s 62.70nm 5.1mb
 i 13 58.30
 MOX 42.16 48 ePd 13 52.90 0.4
 1.7s 57.00nm 5.0mb
 Z 18s 0.40um 4.3msz

FVI 42.72 54 P 13 57.80 0.7
 ASS 42.73 60 P 13 57.60 0.2
 KBA 43.11 54 i(P) 14 00.00 -0.6
 1.6s 42.60nm 4.9mb
 i 14 07.10
 RBL 43.27 55 Pc 14 00.80 -0.9
 KHC 43.32 51 eP 14 02.40 0.4
 1.4s 33.00nm 4.9mb
 e 14 08.90

11d 16h

GEC2	43.39	51	e	14	33.50	-0.1	4.5mb	MSU	Z	20s	0.84um	4.8Msz	SJ1	3.60	81	iPd	18	10.00	0.7
			e	15	10.60											iS	18	52.20	
			ePd	14	02.60											e	21	36.00	
			1.1s	9.24nm															
GEC2	43.39	51	e	14	05.70	7.0X	4.5mb	NEW	Z	18s	0.84um	4.8Msz	TRT	4.45	82	ePc	18	20.20	-1.1
			e	14	08.90											eP	20	54.00	
			e	14	13.80											ePc	20	54.00	
			e	14	09.70											iPd	23	00.10	
BRG	43.65	48	eP	14	04.20	-0.5	5.2mb	ARUT	Z	18s	0.84um	4.8Msz	NANU	15.83	154	eP	20	54.00	-0.3
			i	14	10.40											eP	23	14.40	
			e	14	08.00											P	24	23.00	
			1.5s	58.00nm															
SDI	43.69	61	P	14	05.00	-0.2	5.2mb	TPNV	Z	18s	2.18um	5.3Msz	STK	38.89	132	eP	24	37.90	3.4X
			eP	14	08.00														
			1.5s	58.10nm															
			Z	16s	0.40um														
NB2	44.00	33	P	14	07.20	-0.2	4.3mb	GLA	Z	18s	0.84um	4.8Msz	INR	61.71	335	eP	16	19.50	0.8
			e	14	13.60														
			e	14	07.20														
			0.8s	3.80nm															
MIAR	44.13	288	eP	14	08.95	0.2	5.1mb	KVN	Z	18s	0.84um	4.8Msz	GSC	62.18	296	ePd	16	23.19	0.9
			e	14	08.95											eP	16	19.98	
			1.6s	45.35nm															
			Z	19s	0.55um														
ULM	44.44	311	eP	14	14.50	3.5X	4.5Msz	LBFM	Z	20s	0.84um	4.8Msz	ORV	64.13	302	eP	16	34.81	-0.2
			e	14	14.50											eP	16	23.19	
			1.6s	45.35nm															
			Z	19s	0.55um														
VBY	44.47	56	iPc	14	11.30	0.0	4.8Msz	ISA	Z	18s	0.84um	4.8Msz	WDC	64.50	303	P	16	50.00	12.5X
			e	14	11.30											eP	16	23.19	
			1.6s	45.35nm															
			Z	19s	0.55um														
FCC	44.50	323	eP	14	21.00	9.6X	5.1mb	SAO	Z	20s	0.84um	4.8Msz	SIT	66.23	324	P	17	00.00	11.7X
			e	14	21.00											eP	17	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
KSP	45.14	48	eP	14	16.80	0.1	4.8Msz	FBA	Z	20s	0.84um	4.8Msz	FBA	68.27	334	eP	17	11.20	10.0X
			e	14	16.80											eP	17	01.20	
			1.6s	45.35nm															
			Z	19s	0.55um														
ZST	45.65	52	eP	14	20.50	-0.2	4.8Msz	KLU	Z	20s	0.84um	4.8Msz	IMA	69.75	336	eP	17	10.40	0.0
			e	14	20.50											eP	17	10.40	
			1.6s	45.35nm															
			Z	19s	0.55um														
SRO	46.47	53	iP	14	27.50	0.3	5.1mb	PMR	Z	20s	0.84um	4.8Msz	PMS	70.84	331	eP	17	16.90	-0.1
			e	14	27.50											eP	17	16.90	
			1.6s	45.35nm															
			Z	19s	0.55um														
BUD	46.97	53	eP	14	30.00	-1.1	4.8Msz	HON	Z	20s	0.84um	4.8Msz	MAIO	78.74	54	eP	18	04.00	1.2
			e	14	30.00											eP	18	04.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
OJC	47.37	49	eP	14	36.40	2.1	5.3mb	QUE	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	36.40											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
SPC	47.69	51	eP	14	38.10	1.0	4.8Msz	ASPA	Z	20s	0.84um	4.8Msz	PMS	70.84	331	eP	17	16.90	-0.1
			e	14	38.10											eP	17	16.90	
			1.6s	45.35nm															
			Z	19s	0.55um														
ACO	48.09	292	iPd	14	40.00	-0.2	4.8Msz	KLU	Z	20s	0.84um	4.8Msz	MAIO	78.74	54	eP	18	04.00	1.2
			e	14	40.00											eP	18	04.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
MEO	48.09	290	iPd	14	40.10	-0.1	4.8Msz	IMA	Z	20s	0.84um	4.8Msz	QUE	87.32	56	eP	18	04.00	3.3X
			e	14	40.10											eP	18	04.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
WMOK	48.26	290	iPd	14	41.26	-0.2	5.3mb	HON	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	41.26											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
OHR	48.97	61	eP	14	36.50	-10.5X	4.8Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	36.50											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
SKO	49.30	60	eP	14	49.00	-0.4	5.7mb	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	49.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
VAY	50.25	61	iP	14	56.70	0.0	4.8Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	56.70											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
NUR	50.38	36	iP	14	56.00	-1.4	5.0mb	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	14	56.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
CMP	51.34	55	ePd	15	12.00	7.0X	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	12.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
SIV	51.83	206	P	15	23.20	14.4X	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	23.20											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
SDF	51.84	27	iP	15	08.00	-0.4	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	08.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
MLR	51.94	55	ePc	15	11.00	1.4	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	11.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
GLD	52.07	298	eP	15	10.92	0.1	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	10.92											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
GOL	52.20	298	eP	15	11.15	-0.7	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	11.15											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
VRI	52.42	54	eP	15	12.00	-1.0	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	12.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
PPE	52.97	54	eP	15	12.00	-5.1X	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	12.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
LTX	53.82	285	eP	15	22.19	-1.5	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	22.19											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
ALO	54.28	292	eP	15	27.59	0.4	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	27.59											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
BW06	54.57	302	iPd	15	28.55	-0.7	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	28.55											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
YKA	54.86	327	eP	15	34.91	21kmX	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	34.91											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
ZOBO	55.02	213	P	15	33.00	-0.1	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	33.00											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
CCH	55.11	210	P	15	35.10	1.6	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	35.10											eP	20	00.00	
			1.6s	45.35nm															
			Z	19s	0.55um														
LPB	55.23	213	P	15	33.80	-0.7	4.9Msz	PMS	Z	20s	0.84um	4.8Msz	HON	100.14	303	Pdiff	20	00.00	14.0X
			e	15	33.80											eP	20	00.00	
			1.6s	45.35nm															

TIY	24.40	339	eP	40	40.00	2.7	0.9s	6.50nm	4.6mb	BNI	55.12	335	P	51	14.90	0.2				
	Z	24s	0.94um		4.2MszX		81.69	12	eP	47	37.50	0.7	OSS	55.13	339	ePd	51	14.30	-0.5	
	N	20s	1.15um				1.0s	2.00nm	4.1mb	LPG	55.45	336	eP	51	16.20	-1.0				
			S	44	52.00		VR1	83.62	316	eP	47	49.50	2.1		1.0s	32.80nm		5.3mb		
			sS	45	11.00			e	50	39.00				LPL	55.47	336	eP	51	16.40	-0.9
MAT	25.26	30	eP	40	43.00	-2.5	UPP	84.60	331	iP	48	00.60	8.7X		1.2s	49.40nm		5.4mb		
BJI	25.55	348	eP	40	48.50	0.4	SLL	86.35	332	eP	48	00.00	-0.7	OJC	55.56	348	eP	51	17.70	0.1
	1.5s	29.00nm			4.7mb			0.4s	5.70nm				5.1mb	RSL	55.66	336	P	51	17.55	-1.0
	Z	20s	0.30um		3.8Msz		NB2	87.05	333	P	48	03.70	-0.4	DIX	55.66	337	ePd	51	17.90	-0.8
SNY	26.62	1	eP	40	57.60	-0.4		0.8s	3.10nm				4.6mb	LLS	55.71	338	ePd	51	17.90	-1.0
	Z	18s	0.65um		4.2Msz		KSP	88.63	323	eP	48	21.00	9.1X	GRBF	55.77	330	P	51	19.91	0.6
			eS	45	34.00		YKA	90.60	23	eP	48	21.70	0.8	EMS	55.84	336	Pd	51	18.60	-1.3
LEM	26.63	216	iPc	41	05.50	7.0X		0.8s	1.00nm				4.2mb	GEC2	55.85	343	ePd	51	19.30	-0.5
LZH	27.03	324	eP	41	11.00	9.0X	GEC2	90.96	321	eP	48	30.20	7.2X		1.1s	20.78nm		5.1mb		
	2.0s	44.00nm			4.7mb			1.3s	2.01nm				4.3mb		e		51	25.50	20km	
	Z	16s	0.59um		4.2MszX		SDV	152.57	30	ePKP	55	11.00	1.6	SALF	55.88	330	P	51	21.01	0.9
	N	12s	0.39um					S.D. = 1.2	on 50	of 72	obs.			KHC	56.14	343	Pd	51	21.00	-0.8
			sP	41	27.00										1.3s	27.20nm		5.1mb		
LZH	27.03	324	eP	41	01.00	-1.0									e		51	41.00	79kmX	
	2.0s	44.00nm			4.7mb			APR 11, 1993	19h	41m	42.43	± 0.22s			e		52	32.00		
	Z	16s	0.59um		4.2MszX			3.846	S ± 4.0km	35.638	E ± 4.4km				e		53	26.00		
	N	12s	0.39um					DEPTH = 28.1km	(10 depth phases)						e		53	30.00		
HHC	27.52	341	eP	41	07.00	0.6		5.3mb	(52 obs.)					SSB	56.22	334	P	51	22.99	0.6
	Z	22s	0.77um		4.2Msz		TANZANIA			(573)				EPF	56.51	329	eP	51	24.60	0.0
	E	14s	0.47um												1.4s	60.55nm		5.4mb		
BTO	27.81	338	eP	41	16.00	32km	NAI	2.81	25	iPd	42	28.50	1.9	SLE	56.65	338	ePd	51	24.60	-0.9
	N	16s	0.45um		-2.5			1.5s	544.44nm					BBS	56.76	338	P	51	26.00	-0.3
	E	16s	0.78um						iS	42	36.00			COLF	56.78	334	P	51	27.03	0.6
CN2	28.67	4	eP	41	22															

LSF	58.31	333	eP	51	37.30	0.1	SSK	0.68	276	iPc	47	50.06	-0.5	INK	27.80	35	eP	36	23.00	1.9
	1.0s	32.80nm								S	48	05.79	-1.3	MBC	33.81	22	ePc	37	15.30	1.3
HYF	58.59	334	eP	51	39.10	0.0	PLM	0.79	179	eP	47	58.13	-1.1		0.9s	16.00nm			4.9mb	
OBN	58.74	1	iPd	51	41.00	1.0				eS	48	09.25		YKA	35.68	46	eP	37	29.50	-0.7
	1.1s	21.00nm					GSC	1.16	3	iPd	48	04.88	-0.6		0.7s	8.00nm			4.8mb	
Z	16s	0.40um					ISA	2.01	320	ePn	48	16.62	-1.6	GMW	36.47	73	eP	37	37.99	0.9
							GLA	2.03	122	ePn	48	16.02	-2.4	ASR	37.87	74	P	37	48.94	0.0
WLF	59.09	338	Pc	51	43.00	0.5	TPNV	2.85	10	(Pg)	48	36.56	6.3	WTV	38.09	71	P	37	51.34	0.6
MFF	59.35	332	eP	51	44.40	0.1	MTUM	3.49	337	(Pn)	48	39.58	0.2	SAW	38.42	71	P	37	53.92	0.5
DOU	60.03	337	Pc	51	49.10	0.1				ePg	48	47.56		VBEM	38.42	76	P	37	54.85	1.2
SNF	60.48	338	iPc	51	52.77	0.8	MEMM	3.89	335	ePg	48	55.22	10.2	WAH2	38.78	72	P	37	57.46	1.0
LDF	60.81	334	eP	51	54.00	-0.3	TNP	3.94	356	ePg	48	55.82	10.0	CROR	38.83	76	P	37	57.98	1.0
	1.6s	95.75nm					BONR	3.98	344	(Pn)	48	49.49	3.1	DPW	39.04	70	eP	37	58.74	0.0
LPF	60.81	333	eP	51	54.10	-0.2				ePg	48	57.56		NEW	39.49	69	ePc	38	02.41	0.0
	1.0s	34.60nm					ARUT	4.58	36	ePn	48	53.66	-1.3		0.6s	32.21nm			5.3mb	
GRR	60.99	333	eP	51	55.00	-0.5				ePg	49	08.13		LBFM	40.25	81	eP	38	10.34	1.4
FLN	61.09	334	eP	51	55.70	-0.5	12 obs. associated													
	Z	23s	0.68um				APR 11, 1993 19h 51m 13.90±0.81s													
NUR	64.74	354	iP	52	19.60	-0.5	40.359 N ± 6.6km 23.919 E ± 8.6km													
	1.2s	42.50nm					DEPTH = 10.0km (geophysicist)													
KAF	66.16	355	iP	52	29.20	-0.1	GREECE								0.9s	14.18nm			4.9mb	
CHG	66.22	68	eP	52	29.70	-0.8									45.58	75	ePc	38	52.49	0.3
	1.0s	11.25nm					OUR	0.05	117	ePg	51	15.92	-0.2	TPNV	46.40	82	(P)	38	59.15	0.5
SLL	66.46	348	eP	52	30.10	-1.2				eSg	51	17.96		FCC	46.40	46	eP	39	07.00	8.8X
	0.7s	3.10nm					PAIG	0.47	203	ePg	51	23.56	0.1	DUG	46.50	76	eP	38	59.56	0.1
WMQ	66.54	38	iPd	52	31.20	-1.0				eSg	51	29.64			0.8s	9.71nm			4.8mb	
	2.0s	34.00nm					SOH	0.63	317	iPg	51	25.78	-0.8	BW06	46.92	72	ePc	39	02.82	0.0
		PP	54	56.00						eSg	51	34.40			0.7s	34.95nm			5.5mb	
NB2	67.42	347	P	52	36.80	-0.6	THE	0.78	291	ePg	51	29.20	0.2	DAU	47.32	75	eP	39	06.35	0.2
	1.3s	22.30nm								eSg	51	39.36		ARUT	47.61	79	eP	39	08.14	-0.1
KMI	71.11	62	Pc	53	01.00	0.0	SRS	0.80	342	ePg	51	30.00	0.6	SRU	48.56	76	eP	39	15.56	-0.1
	2.0s	60.00nm								eSg	51	41.36		RSSD	49.35	67	eP	39	19.60	-2.1
		pP	53	08.50	24km		KNT	1.12	316	ePg	51	34.88	0.1		0.6s	4.35nm			4.7mb	
		sP	53	12.00						eSg	51	51.36		PV09	49.79	76	eP	39	24.48	-0.8
SDF	71.41	356	iP	53	02.00	0.3	VAY	1.40	314	ePn	51	26.40	-13.1X	ULM	50.21	56	eP	39	30.50	2.6
GTA	72.87	47	P	53	11.00	-0.1								GOL	51.30	72	eP	39	36.57	-0.1
	1.0s	23.00nm								S.D. = 0.6	on	6 of 7 obs.			0.7s	10.65nm			4.9mb	
		pP	53	19.00	26km		* APR 11, 1993 20h 14m 57.83±0.97s							GLD	51.35	72	eP	39	37.68	0.7
		sP	53	23.00			60.167 N ±15.8km 15.206 E ± 6.7km								1.0s	21.50nm			5.1mb	
GYA	74.85	61	iPd	53	22.00	-0.9								FRB	53.33	31	eP	39	50.50	-0.6
	1.0s	12.00nm					DEPTH = 10.0km (geophysicist)								0.7s	6.00nm			4.7mb	
		pP	53	30.00	26km		SWEDEN							GTA	54.93	291	eP	40	03.00	-0.5
LZH	74.87	51	eP	53	21.50	-1.3								JAO	57.51	43	ePd	40	19.50	-2.1
	2.0s	34.00nm					MD 3.7 (BER). Felt.							WMOK	58.52	73	eP	40	27.96	-0.9
		pP	53	30.00	27km										0.6s	6.91nm			4.9mb	
XAN	78.39	54	P	53	42.50	0.1	UDD	0.80	265	iPg	15	12.80	-0.6	WMO	58.75	302	eP	40	31.00	0.5
	1.5s	25.00nm								iSg	15	23.40		LTX	59.30	80	eP	40	33.17	-1.3
AKU	79.42	340	iP	53	50.90	3.6X	SLL	0.99	289	eP	15	17.90	1.3	EEO	61.02	51	eP	40	47.00	1.1
	1.0s	20.00nm								0.1s	15.40nm			MIAR	61.73	69	ePc	40	50.00	-0.8
IRK	80.19	36	ePd	53	51.50	-0.2	UPP	1.25	103	iPg	15	21.40	0.3		0.7s	7.86nm			5.0mb	
	1.6s	31.00nm								iSg	15	38.10		OLY	62.28	67	eP	40	52.36	-2.1
Z	16s	0.42um					NRA0	1.90	289	Pn	15	31.10	0.5	ELC	62.30	64	eP	40	53.14	-1.5
										Lg	15	57.97		KAF	64.91	347	eP	41	10.10	-1.3
		e	54	02.00	33km		HYA	4.55	287	eP	16	07.18	-1.0		0.5s	2.30nm			4.5mb	
BTO	80.71	48	P	53	56.00	1.1	ARA0	10.35	20	Pn	17	28.94	-0.4	CBM	65.86	44	eP	41	16.92	-0.7
HHC	81.91	48	eP	54	02.40	1.2				Sn	19	20.79		GBTN	66.27	62	eP	41	19.39	-1.1
	1.8s	41.00nm								Lg	20	28.71		NUR	66.68	347	iP	41	21.50	-1.2
TIY	81.94	51	eP	54	02.40	1.1									0.7s	4.90nm			4.7mb	
BJI	85.22	49	eP	54	19.00	1.2	S.D. = 1.1 on 6 of 6 obs.													
	1.2s	16.00nm					APR 11, 1993 20h 30m 33.60±0.50s													
TIA	85.40	53	eP	54	20.20	1.4	51.433 N ±10.7km 179.861 W ± 4.7km													
DAG	86.05	349	iPc	54	22.20	0.9	DEPTH = 33.0km (normal)													
	1.1s	43.04nm					4.7mb (27 obs.)													
NJ2	86.28	58	eP	54	24.00	0.7	ANDREANOF ISLANDS, ALEUTIAN IS. (7)													
SIV	95.39	254	eP	55	20.00	13.8X	Felt (111) on Amchitka.													
MDJ	95.50	46	eP	55	06.50	0.4	ADK	2.03	76	ePd	31	08.55	2.4	GUN	71.22	291	P	41	51.00	0.2
TLE	96.69	96	ePc	55	25.60	13.5X				(S)	31	35.13		KKN	71.66	292	P	41	54.20	0.1
WMOK	127.80	312	ePKP	00	48.29	0.7	SMY	3.94	292	eP	31	33.15	-0.1		0.4s	6.00nm			5.0mb	
		i	00	57.03						S	32	30.88		PKI	71.75	291	P	41	55.20	0.4
		ePP	02	26.59		SDN	12.19	64	eP	33	27.00	-0.7	GKN	71.87	292	P	41	55.40	0.1	
LCCM	129.50	331	ePKP	00	52.50	1.8	SVW	16.48	45	ePc	34	28.50	4.8X	GRF	78.81	353	eP	42	35.20	1.0
BW06	130.41	326	ePKPd	00	52.97	0.4				0.7s	36.90nm	4.6mb	GEC2	79.43	351	ePd	42	37.60	-0.1	
		e	01	01.48		KDC	17.00	58	eP	34	29.60	-0.4		0.6s	0.90nm			4.0mb		
PV10	132.93	322	ePKP	01	00.30	2.7	TTA	17.18	39	eP	34	33.63	1.2			e	42	38.80		
SRU	133.36	323	ePKP	01	00.44	2.2				1.1s	14.31nm	4.0mb			e	42	41.90			
		e	01	08.54		CRP	18.09	46	eP	34	42.47	-1.4			e	42	46.60			
LTX	133.87	308	ePKP	00	59.61	0.2	SLKM	18.76	50	eP	34	51.25	-0.6	QUE	79.82	306	eP	42	42.50	2.2
GSC	139.63	324	ePKP	01	12.44	2.4	PMS	19.28	48	eP	34	57.00	-1.1	WTTA	81.19	352	iPc	42	47.60	0.4
						PMR	19.58	47	eP	34	59.37	-2.0X		0.6s	3.40nm			4.5mb		
										0.7s	12.11nm	4.3mb	KBA	81.21	351	iPc	42	48.30	1.0	
														0.6s	7.40nm			4.9mb		

FRANCE (538)
ML 2.1 (GEN).
RRL 0.25 355 P 08 14.10 0.1
S 08 17.78
PZZ 0.26 129 P 08 14.29 0.1
S 08 18.08
BHB 0.36 62 P 08 15.98 -0.1
S 08 21.01
STV 0.56 140 P 08 19.87 -0.2
S 08 27.24
RSP 0.57 33 P 08 20.31 0.0
S 08 27.77
ENR 0.62 136 P 08 21.20 0.0
S 08 29.57
LSD 0.82 17 P 08 24.60 -0.1
ROB 0.84 116 P 08 25.09 0.2
S.D. = 0.1 on 8 of 8 obs.

? APR 11, 1993 21h 50m 08.71±1.05s
17.585 N ±31.3km 94.931 W ±13.2km
DEPTH = 148.3 ± 21.0 km
3.7mb (1 obs.)
CHIAPAS, MEXICO (61)

OXX 1.78 254 iP 50 40.69 -1.1
iS 51 05.73
SCX 2.35 111 iP 50 48.90 0.5
iS 51 18.00
IISM 2.71 301 iP 50 51.19 -1.6
iS 51 23.04
IIT 3.51 295 iP 51 03.87 0.4
TPX 3.70 136 (P) 51 34.69 29.0X
PPM 3.81 293 iP 51 07.93 0.3
(S) 51 41.32
IIA 3.87 294 iP 51 08.76 0.9
III 4.39 281 (P) 51 14.75 -0.3
MRX 6.30 291 iP 51 42.16 1.7
ALO 20.11 331 ePc 54 33.00 -0.1
1.0s 3.38nm 3.7mb
YKA 46.92 348 eP 58 25.00 -0.8
0.4s 0.10nm 2.8mb X
S.D. = 1.2 on 10 of 11 obs.

? APR 11, 1993 22h 37m 39.28±1.02s
36.581 S ±18.6km 73.338 W ±15.2km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)

NEAR COAST OF CENTRAL CHILE (135)
RFA 4.36 67 eP 38 52.20 7.2X
S 40 01.20
RTBS 5.87 34 e(P)c 39 07.60 1.4
RTCV 6.16 42 ePc 39 10.00 -0.4
CFA 6.52 42 ePc 39 14.30 -1.1
TCA 8.95 57 eP 39 48.20 -1.1
CCH 20.16 20 eP 42 22.00 8.0X
CNCB 20.26 15 P 42 16.80 1.5
e 43 15.00
LPB 20.50 14 eP 42 13.00 -4.7X
ZOBO 20.75 14 P 42 22.00 1.5
e 43 21.00
SIV 23.23 31 P 42 58.00 13.5X
PPD 23.99 59 eP 42 56.00 4.2X
FVM 75.86 346 (P) 49 22.00 -1.8
1.1s 19.51nm 5.0mb
KIC 76.90 72 (P) 49 30.00 -0.2
ALO 77.55 333 ePc 49 33.00 -0.6
1.0s 6.63nm 4.6mb
PV09 81.69 332 eP 49 56.00 0.1
RSSD 85.02 338 eP 50 11.40 -1.2
1.0s 10.85nm 5.0mb
e 50 21.00
BW06 85.61 334 eP 50 14.90 -0.7
MCMT 88.57 333 eP 50 30.30 0.4
GBA 145.25 124 PKP 57 15.00 -0.6
HYB 148.69 120 ePKP 57 24.00 2.8
S.D. = 1.4 on 15 of 20 obs.

APR 11, 1993 23h 22m 49.21±0.35s
78.181 N ± 6.5km 126.128 E ± 4.8km
DEPTH = 10.0km (geophysicist)
4.8mb (28 obs.)

EAST OF SEVERNAYA ZEMLYA, RUSSIA(654)
MBC 21.63 36 eP 27 41.00 0.2
0.9s 7.00nm 4.1mb

DAG 24.03 341 eP 28 04.30 0.0
0.9s 7.56nm 4.3mb
IMA 24.81 73 iPc 28 12.13 0.0
1.1s 19.04nm 4.7mb
e 28 23.20
KEV 25.05 306 iP 28 14.70 0.4
1.0s 50.00nm 5.2mb
INK 26.54 55 eP 28 30.00 1.8
1.0s 2.00nm 3.8mb X
IRK 27.18 210 eP 28 41.50 7.3X
2.5s 66.00nm 4.9mb
Z 14s 0.58um 4.3mszX
e 29 48.00
LR 40 40.00
SDF 27.23 304 iP 28 38.20 3.7X
KAF 32.11 299 iP 29 17.00 -1.0
1.1s 20.10nm 5.0mb
NUR 33.90 300 eP 29 33.00 -0.6
YKA 34.93 45 eP 29 40.50 -1.9
1.1s 4.60nm 4.3mb
NB2 35.66 311 P 29 49.50 0.8
1.1s 14.00nm 4.7mb
SLL 35.86 309 eP 29 49.60 -0.8
0.4s 0.90nm 3.9mb
OBN 36.70 286 iPd 29 58.00 0.5
1.1s 39.00nm 5.1mb
Z 12s 0.50um 4.5mszX
N 12s 0.40um
i 31 23.00
e 33 03.00
WMO 37.62 227 P 30 05.20 -0.2
1.0s 7.00nm 4.4mb
Z 16s 0.52um 4.4mszX
sP 30 15.20
pP 30 16.00 38kmX
eS 35 52.00
BJI 38.47 192 eP 30 13.50 1.1
1.0s 11.00nm 4.5mb
Z 15s 0.53um 4.5mszX
N 16s 0.58um
EKA 43.24 320 P 30 52.00 0.4
1.1s 16.50nm 4.7mb
LZH 43.25 207 eP 30 52.00 -0.1
1.5s 22.00nm 4.7mb
Z 13s 0.55um 4.6mszX
N 11s 0.50um
PP 32 40.00
OJC 44.55 299 eP 31 03.00 0.8
KSP 44.57 302 iP 31 02.50 0.1
e 32 12.80
CLL 44.69 305 iP 31 03.20 -0.1
1.2s 19.00nm 4.9mb
e 32 31.00
BRG 44.95 304 eP 31 05.80 0.3
1.4s 17.00nm 4.8mb
e 31 14.20
SPC 45.46 298 eP 31 11.30 1.6
MOX 45.56 306 iPd 31 10.90 0.6
1.5s 24.00nm 4.9mb
PRU 45.70 303 eP 31 12.00 0.6
e 31 21.50
GRF 46.55 306 ePd 31 19.10 0.9
1.7s 64.00nm 5.4mb
Z 20s 0.10um 3.8msz
e(pP) 31 28.80 32kmX
KHC 46.69 304 eP 31 20.00 0.7
e 31 32.60
e 32 21.60
GEC2 46.95 303 ePd 31 21.90 0.5
1.2s 9.60nm 4.8mb
e 31 27.50
e 31 31.80
e 31 38.70
ZST 46.98 300 eP 31 22.50 1.0
i 32 02.70
SRO 47.13 299 eP 31 24.20 1.5
NEW 48.24 53 ePc 31 31.84 0.3
1.0s 28.77nm 5.3mb
CDF 48.44 309 eP 31 33.10 0.0
1.0s 13.20nm 5.0mb
KBA 48.72 303 iPd 31 36.50 1.1
1.2s 26.20nm 5.2mb
i 31 41.80
i 32 17.10
HAU 48.98 309 eP 31 37.10 -0.1
BSF 49.08 309 eP 31 37.70 -0.3
LOR 50.09 311 eP 31 44.80 -0.9

1.1s 10.25nm 4.7mb
HYF 50.28 312 eP 31 46.70 -0.4
SSF 50.35 312 eP 31 46.90 -0.7
LBF 50.35 311 eP 31 46.90 -0.8
1.0s 15.60nm 4.9mb
SMF 50.70 311 eP 31 49.40 -0.9
BGF 50.94 312 eP 31 51.50 -0.6
0.7s 7.30nm 4.7mb
TCF 51.30 312 eP 31 54.00 -0.9
LPL 51.34 308 eP 31 55.50 0.0
0.9s 5.10nm 4.5mb
LPG 51.36 308 eP 31 55.90 0.2
LSF 51.44 313 eP 31 55.10 -0.9
LCCM 51.44 49 eP 31 55.30 -0.9
RJF 52.37 313 eP 32 02.20 -0.8
1.2s 20.55nm 4.9mb
LPO 53.02 313 eP 32 07.60 -0.3
EPF 54.77 313 eP 32 19.60 -1.2
0.9s 9.65nm 4.8mb
DAU 56.84 50 eP 32 36.32 0.2
BONR 58.06 57 eP 32 45.54 0.8
CHG 60.83 210 eP 33 02.10 -1.5
GBA 68.84 232 P 33 55.00 -0.4
S.D. = 0.8 on 50 of 52 obs.

APR 11, 1993 23h 24m 40.03±0.76s
41.574 N ± 7.7km 24.111 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SRS 0.60 221 ePg 24 51.88 -0.3
eSg 25 01.92
SOH 0.94 217 ePg 24 58.04 0.0
eSg 25 12.68
KNT 1.00 246 ePg 24 59.48 0.5
eSg 25 14.84
VAY 1.19 258 iPn 25 02.50 0.4
OUR 1.24 185 iPb 25 02.84 -0.3
THE 1.28 223 ePb 25 03.80 -0.1
eSb 25 22.12
GRG 1.43 245 iPb 25 07.17 1.1
eSb 25 27.16
ALN 1.61 114 iPb 25 08.92 0.4
iSb 25 30.36
PAIG 1.68 191 iPb 25 08.88 -0.7
eSb 25 32.72
LIT 1.92 220 ePb 25 13.44 0.4
eSb 25 39.56
EZK 2.43 135 iPn 25 18.40 -1.9
DMK 2.74 84 ePn 25 27.00 2.1
BZS 4.43 337 ePc 25 47.00 -1.7
S.D. = 1.2 on 13 of 13 obs.

* APR 11, 1993 23h 25m 37.84±1.02s
29.877 N ± 6.5km 50.919 E ± 5.2km
DEPTH = 41.6 ± 10.5 km
4.5mb (25 obs.)

SOUTHERN IRAN (353)
Felt at Goch Soron.
DHR 3.63 191 eP 26 35.50 2.5
eS 27 44.00
KER 5.51 325 eP 27 02.00 2.2
TEH 5.86 4 e(P) 27 12.00 7.4X
RYD 6.41 218 iPc 27 11.50 -0.7
iS 28 22.50
QASM 7.54 242 ePc 27 25.67 -2.4
TAB 9.01 336 eP 27 53.00 4.4X
MAIO 9.63 46 eP 27 58.00 1.0
AYN 13.05 269 eP 28 40.80 -2.3
MASJ 13.20 282 P 28 42.20 -2.9X
SALJ 13.25 283 P 28 42.60 -3.2X
SHWJ 13.36 276 P 28 44.00 -3.3X
HSHJ 13.51 272 P 28 47.20 -2.0
QUE 13.89 85 eP 28 59.50 5.1X
eS 31 54.50
CSS 15.69 293 eP 29 18.00 0.4
KSH 22.66 58 P 30 41.00 4.3X
0.6s 10.00nm 4.4mb
Z 16s 1.07um 4.4mszX
N 12s 0.42um
E 12s 0.39um
NDI 22.96 86 eP 30 43.00 3.5X
VRI 24.75 317 eP 31 00.00 3.2X
MLR 25.03 315 eP 31 03.50 3.9X
CVO 25.06 316 ePc 31 03.50 3.8X
MTUR 25.44 314 eP 31 11.00 7.6X

11d 23h

CMP	25.48	314	ePc	31	06.00	2.3	GYA	5.27	105	Pn	38	06.40	-1.1	37.969 N \pm 7.0km	20.988 E \pm 4.0km
VAY	25.61	304	eP	31	06.50	1.6		1.0s	19.00nm			4.7mb	X	DEPTH = 10.0km	(geophysicist)
OHR	26.84	303	eP	31	17.50	1.2	XAN	9.14	46	eP	39	02.40	0.8	3.1mb (1 obs.)	
GKN	29.51	85	P	31	40.20	-0.5		N 10s	0.44um					IONIAN SEA	(399)
DMN	30.00	86	P	31	44.60	-0.6	CN2	25.25	45	eP	42	14.00	-0.2	MD 3.4 (ATH).	
	0.6s	26.00nm			5.2mb		WRA	57.50	142	P	46	37.00	-1.5		
KKN	30.11	85	P	31	45.20	-0.9		1.0s	0.90nm			3.8mb		VLS	0.38 304 ePg 23 15.00 0.1
	0.6s	27.00nm			5.2mb		YKA	85.50	16	eP	49	39.50	13.8X	AGG	1.49 45 ePb 23 33.92 0.0
PKI	30.27	86	P	31	46.60	-1.1		0.6s	0.10nm						eSb 23 56.32
	0.6s	20.00nm			5.1mb			S.D. = 1.6 on 6 of 7 obs.					IGT	1.64 342 ePb 23 36.24 0.1	
GUN	30.60	85	P	31	49.80	-0.8									eSb 23 59.32
	0.8s	40.00nm			5.2mb		? APR 12, 1993 00h 47m 33.18 \pm 7.75s						KEK	1.97 332 ePg 23 44.90 4.0X	
GEC2	34.01	314	ePd	32	19.70	-0.1		18.116 N \pm 13.8km	67.330 W \pm 51.7km				VLI	1.99 128 ePn 23 41.50 0.3	
	0.5s	0.88nm			4.0mb		DEPTH = 10.0km (geophysicist)						ATH	2.16 89 ePn 23 42.60 -1.0	
WTTA	34.84	311	iPc	32	26.70	-0.4	MONA PASSAGE						KZN	2.41 14 ePn 23 49.10 1.8	
	1.1s	14.30nm			4.8mb		(89)						LIT	2.43 28 ePn 23 49.28 1.8	
		i		32	32.20									eSn	24 19.96
NUR	35.31	338	iP	32	29.80	-0.8	MGP	0.25	115	P	47	38.30	-0.3	FNA	2.83 6 ePn 23 53.00 -0.2
	0.4s	1.50nm			4.3mb		LRS	0.49	69	P	47	43.00	-0.2	PAIG	2.87 46 ePn 23 54.24 0.5
FUR	35.32	312	eP	32	31.20	0.2			S		47	51.30		THE	3.07 29 ePn 23 55.96 -0.5
KAF	36.03	341	iP	32	35.80	-0.9	APR	0.66	60	P	47	46.10	-0.2	OHR	3.14 357 iPn 23 57.00 -0.6
	0.4s	1.40nm			4.2mb				S		47	57.20		GRG	3.18 20 ePn 23 57.88 -0.2
LPG	37.77	307	eP	32	52.60	0.7	PORP	0.66	95	P	47	45.80	-0.6	OUR	3.32 44 ePn 24 00.64 0.6
	0.7s	3.75nm			4.4mb		SJG	1.12	90	i(P)	47	55.50	1.3	LCI	3.34 316 P 24 01.50 1.1
LPL	37.78	307	eP	32	51.90	-0.1	CPD	1.35	93	P	47	57.80	-0.2	SOH	3.39 32 ePn 24 01.20 0.1
	1.0s	9.60nm			4.6mb		LPR	1.40	82	P	47	59.00	0.2	KNT	3.51 24 ePn 24 02.24 -0.6
BSF	38.16	311	eP	32	54.60	-0.4			S.D. = 0.7 on 7 of 7 obs.				VAY	3.56 20 ePn 24 03.00 -0.5	
	0.6s	2.80nm			4.3mb		* APR 12, 1993 00h 57m 57.98 \pm 0.55s						SRS	3.73 32 ePn 24 05.72 -0.3	
HAU	38.49	311	eP	32	57.00	-0.6		28.314 N \pm 10.6km	82.799 E \pm 7.7km				ROI	3.81 296 P 23 59.10 -8.0X	
AP0	39.31	332	eP	33	03.00	-1.2		DEPTH = 33.0km (normol)					TDS	4.01 296 P 24 10.20 0.4	
	0.4s	3.00nm			4.4mb		4.7mb (7 obs.)						SKO	4.01 5 ePn 24 08.00 -1.9	
Z	16s	0.22um			4.1mszX		NEPAL							i	24 20.20
		LR		43	22.00									i	24 25.00
BCAO	39.70	237	iPc	33	09.10	1.0	NDI	4.93	276	iPnc	59	13.50	1.9	ORI	4.11 302 P 24 10.30 -1.0
	0.7s	6.00nm			4.5mb				iSn		00	06.00			eSn 25 00.20
SMF	39.94	308	eP	33	09.50	-0.2			iSg		00	30.00		MEU	4.89 262 P 24 17.70 -4.8X
	0.7s	9.15nm			4.7mb		SHL	8.56	107	iPn	00	01.00	-1.7	SGO	5.11 302 P 24 25.20 -0.3
LOR	40.02	309	eP	33	09.90	-0.4			iSn		01	33.80		SDI	6.66 306 P 24 47.50 0.0
SSF	40.22	309	eP	33	12.00	0.0	HYB	11.53	201	eP	00	42.50	-0.8	NB2	23.90 348 P 28 21.90 0.4
	0.8s	4.15nm			4.3mb			0.8s	38.50nm			5.6mb			0.6s 0.30nm 3.1mb
NB2	40.70	332	P	33	14.60	-1.1			eS		02	48.00			S.D. = 0.9 on 24 of 27 obs.
	0.7s	1.30nm			3.8mb		QUE	13.96	282	eP	01	14.00	-1.9		% APR 12, 1993 01h 56m 46.45 \pm 0.57s
TCF	41.02	307	eP	33	18.80	0.3			eS		03	53.50			40.821 N \pm 5.9km 28.763 E \pm 4.3km
MFF	42.67	308	eP	33	31.80	-0.2	GBA	15.46	200	P	01	35.00	-0.3		DEPTH = 10.0km (geophysicist)
LDF	42.85	311	eP	33	33.00	-0.5	MAIO	21.21	298	eP	02	44.00	0.8	TURKEY	(366)
FLN	43.10	311	eP	33	51.00	15.5X	GYA	21.27	89	P	02	44.00	0.1	MD 2.9 (ISK).	
	0.4s	2.50nm						1.0s	9.60nm			4.2mb		ISK	0.33 42 iPg 56 53.00 0.5
GRR	43.31	310	eP	33	36.80	-0.4	XAN	23.04	69	P	03	02.00	0.7	CTT	0.41 322 iPg 56 55.00 0.1
LPF	43.40	310	eP	33	37.50	-0.4	CN2	37.35	54	Pd	05	09.20	0.1	YLV	0.53 119 iPg 56 56.80 -0.4
XAN	48.83	69	P	34	20.60	-0.6		1.0s	12.00nm			4.7mb			eSg 57 04.30
	0.8s	5.50nm			4.6mb		HFS	55.54	325	eP	07	30.30	-1.7	HRT	0.69 90 iPg 57 00.80 0.7
Z	12s	0.47um			4.7mszX			0.4s	1.70nm			4.4mb		BNT	0.79 234 iPg 57 02.40 0.5
		sP		34	40.20		WB2	69.16	128	iPc	09	05.00	1.5		iSg 57 14.90
LSZ	49.96	209	iPc	34	32.00	2.0		1.0s	13.90nm			5.0mb		EDC	0.83 236 iPg 57 02.50 -0.1
LKO	56.33	261	P	35	17.58	0.3	MBC	74.77	5	eP	09	36.00	0.0	EYL	1.09 103 ePn 57 06.30 -0.7
	0.6s	8.00nm			4.9mb		RMQ	83.53	125	eP	10	25.60	1.4	DMK	1.25 323 ePn 57 09.00 -0.8
KIC	57.21	257	Pc	35	24.06	0.5		0.9s	10.00nm			4.9mb			S.D. = 0.7 on 8 of 8 obs.
	0.9s	16.00nm			5.1mb		YKA	88.44	8	eP	10	46.40	-1.4		% APR 12, 1993 03h 13m 03.27 \pm 0.62s
TIC	57.30	258	P	35	24.58	0.4		0.6s	0.30nm			3.8mb			39.125 N \pm 5.8km 28.732 E \pm 6.4km
LIC	57.53	258	Pc	35	26.04	0.3	ZOBO	150.63	288	ePKP	17	50.00	6.2X		DEPTH = 10.0km (geophysicist)
	0.8s	16.00nm			5.1mb		LPB	150.73	287	ePKP	17	45.00	1.3	TURKEY	(366)
CN2	59.36	54	eP	35	41.70	3.7X	CNCB	150.77	287	PKP	17	51.00	7.0X	MD 2.9 (ISK).	
	1.0s	6.90nm			4.7mb			S.D. = 1.4 on 15 of 17 obs.						KHL	1.01 142 iPn 13 23.00 0.5
Z	13s	0.60um			4.9mszX			? APR 12, 1993 01h 02m 16.90 \pm 0.97s						ALT	1.08 93 ePn 13 23.20 -0.4
MBC	73.96	358	eP	37	10.50	0.4		38.831 N \pm 12.8km 106.986 E \pm 10.8km						KCT	1.16 346 iPn 13 25.80 0.9
	1.0s	3.00nm			4.2mb			DEPTH = 10.0km (geophysicist)						IZM	1.36 238 ePn 13 28.00 -0.3
FRB	75.29	336	eP	37	18.50	0.5	WESTERN NEI MONGOL, CHINA							BNT	1.38 333 ePn 13 28.30 -0.2
INK	82.06	2	eP	38	00.50	5.9X	ML 3.3 (BJI).							EDC	1.39 332 ePn 13 28.50 -0.2
IMA	82.51	10	eP	37	58.00	0.7								YLV	1.52 19 ePn 13 30.30 -0.3
	1.0s	1.60nm			4.0mb									EYL	1.81 37 ePn 13 34.80 0.0
YKA	87.22	353	eP	38	21.60	0.9									S.D. = 0.5 on 8 of 8 obs.
	0.8s	1.80nm			4.4mb		BTO	2.93	52	ePn	03	02.80	-1.7		APR 12, 1993 03h 23m 56.74 \pm 0.65s
	S.D. = 1.1 on 46 of 61 obs.								Sn		03	43.00			40.817 N \pm 5.4km 20.914 E \pm 5.7km
? APR 12, 1993 00h 36m 46.63 \pm 2.66s							LZH	3.71	223	ePg	03	15.00	-0.6		DEPTH = 10.0km (geophysicist)
27.924 N \pm 11.3km 100.976 E \pm 33.4km									Sg		03	58.00			GREECE-ALBANIA BORDER REGION
DEPTH = 10.0km (geophysicist)							MHC	4.06	59	Pnc	03	22.00	1.5		MD 3.0 (ATH). ML 2.6 (SKO).
3.8mb (1 obs.)									Sn		04	16.00			
YUNNAN, CHINA															

				S	31	31.50	
	S.D. = 1.2	on	6	of	6	obs.	
% APR 12, 1993	05h	36m	46.42±	0.76s			
42.712 N ± 5.7km			12.670 E ± 12.7km				
DEPTH = 10.0km			(geophysicist)				
CENTRAL ITALY						(381)	
MNS	0.33	179	P	36	53.10	-0.1	
			eSg	36	58.80		
ASS	0.36	359	P	36	53.40	-0.4	
			eSg	36	58.90		
AQU	0.65	123	P	36	59.70	0.2	
			eSg	37	11.20		
RDP	0.95	178	P	37	04.50	-0.1	
			eSg	37	20.30		
CRE	1.06	330	P	37	06.80	0.4	
			eSg	37	23.90		
	S.D. = 0.5	on	5	of	5	obs.	

? APR 12, 1993 06h 46m 58.39 \pm 1.03s
46.438 N \pm 10.9km 13.063 E \pm 6.7km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.5 (VIE).

FVI	0.25	309	Pd	47	03.60	-0.1
			eSg	47	07.30	
RBL	0.35	89	Pc	47	05.60	0.0
			eSg	47	11.50	
KBA	0.67	17	iPgd	47	11.90	0.1
	0.3s	5.20nm				
			i	47	19.10	
			iSg	47	21.00	
CTI	1.05	249	P	47	18.40	0.0
			eSg	47	32.60	

? APR 12, 1993 06h 47m 13.24± 1.90s
22.899 S ±17.4km 169.770 E ±23.0km
DEPTH = 33.0km (normol)

4.1mb (4 obs.)
LOYALTY ISLANDS REGION (189)
DZM 3.18 284 iPd 48 02.90 0.6

			IS	48	50.80	
BKM	5.40	344	iP	48	33.50	-0.1
			IS	49	40.00	
RMO	19.42	255	eP	51	45.00	5.2X
	0.9s	13.00nm				4.2mb
QLP	23.47	256	eP	52	21.30	0.5
ASPA	32.91	261	eP	53	49.60	2.8X
	1.0s	7.60nm				4.5mb
WB2	33.05	268	eP	53	46.40	-1.7
	0.6s	1.10nm				3.9mb
WRA	33.07	268	P	53	55.80	7.6X
	0.6s	0.60nm				3.7mb
BCAO	146.68	241	iPKPc	06	53.00	0.6

0.8s 7.00nm
S.D. = 1.4 on 5 of 8 obs.

* APR 12, 1993 06h 54m 43.69 \pm 1.36s

28.038 N \pm 12.2km 100.842 E \pm 18.6km
DEPTH = 10.0km (geophysicist)
4.2mb (4 obs.)
SICHUAN, CHINA (307)
ML 4.1 (BJI).

KMI	3.36	149	Pnd	55	39.00	1.4
			Pg	55	41.50	
			Sn	56	19.50	
CD2	3.83	41	ePn	55	47.20	3.2X
			ePg	55	53.00	
			Sn	56	34.50	
GYA	5.42	106	Pn	56	05.60	-1.0

	1.0s	34.00nm	4.9mb
Z	10s	0.97um	3.9Msz
		Sn	57 06.00
LZH	8.42	17 eP	57 27.00 38.2X
		La	59 18.00

XAN	9.15	47	P	56	59.38	0.5
	Z 16s		0.29um			
	N 10s		0.44um			
	E 10s		0.43um			
			pP	57	02.98	
CN2	25.25	45	eP	00	13.00	1.7
	0.8s		5.70nm			4.3mb

12d 07h

MDJ 28.26 47 eP 00 37.70 -1.3
 WRA 57.66 142 P 04 35.50 -1.2
 0.6s 0.50nm 3.7mb
 NB2 65.72 328 P 05 30.30 -0.1
 0.7s 0.80nm 4.0mb
 S.D. = 1.5 on 7 of 9 obs.

* APR 12, 1993 07h 45m 36.20±0.94s
 24.049 S ± 7.2km 179.795 E ± 11.3km
 DEPTH = 517.1 ± 12.3 km
 4.6mb (6 obs.)

SOUTH OF FIJI ISLANDS (171)

VUN 6.14 348 iPd 47 14.80 -0.7
 OUZ 12.37 204 P 48 22.00 2.7
 e 48 30.40
 WCZ 12.75 200 P 48 25.70 2.4
 KUZ 13.13 195 P 48 28.00 0.8
 e 48 33.40
 HBZ 13.57 185 eP 48 31.50 -0.1
 WLZ 14.24 194 eP 48 39.10 0.7
 URZ 14.35 189 eP 48 36.60 -3.0
 NOZ 14.60 185 eP 48 42.00 -0.1
 PATZ 14.60 191 P 48 44.20 2.0
 PAHZ 14.95 188 eP 48 44.60 -1.0
 MOZ 15.03 195 eP 48 46.90 0.6
 NGZ 15.50 192 eP 48 51.80 0.6
 THZ 15.65 189 P 48 54.40 1.9
 WAHZ 15.87 190 eP 48 53.40 -1.4
 PGZ 16.79 189 eP 49 02.80 -0.9
 MNG 16.91 191 eP 49 01.80 -3.2X
 CAW 17.47 192 eP 49 10.00 -0.4
 MRW 17.66 193 eP 49 10.50 -1.7
 TCW 17.73 194 eP 49 11.80 -1.1
 ORZ 17.81 198 P 49 14.50 0.9
 THZ 18.58 196 eP 49 21.40 0.2
 DSZ 18.86 199 eP 49 24.30 0.4
 KHZ 19.04 194 eP 49 23.70 -1.8
 LTZ 19.78 197 P 49 30.30 -1.5
 0.4s 56.00nm 5.5mb
 WVZ 20.40 199 eP 49 37.40 -0.9
 CTA 31.29 271 iPc 51 15.00 0.0
 TOO 32.21 237 iPc 51 23.90 1.2
 0.5s 5.00nm 4.3mb
 WB2 42.20 266 iPc 52 44.20 -0.5
 0.3s 6.40nm 4.6mb
 iScP 57 31.50
 eS 58 26.80
 WRA 42.21 266 P 52 44.80 0.0
 0.8s 2.00nm 3.7mb
 WARB 47.90 256 eP 53 28.00 -0.8
 NANU 58.57 257 eP 54 45.00 0.0
 SPA 66.09 180 iPd 55 33.80 0.6
 0.9s 36.36nm 5.0mb
 ORV 83.68 42 eP 57 11.07 0.0
 TUC 86.76 53 ePc 57 27.73 1.5
 0.9s 11.19nm 4.6mb
 HVU 90.37 44 ePc 57 43.27 0.4
 LTX 90.67 58 eP 57 44.13 -0.3
 PV09 91.06 48 eP 57 46.39 0.1
 PV08 91.43 48 eP 57 48.03 0.0
 BW06 92.93 44 eP 57 54.54 -0.2
 KAF 137.93 342 iPKP 04 03.00 0.5
 0.3s 0.80nm
 NUR 139.69 341 ePKP 04 05.50 -0.2
 0.5s 4.00nm
 NB2 142.20 351 PKP 04 05.80 -4.4X
 0.8s 0.90nm
 HFS 142.65 349 ePKP 04 06.60 -4.4X
 0.4s 6.70nm
 KSP 150.36 339 iPKPc 04 30.10 6.4X
 0.6s 23.00nm
 e 06 35.00
 CLL 150.94 343 iPKPc 04 30.70 6.2X
 0.9s 24.00nm
 iPd 06 35.80
 BRG 151.07 341 iPKPc 04 31.10 6.4X
 GEC2 152.93 340 ePKPc 04 35.20 7.6X
 1.1s 2.29nm
 BCAA 153.42 226 ePKPc 04 29.00 -0.2
 0.5s 5.00nm
 id 04 51.70
 S.D. = 1.2 on 41 of 48 obs.

? APR 12, 1993 07h 53m 26.45±1.31s
 32.941 S ± 12.9km 178.653 W ± 23.8km
 DEPTH = 33.0km (normal)

4.4mb (3 obs.)
SOUTH OF KERMADec ISLANDS (179)

HBZ 5.27 207 eP 54 44.90 0.0
 URZ 6.33 212 eP 54 59.90 0.0
 eS 56 15.70
 OUZ 6.82 248 eP 55 12.90 6.1X
 ASPA 42.49 270 eP 01 20.20 -0.2
 0.6s 4.60nm 4.4mb
 WB2 43.69 275 iPc 01 30.00 -0.1
 0.3s 11.20nm 5.1mb
 WRA 43.70 275 P 01 30.50 0.3
 0.9s 2.60nm 4.0mb
 KAF 146.73 339 iPKP 13 02.70 -1.2
 0.6s 3.00nm
 NUR 148.48 338 ePKP 13 08.00 1.2
 0.3s 2.30nm
 NB2 151.16 350 PKP 13 14.00 3.1X
 0.9s 2.10nm
 HFS 151.60 347 ePKP 13 14.00 2.5X
 0.4s 0.40nm
 S.D. = 0.9 on 7 of 10 obs.

? APR 12, 1993 08h 21m 25.95±1.38s
 47.611 N ± 7.8km 0.880 W ± 14.8km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.0 (LDG).

LPF 0.44 346 Pn 21 35.70 0.9
 Pg 21 36.20
 Sg 21 49.90
 GRR 0.78 1 Pg 21 41.50 0.4
 Sg 21 59.70
 LDF 1.11 27 Pn 21 47.00 0.3
 Pg 21 51.10
 Sg 22 15.20
 MFF 1.13 153 Pg 21 47.00 -0.1
 Sg 22 09.30
 FLN 1.18 13 Pn 21 45.90 -2.1
 Pg 21 49.10
 Sg 22 12.40
 LSF 2.14 129 Pg 22 09.90 7.7X
 Sg 22 46.60
 TCF 2.50 121 Pn 22 06.60 -0.7
 Pg 22 17.60
 Sg 22 58.90
 MAF 2.74 119 Pn 22 10.10 -0.7
 Pg 22 22.30
 Sg 23 06.80
 BGF 2.76 111 Pn 22 10.90 -0.1
 Pg 22 24.20
 Sg 23 10.20
 RJF 2.84 143 Pg 22 19.20 7.0X
 Sg 23 02.60
 SSF 3.03 99 Pn 22 16.10 1.3
 Sg 23 19.60
 LOR 3.23 94 Pn 22 18.40 0.6
 Sg 23 27.30
 SMF 3.36 105 Pn 22 19.70 0.1
 Sg 23 28.90
 S.D. = 1.0 on 11 of 13 obs.

& APR 12, 1993 08h 31m 25.38s
 64.369 N 147.312 W
 DEPTH = 8.1km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.7 (AEIC).

HDA 0.16 76 iP 31 28.80 -0.1
 CCB 0.35 323 iP 31 32.12 -0.4
 WRH 0.35 287 iP 31 32.35 -0.2
 FBA 0.57 339 iPd 31 36.02 -0.9
 GLM 0.62 357 iP 31 37.12 -0.8
 MDM 0.71 327 eP 31 38.95 -0.7
 NEA 0.79 286 eP 31 40.32 -0.6
 S 31 52.69
 MCK 0.96 229 eP 31 43.37 -0.4
 eS 31 56.14
 THY 1.18 143 eP 31 48.19 0.6
 eS 32 04.45
 RND 1.18 216 eP 31 47.44 -0.2
 eS 32 03.80
 DOT 1.60 115 eP 31 54.73 0.6
 TRF 1.61 236 eP 31 54.24 0.0
 eS 32 16.89
 MLY 1.62 296 eP 31 53.14 -1.1

PAX 1.63 149 eP 31 55.56 1.1
 eS 32 16.84
 HUR 1.74 218 eP 31 57.82 1.8
 eS 32 20.28
 SDG 2.01 156 eP 32 01.38 1.4
 FYU 2.37 21 eP 32 06.66 1.5
 SCM 2.55 180 eP 32 09.49 1.8
 SML 2.61 191 eP 32 10.07 1.4
 PMR 2.91 197 eP 32 14.69 1.9
 KLU 2.96 167 eP 32 15.41 1.9
 PWA 2.97 204 P 32 19.10 5.5
 SKT 3.07 220 eP 32 14.88 -0.1
 IMA 3.18 305 eP 32 14.72 -2.0
 VLZ 3.28 172 eP 32 18.91 0.9
 PMS 3.30 199 eP 32 19.56 1.1
 SUA 3.31 210 eP 32 20.40 1.8
 27 obs. associated

& APR 12, 1993 08h 32m 27.46s
 34.144 N 116.877 W
 DEPTH = 8.4km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.2 (PAS), 3.0 (GS).
 Felt.

PEC 0.34 223 iPc 32 33.97 -0.6
 SSK 0.68 276 iPc 32 40.16 -1.0
 eS 32 49.70
 PLM 0.79 179 iPd 32 42.04 -1.0
 eS 32 52.97
 GSC 1.16 3 iPd 32 48.77 -0.5
 ISA 2.00 320 ePn 33 00.46 -1.5
 ePg 33 03.64
 GLA 2.03 122 eP 33 00.27 -2.0
 TPNV 2.85 10 ePg 33 20.30 6.2
 MTUM 3.48 337 ePg 33 31.23 8.1
 MPM 3.87 334 ePn 33 29.10 0.2
 ePg 33 38.37
 eS 34 27.14
 BONR 3.97 344 (Pn) 33 31.15 0.9
 ePg 33 41.55
 10 obs. associated

? APR 12, 1993 08h 56m 24.11±1.31s
 32.947 S ± 14.1km 178.839 W ± 29.1km
 DEPTH = 33.0km (normal)
 4.4mb (1 obs.)

SOUTH OF KERMADec ISLANDS (179)

HBZ 5.20 206 eP 57 42.50 0.9
 NOZ 6.20 203 eP 57 55.30 -0.4
 URZ 6.24 211 eP 57 55.80 -0.5
 S 59 11.40
 OUZ 6.67 248 eP 58 08.80 6.4X
 WB2 43.54 275 eP 04 26.20 -0.3
 WRA 43.55 275 P 04 27.10 0.5
 0.5s 3.60nm 4.4mb
 INK 106.42 16 ePKP 14 30.00 -16.0X
 KAF 146.68 339 iPKP 15 59.20 -2.3
 0.3s 1.50nm
 BCAA 147.32 213 ePKPc 16 08.00 3.9X
 0.9s 9.00nm
 NUR 148.42 338 iPKP 16 04.60 0.3
 0.3s 2.50nm
 NB2 151.14 350 PKP 16 10.80 2.2X
 0.8s 2.30nm
 APO 151.15 347 ePKP 16 10.50 2.0
 0.4s 2.40nm
 S.D. = 1.5 on 8 of 12 obs.

% APR 12, 1993 09h 36m 24.75±0.88s
 39.216 N ± 7.7km 27.725 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

DST 0.80 61 ePg 36 40.00 -0.3
 IZM 0.89 204 iPg 36 42.00 0.1
 iSg 36 56.50
 KCT 1.14 25 iPn 36 46.70 0.6
 BNT 1.15 7 iPn 36 46.00 -0.2
 EZN 1.24 300 ePn 36 47.70 -0.1
 S.D. = 0.5 on 5 of 5 obs.

APR 12, 1993 09h 44m 30.40±0.85s
 39.218 N ± 7.9km 22.034 E ± 7.3km
 DEPTH = 10.0km (geophysicist)

GREECE						(364)						LPG			48.18	301	eP	02	55.70	7.2X	eS			57	27.11																				
AGG						0.30	130	ePg	44	37.12	0.4	LPL			48.19	301	eP	02	55.90	7.5X	SSK			1.93	317	eP	57	18.87	0.2																
								eSg	44	42.76		AVF			50.09	303	eP	03	08.70	6.0X	GSC			2.57	347	ePg	57	32.00	4.4																
LIT						0.95	22	ePg	44	48.48	0.0				0.9s	9.65nm				4.8mb						eS	58	04.76																	
								eSg	45	03.92		MAF			50.78	303	eP	03	14.50	6.5X																									
IGT						1.36	284	ePb	44	54.76	-0.6				0.9s	10.80nm				4.8mb																									
PAIG						1.46	60	ePb	44	55.92	-0.8	TCF			50.99	303	eP	03	16.10	6.4X																									
								iSb	45	14.60					1.1s	13.45nm				4.8mb																									
FNA						1.64	342	ePb	45	00.16	0.7	BCAO			59.28	249	iP	04	10.60	0.4																									
SOH						1.90	32	ePn	45	03.16	0.0				0.9s	14.00nm				5.1mb																									
OHR						2.11	334	ePn	45	06.50	0.2	MBC			65.56	3	ePc	04	50.50	-0.6																									
VAY						2.14	11	ePn	45	11.40	4.8X				0.7s	5.00nm				4.8mb																									
S.D. = 0.6 on 7 of 8 obs.																																													
APR 12, 1993 09h 54m 07.69±0.39s												IMA												70.15	18	(P)	05	20.58	0.5																
38.231 N ± 7.9km 72.361 E ± 7.6km												INK												72.02	10	eP	05	31.50	0.3																
DEPTH = 22.4km (4 depth phases)																								0.9s	4.00nm				4.5mb																
4.6mb (16 obs.)												FRB												73.73	343	eP	05	41.00	-0.3																
TAJIKISTAN												(715)												YKA												79.46	3	eP	06	12.30	-1.1				
NDI												10.35	156	iPd	56	37.80	-0.1	WRA												82.00	123	P	06	27.90	0.5										
														eS	58	34.00														0.9s	2.40nm				4.2mb										
NDI												10.35	156	iPd	56	31.60	-6.3X	WB2												82.01	123	eP	06	27.30	-0.2										
												0.5s		28.17nm			5.8mb X													0.6s	4.40nm				4.7mb										
MAIO												10.44	263	iPc	56	36.40	-2.8	FCC												82.71	353	eP	06	46.00	15.5X										
												0.9s		21.31nm			5.5mb	JAO												84.28	342	eP	06	44.50	5.8X										
WMQ												12.85	59	iPd	57	24.80	13.0X	S.D. = 1.2 on 28 of 45 obs.																											
												1.0s		14.00nm				% APR 12, 1993 10h 05m 12.73±0.94s																											
N												10s		0.42um				39.203 N ± 9.1km 22.074 E ± 8.4km																											
GKN												14.47	131	P	57	28.60	-4.6X	GREECE												(364)															
KKN												15.01	130	P	57	29.40	-11.0X	AGG												0.27	132	iPg	05	19.06	0.0										
DMN												15.04	131	P	57	34.00	-6.8X	LIT												0.95	20	ePg	05	30.54	0.1										
PKI												15.25	130	P	57	36.00	-7.6X															eSg	05	45.70											
GUN												15.29	128	P	57	38.60	-5.5X	IGT												1.39	284	iPb	05	36.82	-0.2										
LSA												17.73	113	P	58	13.40	-1.8	PAIG												1.44	59	ePb	05	37.70	0.1										
POO												19.67	176	eP	58	38.50	0.2	FNA												1.67	341	ePb	05	42.02	1.0										
SHL												20.78	122	iPc	58	48.80	-1.1	OUR												1.85	52	ePb	05	44.06	0.4										
GTA												21.40	78	eP	58	56.00	-0.1	S.D. = 0.6 on 6 of 6 obs.																											
												1.0s		11.00nm			4.2mb																												
												Z	12s		0.60um			4.2mszX																											
												E	10s		0.35um																														
HYB												21.44	164	ePc	58	57.00	0.5	? APR 12, 1993 10h 33m 28.21±8.28s																											
GBA												24.94	168	P	59	32.00	1.3	41.620 N ± 55.4km 23.500 E ± 25.0km																											
LZH												25.12	85	eP	59	17.50	-15.1X	DEPTH = 10.0km (geophysicist)																											
												1.2s		18.00nm				GREECE-BULGARIA BORDER REGION												(363)															
												Z	12s		0.51um			4.3mszX	SRS												0.51	172	iPg	33	37.46	-1.0									
												E	10s		0.23um																		eSg	33	44.94										
																			KNT												0.64	225	ePg	33	40.18	-0.9									
OBN												29.35	317	eP	00	07.50																		eSg	33	49.14									
												Z	14s		0.60um			4.4mszX	SOH												0.81	188	ePg	33	42.90	-1.0									
												N	16s		0.60um																		eSg	33	54.22										
												E	16s		0.60um				OUR												1.34	164	iPb	33	51.86	-0.9									
																																	eSb	34	09.06										
XAN												29.70	87	eP	00	14.90	0.7	LIT												1.70	207	ePb	33	56.78	-1.3										
												Z	12s		0.30um			4.1mszX	S.D. = 0.2 on 5 of 5 obs.																										
MLR												34.92	297	eP	01	05.00	5.2X	? APR 12, 1993 10h 42m 06.08±4.89s																											
TIA												35.44	79	eP	01	04.90	0.7	30.412 S ± 39.5km 68.828 W ± 24.8km																											
KAF												36.79	326	eP	01	15.80	0.6	DEPTH = 33.0km (normal)																											
NUR												37.09	323	eP	01	18.10	0.4	SAN JUAN PROVINCE, ARGENTINA												(137)															
												0.3s		1.60nm			4.3mb	RTLL												0.97	161	iPc	42	25.00	1.6										
HFS												42.40	321	eP	02	01.50	-0.2															S	42	35.50											
												0.8s		10.00nm			4.6mb	ZON												1.14	174	iPd	42	25.20	-0.6										
												Z	17s		0.21um			4.1mszX															eS	42	37.20										
																			CFA												1.29	157	ePc	42	26.90	-1.1									
BRG												42.43	307	e(P)	02	04.00	1.9															S	42	40.00											
GEC2												42.84	304	eP	02	07.80	2.2	RTBS												1.36	203	iPd	42	28.90	0.1										
												1.4s		3.03nm			3.8mb	TCA												3.76	105	iP	43	03.20	0.0										
																																	(S)	43	42.00										
																			S.D. = 1.5 on 5 of 5 obs.																										
KHC												42.88	304	eP	02	07.50	1.6	& APR 12, 1993 10h 56m 44.40s																											
														e	02	15.40	26km	32.792 N 116.116 W																											
														e	02	26.00		DEPTH = 3.4km																											
														e	03	48.00		CALIF.-BAJA CALIF. BORDER REGION(45)																											
NB2												43.67	322	P	02	11.60	-0.5	<PAS-P>. ML 3.1 (PAS). Felt at																											
												0.6s		1.60nm			4.0mb	Ocotillo, California.																											
NAO												43.85	322	P	02	11.20	-2.3	PLM												0.84	312	ePc	57	00.28	-0.9										
GRF												44.32	305	eP	02	18.30	0.8															eS	57	11.62											
BSF												47.56	304	eP	02	49.30	5.9X	GLA												1.12	76	ePnd	57	03.32	-2.6										
												1.1s		9.50nm			4.7mb	PEC												1.40	322	ePn	57	08.03	-2.8										

12d 11h

LOE 37.09 310 eP 33 05.00 -1.3
BDT 39.10 308 eP 33 17.50 -3.0
0.5s 23.90nm 5.2mb
NJ2 40.04 345 Pc 33 27.00 -1.1
CHG 40.05 310 eP 33 29.50 1.0
1.0s 23.50nm 4.9mb
WHN 40.07 338 eP 33 30.50 2.1
MAT 43.58 9 eP 33 57.00 0.0
XAN 45.31 335 P 34 11.20 0.1
1.1s 13.00nm 4.7mb

pP 34 20.50 31kmX
BJI 48.28 345 eP 34 35.00 0.7
1.0s 11.00nm 4.8mb

LZH 49.30 331 Pc 34 43.00 0.5
1.2s 25.00nm 5.1mb

HHC 50.35 341 eP 34 51.60 1.3
1.2s 16.00nm 4.9mb

CN2 50.42 355 eP 34 50.80 0.2
0.8s 2.90nm 4.3mb

LSA 52.25 316 P 35 06.30 0.9
1.0s 17.00nm 5.0mb

GTA 53.88 331 P 35 17.00 0.2
1.0s 13.00nm 4.9mb

GUN 55.05 311 P 35 25.60 -0.3
PKI 55.23 310 P 35 26.60 -0.6

KKN 55.44 310 P 35 28.20 -0.4
DMN 55.48 310 P 35 28.60 -0.3

GKN 56.04 310 P 35 32.60 -0.2
GBA 56.33 291 P 35 34.00 -0.9

HYB 56.55 296 eP 35 35.00 -1.5
NDI 62.12 307 iPc 36 13.00 -1.7
eS 57 13.00

WMQ 63.34 327 iPc 36 23.00 0.4
1.0s 14.00nm 5.0mb

IMA 90.35 23 eP 38 52.80 -0.5
0.6s 1.24nm 4.4mb

INK 98.37 22 eP 39 30.00 0.3
MBC 101.17 13 ePdiff 39 41.50 -0.7

YKA 107.25 26 ePdiff 40 08.70 -0.8
0.4s 0.10nm 4.3mb

YKA 107.25 26 ePKP 44 16.90 -1.6
0.5s 0.10nm

GEC2 112.43 320 ePKP 44 27.60 -1.3
0.9s 0.85nm

RSSD 119.70 42 ePKP 44 41.62 -1.5
KIC 135.48 272 PKP 45 13.40 -0.4

LIC 135.75 272 PKP 45 13.90 -0.4
Z 20s 0.50um 5.2msz

TIC 135.77 273 PKP 45 14.80 0.4
LKO 136.39 277 PKP 45 14.44 -1.1

YJA 147.38 152 ePKPd 45 37.00 1.8
CNCB 150.42 142 PKP 45 41.00 0.9

i 45 46.30
LPB 150.56 142 ePKP 45 41.00 0.8

ZOBO 150.74 141 PKP 45 46.30 5.6X
1.0s 29.50nm

CCH 151.05 146 PKP 45 47.00 6.2X
SIV 154.78 153 ePKP 45 50.00 4.3X

e 45 59.00
i 46 23.60

S.D. = 1.2 on 59 of 64 obs.

* APR 12, 1993 11h 37m 46.66±0.63s
60.193 S ± 8.9km 151.604 E ± 19.0km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)

WEST OF MACQUARIE ISLAND (701)

MCO 6.95 38 eP 39 30.20 -0.8
SBA 18.42 170 iPd 42 03.80 0.5

TOO 22.97 347 eP 42 53.60 1.5
1.0s 17.00nm 4.5mb

CNB 24.94 356 eP 43 12.00 0.9
CAN 24.94 355 eP 43 11.90 0.7

RMQ 33.75 355 eP 44 30.00 -0.2
1.0s 7.00nm 4.5mb

QLP 33.98 348 eP 44 31.60 -0.6
ASPA 38.54 333 eP 45 09.50 -1.4

1.5s 8.30nm 4.2mb
YKA 141.49 48 ePKP 57 12.00 -6.0X

0.8s 0.40nm
VRI 145.02 271 ePKP 57 23.50 -1.1

MLR 145.14 270 ePKP 57 24.00 -1.0
OBN 146.12 291 ePKP 57 26.50 0.3

1.7s 50.00nm
MBC 147.04 26 ePKP 57 28.00 0.9

GEC2 153.54 264 ePKP 57 43.50 5.7X

0.7s 0.48nm
S.D. = 1.1 on 12 of 14 obs.

? APR 12, 1993 12h 22m 36.91±0.99s
4.069 S ± 11.0km 133.534 E ± 22.0km

DEPTH = 33.0km (normol)
4.0mb (1 obs.)

IRIAN JAYA REGION, INDONESIA (196)

MTN 9.04 195 eP 24 48.00 -0.2
0.4s 175.00nm 6.6mb X

eS 26 25.00
KNA 12.52 202 eP 25 35.50 -0.1

eS 27 43.00
WB2 15.80 177 eP 26 12.20 -6.5X

i 26 18.60
eS 28 55.30

PLP 17.36 331 eP 26 37.00 -1.5
CTA 20.18 143 iPc 27 10.30 -1.3

0.8s 5.60nm 4.0mb
i 27 16.00

eS 30 34.00
CVP 24.53 332 ePd 28 00.00 5.2X

QLP 24.62 156 eP 27 57.30 1.6
PIP 25.64 331 eP 28 07.00 1.7

RMQ 26.63 148 eP 28 18.00 3.5X
STK 28.68 166 eP 28 32.90 -0.2

1.1s 1.20nm 3.5mb X
CNCB 150.29 135 PKP 42 36.00 13.4X

LPB 150.40 134 PKP 42 41.00 18.4X
ZOBO 150.55 134 PKP 42 37.00 14.0X

S.D. = 1.5 on 7 of 13 obs.

APR 12, 1993 12h 24m 44.85±0.30s
3.503 N ± 5.5km 124.488 E ± 6.0km

DEPTH = 306.4km (3 depth phases)
4.7mb (30 obs.)

CELEBES SEA (262)

KKM 8.62 287 ePc 26 49.50 2.5
0.9s 4.60nm 3.5mb X

PGP 10.53 341 ePd 27 13.00 2.5
BAG 13.39 344 eP 27 46.90 1.4

QIZ 21.05 318 eP 29 09.20 3.0X
KGM 21.20 267 ePc 29 09.50 1.8

QZH 22.06 346 Pc 29 17.00 1.0
1.0s 120.00nm 5.2mb

GUMO 22.48 62 eP 29 20.00 -0.1
1.0s 154.80nm 5.3mb

PJG 22.48 62 eP 29 20.10 0.0
GUA 22.50 62 eP 29 20.30 0.0

0.3s 135.06nm 5.8mb X
IPM 23.43 273 ePc 29 28.70 -0.3

LAT 24.64 114 eP 29 40.60 0.5
WB2 25.24 158 eP 29 44.30 -1.2

0.3s 40.70nm 5.3mb
LOE 26.25 303 eP 29 55.10 0.4

NST 26.84 298 eP 30 01.00 1.0
SSE 27.62 354 Pd 30 10.30 3.5X

1.0s 11.00nm 4.3mb
Z 20s 0.50um 4.1msz

BDT 28.49 300 eP 30 10.00 -4.6X
0.1s 32.20nm 5.8mb X

GYA 28.51 325 P 30 15.00 0.1
1.0s 21.00nm 4.6mb

WHN 28.55 341 eP 30 16.00 1.0
1.0s 43.00nm 4.9mb

CHG 29.25 303 iPd 30 21.20 -0.1
0.7s 14.21nm 4.6mb

KMI 30.00 318 eP 30 29.00 0.9
1.5s 40.00nm 4.7mb

pP 31 32.50 335kmX
TKSJ 31.61 15 P 30 41.60 -0.1

CTA 31.73 138 iP 31 01.50 18.6X
WKYJ 32.26 17 P 30 47.20 -0.2

YONJ 32.61 14 P 30 50.40 0.1
TIA 33.25 349 eP 30 57.00 1.2

CD2 33.55 327 eP 30 57.50 -1.0
0.9s 60.00nm 5.1mb

XAN 33.67 336 P 30 58.50 -0.9
1.0s 38.00nm 4.9mb

Z 20s 0.30um 4.0msz
sS 37 56.00

MAT 35.22 19 eP 31 11.00 -1.4
0.7s 7.53nm 4.3mb

DL2 35.33 356 P 31 14.00 0.8

1.0s 89.00nm 5.2mb
QLP 35.49 149 iPc 31 14.00 -0.7

TIY 35.79 344 eP 31 17.20 -0.1
0.8s 47.00nm 5.0mb

Z 21s 0.76um 4.4msz
E 10s 0.21um

BJI 37.14 349 eP 31 28.00 -0.4
1.7s 41.00nm 4.6mb

Z 20s 0.30um 4.1msz
YAMJ 37.32 20 P 31 30.40 0.5

LZH 37.61 332 iPc 31 33.80 1.2
1.0s 140.00nm 5.3mb

OFUJ 38.71 22 eP 31 42.10 0.8
STK 38.77 156 iPc 31 42.30 0.4

0.5s 12.70nm 4.5mb
ePcS 35 59.30

HHC 38.96 344 Pc 31 39.50 -4.1X
1.4s 19.00nm 4.2mb

BTO 39.17 342 eP 31 42.00 -3.3X
CN2 40.14 1 eP 31 54.00 1.0

0.8s 30.00nm 4.6mb
LSA 40.93 313 Pd 32 01.40 1.1

0.7s 36.00nm 4.7mb
MDJ 41.19 6 eP 32 00.00 -1.6

GTA 42.18 331 P 32 09.50 -0.4
1.0s 75.00nm 4.9mb

ARMA 42.55 144 iPd 32 14.10 1.2
0.8s 15.00nm 4.3mb

KUSJ 43.33 22 eP 32 19.40 0.5
ASAJ 43.51 19 eP 32 20.00 0.5

BWA 43.94 151 iPc 32 25.90 2.0
e 33 29.20 309km

GUN 44.07 307 P 32 24.80 -0.6
PKI 44.29 307 P 32 26.20 -1.0

KKN 44.49 307 P 32 28.00 -0.6
DMN 44.55 307 P 32 28.40 -0.7

CAN 44.95 151 iPc 32 32.80 1.0
e 33 36.50 310km

GKN 45.10 307 P 32 32.60 -0.7
CNB 45.12 151 eP 32 34.10 0.9

TOO 45.29 156 iPc 32 35.40 0.9
0.5s 12.00nm 4.5mb

GBA 47.51 285 Pd 32 52.00 0.0
DZM 48.25 124 iPd 32 58.00 0.3

IRK 51.42 344 eP 33 04.60 -16.5X
1.7s 17.00nm

Z 22s 0.42um 4.4msz
e 33 20.20 60kmX

e 33 32.00
LR 02 24.00

WMQ 51.65 326 P 33 22.00 -1.0
1.5s 63.00nm 4.8mb

pP 34 26.00 300km
MAIO 67.88 308 eP 35 03.00 -9.9X

IMA 83.50 24 eP 36 39.94 0.3
0.6s 5.64nm 4.6mb

FBA 85.88 25 eP 36 52.30 1.0
OBN 85.94 325 eP 36 51.00 -0.7

1.0s 35.00nm 5.2mb
KAF 90.76 332 iP 37 11.90 -2.3

0.6s 6.00nm 4.7mb
NUR 91.81 331 iP 37 16.50 -2.6

0.7s 4.80nm 4.5mb
NAO 98.24 333 P 37 45.40 -3.0

0.7s 2.10nm 4.6mb
YKA 100.62 24 ePdiff 37 58.20 -0.8

0.8s 0.40nm 4.0mb
GEC2 100.86 321 ePdiff 37 59.00 -1.6

1.1s 2.59nm 4.7mb
e 38 12.00

e 38 15.30
KIC 128.37 281 PKP 43 16.50 -1.3

TIC 128.60 281 PKP 43 16.90 -1.3
LKO 128.60 285 PKP 43 17.00 -1.2

LIC 128.67 281 PKP 43 16.80 -1.5
S.D. = 1.2 on 63 of 71 obs.

? APR 12, 1993 12h 28m 05.99±1.65s
41.583 N ± 8.7km 23.552 E ± 21.9km

DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SRS 0.47 176 iPg 28 16.20 0.7
eSg 28 19.20

KNT 0.65 230 iPg 28 19.36 0.4
eSg 28 24.64

SOH 0.78 191 ePg 28 19.84 -1.3
 eSg 28 25.36
 OUR 1.29 165 ePg 28 31.60 1.7X
 eSg 28 44.04
 SSR 3.54 339 ePc 29 02.00 0.0
 S.D. = 1.5 on 4 of 5 obs.

% APR 12, 1993 13h 58m 27.59±0.89s
 40.355 N ± 7.0km 23.583 E ± 10.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

OUR 0.31 94 iPg 58 34.26 0.3
 eSg 58 39.20
 PAIG 0.43 170 iPg 58 36.26 -0.2
 eSg 58 43.84
 SOH 0.50 340 iPg 58 37.94 0.2
 eSg 58 45.16
 SRS 0.76 1 ePg 58 41.68 -0.8
 eSg 58 54.08
 KNT 0.96 327 ePg 58 46.24 0.4
 eSg 58 59.92
 S.D. = 0.7 on 5 of 5 obs.

& APR 12, 1993 13h 59m 04.69s
 62.871 N 149.857 W
 DEPTH = 81.2km
 3.2mb (1 obs.)
 CENTRAL ALASKA (1)
 <AEIC>.

HUR 0.15 43 iPc 59 16.43 1.6
 eS 59 24.69
 CUT 0.51 202 eP 59 18.77 0.0
 eS 59 29.75
 TRF 0.61 342 iPd 59 19.98 0.0
 RND 0.70 40 iPc 59 20.36 -0.4
 eS 59 32.37
 MCK 0.96 25 ePd 59 23.43 -0.2
 eS 59 37.84
 SKT 1.19 222 iPd 59 26.15 -0.2
 eS 59 42.40
 GH0 1.19 158 iPc 59 26.35 -0.1
 eS 59 42.59
 PWA 1.22 180 P 59 27.00 0.2
 S 59 43.40
 SML 1.28 146 iPc 59 27.38 -0.3
 eS 59 45.87
 PLRM 1.33 165 iPc 59 28.11 -0.1
 eS 59 46.95
 PMR 1.33 165 iPd 59 27.79 -0.4
 S 59 46.51
 SUA 1.47 197 iPd 59 30.27 0.1
 eS 59 49.80
 SCM 1.57 130 iPc 59 31.17 -0.3
 PMS 1.64 175 P 59 32.50 0.2
 NEA 1.75 11 iPc 59 32.82 -0.9
 eS 59 53.04
 WRH 1.79 25 iPd 59 33.43 -0.9
 CRP 1.94 215 ePd 59 35.66 -0.8
 S 59 59.89
 THY 1.94 72 eP 59 37.47 1.0
 CPAM 1.95 215 eP 59 36.61 0.1
 CP2 1.97 216 eP 59 36.43 -0.5
 CKN 1.98 215 ePc 59 37.26 0.3
 SPU 1.99 212 ePd 59 36.91 -0.1
 eS 00 03.54
 CCB 2.00 26 iPd 59 36.11 -1.1
 BGL 2.01 218 eP 59 37.60 0.2
 CKT 2.01 214 ePd 59 37.08 -0.3
 PAX 2.01 85 iPc 59 37.13 -0.3
 HDA 2.01 39 iPd 59 36.38 -1.0
 SDG 2.02 98 iPd 59 37.47 0.0
 PTE 2.05 169 eP 59 37.81 0.0
 MLY 2.20 350 iPc 59 39.07 -0.9
 MDM 2.22 18 eP 59 39.58 -0.6
 TZL 2.22 110 eP 59 40.35 0.2
 FBA 2.23 23 iPd 59 39.07 -1.3
 NKA 2.23 198 eP 59 43.88 3.6
 KLU 2.31 125 ePc 59 40.27 -1.2
 SLKM 2.38 184 ePc 59 43.35 1.0
 GLM 2.39 26 iPd 59 41.54 -1.0
 MPA 2.40 174 eP 59 43.06 0.4
 VLZ 2.41 135 iPc 59 41.15 -1.6
 DFR 2.65 212 ePd 59 46.84 0.6
 DOT 2.73 71 ePd 59 46.50 -0.8
 NCT 2.74 214 iPd 59 48.24 0.8

RDW 2.78 212 eP 59 48.73 0.7
 RS2 2.78 211 eP 59 49.33 1.2
 RSO 2.78 211 eP 59 48.80 0.7
 SEW 2.78 176 eP 59 47.93 0.0
 RS1 2.79 211 eP 59 48.76 0.6
 TTA 2.82 274 eP 59 47.10 -1.4
 RED 2.83 211 eP 59 49.38 0.8
 HIN 2.95 146 ePc 59 48.61 -1.7
 CVA 3.04 138 eP 59 50.11 -1.4
 BRK 3.16 189 eP 59 54.11 1.0
 GLB 3.18 114 iPd 59 52.26 -1.2
 INE 3.21 210 eP 59 53.19 -0.8
 INW 3.22 211 eP 59 53.50 -0.6
 SVW 3.24 240 eP 59 53.32 -1.0
 SGAM 3.25 135 eP 59 53.37 -1.0
 CNPM 3.42 192 eP 59 56.73 -0.1
 RAGM 3.51 133 eP 59 56.44 -1.6
 IMA 3.61 334 ePc 59 58.17 -1.4
 PDB 3.73 216 eP 00 00.95 -0.1
 CROM 3.83 121 eP 00 00.99 -1.6
 TGL 3.95 119 eP 00 02.65 -1.6
 BALM 4.00 114 eP 00 02.81 -2.1
 FYU 4.21 26 eP 00 06.40 -1.3
 MCNL 4.29 213 eP 00 09.53 0.6
 CTGM 4.46 112 eP 00 09.95 -1.5
 YAH 4.62 119 eP 00 11.68 -2.0
 INK 8.67 44 eP 01 09.50 0.2
 1.2s 8.00nm 4.4mb X
 YKA 16.07 76 eP 02 44.00 -2.6
 0.6s 1.20nm 3.2mb
 MBC 16.78 25 eP 03 02.50 7.1
 71 obs. associated

APR 12, 1993 14h 00m 40.95±0.20s
 28.330 N ± 5.0km 57.148 E ± 2.1km
 DEPTH = 33.3km (8 depth phases)
 5.2mb (90 obs.)
 SOUTHERN IRAN (353)
 Mw 5.0 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 22C
 Centroid Location:
 Origin Time 14:00:52.8 0.9
 Lat 28.39N FIX; Lon 57.15E FIX
 Dep 33.0 FIX Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr= 3.27 0.20 Mtt= 3.02 0.37
 Mff=-0.25 0.42 Mrt= 0.21 0.93
 Mrf= 0.20 0.69 Mtf= 0.99 0.28
 Principal Axes:
 T Vol= 3.29 Plg=85 Azm=302
 N 0.05 5 108
 P -3.34 1 198
 Best Double Couple: Mo=3.3*10**16
 NP1: Strike=292 Dip=44 Slip= 97
 NP2: 103 46 84

DHR 6.55 254 iPd 02 17.90 0.4
 iS 03 29.50
 MAIO 8.19 13 iPc 02 44.60 4.1X
 0.8s 18.30nm 5.2mb
 eS 04 31.00
 RYD 10.10 252 iPd 03 03.30 -3.5X
 iS 04 48.90
 KER 10.47 307 eP 03 14.00 2.0
 QASM 12.32 263 ePd 03 33.13 -3.9X
 eS 05 43.33
 DHJN 16.44 233 iPd 04 25.53 -5.6X
 ABHA 16.59 236 iPd 04 30.33 -2.5
 NDI 17.65 84 eP 04 45.00 -0.8
 e(S) 08 15.00
 POO 18.15 119 iPd 04 51.50 -0.6
 WAJH 18.43 268 iPd 04 55.73 0.2
 AYN 18.58 277 iPd 04 57.80 0.5
 MASJ 18.86 286 P 05 01.90 1.1
 SALJ 18.91 286 P 05 02.40 0.9
 GAZ 18.92 303 iP 05 02.80 1.4
 SHMJ 18.93 289 P 05 02.10 0.5
 SHWJ 18.98 281 P 05 02.80 0.4
 DHLJ 19.08 283 P 05 03.10 -0.2
 HSHJ 19.08 278 P 05 03.60 0.1
 KSH 19.13 50 P 05 05.80 1.7
 1.5s 90.00nm 4.8mb
 Z 16s 3.98um 4.3MsZ
 N 10s 1.70um
 E 10s 1.60um

PP 05 21.80
 S 08 24.00
 sS 08 39.00
 DSI 19.13 285 eP 05 03.40 -0.6
 JVI 19.19 286 eP 05 05.20 0.5
 BHL 19.21 292 P 05 05.00 0.0
 S 08 48.00
 HQL 19.39 278 iPd 05 06.93 -0.1
 ZNT 19.49 287 eP 05 07.70 -0.4
 RMN 19.74 282 eP 05 11.30 0.3
 ADAT 20.27 301 eP 05 18.10 1.8
 BNN 20.55 306 iP 05 21.10 1.7
 CSS 21.30 294 eP 05 28.00 1.0
 KVT 21.45 312 iP 05 30.00 1.6
 PPCY 22.08 293 e(P) 05 40.00 5.3X
 HYB 22.48 114 eP 05 40.00 1.2
 KAS 23.10 310 iPd 05 46.80 2.0
 GBA 23.89 124 P 05 55.00 2.4
 GKN 24.22 84 P 05 56.80 0.9
 ELL 24.39 297 iP 05 59.50 2.1
 DMN 24.68 85 P 06 01.80 1.3
 KKN 24.81 85 P 06 02.20 0.5
 ALT 24.82 303 eP 06 03.00 1.4
 PKI 24.96 85 P 06 03.40 0.2
 KHL 25.06 301 eP 06 03.00 -0.8
 EYL 25.28 306 eP 06 02.00 -3.9X
 GUN 25.32 84 P 06 07.20 0.5
 HRT 25.72 306 iP 06 10.80 0.9
 CIN 25.99 298 eP 06 13.00 0.6
 ISK 26.23 306 eP 06 15.80 1.2
 ITU 26.28 306 iPd 06 16.00 1.0
 IZM 26.80 300 iP 06 20.80 0.9
 JMB 28.45 308 iP 06 36.00 1.2
 WMQ 28.92 50 P 06 39.20 0.1
 1.0s 28.00nm 4.9mb
 Z 22s 2.20um 4.7MsZ
 pP 06 44.20 17kmX
 sP 06 49.20
 KDZ 29.02 306 iP 06 41.00 1.1
 RZN 29.53 305 iPc 06 46.00 1.2
 PVL 29.57 309 iP 06 46.00 1.2
 PLD 29.66 306 iP 06 46.00 0.3
 VRI 29.67 314 eP 06 57.50 11.7X
 LSA 29.71 79 P 06 47.60 0.8
 1.0s 7.00nm 4.4mb
 CVO 30.00 314 ePc 06 51.00 2.3
 MLR 30.01 313 ePd 06 52.00 3.1X
 PGB 30.17 307 iP 06 51.00 0.7
 MMB 30.22 305 iP 06 50.00 -0.7
 MTUR 30.48 312 eP 06 46.00 -7.0X
 CMP 30.51 312 ePc 06 53.00 -0.2
 OBN 30.60 337 iPc 06 54.60 0.8
 0.9s 40.00nm 5.2mb
 Z 18s 0.40um 4.1MsZ
 N 14s 0.40um
 i 06 56.00 5kmX
 e 07 04.00
 iPP 08 05.50
 i 08 17.00
 eS 12 26.00
 eSS 14 28.00
 e 16 44.00
 KKB 30.76 305 iPc 06 55.00 -0.4
 VTS 30.86 307 iPc 06 56.00 -0.5
 VAY 30.99 304 iP 06 59.00 1.6
 SHL 31.02 87 eP 06 56.50 -1.6
 KBN 32.16 302 iPc 07 07.50 -0.3
 LSK 32.22 301 eP 07 09.00 0.7
 PHP 32.63 304 eP 07 11.40 -0.4
 TPE 32.69 301 eP 07 01.00 -11.3X
 BZS 32.88 311 eP 07 16.00 2.1
 TIR 32.99 303 eP 07 13.70 -1.2
 LACI 33.16 304 iPc 07 16.40 0.1
 SPC 35.04 317 eP 07 32.20 -0.5
 TDS 35.40 299 P 07 36.40 0.7
 MMN 35.69 300 P 07 29.20 -8.9X
 OJC 35.71 318 iPd 07 38.40 0.2
 0.9s 178.00nm 6.0mb
 e 07 49.60 40km
 SRO 35.75 314 iPc 07 39.10 0.6
 1.0s 104.40nm 5.7mb
 HVAR 35.83 305 iP 07 38.40 -0.9
 MGR 36.05 300 P 07 41.70 0.5
 ZST 36.64 314 iP 07 45.50 -0.5
 ZAG 36.72 310 ePc 07 47.40 0.7
 PTJ 36.76 310 eP 07 45.20 -2.0
 GTA 36.80 61 P 07 48.50 0.8

	1.0s	58.00nm	5.4mb		1.0s	145.00nm	5.7mb		N	15s	0.38um	
	Z 15s	0.57um	4.5MszX		Z 19s	0.20um	4.0Msz		E	18s	0.80um	
	E 12s	0.26um		MOX	40.78	316 ePc	08 20.80 0.3				pP	09 02.00 32km
		pP	07 57.50 30km		Z 20s	0.20um	4.0Msz		NAO	44.78	330 P	08 51.90 -1.0
VBV	37.14	309 iPc	07 51.10 0.8	OSS	40.86	310 iPc	08 21.80 0.3			0.9s	9.50nm	4.7mb
VKA	37.16	314 eP	07 48.00 -2.4	MDI	41.02	308 P	08 23.00 0.5		KEV	44.93	346 eP	09 05.00 10.9X
		i	07 50.40 8kmX	BOB	41.07	307 Pc	08 24.00 1.0			0.5s	14.00nm	
		i	08 44.40	PGF	41.18	303 iPc	08 24.10 0.1		DOU	45.06	314 Pc	08 56.10 0.7
VRAC	37.32	315 iPc	07 52.00 0.4		0.7s	22.05nm	5.0mb			0.9s	37.80nm	5.3mb
	1.3s	271.10nm	6.0mb	VDL	41.29	309 P	08 25.53 0.5		LBF	45.10	309 iPc	08 55.20 -0.6
		e	08 02.20 35km	UPP	41.35	331 iP	08 24.70 -0.2			0.9s	48.80nm	5.4mb
SDI	37.53	302 P	07 54.20 0.5	NST	41.59	98 eP	08 29.00 1.5		SMF	45.16	309 iPc	08 55.90 -0.4
LJU	37.76	310 ePc	07 56.00 0.5	TMA	41.64	309 iPc	08 27.30 -0.6			1.0s	164.80nm	5.9mb
CEY	37.76	309 iPc	07 56.00 0.4	LLS	41.67	310 iPc	08 27.70 -0.4		COLF	45.19	307 P	08 56.14 -0.4
AQU	37.91	303 P	07 58.50 1.6	PCP	41.68	306 P	08 27.08 -1.0		LOR	45.21	310 iPc	08 56.00 -0.6
KSP	38.02	318 iPc	07 57.50 -0.1	VAI	41.68	308 Pc	08 27.30 -0.6			0.9s	53.25nm	5.4mb
	1.2s	65.00nm	5.4mb	FIN	41.89	306 P	08 29.09 -0.6		Z 19s	0.20um	4.1Msz	
VOY	38.19	309 iPc	07 59.20 0.0	IMI	42.09	305 P	08 31.43 0.0		PLDF	45.27	308 P	08 56.37 -0.8
TRI	38.21	309 ePc	07 59.30 0.1	ROB	42.14	306 P	08 32.07 0.3		SNF	45.32	314 iPc	08 57.85 0.5
RDP	38.35	302 P	08 02.40 1.8	SLE	42.15	311 ePc	08 31.10 -0.8		SSF	45.43	309 iPc	08 58.10 -0.2
MNS	38.45	303 Pc	08 01.70 0.3	ZLA	42.18	311 ePc	08 31.40 -0.7			0.8s	84.90nm	5.7mb
RBL	38.50	310 Pc	08 01.90 0.1	IRK	42.20	42 ePc	08 32.00 -0.2		LBL	45.49	307 P	08 58.61 -0.3
ASS	38.55	305 P	08 02.70 0.5		1.5s	29.00nm	4.8mb		AVF	45.51	309 iPc	08 58.50 -0.5
KBA	38.79	311 iPc	08 04.40 0.1	Z 14s	0.54um	4.6MszX			1.1s	63.75nm	5.4mb	
	0.8s	28.20nm	5.1mb			e	08 41.70 33km		AGO	45.61	308 P	08 59.59 -0.2
PRU	38.80	316 P	08 03.50 -0.6			e	10 25.20		PYM	45.68	308 P	09 00.38 -0.1
	1.0s	18.40nm	4.8mb			LR	27 07.00		HHC	45.83	59 eP	09 02.00 0.3
		e	08 09.50 20kmX	MMK	42.26	308 iPc	08 31.90 -1.1			1.2s	50.00nm	5.3mb
RSM	38.82	306 Pc	08 05.90 1.6	SBF	42.41	305 iPc	08 34.30 0.2		BGF	45.84	309 iPc	09 01.40 -0.2
NUR	38.91	335 iP	08 05.10 0.2		0.9s	169.70nm	5.8mb			0.9s	55.05nm	5.5mb
	0.6s	33.00nm	5.3mb	ENR	42.45	306 P	08 33.90 -0.5		MTHF	45.95	304 P	09 02.77 0.3
GEC2	38.99	314 e(P)	08 05.90 0.0	FEL	42.49	311 P	08 33.16 -1.6		MAF	46.02	308 iPc	09 03.10 0.1
	0.8s	22.10nm	5.0mb	STV	42.52	306 P	08 34.08 -0.9			0.9s	60.95nm	5.5mb
FVI	39.06	310 Pc	08 06.40 0.1	DOI	42.60	306 Pc	08 34.20 -1.5		HYF	46.03	310 iPc	09 03.30 0.2
CRE	39.14	305 Pc	08 07.90 0.7	BHB	42.62	307 P	08 34.04 -1.7		TCF	46.27	308 iPc	09 05.00 0.0
KHC	39.15	314 Pc	08 07.20 0.1	DIX	42.65	308 ePc	08 35.90 -0.3			0.9s	73.40nm	5.6mb
	1.0s	71.00nm	5.4mb	RSP	42.66	307 P	08 33.85 -2.3		CAF	46.31	306 iPc	09 05.70 0.3
		e	08 33.00 113kmX	PZZ	42.71	306 P	08 35.04 -1.5			0.9s	107.45nm	5.8mb
		e	09 01.50	LSD	42.76	307 P	08 36.28 -0.8		LSPF	46.41	304 P	09 06.79 0.6
		e	09 30.00	BBS	42.77	310 P	08 36.12 -0.8		GRBF	46.68	303 P	09 08.49 0.1
BHG	39.25	312 iPc	08 08.10 0.2	LANF	42.82	313 P	08 36.28 -1.0		TIY	46.71	64 Pd	09 08.50 -0.1
	1.0s	193.00nm	5.8mb	FRF	42.96	305 eP	08 38.40 -0.1		Z 26s	0.85um	4.6MszX	
SFI	39.25	306 Pc	08 10.00 2.1		1.0s	31.20nm	5.0mb		RJF	46.71	307 iPc	09 09.00 0.5
CHG	39.30	95 eP	08 08.80 0.1	RRL	42.97	307 P	08 38.25 -0.6			1.0s	150.40nm	5.9mb
PGD	39.33	306 P	08 10.85 1.9	EMS	42.98	308 iPc	08 38.00 -0.8		Z 23s	0.22um	4.1MszX	
	1.0s	305.70nm	6.0mb	LPG	43.04	307 iPc	08 39.10 -0.4		LSF	46.74	308 iPc	09 08.40 -0.3
KAF	39.42	338 eP	08 09.20 0.1		0.9s	99.60nm	5.5mb			0.9s	21.45nm	5.1mb
	0.4s	2.30nm	4.3mb	LMR	43.05	304 iPc	08 38.90 -0.3		LESF	46.87	304 P	09 09.76 0.0
BRG	39.43	317 iPc	08 09.40 0.0		0.8s	14.90nm	4.8mb		LPO	46.93	306 iPc	09 10.50 0.3
	0.9s	42.00nm	5.2mb	BNI	43.06	307 Pc	08 38.90 -0.5			0.9s	56.50nm	5.6mb
WET	39.60	314 iPc	08 10.60 -0.2	LPL	43.06	307 iPc	08 39.20 -0.3		LFF	47.26	306 iPc	09 13.10 0.3
	1.3s	86.00nm	5.4mb		0.8s	82.75nm	5.5mb			0.9s	140.20nm	6.0mb
FIR	39.65	305 eP	08 13.00 1.7	CDF	43.07	312 P	08 37.86 -1.5		EPF	47.56	304 iPc	09 14.20 -1.1
CTI	39.73	309 Pc	08 12.00 0.0	MOF	43.07	311 P	08 38.66 -0.8		EROQ	47.60	301 iPc	09 16.68 1.1
LZH	39.95	67 iPc	08 14.50 0.4	ECH	43.11	311 P	08 39.01 -0.7		IPM	47.86	111 ePc	09 17.50 -0.4
	1.5s	70.00nm	5.2mb	RSL	43.15	308 P	08 39.54 -0.7		MFF	47.91	309 iPc	09 17.30 -0.6
Z 22s	0.56um	4.4Msz		LRG	43.17	304 iPc	08 40.10 0.0			1.3s	51.25nm	5.4mb
E 15s	0.43um				1.2s	34.80nm	5.0mb		LDF	47.97	311 iPc	09 17.40 -1.0
		pP	08 24.00 32km		Z 22s	0.45um	4.3Msz			1.0s	41.80nm	5.4mb
WTTA	39.97	311 iPc	08 13.70 -0.4	LOMF	43.21	310 P	08 39.39 -1.1		EGRA	48.07	303 iPc	09 16.30 -2.9
	0.9s	88.40nm	5.5mb	SDF	43.28	343 iP	08 41.20 0.5		FLN	48.22	311 iPc	09 19.40 -0.9
WATA	40.02	311 iPc	08 13.80 -0.7	APO	43.29	330 eP	08 40.60 -0.3			1.0s	44.60nm	5.4mb
		i	08 28.00 55kmX		0.5s	13.40nm	5.0mb		Z 22s	0.20um	4.1Msz	
CLL	40.13	317 iPc	08 15.60 0.4	BSF	43.30	311 iPc	08 40.50 -0.8		GRR	48.45	311 eP	09 21.50 -0.5
	1.3s	150.00nm	5.6mb		0.9s	27.85nm	5.0mb			1.0s	41.00nm	5.4mb
BDI	40.16	306 Pc	08 15.50 -0.1	HAU	43.62	311 iPc	08 42.90 -0.9		LPF	48.56	310 iPc	09 22.10 -0.8
SQTA	40.24	311 iPc	08 15.80 -0.5		0.8s	19.75nm	4.9mb			1.2s	57.10nm	5.5mb
	0.6s	55.20nm	5.5mb	Z 21s	0.25um	4.1Msz			ECHE	48.74	299 eP	09 25.67 1.2
		i	08 29.50 52kmX	BCAO	43.69	244 iPd	08 48.00 3.3X		ELIZ	48.92	304 iPc	09 25.85 0.1
OGA	40.30	310 iPc	08 17.00 0.1		0.8s	7.00nm	4.5mb		BJI	49.40	60 eP	09 29.00 -0.4
	1.0s	50.00nm	5.2mb			id	09 21.00 148kmX			1.3s	40.00nm	5.3mb
MOTA	40.34	311 iPc	08 16.20 -0.9	GYA	43.76	80 P	08 45.00 -0.3		Z 20s	0.66um	4.6Msz	
CD2	40.38	75 IPd	08 17.30 -0.2	VITF	43.89	311 P	08 44.58 -1.4		ETOR	49.46	301 IPd	09 30.47 0.4
FUR	40.40	312 iPc	08 17.20 -0.2	WLF	44.00	313 iPc	08 46.68 -0.1		ECRI	49.67	303 iPc	09 32.03 0.4
	1.0s	66.00nm	5.3mb		1.1s	34.50nm	5.1mb		EVIA	50.03	298 eP	09 34.92 0.5
BSD	40.41	323 iPc	08 17.60 0.2	XAN	44.27	69 Pc	08 48.50 -0.8		ESY	50.20	321 eP	09 34.80 -0.6
	0.8s	148.00nm	5.8mb		1.2s	28.00nm	5.0mb		EDR	50.30	322 eP	09 35.40 -0.7
SAL	40.43	308 P	08 18.20 0.6	Z 30s	0.74um	4.4MszX				1.3s	26.00nm	5.1mb
KMI	40.67	84 Pc+	08 24.50 4.3X	N 12s	0.26um				EBL	50.42	320 eP	09 36.50 -0.6
	1.5s	110.00nm	5.4mb			pP	08 58.10 32km			1.2s	10.00nm	4.7mb
		pP	08 27.00 8kmX			sP	09 02.70		EKA	50.44	320 Pc	09 36.00 -1.2
		sP	08 31.00			S	15 16.00			1.4s	39.80nm	5.2mb
KMI	40.67	84 Pc	08 20.50 0.3			sS	15 29.00		EDI	50.52	321 eP	09 36.80 -1.0
	1.5s	110.00nm	5.4mb	ENN	44.34	315 ePc	08 50.00 0.5		TIA	50.63	65 eP	09 38.50 -0.4
		pP	08 27.00 22kmX		1.0s	54.00nm	5.3mb		ELO	50.88	321 ePc	09 40.30 -0.2
		sP	08 31.00	SSB	44.58	307 P	08 51.12 -0.5			1.1s	12.00nm	4.8mb
GRF	40.78	314 iPc	08 21.30 0.7	BTO	44.67	60 P	08 52.50 0.0		ECOG	51.05	297 eP	09 41.17 -1.6

GUD 51.07 301 eP 09 42.35 0.0
 EGUA 51.11 296 eP 09 42.22 -0.4
 EAB 51.20 321 ePc 09 42.10 -0.8
 PAB 51.34 300 iPc 09 49.50 5.1X
 0.9s 21.01nm 5.1mb
 MAL 51.80 296 eP 09 54.20 6.4X
 EHOR 52.28 297 eP 09 51.03 -0.4
 EPRU 52.41 296 eP 09 51.28 -1.1
 DMU 52.50 318 eP 10 00.00 7.2X
 EPLA 52.60 300 eP 09 53.70 -0.1
 DCN 52.70 317 eP 09 54.00 -0.3
 NJ2 52.83 70 Pd 09 55.00 -0.5
 10 05.00

ERUA 53.10 303 eP 09 57.97 0.5
 EVAL 53.50 297 eP 09 59.13 -1.2
 STS 54.07 304 eP 10 04.94 0.4
 SNY 54.75 57 eP 10 10.40 0.9
 SSE 54.99 70 Pc 10 20.00 8.6X
 1.4s 22.00nm 5.0mb
 Z 20s 0.50um 4.6Msz

SSE 54.99 70 Pc 10 10.00 -1.4
 1.4s 22.00nm 5.0mb
 Z 20s 0.50um 4.6Msz

BUL 55.52 213 iPc 10 20.50 5.0X
 1.0s 10.00nm 4.8mb
 BUL 55.52 213 eP 10 15.00 -0.5
 CN2 55.83 54 eP 10 16.60 -0.7
 1.0s 23.00nm 5.2mb
 Z 20s 0.61um 4.7Msz

YAK 57.26 32 eP 10 25.50 -1.7
 1.5s 50.00nm 5.3mb
 Z 14s 0.80um 5.0MszX

AKU 58.49 332 iP 10 36.90 1.1
 1.0s 28.00nm 5.3mb
 MDJ 58.64 53 eP 10 35.20 -1.9
 DAG 59.42 345 iPd 10 41.50 -0.7
 0.9s 14.29nm 5.1mb

LKO 61.57 266 P 10 56.34 -1.4
 KIC 62.30 262 P 11 01.50 -1.1
 Z 20s 1.50um 5.2Msz

MAT 67.03 60 (P) 11 31.00 -2.0
 0.7s 4.79nm 4.7mb
 MBC 75.66 359 ePc 12 23.80 -0.1
 0.9s 7.00nm 4.7mb

BRW 77.83 11 iPd 12 36.48 0.4
 e 12 46.92 33km
 FRB 78.81 338 eP 12 41.50 -0.1
 0.7s 10.00nm 4.9mb

IMA 82.98 12 iPc 13 03.74 -0.1
 0.9s 6.88nm 4.7mb
 INK 83.33 4 eP 13 07.00 1.7
 1.0s 5.00nm 4.6mb

F8A 85.07 10 eP 13 13.39 -0.8
 1.0s 6.89nm 4.8mb
 TTA 85.29 15 eP 13 15.49 0.0
 1.4s 19.85nm 5.1mb

WRA 88.64 113 P 13 33.80 1.5
 0.9s 5.20nm 4.8mb
 WB2 88.65 113 iPd 13 33.50 1.1
 1.0s 15.70nm 5.3mb

YKA 89.25 356 eP 13 34.50 -0.1
 0.8s 8.30nm 5.1mb
 FCC 89.99 345 eP 13 41.50 3.4X
 ASPA 90.18 117 eP 13 41.50 1.9
 1.0s 7.50nm 4.9mb

ZOBO 128.34 271 PKP 19 45.00 -2.1
 CNCB 128.43 270 PKP 19 48.70 1.4
 S.D. = 0.9 on 259 of 279 obs.

% APR 12, 1993 15h 43m 01.02±1.01s
 37.916 N ±12.8km 21.224 E ±10.0km
 DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)
 MD 3.4 (ATH).

VLS 0.56 298 ePb 43 12.50 0.0
 VLI 1.82 131 ePn 43 32.90 0.4
 ATH 1.97 88 ePn 43 34.20 -0.6
 KEK 2.11 329 ePn 43 36.40 -0.4
 KZN 2.42 10 ePb 43 42.00 0.6
 S.D. = 0.7 on 5 of 5 obs.

* APR 12, 1993 15h 57m 58.11±1.66s
 37.593 N ±16.2km 21.209 E ±6.4km
 DEPTH = 33.0km (normol)
 3.6mb (2 obs.)

SOUTHERN GREECE (368)

AGG 1.68 31 ePb 58 27.74 2.2
 1.0s 58 49.90
 IGT 2.05 341 iPb 58 32.02 1.0
 LIT 2.70 21 ePn 58 41.78 1.7
 1.0s 59 11.78

PAIG 3.03 39 ePn 58 44.98 0.2
 1.0s 59 20.50
 FNA 3.19 2 ePn 58 48.10 1.0
 1.0s 59 23.10

THE 3.33 24 ePn 58 49.26 0.2
 1.0s 59 26.42
 GRG 3.48 15 ePn 58 51.42 0.1
 OUR 3.49 37 ePn 58 51.94 0.6
 1.0s 59 32.50

OHR 3.53 355 iPn 58 52.70 0.7
 SOH 3.63 27 ePn 58 54.38 1.0
 1.0s 59 35.90
 KNT 3.80 20 ePn 58 55.46 -0.2
 1.0s 59 38.06

SRS 3.97 27 iPn 58 58.62 0.4
 TDS 4.34 300 P 59 03.00 -0.4
 SKO 4.38 2 iPn 59 04.00 0.0
 1.0s 59 15.00

MMB 4.44 25 iPc 59 04.00 -0.9
 ORI 4.46 305 P 59 06.00 0.8
 KKB 4.51 18 iP 59 05.00 -0.8
 BRT 4.52 318 P 59 06.30 0.3
 RZN 4.90 32 iPc 59 11.00 -0.6
 1.0s 59 12.46

ALN 5.00 47 ePn 59 13.70 0.4
 MEU 5.03 266 P 59 08.60 0.0
 1.0s 59 14.70
 MGR 5.09 302 P 59 14.00 -1.5
 KDZ 5.19 37 iP 59 15.00 -1.1
 VTS 5.22 16 eP 59 21.10 1.8
 SGO 5.46 305 P 59 34.50 -1.6
 HVAR 6.66 328 ePn 00 45.30
 1.0s 59 41.50

SDI 7.03 308 P 00 34.00 -2.9
 CTI 11.05 323 P 03 03.30 -1.6
 APO 23.43 351 eP 03 10.90 -1.1
 0.4s 0.80nm 3.6mb
 NAO 24.16 348 P 03 10.90 -1.1
 0.7s 1.60nm 3.7mb

S.D. = 1.2 on 30 of 30 obs.

? APR 12, 1993 16h 04m 41.36±1.39s
 40.410 N ±20.9km 28.050 E ±6.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.5 (ISK).

BNT 0.11 242 iPg 04 44.80 0.5
 EDC 0.16 246 iPg 04 44.50 -0.5
 1.0s 04 46.50
 KCT 0.28 124 iPg 04 47.30 0.0
 1.0s 04 51.90
 YLV 1.02 81 ePn 05 00.70 0.0
 S.D. = 0.7 on 4 of 4 obs.

? APR 12, 1993 16h 06m 13.78±4.48s
 34.750 S ±46.9km 70.885 W ±18.5km
 DEPTH = 100.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)
 MD 3.6 (SAN).

CACH 0.67 21 iP 06 31.46 0.1
 1.0s 06 45.98
 CHCH 0.84 13 iP+ 06 32.74 -0.1
 1.0s 06 48.07
 LNV 0.90 331 iP+ 06 33.30 -0.1
 1.0s 06 49.57
 LCCH 1.39 336 iP+ 06 39.17 0.1
 1.0s 06 59.16
 FCH 1.50 19 iP+ 06 40.76 0.0
 1.0s 07 02.35
 PEL 1.61 6 eP 06 41.88 0.0
 1.0s 07 04.43
 S.D. = 0.1 on 6 of 6 obs.

* APR 12, 1993 16h 17m 58.48s
 59.210 N 153.520 W
 DEPTH = 94.1km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUI 0.13 21 eP 18 11.32 0.9
 1.0s 18 21.06

AUE 0.17 27 eP 18 11.13 0.7
 AUL 0.18 14 eP 18 11.58 1.0
 MCNL 0.42 267 eP 18 12.53 -0.8
 1.0s 18 23.72

OPT 0.47 18 iP 18 12.95 -0.7
 PDB 0.67 330 eP 18 14.34 -1.0
 1.0s 18 26.72

SYI 0.84 135 eP 18 15.90 -1.1
 INW 0.88 13 eP 18 16.66 -0.9
 INE 0.88 15 eP 18 16.71 -1.0
 CNPM 1.21 74 eP 18 20.77 -0.5
 1.0s 18 36.55

RS1 1.31 17 eP 18 21.83 -0.8
 RS2 1.31 17 iP 18 21.81 -0.9
 RSO 1.31 17 eP 18 21.81 -0.9
 BRK 1.45 66 eP 18 23.62 -0.7
 1.0s 18 42.00

KDC 1.56 159 eP 18 22.94 -2.6
 CKL 2.08 16 eP 18 31.56 -1.0
 CKT 2.10 18 eP 18 31.57 -1.2
 SPU 2.11 20 eP 18 31.70 -1.2
 SLKM 2.11 51 eP 18 31.38 -1.5
 CKN 2.13 18 eP 18 32.07 -1.0
 BGL 2.14 15 eP 18 32.49 -0.8
 CP2 2.16 17 eP 18 32.85 -0.8
 SEW 2.25 65 eP 18 33.31 -1.4
 MPA 2.46 57 eP 18 35.68 -1.8
 SUA 2.65 30 eP 18 39.81 -0.4
 PTE 2.80 52 eP 18 39.64 -2.5
 PMS 2.84 42 P 18 41.20 -1.6
 SKT 2.95 19 eP 18 42.85 -1.4
 GH0 3.43 40 eP 18 49.34 -1.6
 SML 3.66 42 eP 18 51.88 -2.1
 KLU 4.41 56 eP 19 01.37 -3.1
 TRF 4.53 19 eP 19 05.56 -0.6

32 obs. associated

? APR 12, 1993 16h 52m 21.75±16.32s
 41.351 N ±76.9km 24.490 E ±89.2km
 DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

SRS 0.72 251 ePg 52 34.84 -1.0
 1.0s 52 45.68
 SOH 1.01 239 ePg 52 41.48 0.6
 1.0s 52 56.24
 OUR 1.09 201 ePg 52 42.08 -0.1
 1.0s 52 58.24
 KNT 1.21 262 ePb 52 44.84 0.5
 1.0s 53 00.84

S.D. = 1.3 on 4 of 4 obs.

? APR 12, 1993 17h 19m 26.11±1.22s
 40.459 N ±8.0km 21.461 E ±16.4km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

FNA 0.33 349 ePg 19 33.96 1.0
 1.0s 19 39.88
 OHR 0.82 323 iPg 19 40.90 -1.2
 1.0s 19 53.10
 IGT 1.27 223 ePb 19 50.20 0.5
 1.0s 20 08.40
 AGG 1.58 155 ePb 19 53.96 -0.3
 S.D. = 1.7 on 4 of 4 obs.

APR 12, 1993 17h 42m 37.09±0.40s
 33.294 S ±5.1km 70.092 W ±4.0km
 DEPTH = 9.6 ± 3.3 km
 4.2mb (2 obs.)

CHILE-ARGENTINA BORDER REGION (127)
 MD 4.6 (SAN).

FCH 0.17 259 iP+ 42 41.37 0.3
 SAN 0.50 251 iPd 42 47.54 0.3
 1.0s 42 56.50
 PEL 0.52 287 iP+ 42 46.98 -0.6
 1.0s 42 55.63
 JACH 0.74 325 iP 42 50.31 -1.4
 1.0s 43 00.42
 CHCH 0.79 216 iP+ 42 52.79 0.3
 CACH 0.92 207 iP+ 42 55.87 1.0
 1.0s 43 09.63
 MDZ 1.12 69 eP 42 56.90 -1.3
 1.0s 43 19.70

12d 17h

LCCH 1.25 261 iPd 42 59.96 -0.4
 iS 43 16.96
 LNV 1.28 239 iP 43 00.82 -0.1
 iS 43 18.39
 RFA 2.00 138 ePc 43 10.50 -0.9
 CFA 2.30 43 e(P) 43 17.20 1.5
 MRA 3.79 78 e(P) 43 37.40 0.5
 TCA 5.05 69 e(P) 43 51.00 -3.8X
 i 43 54.00
 (S) 45 06.00
 CYA 6.08 39 eP 44 08.60 -0.7
 FSA 8.01 27 eP 44 36.50 0.2
 SLA 9.43 26 e(P) 44 57.80 1.6
 CCH 16.24 14 P 46 32.70 5.4X
 CNCB 16.52 7 P 46 32.00 0.9
 LPB 16.79 7 P 46 35.70 1.4
 ZOBO 17.04 6 P 46 37.60 -0.1
 1.1s 20.59nm 4.2mb
 LR 53 04.00
 PPD 20.03 61 (P) 47 12.00 -1.1
 LIC 73.01 71 P 54 08.60 -0.7
 KIC 73.32 71 P 54 10.80 -0.3
 FVM 73.40 343 (P) 54 09.00 -2.0
 LKO 74.60 67 P 54 18.88 0.3
 ALQ 75.96 330 eP 54 27.00 0.9
 1.0s 2.50nm 4.3mb
 GBA 144.56 116 PKP 02 16.00 0.0
 S.D. = 1.0 on 25 of 27 obs.

? APR 12, 1993 17h 57m 16.63± 2.15s
 32.301 S ±10.7km 69.051 W ±26.5km
 DEPTH = 33.0km (normal)
 MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.98 45 ePd 57 35.00 0.9
 S 57 51.20
 RTLL 1.09 27 iPc 57 35.00 -0.6
 RFA 2.51 169 iPc 57 56.20 0.1
 MRA 2.83 93 iPc 58 00.10 -0.4
 TCA 3.92 77 e(P) 58 03.00 -13.0X
 i 58 13.20
 S.D. = 1.2 on 4 of 5 obs.

* APR 12, 1993 18h 59m 21.55± 0.88s
 37.129 S ± 8.7km 176.570 E ±12.9km
 DEPTH = 281.0 ± 10.7 km
 NORTH ISLAND, NEW ZEALAND (159)

KUZ 0.78 299 Pc 59 59.30 0.2
 S 00 29.10
 URZ 1.21 159 P 00 00.70 -0.5
 S 00 30.20
 HBZ 1.46 109 P 00 02.00 -0.8
 PUZ 1.64 126 P 00 03.60 -0.6
 S 00 33.70
 PAHZ 1.77 168 P 00 05.40 0.3
 NOZ 1.89 142 P 00 06.30 0.3
 MOH 2.05 167 P 00 08.10 0.7
 TTH 2.42 175 eP 00 11.70 1.1
 WAHZ 2.57 184 P 00 12.50 0.3
 TEHZ 2.86 176 P 00 15.90 0.9
 MNG 3.59 193 P 00 22.20 -0.4
 S 01 08.20
 MTW 4.11 191 eP 00 27.80 -0.7
 CAW 4.14 196 P 00 28.70 -0.1
 MRW 4.35 199 eP 00 30.80 -0.4
 S 01 23.60
 THZ 5.43 210 eP 00 44.10 0.1
 eS 01 49.10
 KHZ 5.77 203 P 00 47.90 -0.2
 S 01 54.10
 DSZ 5.91 217 P 00 49.40 -0.4
 WRA 40.49 283 P 06 35.20 0.3
 0.6s 0.40nm 2.9mb
 S.D. = 0.6 on 18 of 18 obs.

? APR 12, 1993 19h 48m 43.45± 1.55s
 18.203 S ±14.9km 72.401 W ±17.1km
 DEPTH = 33.0km (normal)
 4.5mb (1 obs.)
 OFF COAST OF NORTHERN CHILE (121)

LPB 4.43 69 P 49 50.00 -0.6
 1.1s 810.13nm
 CNCB 4.44 73 Pc 49 51.20 0.4
 ZOBO 4.52 65 iPc 49 53.00 1.1
 ANT 5.78 162 eP 50 09.50 0.3

CCH 6.03 83 P 50 13.00 0.0
 SIV 11.05 80 P 51 31.80 9.4X
 BAO 23.49 87 eP 53 50.20 -1.2
 i 53 51.00
 e 53 56.00
 BDF 23.57 88 (P) 53 52.00 -0.2
 YKA 87.02 342 eP 01 36.20 9.8X
 0.8s 2.60nm 4.5mb
 WRA 133.89 216 PKP 07 59.80 0.1
 0.8s 0.50nm
 S.D. = 0.8 on 8 of 10 obs.

? APR 12, 1993 20h 14m 29.05± 8.80s
 41.918 N ±62.9km 23.076 E ±14.9km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)

KNT 0.77 190 iPg 14 43.54 -0.5
 eSg 14 53.78
 SRS 0.89 154 iPg 14 46.10 0.0
 eSg 14 58.94
 GRG 1.09 208 ePg 14 49.74 0.2
 iSg 15 03.82
 SOH 1.12 169 ePg 14 50.38 0.4
 eSg 15 05.82
 OUR 1.72 156 ePb 14 59.10 -0.1
 S.D. = 0.5 on 5 of 5 obs.

? APR 12, 1993 20h 20m 33.97± 0.88s
 18.737 N ±10.5km 95.305 W ±11.0km
 DEPTH = 33.0km (normal)
 3.7mb (1 obs.)
 VERACRUZ, MEXICO (525)

IISM 1.98 278 (P) 21 23.80 18.0X
 OXX 2.13 220 (P) 19 54.70 -73.4X
 PPM 3.16 276 (P) 20 35.50 -47.6X
 SCX 3.23 128 iP 21 23.50 0.0
 iS 21 56.20
 ILL 3.97 265 iP 21 34.50 0.3
 UYO 15.39 3 iPc 24 10.10 -0.2
 MEO 16.25 350 iP 24 22.50 1.1
 ALQ 18.94 331 eP 24 54.00 -1.0
 1.0s 5.00nm 3.7mb
 DAU 25.59 331 (P) 26 02.00 -0.2
 MCMT 29.85 334 ePc 26 32.30 -8.5X
 S.D. = 0.9 on 6 of 10 obs.

APR 12, 1993 20h 42m 16.24± 0.50s
 35.671 N ± 5.2km 23.976 E ± 3.8km
 DEPTH = 74.9 ± 7.7 km
 3.8mb (11 obs.)
 CRETE (370)
 MD 4.4 (HLW), 3.8 (ATH).

VLI 1.34 321 iPnd 42 41.30 1.7
 NPS 1.40 106 ePn 42 43.60 3.2
 ATH 2.31 355 ePn 42 53.00 0.2
 AGG 3.59 339 ePn 43 11.48 0.8
 eSn 43 52.10
 VLS 3.69 314 ePn 43 15.60 3.5X
 YER 3.77 66 iPn 43 14.50 1.3
 IZM 3.78 43 ePn 43 12.40 -1.0
 CIN 3.83 59 eP 43 15.00 1.1
 PRK 4.01 26 ePn 43 15.80 -0.7
 PAIG 4.26 357 iPn 43 19.57 -0.4
 EZN 4.55 23 ePn 43 22.00 -2.0
 LIT 4.58 346 iPn 43 24.89 0.4
 eSn 44 15.80
 OUR 4.66 0 iPn 43 25.38 -0.2
 IGT 4.82 324 ePn 43 27.60 -0.3
 ELL 4.92 76 iPn 43 31.50 2.1
 KZN 4.94 340 ePn 43 30.50 0.8
 THE 5.02 351 ePn 43 29.96 -0.7
 SOH 5.17 355 iPn 43 33.08 0.3
 KHL 5.17 58 ePn 43 33.00 0.1
 KEK 5.22 322 ePn 43 33.30 -0.2
 GRG 5.42 347 ePn 43 37.08 0.8
 SRS 5.45 357 ePn 43 37.04 0.4
 eSn 44 35.90
 ALN 5.47 17 ePn 43 36.96 0.1
 FNA 5.50 339 ePn 43 36.76 -0.7
 eSn 44 38.80
 KNT 5.55 352 ePn 43 38.72 0.7
 eSn 44 39.10
 BCK 5.61 70 eP 43 40.10 1.0
 VAY 5.75 349 iPn 43 41.70 0.9

MMB 5.91 358 iP 43 42.00 -1.2
 OHR 5.98 336 ePn 43 42.50 -1.6
 RZN 6.04 5 iPc 43 44.00 -1.0
 KKB 6.23 354 iP 43 47.00 -0.5
 SKO 6.60 343 ePn 43 57.00 4.4X
 LCI 6.65 316 P 43 51.20 -2.1
 eSn 44 55.30
 GRI 6.80 300 P 43 55.16 -0.2
 PPCY 6.89 94 eP 43 54.60 -2.0
 eS 45 09.90
 VTS 6.94 355 iPc 43 58.00 0.6
 GMB 6.96 293 P 43 57.58 -0.2
 ROI 7.05 306 P 43 58.70 -0.2
 TDS 7.25 306 P 44 01.80 0.2
 eSn 45 10.70
 CSI 7.34 306 P 44 06.30 3.4X
 ORI 7.39 309 P 44 04.00 0.4
 eSn 45 16.00
 MEU 7.43 284 P 44 04.00 -0.3
 eSn 45 18.50
 PZI 7.44 283 P 44 02.94 -1.3
 BRT 7.44 316 P 44 03.30 -1.0
 eSn 45 18.00
 PVL 7.61 8 iP 44 04.00 -2.5X
 CSS 7.68 93 eP 44 05.00 -2.6X
 eS 45 29.70
 MGR 8.01 306 P 44 11.10 -1.0
 eSn 45 29.90
 SGO 8.39 308 Pd 44 17.20 -0.1
 eSn 45 40.50
 KOT 8.74 129 ePn 44 22.30 0.2
 eSn 45 50.30
 HVAR 9.49 324 iPn 44 28.50 -3.8X
 ADI 9.65 102 eP 44 31.90 -2.7X
 ZNT 9.80 107 eP 44 33.90 -2.7X
 eS 46 14.80
 SDI 9.97 310 P 44 39.30 0.4
 eSn 46 16.90
 JVI 10.17 108 eP 44 38.50 -3.2X
 SHMJ 10.19 103 P 44 41.61 -0.4
 SALJ 10.40 107 P 44 45.05 0.3
 MKT 10.47 114 eP 44 43.60 -2.1
 eS 46 32.80
 MASJ 10.54 109 P 44 47.03 0.3
 MKRJ 10.56 110 P 44 47.20 0.3
 LISJ 10.58 111 P 44 47.37 0.3
 MBH 10.90 120 eP 44 50.60 -1.0
 HQL 11.32 121 eP 44 56.20 -0.8
 CSTJ 11.54 110 P 44 59.16 -1.0
 VBY 11.84 329 ePn 45 02.50 -1.4
 eSn 47 02.80
 AYN 12.22 120 eP 45 08.60 -0.4
 CEY 12.38 327 e(P) 45 09.00 -2.2
 eS 47 17.50
 GEC2 15.18 333 Pn 45 51.80 4.1X
 Sn 48 28.80
 KHC 15.47 334 eP 45 55.90 4.7X
 LMR 15.49 305 eP 45 59.30 7.8X
 FRF 15.49 306 eP 45 56.30 4.8X
 0.4s 3.55nm 3.9mb
 PRU 15.87 337 P 45 58.90 2.6
 LPL 16.35 312 eP 46 07.80 5.2X
 GRF 16.83 330 eP 46 10.70 2.5
 HAU 17.96 319 eP 46 22.40 0.1
 SMF 18.66 312 eP 46 30.40 -0.3
 0.4s 1.15nm 3.5mb
 LBF 18.74 313 eP 46 31.60 -0.1
 0.6s 3.00nm 3.7mb
 LOR 18.95 314 eP 46 34.30 0.2
 0.5s 2.05nm 3.6mb
 AVF 19.02 312 eP 46 35.40 0.6
 SSF 19.06 313 eP 46 36.00 0.8
 LFF 19.94 305 eP 46 51.00 6.5X
 MFF 21.11 309 eP 46 58.20 1.7
 0.5s 3.50nm 4.0mb
 LDF 21.94 313 eP 47 06.10 1.4
 0.6s 6.60nm 4.2mb
 FLN 22.23 314 eP 47 08.50 1.0
 0.5s 7.50nm 4.4mb
 LPF 22.24 311 eP 47 09.00 1.3
 GRR 22.28 312 eP 47 09.10 1.0
 0.3s 2.50nm 4.1mb
 SLL 25.75 348 eP 47 39.60 -1.6
 0.4s 2.40nm 4.1mb
 NAO 26.54 346 P 47 46.30 -2.2
 0.5s 0.40nm 3.2mb
 BCAO 31.49 190 iPd 48 47.50 14.4X

0.8s 7.00nm
YKA 76.66 342 eP 54 00.40 0.2
0.5s 0.40nm 3.6mb
S.D. = 1.2 on 73 of 89 obs.

? APR 12, 1993 21h 54m 43.21±0.95s
44.518 N ± 6.7km 7.276 E ± 12.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

PZZ 0.13 264 P 54 46.42 0.0
S 54 48.34
STV 0.28 173 P 54 49.02 0.0
S 54 52.80
ENR 0.31 160 P 54 49.70 0.0
S 54 53.93
BHB 0.32 358 P 54 49.94 0.0
S 54 54.28
S.D. = 0.0 on 4 of 4 obs.

APR 12, 1993 22h 03m 49.17±0.23s
37.175 N ± 5.4km 71.601 E ± 3.6km
DEPTH = 121.6km (9 depth phases)
4.5mb (36 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG. (717)

KSH 4.13 55 P 04 52.50 1.0
S 05 40.00
NDI 9.69 149 iPd 06 05.20 -1.6
iS 07 45.00
MAIO 9.76 269 iPd 06 03.60 -4.2X
eS 07 47.00
WMO 13.92 57 P 07 00.00 -2.3
GKN 14.28 126 P 07 02.80 -4.3X
KKN 14.85 125 P 07 08.40 -5.9X
DMN 14.86 126 P 07 10.60 -3.8X
PKI 15.08 125 P 07 12.60 -4.7X
GUN 15.16 123 P 07 13.60 -4.8X
LSA 17.92 109 iPd 07 52.90 0.4
1.2s 43.00nm 4.6mb

TAB 20.03 280 eP 08 18.00 3.3X
HYB 20.61 161 eP 08 20.00 -0.6
1.0s 70.00nm 5.0mb

SHL 20.78 118 iPd 08 22.00 -0.4
eS 11 59.00

DHR 21.18 245 eP 08 25.70 -0.4
GTA 22.22 76 P 08 37.00 0.5
1.0s 23.00nm 4.5mb

GBA 24.05 166 P 08 55.00 0.9
RYD 24.69 247 eP 09 00.10 -0.1
LZH 25.84 83 P 09 11.50 0.6
1.5s 40.00nm 4.8mb

CD2 27.28 94 P 09 34.00 103kmX
OBN 29.73 318 eP 09 45.00 0.5
0.9s 16.00nm 4.7mb

e 10 11.00 119km
e 10 25.00
e 10 53.00
e 11 17.00

BTO 29.94 71 eP 09 47.50 -0.3
CHG 30.12 120 eP 09 49.70 0.2
XAN 30.38 85 Pd 09 51.40 -0.2
1.0s 25.00nm 4.9mb

HHC 31.08 71 eP 09 58.00 0.2
0.8s 4.60nm 4.3mb

GYA 31.49 100 iPd 10 01.40 -0.1
1.0s 19.00nm 4.8mb

NST 33.12 123 eP 10 16.50 0.9
CVO 34.71 299 eP 10 32.00 3.0X
MLR 34.88 298 ePd 10 33.50 2.9X
TIA 36.25 77 eP 10 42.90 0.8
KAF 37.33 327 eP 10 50.80 0.0
NUR 37.57 324 iP 10 52.70 -0.1
0.6s 3.80nm 4.4mb

SPC 38.62 305 eP 11 03.50 1.5
SRO 39.98 303 eP 11 14.90 1.9
i 11 42.20 120km

UPP 40.84 321 iP 11 19.90 0.0
KSP 41.10 308 eP 11 23.00 0.8
ec 11 50.20 119km
SSE 41.11 83 Pd 11 24.00 1.5

1.0s 11.00nm 4.6mb
IPM 42.16 133 ePd 11 32.20 1.0
PRU 42.28 306 P 11 33.10 1.3
e 12 07.00 153kmX
e 12 25.50
e 14 09.10

VBY 42.35 300 eP 11 33.60 1.1
BRG 42.59 308 iP 11 35.50 1.2
i 12 02.40 117km

APO 42.76 322 eP 11 34.70 -0.9
0.5s 8.50nm 4.7mb
GEC2 42.94 305 eP 11 38.00 0.7
0.5s 0.63nm 3.6mb

e 11 39.70 6kmX
e 11 41.00
e 11 43.80
e 11 51.60
e 12 05.40

KHC 42.99 305 eP 11 38.60 0.9
1.2s 7.00nm 4.3mb
e 12 06.00 120km
e 12 26.00

MOX 44.08 308 iPd 11 47.40 0.9
e 12 14.90 120km
NAO 44.31 322 P 11 47.10 -1.0
0.8s 6.90nm 4.4mb

GRF 44.45 306 ePd 11 51.20 1.8
1.0s 11.00nm 4.6mb
id 11 54.80 12kmX
id 12 18.20

CDP 47.22 305 eP 12 11.40 0.0
0.7s 1.75nm 3.9mb
BSF 47.65 304 eP 12 14.40 -0.4
0.6s 4.80nm 4.4mb

HAU 47.91 305 eP 12 16.20 -0.5
LPG 48.21 301 eP 12 19.10 -0.2
0.9s 5.90nm 4.4mb

LPL 48.21 301 eP 12 19.20 -0.1
0.8s 6.05nm 4.4mb
FRF 48.78 299 eP 12 23.20 -0.2
0.8s 11.55nm 4.8mb

LBF 49.71 304 eP 12 29.60 -0.9
SMF 49.88 303 eP 12 31.30 -0.5
0.8s 6.45nm 4.6mb

AVF 50.17 304 eP 12 33.50 -0.5
0.7s 6.70nm 4.7mb
MAF 50.84 303 eP 12 39.00 -0.1
TCF 51.06 303 eP 12 40.60 -0.2

1.0s 7.80nm 4.6mb
LSF 51.53 304 eP 12 43.50 -0.8
LDF 51.96 307 eP 12 46.50 -1.0
0.4s 1.70nm 4.3mb

EKA 52.14 316 P 12 48.00 -0.7
0.7s 5.10nm 4.5mb
FLN 52.14 307 eP 12 47.80 -1.0
0.8s 7.00nm 4.6mb

GRR 52.49 307 eP 12 50.40 -1.0
0.6s 5.50nm 4.7mb
DAG 54.25 344 eP 13 03.60 -0.4
0.8s 4.48nm 4.5mb

BCAO 58.35 249 ePd 13 34.00 0.1
0.7s 6.00nm 4.7mb
id 14 35.10 275kmX
MBC 66.64 3 ePd 14 27.60 -0.4
0.8s 6.00nm 4.5mb

pP 14 59.50 130km
IMA 71.33 18 eP 14 55.57 -1.6
0.7s 1.57nm 3.9mb

INK 73.16 9 eP 15 08.50 0.9
0.6s 2.00nm 4.1mb
pP 15 41.00 130km

YKA 80.55 3 eP 15 48.00 -0.7
0.7s 2.10nm 4.0mb
WRA 81.94 122 P 16 04.70 8.1X
0.7s 2.70nm 4.1mb

WB2 81.95 122 eP 15 55.00 -1.7
0.8s 1.70nm 3.9mb
i 16 04.10 29kmX
ASPA 84.24 125 eP 16 12.70 4.4X
0.8s 3.70nm 4.3mb

S.D. = 0.9 on 60 of 71 obs.

* APR 12, 1993 22h 27m 10.77±3.35s
17.884 S ± 16.9km 178.566 W ± 13.9km
DEPTH = 541.5 ± 39.5 km
4.5mb (9 obs.)

FIJI ISLANDS REGION (181)

DZM 14.69 251 iPd 30 18.40 1.2
URZ 20.65 190 eP 31 13.30 -0.9
NOZ 20.87 187 eP 31 18.50 2.3
MNG 23.23 192 eP 31 36.10 -1.5

THZ 24.90 195 eP 31 53.40 0.8
DSZ 25.17 197 P 31 56.00 1.0
KHZ 25.36 194 P 31 56.00 -0.6
LTZ 26.01 196 P 32 01.70 -0.7

BWZ 28.28 198 P 32 21.30 -0.8
MHZ 28.94 198 P 32 27.70 -0.3
SBCZ 28.96 198 P 32 27.70 -0.4
LSCZ 28.97 198 P 32 27.90 -0.3

CMCZ 29.02 198 P 32 28.70 0.0
TLC 29.12 198 P 32 29.60 0.0
ARMA 29.82 240 iPd 32 36.30 0.5
0.4s 7.00nm 4.6mb

RMQ 31.38 248 iPd 32 49.30 0.4
0.7s 9.00nm 4.5mb
CAN 33.60 232 iPd 33 08.40 0.8
BWA 33.71 234 iPd 33 06.70 -1.8

CMS 34.91 240 eP 33 19.00 0.5
0.7s 11.00nm 4.6mb
OLP 35.40 249 eP 33 22.50 -0.1
TOO 37.07 231 eP 33 37.40 1.2

0.6s 25.00nm 5.0mb
STK 38.51 241 iPd 33 49.10 1.0
0.2s 5.60nm 4.8mb
WB2 44.48 260 iPd 34 34.10 -1.6

0.3s 4.80nm 4.5mb
WRA 44.49 260 P 34 35.30 -0.4
0.4s 2.20nm 4.0mb
WARB 51.15 251 eP 35 24.30 -1.6

FBA 85.82 13 eP 38 52.00 -1.4
ALO 86.20 52 (P) 38 57.00 0.9
1.0s 2.50nm 3.9mb
YKA 94.37 25 eP 39 31.80 -1.2

0.8s 0.80nm 3.9mb
KSP 145.04 344 iPKPc 45 47.70 0.1
CLL 145.41 347 iPKPc 45 48.40 0.2
0.7s 14.00nm

BRG 145.61 346 iPKPc 45 49.40 0.9
PRU 146.28 345 PKP 45 51.50 1.9
e 45 53.50

GRF 147.30 348 ePKPc 45 54.40 3.1X
e 45 57.60
KHC 147.32 345 ePKP 45 54.00 2.6X
GEC2 147.55 345 ePKPc 45 54.60 2.8X

0.5s 3.08nm
DOU 147.77 356 PKP 45 55.20 3.2X
CDF 149.18 352 ePKP 45 58.90 4.5X
0.5s 3.65nm

LDF 149.34 2 iPKPc 45 58.80 4.3X
0.4s 3.20nm
GRR 149.52 3 ePKP 45 59.50 4.8X
0.4s 3.95nm

HAU 149.69 353 ePKP 46 00.00 4.9X
0.4s 2.05nm
BSF 149.81 353 ePKP 46 00.20 4.8X
LPF 149.86 3 iPKPc 46 00.40 5.2X

0.4s 5.90nm
LOR 150.63 357 iPKPc 46 02.20 5.7X
0.4s 5.10nm

HYF 150.68 358 iPKPc 46 02.80 6.2X
SSF 150.85 357 iPKPc 46 02.90 6.1X
0.4s 4.20nm

LBF 150.90 356 iPKPc 46 02.80 5.8X
0.4s 1.90nm
AVF 151.13 357 iPKPc 46 03.00 5.8X
0.5s 1.40nm

MFF 151.33 2 iPKPc 46 03.70 6.2X
0.5s 3.30nm
TCF 151.67 359 ePKP 46 04.50 6.4X
LSF 151.71 360 iPKPc 46 04.30 6.2X

0.3s 1.75nm
S.D. = 1.1 on 32 of 50 obs.

APR 12, 1993 23h 25m 05.85±0.48s
33.245 S ± 5.3km 70.150 W ± 4.5km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.1 (SAN).

FCH 0.14 235 iP+ 25 09.83 0.3
PEL 0.46 283 iP+ 25 15.47 0.2
iS 25 23.06

SAN 0.48 244 iP+ 25 15.83 0.3
iS 25 23.78

12d 23h

JACH	0.67	326	iP+	25	18.63	-0.7	FLN	146.91	8	ePKP	15	17.20	1.8	LPB	6.40	6	eP	26	43.00	0.1
			iS	25	28.59			0.7s	6.70nm					ZOBO	6.65	6	P	26	46.00	-0.6
CHCH	0.80	211	iP+	25	21.08	-0.4	LDF	147.12	7	ePKP	15	17.60	1.8	SIV	10.06	48	P	27	39.80	8.1X
			iS	25	33.14		GRR	147.22	8	ePKP	15	18.30	2.4X	PPD	16.22	90	(P)	28	51.00	0.0
CACH	0.95	203	iP+	25	23.98	0.0		0.7s	10.35nm					S.D. = 0.6 on 7 of 8 obs.						
			iS	25	37.73		LPF	147.55	9	ePKP	15	19.20	2.8X	APR 13, 1993 02h 25m 46.84± 0.17s						
LCCH	1.21	259	iP+	25	28.53	0.1		0.8s	15.30nm					1B.952 N ± 3.2km 70.690 W ± 2.9km						
			iS	25	45.51		CDF	147.63	358	ePKP	15	19.70	3.0X	DEPTH = 79.2km (23 depth phases)						
LNv	1.27	236	iPd	25	28.75	-0.6		0.7s	5.30nm					4.7mb (36 obs.)						
			iS	25	46.79		HAU	148.06	359	ePKP	15	20.80	3.5X	DOMINICAN REPUBLIC REGION (B8)						
RTBS	1.69	21	ePc	25	35.70	0.2		0.7s	6.85nm					Felt throughout the Dominican Republic.						
			S	25	59.50		BSF	148.23	359	ePKP	15	21.00	3.3X							
RFA	2.07	138	eP	25	42.00	0.9		0.5s	2.05nm					MCP	3.43	98	P	26	39.90	0.8
			S	26	10.80		KBA	148.36	350	i(PKP)	15	21.60	3.5X	MGP	3.54	105	P	26	41.80	1.2
CFA	2.30	45	ePc	25	46.20	1.8	WTTA	148.43	352	iPKPc	15	21.90	3.7X	LRS	3.70	100	P	26	43.30	0.4
			S	26	16.70			0.6s	5.80nm					APR	3.79	97	P	26	44.20	0.2
MRA	3.83	79	e(P)	26	05.10	-1.0	HYF	148.69	4	ePKP	15	22.70	4.4X	PORP	3.95	102	P	26	47.00	0.7
			(S)	26	58.30		LOR	148.76	3	ePKP	15	22.60	4.1X	CSB	4.35	98	P	26	51.90	-0.1
			e	27	01.60		SSF	148.95	3	ePKP	15	23.30	4.6X	SJG	4.39	100	iP	26	52.10	-0.4
TCA	5.08	70	eP	26	22.60	-1.3		0.7s	7.30nm					LPR	4.61	97	P	26	54.00	-1.7
			(S)	27	39.00		LBF	149.05	2	ePKP	15	23.30	4.3X	CPD	4.62	101	P	26	55.00	-0.8
S.D. = 0.9 on 13 of 13 obs.								0.5s	4.80nm				HOJ	5.83	262	iPc	27	11.42	-1.2	
• APR 13, 1993 00h 55m 51.10± 0.62s							AVF	149.21	3	ePKP	15	23.40	4.3X	STH	5.88	262	iPc	27	11.49	-1.8
15.980 S ±30.1km 174.212 W ±23.2km								0.5s	2.05nm							S	28	18.87		
DEPTH = 147.1km (3 depth phases)							SMF	149.38	3	ePKP	15	24.10	4.7X	BBJ	6.26	266	iPc	27	17.34	-1.3
4.7mb (11 obs.)								0.7s	3.95nm				PCJ	6.27	260	iPc	27	16.78	-1.9	
TONGA ISLANDS (173)							BGF	149.41	4	ePKP	15	24.20	4.7X	NEV	7.93	102	eP	27	40.90	-0.7
								0.6s	4.70nm							eS	29	13.34		
DZM	19.26	249	iPc	00	07.00	0.2	VBY	149.51	347	ePKP	15	25.50	5.9X	MORO	8.35	164	iPc	27	47.90	0.4
ARMA	34.38	239	iPd	02	26.40	0.3	LSF	149.61	6	ePKP	15	24.40	4.6X				iS	29	16.20	
	0.6s	7.00nm			4.6mb			0.7s	9.15nm					MGH	8.37	104	eP	27	46.92	-0.7
RMQ	35.95	247	iPc	02	39.50	0.2	TCF	149.64	5	ePKP	15	24.70	4.9X				eS	29	22.48	
	0.6s	13.00nm			4.8mb		MAF	149.73	4	ePKP	15	25.10	5.1X	CPB	8.52	97	eP	27	46.56	-3.1X
CNB	37.78	232	eP	02	55.00	0.3		0.7s	6.15nm							eS	29	21.43		
CMS	39.46	240	iPd	03	08.90	0.3	LPL	150.54	359	ePKP	15	28.10	6.6X	BPA	8.62	101	eP	27	47.50	-3.5X
	0.9s	19.00nm			4.8mb			0.7s	4.95nm				PAG	9.07	107	eP	27	57.00	-0.3	
QLP	39.97	248	eP	03	13.30	0.5	LPG	150.56	359	ePKP	15	28.20	6.6X	CAR	9.15	156	ePc	27	59.10	0.7
STK	43.07	240	iPc	03	38.80	0.7		0.7s	6.05nm							iPP	27	59.90		
	0.6s	13.70nm			4.8mb		LFF	150.82	7	ePKP	15	27.60	6.0X			iS	29	35.30		
BFD	43.59	233	eP	03	42.30	0.0	CAF	150.97	5	ePKP	15	28.10	6.2X	TOV	9.15	174	eP	27	58.20	-0.2
	0.8s	7.00nm			4.4mb		LPO	151.12	7	ePKP	15	28.30	6.2X	LLAV	9.23	155	iPd	27	59.40	0.0
WB2	48.94	257	eP	04	24.20	-0.3	S.D. = 0.9 on 32 of 58 obs.									iS	29	32.00		
	0.6s	18.70nm			5.0mb		• APR 13, 1993 01h 29m 59.06± 1.61s							GUAC	9.32	159	eP	28	00.80	0.1
WRA	48.95	257	P	04	25.00	0.4	38.360 S ± 9.8km 175.868 E ± 8.0km									iS	29	34.70		
	0.8s	5.90nm			4.4mb		DEPTH = 189.4 ± 16.3 km							DEG	9.55	104	eP	28	01.00	-2.8
FORT	54.46	243	eP	05	04.50	-1.1	NORTH ISLAND, NEW ZEALAND (159)							OLLA	9.64	157	iPd	28	06.10	1.0
WARB	55.71	249	eP	05	14.10	-0.7	WHH	0.72	137	P	30	25.40	-0.9	SDV	10.01	180	iPc	28	10.00	-0.2
	0.5s	14.00nm			5.1mb		MOZ	0.85	260	P	30	27.60	0.6			iS	29	55.20		
COOL	60.40	243	eP	05	46.00	-1.4	URZ	0.98	85	P	30	26.70	-1.1	FDF	10.05	113	eP	28	11.29	0.7
KLB	63.27	242	eP	06	06.00	-0.5			S	30	44.40		CEOS	10.12	167	iPd	28	11.40	-0.2	
BAL	64.23	243	eP	06	12.00	-0.7	WAHZ	1.39	164	P	30	31.50	0.3	BIM	10.21	114	eP	28	12.74	-0.1
MUN	64.57	242	iPd	06	15.10	0.2	TTH	1.40	148	eP	30	31.60	0.4	CRM	10.25	113	eP	28	14.79	1.6
MRWA	64.96	245	eP	06	17.00	-0.4	BSZ	1.61	207	P	30	34.40	1.2X	MVM	10.35	114	eP	28	16.50	1.9
NANU	66.13	252	eP	06	25.50	0.6	NOZ	1.72	99	P	30	34.80	0.6	SLW	10.56	116	eP	28	15.67	-1.8
	0.4s	14.00nm			5.2mb		MAHZ	1.78	118	eP	30	35.30	0.5	SLB	10.57	117	eP	28	16.10	-1.5
ALO	81.77	50	eP	07	54.90	-0.2	TEHZ	1.79	156	P	30	35.20	0.3	SVV	10.69	120	eP	28	19.24	0.1
		pP	08	30.90	143km		PUZ	1.90	82	P	30	35.80	-0.3	TCE	11.91	132	eP	28	37.88	2.4
FBA	83.11	11	eP	08	01.30	0.2			eS	31	00.00		TRN	12.19	131	eP	28	39.98	0.8	
	1.0s	12.00nm			4.7mb		HBZ	2.07	69	P	30	38.20	0.4			eS	30	45.00		
BW06	83.22	42	eP	08	00.91	-1.6	MNG	2.28	187	Pc	30	40.40	0.2	TPR	12.29	128	eP	28	41.86	1.3
	0.8s	2.07nm			4.0mb				S	31	07.40		TPP	12.39	133	eP	28	42.39	0.6	
YKA	90.94	24	eP	08	38.20	-0.7	PGZ	2.28	172	P	30	40.40	0.3	TBH	12.54	131	eP	28	45.52	1.7
	0.7s	0.40nm			3.7mb X		KIW	2.61	196	P	30	44.00	0.1	GOGA	18.38	324	eP	29	55.80	-2.1
KAF	131.68	347	iPKP	14	46.70	-0.9	MTW	2.81	186	P	30	46.00	-0.3		0.6s	24.35nm		33	02.50	4.6mb
	0.5s	2.30nm					CAW	2.81	192	P	30	46.40	0.0	CEH	18.43	338	eP	29	57.38	-1.1
NUR	133.48	347	iPKP	14	50.30	-0.7	DIW	2.87	211	P	30	47.20	0.2		0.4s	113.10nm		33	00.30	5.5mb
	0.4s	3.10nm					MRW	3.01	197	P	30	48.60	-0.1	MYNC	19.99	326	eP	30	14.84	-0.7
HFS	135.54	354	ePKP	14	54.90	-0.1			eS	31	23.50			0.7s	44.82nm		30	15.50	-0.5	
	0.3s	1.70nm					BLW	3.02	186	P	30	48.50	-0.3	CBN	20.05	344	eP	30	15.50	-0.5
KSP	144.21	349	ePKP	15	09.80	-1.1	MOW	3.09	189	P	30	49.30	-0.5				e	33	46.00	
SPC	144.84	343	e(PKP)	15	13.20	1.0	KHZ	4.43	203	P	31	06.20	-0.2	TKL	20.26	328	eP	30	17.72	-0.6
MOX	145.10	354	ePKP	15	12.20	-0.2	S.D. = 0.5 on 20 of 21 obs.							GBTN	20.49	327	ePc	30	20.05	-0.6

13d 05h

				eS	14 08.00	
GKN	14.17	121	P	13 35.60	-1.0	
DMN	14.74	122	P	13 43.80	-0.4	
KKN	14.75	121	P	13 43.40	-0.8	
WMO	14.88	54	eP	13 41.00	-4.8X	
PKI	14.97	121	P	13 46.40	-0.9	
GUN	15.10	119	P	13 47.60	-1.3	
HYB	19.89	158	eP	14 47.50	0.5	
				eS	18 15.00	
GTA	22.97	73	eP	15 20.00	2.1	
GBA	23.25	164	P	15 23.00	2.4	
				S	19 31.00	
KAF	37.86	327	iP	17 31.30	1.1	
				0.3s	1.00nm	4.2mb
SLL	43.51	323	eP	18 16.90	0.2	
				0.4s	1.00nm	3.9mb
NAO	44.76	323	P	18 26.80	-0.1	
				0.9s	5.30nm	4.3mb
BCAO	57.54	250	ePd	20 01.00	-2.8	
				0.6s	3.00nm	4.6mb
MBC	67.63	3	eP	21 10.00	0.0	
				0.9s	5.00nm	4.5mb
IMA	72.40	18	e(P)	21 39.80	0.4	
INK	74.19	9	eP	21 52.00	2.5	
KIC	74.75	267	(P)	21 51.40	-2.2	
FBA	74.75	16	eP	21 53.40	0.5	
YKA	81.53	3	eP	22 29.00	-0.9	
				0.6s	2.10nm	4.3mb
WRA	81.86	122	P	22 31.50	-0.8	
				0.5s	0.80nm	4.0mb

S.D. = 1.5 on 23 of 24 obs.

% APR 13, 1993 05h 34m 11.14±0.92s
37.697 N ± 5.9km 2.486 W ± 9.6km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.6 (MDD).

EHUE	0.14	324	iPgc	34 14.34	-0.3	
				eSg	34 16.90	
ENIJ	0.76	163	iPgd	34 25.75	-0.2	
				eSg	34 34.90	
EVIA	0.94	359	iPgc	34 29.45	0.3	
				eSg	34 41.20	
ECOG	0.96	244	ePg	34 29.41	0.0	
				eSg	34 44.00	
EGUA	1.22	225	ePn	34 34.33	0.5	
				eSn	34 51.60	
ELUQ	1.42	265	ePn	34 36.67	-0.4	
				eSn	34 55.90	

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

APR 13, 1993 06h 23m 31.24±1.15s
36.307 N ± 8.4km 69.594 E ± 5.6km
DEPTH = 111.1 ± 12.9 km
4.7mb (23 obs.)

HINDU KUSH REGION, AFGHANISTAN (718)

QUE	6.49	201	eP	25 05.20	-0.7	
				eS	26 18.10	
MAIO	8.15	273	iPc	25 28.60	0.1	
				eS	26 55.00	
NDI	9.96	138	iPc	25 52.50	-0.2	
				0.5s	112.68nm	6.0mb X
GKN	15.18	119	P	27 00.00	-1.0	
DMN	15.75	119	P	27 07.60	-0.6	
KKN	15.77	118	P	27 08.40	0.0	
PKI	15.99	119	P	27 11.00	-0.3	
GUN	16.12	117	P	27 12.80	-0.2	
POO	18.10	167	eP	27 39.50	2.5	
HYB	20.42	155	eP	28 02.30	0.7	
				1.0s	30.00nm	4.6mb
				eS	31 44.00	
GBA	23.68	161	P	28 36.00	2.4	
				S	33 38.00	
OBN	29.33	320	iPd	29 21.00	-4.2X	
				0.6s	38.00nm	5.2mb
				e	30 09.00	
MLR	33.89	299	ePd	30 08.00	2.8X	
KAF	37.18	328	iP	30 33.30	0.6	
				0.5s	5.60nm	4.7mb
NUR	37.33	325	eP	30 34.60	0.7	
				0.3s	10.30nm	5.2mb
UPP	40.53	322	iP	31 01.10	0.7	
GEC2	42.12	305	ePc	31 14.30	0.5	
				0.8s	3.24nm	4.2mb
CLL	42.43	309	iPd	31 16.90	0.7	

APO	42.47	323	eP	31 15.90	-0.5	
				0.4s	17.10nm	5.2mb
MOX	43.34	308	eP	31 24.90	1.3	
GRF	43.67	307	iPc	31 28.10	1.8	
				1.1s	15.00nm	4.7mb
NAO	44.01	323	P	31 28.20	-0.7	
				0.7s	16.60nm	4.9mb
CDF	46.40	305	eP	31 48.50	0.4	
BSF	46.81	305	eP	31 51.20	-0.2	
				0.6s	5.75nm	4.5mb
HAU	47.08	305	eP	31 53.30	-0.1	
				0.6s	5.75nm	4.5mb
LPG	47.28	302	eP	31 55.40	0.0	
				0.8s	7.80nm	4.6mb
LPL	47.29	302	eP	31 55.50	0.1	
LBF	48.85	304	eP	32 06.70	-0.5	
SMF	49.02	304	eP	32 08.20	-0.2	
				0.9s	18.35nm	5.0mb
SSF	49.15	304	eP	32 09.00	-0.4	
AVF	49.31	304	eP	32 10.40	-0.2	
				0.9s	15.55nm	4.9mb
BGF	49.71	304	eP	32 13.20	-0.4	
MAF	49.97	303	eP	32 15.80	0.1	
				0.8s	5.65nm	4.6mb
TCF	50.20	304	eP	32 17.50	0.1	
				1.0s	14.00nm	4.9mb
CAF	50.64	302	eP	32 20.90	0.1	
LSF	50.66	304	eP	32 20.40	-0.5	
RJF	50.91	302	eP	32 23.00	0.2	
LDF	51.19	307	eP	32 24.10	-0.8	
LPO	51.30	302	eP	32 25.70	-0.1	
FLN	51.38	307	eP	32 25.40	-0.9	
				0.6s	3.80nm	4.5mb
LFF	51.54	302	eP	32 27.50	-0.1	
EKA	51.64	316	P	32 28.00	-0.1	
				0.9s	11.40nm	4.8mb
MFF	51.70	304	eP	32 28.80	0.1	
GRR	51.71	307	eP	32 28.00	-0.8	
LPF	51.92	306	eP	32 29.50	-0.9	
BCAO	56.53	248	iPd	33 02.00	-2.4	
				1.0s	15.00nm	5.0mb
				id	33 33.90	
MBC	67.58	2	ePd	34 17.90	0.8	
				0.7s	3.00nm	4.3mb
INK	74.27	9	eP	34 59.00	1.7	
FBA	74.96	16	eP	35 01.60	0.2	
				1.0s	10.00nm	4.6mb
YKA	81.48	2	eP	35 36.70	-0.1	
				0.8s	1.20nm	3.8mb
WRA	82.86	121	P	35 43.80	-0.9	
				0.6s	0.90nm	3.8mb
WB2	82.87	121	eP	35 43.00	-1.7	
				1.2s	4.80nm	4.3mb

S.D. = 0.9 on 50 of 52 obs.

* APR 13, 1993 07h 39m 49.98±0.87s
10.663 N ± 10.4km 69.351 W ± 7.7km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)

VENEZUELA (101)

TOV	0.97	207	eP	40 27.10	19.7X	
MORO	1.04	78	iPd	40 08.70	0.4	
				eS	40 23.50	
CEOS	1.91	148	eP	40 20.70	-0.2	
				eS	40 44.20	
GUAC	2.10	103	iPc	40 23.90	0.2	
				iS	40 53.30	
SDV	2.17	216	iPnc	40 24.80	0.1	
				iSn	40 53.00	
LLAV	2.51	94	eP	40 28.70	-0.7	
OLLA	2.59	104	eP	40 30.80	0.3	
				eS	41 03.60	
YKA	61.05	338	eP	50 02.50	-0.1	
				0.8s	0.50nm	3.7mb

S.D. = 0.5 on 7 of 8 obs.

* APR 13, 1993 07h 57m 18.79±0.62s
23.316 S ± 8.0km 66.789 W ± 9.8km
DEPTH = 217.6 ± 7.9 km
3.9mb (2 obs.)

JUJUY PROVINCE, ARGENTINA (128)

YJA	1.65	46	iPd	57 56.00	-0.2	
SLA	1.84	140	iPd	57 58.00	0.4	
				S	58 27.80	
FSA	2.84	166	eP	58 08.90	0.9	

ANT	3.35	263	iP+	58 12.30	-1.6	
				iS	58 52.20	
CCH	5.93	6	eP	58 47.00	0.5	
CNCB	6.57	350	iPc	58 55.90	1.1	
				S	00 16.00	
LPB	6.86	349	P	58 57.70	-0.8	
				S	00 16.00	
ZOBO	7.12	350	P	59 02.00	0.0	
				S	00 19.00	
SIV	9.06	37	P	59 37.60	10.9X	
PPD	14.35	88	(P)	00 41.00	7.5X	
BAO	19.29	70	eP	01 28.50	-0.9	
BDF	19.35	70	eP	01 29.00	-1.0	
ALQ	69.09	326	eP	08 04.40	1.1	
				1.0s	3.25nm	4.0mb
YKA	93.55	340	eP	10 10.80	0.3	
				1.0s	0.80nm	3.8mb

S.D. = 1.0 on 12 of 14 obs.

& APR 13, 1993 08h 35m 08.24s
61.053 N 149.958 W
DEPTH = 40.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

PMS	0.27	45	P	35 16.10	-0.2	
PTE	0.49	112	eP	35 18.26	-0.6	
				eS	35 26.21	
SUA	0.56	318	eP	35 19.41	-0.5	
				eS	35 28.45	
SLKM	0.56	193	eP	35 19.04	-0.8	
				eS	35 27.79	
PWA	0.60	4	P	35 19.60	-0.7	
				S	35 29.50	
MPA	0.64	152	eP	35 20.01	-0.8	
				eS	35 29.89	
PLRM	0.67	36	eP	35 20.36	-1.0	
PMR	0.67	36	iPc	35 19.97	-1.4	
				eS	35 29.07	
NKA	0.70	244	eP	35 22.66	1.0	
GHO	0.88	34	iP	35 23.53	-0.8	
SEW	0.99	165	eP	35 24.47	-1.3	
SPU	1.03	278	eP	35 25.52	-0.9	
				iS	35 39.35	
CPAM	1.08	282	eP	35 26.67	-0.5	
				S	35 41.45	
CRP	1.09	282	eP	35 26.19	-1.2	
SML	1.09	45	eP	35 26.54	-0.7	
CKN	1.09	280	eP	35 26.82	-0.5	
CKT	1.10	279	eP	35 26.61	-0.9	
				eS	35 41.22	
CP2	1.13	282	eP	35 27.26	-0.7	
CKL	1.16	278	eP	35 27.67	-0.7	
				eS	35 43.21	
SKT	1.20	322	eP	35 28.42	-0.4	
				eS	35 44.57	
BGL	1.20	281	eP	35 28.30	-0.6	
				S	35 44.91	
BRLK	1.37	200	eP	35 30.56	-0.7	
				eS	35 47.70	
DFR	1.41	252	eP	35 31.02	-0.9	
SCM	1.49	57	eP	35 32.70	-0.3	
RSO	1.50	248	eP	35 32.63	-0.6	
				eS	35 52.19	
NCT	1.54	253	eP	35 33.07	-0.6	
CNPM	1.66	203	eP	35 34.49	-0.9	
VLZ	1.76	86	eP	35 35.71	-1.1	
HIN	1.82	110	eP	35 37.07	-0.6	
INE	1.83	238	eP	35 37.65	-0.3	
KLU	2.00	75	eP	35 38.97	-1.4	
CVA	2.13	102	eP	35 39.64	-2.4	
TRF	2.41	356	eP	35 47.01	0.7	
PDB	2.45	241	eP	35 46.51	-0.2	
SDG	2.57	53	eP	35 48.26	-0.1	
PAX	2.86	46	eP	35 52.08	-0.5	
GLB	3.00	80	eP	35 52.61	-1.8	
IMA	5.30	343	eP	36 26.		

QUE	6.67	212	eP	45 05.00	0.1
			eS	44 30.20	
MAIO	9.38	276	eP	45 08.00	1.3
			eS	46 47.00	
GKN	13.95	121	P	46 06.00	-0.5
DMN	14.52	121	P	46 14.40	-0.1
KKN	14.53	120	P	46 14.20	-0.4
PKI	14.75	120	P	46 17.20	-0.4
GUN	14.88	118	P	46 18.40	-0.8
GBA	22.94	164	P	47 55.00	6.7X
GTA	22.98	73	eP	47 51.00	2.3
KAF	38.15	328	eP	50 00.90	-1.8
	0.3s		0.50nm		3.9mb
NUR	38.34	325	iP	50 04.50	0.3
	0.3s		4.00nm		4.8mb
APO	43.50	323	eP	50 46.00	-0.6
	0.4s		3.50nm		4.5mb
NAO	45.05	323	P	50 58.20	-0.8
	0.5s		2.60nm		4.3mb
MBC	67.92	3	eP	53 41.00	-0.1
	1.0s		2.00nm		4.0mb
INK	74.47	9	eP	54 21.00	0.6
FBA	75.01	16	eP	54 23.70	0.1
	1.0s		9.00nm		4.5mb
WB2	81.64	122	eP	55 01.50	1.2
	0.3s		2.20nm		4.4mb
YKA	81.83	3	eP	55 00.20	-0.4
	0.6s		1.20nm		3.9mb
S.D. = 1.0 on 18 of 19 obs.					

APR 13, 1993 08h 52m 44.87±0.36s
 40.910 S ± 4.1km 175.127 E ± 4.2km
 DEPTH = 33.0km (normal)
 3.7mb (1 obs.)
 NORTH ISLAND, NEW ZEALAND (159)
 ML 3.9 (WEL).

KIW	0.17	286	P	52 51.30	0.1
CAW	0.20	193	Pc	52 51.80	0.3
MTW	0.38	131	Pc	52 54.20	0.5
MNG	0.40	43	Pd	52 53.40	-0.6
			S	52 59.30	
MRW	0.45	225	Pd	52 55.00	0.2
			eS	53 02.00	
WEL	0.46	216	P	52 55.40	0.5
			S	53 02.60	
MOW	0.52	170	Pc	52 56.50	0.7
BLW	0.53	150	P	52 56.50	0.6
TCW	0.71	245	Pd	52 59.10	0.7
PGZ	0.92	72	P	53 01.20	-0.2
DIW	0.92	276	P	53 02.40	0.9
BSZ	1.12	352	P	53 05.60	1.3
WAHZ	1.53	38	P	53 09.90	-0.4
TEHZ	1.58	55	P	53 09.70	-1.2
NGZ	1.77	12	P	53 14.60	0.8
THZ	1.88	242	P	53 15.00	-0.3
KHZ	1.92	218	eP	53 15.10	-0.7
QRZ	1.97	272	eP	53 16.90	0.3
			eS	53 40.80	
MOZ	2.41	354	eP	53 23.50	0.6
DSZ	2.64	250	P	53 25.70	-0.4
LTZ	2.84	228	P	53 27.50	-1.4
URZ	3.06	31	eP	53 28.90	-3.1X
ODZ	5.28	217	eP	53 40.00	-23.5X
BWZ	5.29	225	eP	53 59.70	-3.9X
WB2	40.43	289	eP	00 19.40	-2.4
	1.1s		1.50nm		3.7mb
S.D. = 0.9 on 22 of 25 obs.					

% APR 13, 1993 09h 29m 46.46±0.89s
 39.094 N ± 7.3km 27.652 E ± 9.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM	0.76	204	ePg	30 01.30	0.0
			eSg	30 13.80	
DST	0.91	56	iPn	30 04.00	0.0
EZN	1.26	306	ePn	30 09.90	0.0
EDC	1.26	7	ePn	30 09.50	-0.4
BNT	1.28	9	iPn	30 10.50	0.3
S.D. = 0.4 on 5 of 5 obs.					

% APR 13, 1993 09h 31m 36.51±0.78s
 40.397 N ± 6.8km 27.910 E ± 6.9km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

BNT	0.04	170	iPg	31 37.50	-0.4
EDC	0.06	216	iPg	31 37.50	-0.6
			iSg	31 38.50	
DST	0.96	145	iPn	31 56.00	0.7
YLV	1.13	81	ePn	31 58.00	-0.2
EZN	1.34	245	ePn	32 02.40	0.7
DMK	1.43	355	ePn	32 03.00	-0.1
S.D. = 0.7 on 6 of 6 obs.					

? APR 13, 1993 09h 35m 54.69±1.12s
 39.158 N ± 8.5km 27.446 E ± 17.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.8 (ISK).

IZM	0.77	191	iPg	36 09.80	0.0
			eSg	36 21.80	
DST	1.02	64	iPn	36 14.00	0.0
EDC	1.23	15	iPn	36 17.50	0.0
BNT	1.25	17	ePn	36 18.00	0.1
S.D. = 0.1 on 4 of 4 obs.					

? APR 13, 1993 10h 08m 13.14±0.80s
 31.184 S ± 9.6km 67.986 W ± 6.3km
 DEPTH = 14.0 ± 6.2 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.44	251	iPc	08 22.30	0.1
CFA	0.47	207	iPd	08 22.90	0.1
RTCV	0.82	215	iPd	08 28.70	0.0
RTBS	1.34	249	ePc	08 38.00	0.6
RTPR	1.54	56	ePc	08 40.30	0.1
MRA	2.29	123	iPd	08 52.00	0.9
TCA	2.91	94	iP	09 00.20	0.3
			(S)	09 39.00	
PEL	3.01	229	ePd	09 05.00	3.7X
			iS	09 46.00	
CYA	3.33	35	ePc	09 05.70	-0.1
			(S)	09 54.50	
RFA	3.60	186	ePc	09 09.10	-0.6
			i	09 17.80	
			S	10 04.00	
S.D. = 0.6 on 9 of 10 obs.					

? APR 13, 1993 10h 28m 37.93±0.87s
 11.611 S ± 8.9km 117.091 E ± 15.2km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.)

SOUTH OF SUMBAWA, INDONESIA (291)

KHKI	3.54	336	iPc	29 31.90	-0.1
			iS	30 08.00	
			e	31 15.00	
NANU	10.99	188	eP	31 15.40	-0.6
	0.2s		8.00nm		5.6mb X
			eS	33 07.00	
MEEK	15.02	175	iPc	32 09.80	0.3
			eS	34 43.00	
WARB	17.07	149	eP	32 35.00	-0.7
	0.3s		4.00nm		4.0mb
			eS	35 36.00	
MRWA	17.55	183	eP	32 42.50	0.8
			eS	35 43.00	
WB2	18.55	119	eP	32 54.50	0.3
			eS	36 06.80	
S.D. = 0.7 on 6 of 6 obs.					

% APR 13, 1993 10h 32m 17.73±0.69s
 42.374 N ± 5.8km 19.304 E ± 5.0km
 DEPTH = 23.0 ± 9.4 km
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

TTG	0.06	330	iPg	32 21.82	0.0
			iSg	32 24.90	
BDV	0.36	256	iPg	32 25.49	-0.1
			iSg	32 31.63	
ULC	0.41	186	iPg	32 26.39	0.0
			iSg	32 33.27	
NKY	0.49	333	iPg	32 27.62	-0.2
			iSg	32 35.23	
PVY	0.54	66	iPg	32 28.52	-0.1
			iSg	32 37.13	
HCY	0.60	277	iPg	32 29.49	0.0

IVA	0.66	41	iPg	32 38.73	
			iSg	32 30.53	-0.1
			iSg	32 40.72	
BRY	0.77	313	iPg	32 32.40	-0.1
			iSg	32 43.94	
PLE	0.96	4	iPg	32 35.83	0.1
			iSg	32 50.10	
S.D. = 0.1 on 9 of 9 obs.					

% APR 13, 1993 10h 46m 25.24±0.77s
 40.667 N ± 5.8km 22.974 E ± 7.3km
 DEPTH = 5.0km (geophysicist)

GREECE (364)

THE	0.04	191	ePg	46 26.68	0.1
			eSg	46 27.76	
SOH	0.33	62	iPg	46 32.16	0.3
			eSg	46 37.88	
KNT	0.50	353	ePg	46 36.00	0.8
			eSg	46 43.68	
GRG	0.52	304	ePg	46 36.40	0.7
			eSg	46 44.76	
PAIG	0.92	144	ePg	46 44.40	1.2
S.D. = 0.6 on 5 of 5 obs.					

APR 13, 1993 11h 15m 23.05±0.26s
 34.188 N ± 5.0km 140.050 E ± 3.9km
 DEPTH = 99.5km (6 depth phases)
 5.0mb (54 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	2.02	3	P	15 55.20	-1.1
			S	16 18.50	
CHJJ	2.05	335	P	15 57.30	0.5
			S	16 22.00	
IIDJ	2.19	307	iPd	16 00.90	2.3
			S	16 29.30	
MAT	2.79	328	iPd	16 07.60	0.8
			iS	16 40.30	
MTMJ	3.02	323	P	16 11.20	1.3
NIJJ	3.16	345	P	16 11.10	-0.7
			S	16 47.60	
TSRJ	3.61	293	iPd	16 19.50	1.6
WKYJ	3.70	272	P	16 21.40	2.2
			eS	17 04.80	
YAMJ	3.98	360	P	16 21.70	-1.3
			S	17 06.10	
TKSJ	4.99	269	P	16 39.30	2.4
			eS	17 35.60	
OFUJ	5.05	14	iP+	16 34.40	-3.4X
			eS	17 27.50	
YONJ	5.52	282	P	16 46.50	2.2
SHK	6.11	275	iP	16 54.50	2.0
	0.8s		208.96nm		5.5mb
AOMJ	6.37	2	eP	16 53.80	-2.1
SHNJ	7.42	272	P	17 13.00	2.7
KUMJ	7.90	261	P	17 19.00	2.1
MRRJ	8.26	5	P	17 18.10	-3.7X
			eS	18 45.20	
KAGJ	8.29	251	P	17 24.60	2.4
			eS	19 00.00	
HOJJ	8.57	16	eP	17 21.20	-4.8X
			eS	18 49.30	
KUSJ	9.61	21	P	17 34.00	-6.1X
			eS	19 12.70	
ASAJ	10.12	11	eP	17 41.10	-5.8X
MDJ	13.18	325	eP	18 26.00	-1.3
	0.9s		98.00nm		5.4mb
CN2	14.85	315	eP	18 47.60	-1.4
	1.0s		35.00nm		4.5mb
Z	16s		0.41um		4.1MszX
SNY	15.05	305	eP	18 52.40	0.9
	0.6s		33.00nm		4.7mb
SSE	16.19	264	Pd	19 07.50	1.6
	0.8s		26.00nm		4.5mb
NJ2	17.89	269	Pc	19 26.00	-0.8
	1.0s		13.00nm		4.1mb
TIA	18.85	263	eP	19 35.90	-2.0
WHN	22.00	268	eP	20 08.50	-1.5
TIY	22.60	287	eP	20 13.40	-2.6
	Z	22s	0.52um		3.9Msz
	E	15s	0.32um		
HHC	23.49	295	Pc	20 24.20	-0.5
	1.0s		90.00nm		5.1mb
BTO	24.63	294	P	20 34.50	-1.1
	0.6s		69.00nm		5.3mb
XAN	25.73	279	Pd	20 44.00	-1.8

13d 11h

	0.7s	36.00nm	5.0mb		0.6s	20.50nm	5.1mb		0.6s	5.60nm	5.0mb
	Z 24s	0.33um	3.8MszX	MOL	76.33	339 eP	27 02.51 0.2	FRF	91.72	328 eP	28 18.90 -1.5
	N 10s	0.22um		NAO	76.66	337 P	27 03.60 -0.6	MFF	91.95	334 eP	28 21.70 0.3
		SS	26 18.00		0.7s	20.30nm	5.1mb	RJF	92.42	332 eP	28 23.80 0.2
YAK	28.62	350 iPd	21 10.90 -0.7	FCC	77.04	26 eP	27 09.50 3.3X		0.9s	8.70nm	5.1mb
	1.4s	130.00nm	5.4mb	LCCM	77.28	43 ePc	27 09.00 0.9	CAF	92.52	332 eP	28 24.80 0.7
		e(S)	26 06.00	HVU	79.15	47 eP	27 19.74 1.3	LTX	92.74	52 eP	28 25.63 0.1
LZH	29.57	284 Pd	21 17.50 -3.2X			e	27 29.77	LFF	93.02	332 eP	28 25.90 -0.5
	1.2s	38.00nm	5.0mb			eP	27 46.19 102km		0.7s	8.25nm	5.2mb
	18s	0.44um	4.1Msz	FRB	79.79	12 eP	27 21.50 0.4	LPO	93.07	332 eP	28 26.90 0.3
GYA	29.74	264 iPc	21 19.60 -2.6	DUG	80.06	48 eP	27 24.57 1.3	LMN	97.22	17 eP	28 48.00 2.4
	1.0s	19.00nm	4.8mb		0.8s	2.92nm	4.2mb	LKO	125.65	317 PKP	34 14.12 -0.8
CD2	30.67	274 iPd	21 27.50 -2.8	VR1	80.17	319 ePc	27 26.00 2.4	TIC	127.65	314 PKP	34 17.90 -0.9
	0.6s	65.00nm	5.5mb			ed	39 05.50	KIC	127.71	314 PKP	34 18.00 -0.9
IRK	31.28	316 eP	21 35.30 0.0	SSK	80.37	55 (P)	27 29.06 4.0X	LIC	127.99	314 PKP	34 18.40 -1.0
	1.5s	55.00nm	5.1mb			e	27 39.45 33kmX	ZOBO	149.04	62 PKP	35 03.30 5.4X
GTA	32.45	291 P	21 44.00 -1.8	BW06	80.45	44 eP	27 25.95 0.5	LPB	149.23	62 ePKP	35 06.00 8.0X
	1.0s	19.00nm	4.8mb		0.8s	2.23nm	4.0mb	CNCB	149.49	62 PKP	35 00.70 2.2
ADK	35.60	47 eP	22 10.30 -2.2	OJC	80.78	326 eP	27 27.10 0.4		i		35 05.10
CHG	39.57	258 eP	22 44.90 -1.2	MLR	80.83	319 ePc	27 29.00 1.8	SIV	153.74	52 PKP	35 19.00 14.9X
WMQ	41.21	300 iPd	23 00.00 0.6	ARUT	81.10	50 (P)	27 26.09 -2.7	S.D. = 1.2 on 141 of 154 obs.			
	1.0s	93.00nm	5.6mb			eP	27 56.72 120kmX	APR 13, 1993 11h 36m 18.24± 0.57s			
	PP	24 32.40		SPC	81.27	325 eP	27 29.70 0.2	44.748 N ± 3.6km 8.364 E ± 4.9km			
	eS	29 06.40		MSU	81.47	49 eP	27 32.46 1.7	DEPTH = 45.2 ± 10.8 km			
GUN	46.39	278 P	23 40.00 -1.6	KSP	81.93	328 iPd	27 33.00 0.4	NORTHERN ITALY (545)			
IPM	46.67	240 ePc	23 43.00 -0.5	SRU	82.13	48 eP	27 34.95 0.8	PCP	0.24	148 P	36 25.92 -0.6
PKI	46.90	277 P	23 43.80 -1.9			(pP)	28 00.70 98km		S	36 31.91	
KKN	46.92	278 P	23 44.00 -1.7	HRI	82.32	305 iPd	27 35.90 0.7	CKI	0.33	191 Pd	36 27.50 0.2
DMN	47.13	278 P	23 45.40 -2.0	VRAC	82.89	327 eP	27 38.60 1.0		eSg	36 34.40	
GKN	47.37	278 P	23 47.60 -1.6		1.5s	121.40nm	5.6mb	FIN	0.55	192 P	36 29.69 -0.3
SVW	48.44	36 eP	23 57.15 0.3	BRG	82.92	329 iP	27 37.50 -0.3	ROB	0.57	218 P	36 30.91 0.6
	0.9s	17.08nm	4.9mb		1.0s	16.00nm	4.9mb		S	36 39.78	
IMA	49.70	29 eP	24 06.94 0.4	CLL	83.00	330 iPd	27 38.20 0.0	BOB	0.77	88 P	36 33.60 0.6
	0.8s	2.48nm	4.3mb		1.3s	27.00nm	5.0mb		eSg	36 42.40	
RSD	49.83	37 eP	24 07.45 -0.2	SRO	83.15	325 iP	27 40.70 1.7	BHB	0.79	277 P	36 33.06 -0.1
CRP	50.13	36 eP	24 09.32 -0.6	PRU	83.32	328 Pd	27 40.50 0.7		S	36 43.41	
KSH	50.61	296 P	24 14.50 0.7		1.0s	12.00nm	4.8mb	DOI	0.84	253 P	36 34.00 0.2
	0.5s	40.00nm	5.7mb	PV09	83.36	48 eP	27 41.93 1.3	ENR	0.85	233 P	36 34.48 0.4
PWA	51.21	35 eP	24 17.70 -0.2	JVI	83.37	304 eP	27 41.30 0.8		S	36 46.00	
	0.8s	34.30nm	5.4mb	ZST	83.46	326 eP	27 40.80 0.2	RSP	0.88	298 P	36 34.15 -0.4
FBA	52.10	31 eP	24 24.90 0.3	PV10	83.49	48 eP	27 42.64 1.3		S	36 45.34	
KLU	53.11	35 eP	24 31.18 -1.0	PV08	83.61	47 eP	27 43.21 1.2	STV	0.90	236 P	36 34.78 0.1
WB2	54.10	187 iPc	24 38.60 -1.1	MOX	84.08	330 eP	27 44.10 0.4		S	36 46.66	
	0.6s	23.00nm	5.4mb		1.6s	23.00nm	4.9mb	IMI	0.90	202 P	36 34.10 -0.7
CTA	54.29	173 eP	24 45.00 3.8X	KHC	84.38	328 Pd	27 45.60 0.4		S	36 45.30	
HYB	57.05	269 ePd	24 59.40 -1.8		1.0s	12.50nm	4.8mb	PZZ	0.93	255 P	36 34.68 -0.6
	1.0s	30.00nm	5.3mb			e	28 12.00 100km		S	36 46.42	
INK	57.42	26 ePc	25 03.90 0.9	GEC2	84.53	328 ePd	27 46.10 0.0	SBF	1.11	217 Pn	36 38.10 0.5
	0.9s	3.00nm	4.3mb		0.8s	10.45nm	4.8mb		Sn	36 53.00	
ASPA	57.83	187 iPd	25 05.70 -0.7			e	27 53.30 23kmX	LSD	1.11	310 P	36 37.73 -0.1
	0.6s	18.30nm	5.3mb	PRNI	84.55	303 iPd	27 47.10 0.7	RRL	1.14	279 P	36 38.80 0.6
MBC	59.56	16 eP	25 17.50 -0.3	WET	84.67	328 iPc	27 48.00 1.3		S	36 53.79	
	0.5s	2.00nm	4.5mb	GLD	84.90	45 (P)	27 50.64 2.4	LPL	1.39	304 Pn	36 42.70 1.0
GBA	59.91	266 P	25 20.00 -1.0		1.3s	12.14nm	4.7mb		Sn	37 01.10	
QLP	60.57	176 eP	25 25.00 -0.1	GRF	84.97	329 iPd	27 49.10 0.9	FRF	1.71	227 Pn	36 45.90 -0.2
QUE	60.77	288 eP	25 25.40 -1.5		1.0s	46.00nm	5.4mb		Sn	37 08.70	
RMQ	60.90	171 eP	25 28.10 0.6	EKA	85.43	340 P	27 51.00 0.6	LRG	1.94	229 Pn	36 49.30 0.0
WARB	61.37	194 eP	25 30.00 -0.7		0.7s	5.90nm	4.7mb		Sn	37 13.70	
BRS	62.42	167 iPd	25 38.00 0.4	BHG	85.74	327 iPc	27 52.90 0.9	LMR	1.95	224 Pn	36 49.10 -0.3
MAIO	63.93	297 iPc	25 47.60 -0.1		1.2s	30.00nm	5.2mb		Sn	37 12.70	
FORT	65.60	191 eP	25 58.30 0.1	VBY	86.28	325 eP	27 54.50 -0.2	HAU	3.54	338 Pn	37 11.40 -0.8
KEY	65.71	339 eP	25 58.00 -0.5	RBL	86.38	326 P	27 54.50 -0.8		Sn	37 51.70	
STK	65.73	179 eP	25 57.90 -1.1	OHR	86.55	319 e(P)	27 55.40 -0.8	SMF	3.69	303 Pn	37 14.30 0.0
	0.5s	1.70nm	4.2mb	CDF	87.60	331 eP	28 00.90 -0.3		Sn	37 55.30	
YKA	66.82	29 eP	26 04.70 -1.0	SFI	89.08	325 P	28 09.10 1.0	LBF	3.79	308 Pn	37 15.70 0.0
	0.6s	0.80nm	3.8mb X	PGD	89.17	325 P	28 09.80 0.9		Sn	37 57.60	
SDF	67.21	337 iP	26 07.70 -0.4	LOR	89.88	332 eP	28 11.50 -0.4	LOR	4.03	310 Pn	37 18.90 -0.1
DAG	68.52	355 iPc	26 26.00 9.9X	LPL	90.13	329 eP	28 13.20 -0.2		Sn	38 04.00	
	0.7s	19.86nm	5.1mb		0.8s	6.45nm	4.8mb	S.D. = 0.5 on 23 of 23 obs.			
OBN	69.71	323 iPd	26 23.00 -0.7	LPG	90.19	332 eP	28 13.40 -0.1	% APR 13, 1993 11h 47m 05.12± 0.52s			
	1.0s	70.00nm	5.4mb	SSF	90.47	332 eP	28 13.10 -0.2	42.759 N ± 4.6km 19.138 E ± 4.4km			
KAF	70.33	333 iP	26 26.60 -0.7	AVF	90.52	329 P	28 15.00 -0.1	DEPTH = 10.0km (geophysicist)			
	0.5s	27.70nm	5.3mb	BNI	90.69	335 eP	28 15.50 -0.1	NORTHWESTERN BALKAN REGION (383)			
NUR	71.94	332 iP	26 36.50 -0.5	GRR	0.9s	15.05nm	5.2mb	ML 1.8 (TTG).			
	0.5s	29.70nm	5.4mb		91.05	335 eP	28 17.40 0.1	NKY	0.12	298 iPgc	47 09.21 1.1
KMPM	72.72	53 eP	26 43.38 1.2	LPF	1.1s	25.40nm	5.4mb		iSg	47 11.90	
		e	26 53.63 33kmX		91.14	328 eP	28 16.80 -1.0	TTG	0.34	165 iPgd	47 12.52 0.4
		eSP	27 25.43	SBF	1.0s	43.40nm	5.7mb		iSg	47 18.40	
NEW	72.95	43 eP	26 44.00 0.7	MAF	91.25	332 eP	28 17.70 -0.5	BRY	0.46	288 iPgd	47 13.96 -0.5
	0.9s	9.40nm	4.6mb	TCF	91.33	332 eP	28 18.70 0.1		iSg	47 21.15	
		e	27 04.13 75kmX	LSF	91.62	333 eP	28 20.00 0.0	BDV	0.53	206 iPgc	47 15.64 -0.2
LBFM	73.70	51 eP	26 48.68 0.7						iSg	47 23.84	
ORV	74.89	52 eP	26 54.71 0.1					HCY	0.57	237 iPgc	47 16.12 -0.5
UPP	75.02	334 iP	26 54.30 -0.6								
APD	75.84	336 eP	26 58.30 -1.3								

IVA 0.57 78 iSg 47 24.70
iPgc 47 16.60 -0.2
iSg 47 25.87
PLE 0.60 18 iPgc 47 17.24 -0.1
iSg 47 26.29
PVY 0.64 105 iPgd 47 17.80 -0.2
iSg 47 27.92
ULC 0.80 174 iPgc 47 20.84 0.2
iSg 47 32.92

S.D. = 0.6 on 9 of 9 obs.

? APR 13, 1993 12h 35m 04.54 ± 7.91s
39.222 N ± 56.3km 28.719 E ± 24.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

DST 0.39 350 iPg 35 12.00 -0.5
eSg 35 19.00
KCT 1.06 345 iPn 35 25.70 1.1
BNT 1.29 332 ePn 35 28.00 -0.4
YLV 1.43 20 iPn 35 30.50 -0.2

S.D. = 1.3 on 4 of 4 obs.

% APR 13, 1993 12h 49m 02.54 ± 1.69s
41.415 N ± 18.1km 24.313 E ± 7.3km
DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

SRS 0.62 242 ePg 49 14.24 -0.8
eSg 49 23.68
SOH 0.94 231 iPg 49 19.96 -0.5
eSg 49 34.84
KNT 1.10 257 ePg 49 23.56 0.4
OUR 1.11 193 ePg 49 23.52 0.2
eSg 49 39.96
THE 1.29 233 ePb 49 27.00 0.7
ALN 1.41 111 ePb 49 28.12 -0.1
eSb 49 48.20

S.D. = 0.7 on 6 of 6 obs.

APR 13, 1993 14h 34m 50.43 ± 1.28s
8.761 S ± 7.4km 119.572 E ± 7.5km
DEPTH = 106.5 ± 13.9 km
4.9mb (15 obs.)

FLORES REGION, INDONESIA (286)

KHK1 3.94 275 iPc 35 51.30 1.4
iS 36 36.50
e 42 25.90
KNA 11.35 129 eP 37 28.70 -2.0
0.3s 46.00nm 5.7mb
eS 39 27.00
LEM 12.00 278 ePc 37 40.50 1.2
MTN 12.06 111 eP 37 38.90 -1.0
0.3s 382.00nm 6.6mb X
eS 39 42.00
SWI 14.04 57 ePd 38 06.00 0.2
NANU 14.26 195 eP 38 08.00 -0.7
0.2s 17.00nm 4.9mb
eS 40 32.00
KKM 15.08 347 eP 38 24.50 5.2X
MEEK 17.80 183 eP 38 58.00 5.0X
eS 41 55.00
WB2 18.11 129 iPd 38 55.40 -1.3
i 38 59.90
eS 42 04.40
WARB 18.58 160 eP 39 02.00 -0.2
0.4s 16.00nm 4.7mb
eS 42 21.00
ASPA 20.19 139 iPc 39 19.00 0.0
0.5s 39.30nm 5.0mb
eS 42 55.30
MRWA 20.63 189 eP 39 22.00 -1.3
0.3s 6.00nm 4.4mb
e 39 35.00
eS 43 00.00
BAL 21.90 187 eP 39 37.00 1.0
e 39 51.00
eS 43 31.00
COOL 22.06 176 eP 39 35.00 -2.6
e 39 52.00
eS 43 35.00
IPM 22.75 305 ePd 39 45.10 0.7
MUN 23.31 187 eP 40 07.50 17.8X
eS 44 02.00
NWA0 24.15 185 eP 40 00.00 2.2

CTA 28.14 116 ePc 40 20.00
eS 44 21.00
QLP 29.33 130 eP 40 36.00 1.3
BFD 35.12 147 eP 41 53.30 17.8X
BRS 36.42 125 iPc 41 48.50 1.8
0.9s 9.00nm 4.7mb
ARMA 36.88 130 eP 41 52.80 2.3
GYA 37.19 341 P 41 54.20 1.1
1.0s 9.60nm 4.7mb

KMI 37.46 334 P 41 57.50 1.9
1.5s 50.00nm 5.2mb
CD2 42.26 340 P 42 36.70 1.8
0.6s 84.00nm 5.7mb

XAN 43.75 347 P 42 46.80 -0.1
0.9s 15.00nm 4.8mb

LZH 47.00 343 eP 43 13.50 0.6
1.5s 40.00nm 5.0mb

LSA 47.02 326 P 43 14.40 0.9
1.0s 39.00nm 5.2mb

GBA 47.36 298 P 43 14.00 -1.8
HYB 48.16 303 eP 43 20.00 -2.1

GUN 48.90 319 P 43 27.00 -1.0
PKI 48.97 319 P 43 27.20 -1.3

DMN 49.20 318 P 43 29.00 -1.2
KKN 49.20 319 P 43 29.00 -1.2

GKN 49.77 318 P 43 33.40 -1.0
HHC 49.91 352 eP 43 33.60 -1.6

GTA 51.32 340 P 43 46.00 0.0
1.0s 28.00nm 5.2mb

KSH 62.71 323 P 45 06.20 -0.2
1.0s 20.00nm 5.0mb

QUE 63.65 310 eP 45 26.40 13.5X
MAIO 71.99 313 eP 46 04.00 -0.7

BUL 87.92 250 iPc 47 31.50 1.4
0.9s 4.62nm 4.5mb

YKA 113.74 24 ePKP 53 16.50 -1.2
0.6s 0.60nm

TKL 145.78 35 ePKP 54 19.29 0.8
CNCB 153.52 164 PKP 54 42.00 10.5X

S.D. = 1.4 on 38 of 44 obs.

APR 13, 1993 15h 59m 36.73 ± 0.67s
22.351 N ± 6.2km 94.197 E ± 4.9km
DEPTH = 85.0 ± 6.1 km
4.7mb (25 obs.)

MYANMAR (296)

CHG 5.67 128 ePn 00 59.20 -1.0
eSg 02 02.90
BDT 6.80 137 eP 01 12.00 -3.8X
LSA 7.81 340 Pd 01 30.60 0.5

KMI 8.30 69 P 01 37.00 0.4
1.5s 80.00nm 5.2mb

NST 8.70 139 eP 01 42.50 0.7
GUN 9.35 308 P 01 50.60 -0.5

PKI 9.52 305 P 01 53.00 -0.3
KKN 9.73 306 P 01 55.40 -0.7

DMN 9.77 304 P 01 56.80 0.1
GKN 10.32 305 P 02 03.60 -0.5

GYA 12.07 68 P 02 28.80 1.4
HYB 15.51 254 eP 03 20.50 8.6X

eS 05 56.50
LZH 16.05 29 eP 03 19.50 0.7
1.2s 20.00nm 4.2mb

XAN 17.41 45 P 03 32.00 -3.6X
0.9s 7.60nm 3.9mb

GTA 17.67 14 eP 03 40.00 1.2
GBA 18.15 244 P 03 50.00 5.3X

TIY 21.93 42 eP 04 22.20 -2.3
WMO 22.08 347 iPc 04 26.00 0.1

0.5s 28.00nm 4.9mb
PP 05 02.00

KSH 23.06 322 P 04 39.00 3.5X
0.7s 20.00nm 4.6mb

QUE 25.61 293 eP 05 15.50 15.5X
e(S) 10 07.00

WRA 57.48 134 P 09 14.90 -4.5X
0.4s 3.90nm 4.8mb

WB2 57.49 134 eP 09 18.30 -1.2
0.6s 7.30nm 4.9mb

VR1 58.78 311 eP 09 30.00 1.7
MLR 59.34 311 ePc 09 34.50 2.2

ASPA 59.86 137 eP 09 35.10 -0.8
0.5s 4.80nm 4.9mb

KAF 60.16 330 iP 09 36.50 -1.0
0.5s 3.40nm 4.7mb

NUR 60.75 328 iP 09 40.50 -1.0
0.6s 7.60nm 5.0mb
SDF 61.06 336 iP 09 42.70 -0.9
UPP 64.22 327 iP 10 03.60 -0.9

KSP 65.46 317 eP 10 12.70 0.0
HFS 66.18 327 eP 10 16.00 -1.1
0.6s 16.20nm 5.2mb

Z 19s 53.00um 6.8msz
LR 36 08.00

PRU 66.67 316 eP 10 20.50 0.1
VBY 66.82 311 eP 10 21.90 0.5

BRG 66.93 317 iP 10 21.80 -0.3
NB2 67.34 328 P 10 22.60 -1.9

0.7s 5.90nm 4.6mb
GEC2 67.37 315 ePd 10 25.10 0.1
0.7s 8.58nm 4.8mb

KHC 67.41 315 eP 10 25.50 0.3
CLL 67.46 318 e(P) 10 26.00 0.6

GRF 68.84 316 eP 10 34.40 0.4
Z 22s 0.20um 4.3msz

OSS 70.11 313 eP 10 41.80 -0.2
LLS 70.84 314 ePd 10 46.10 -0.4

CDF 71.63 315 eP 10 50.50 -0.6
0.6s 4.95nm 4.6mb

DIX 72.09 313 iPd 10 54.70 0.7
HAU 72.33 315 eP 10 54.70 -0.4

0.5s 4.50nm 4.6mb
EMS 72.41 313 ePd 10 56.00 0.1

LPG 72.68 313 eP 10 57.60 0.1
0.6s 7.50nm 4.8mb

LPL 72.68 313 eP 10 57.60 0.1
0.5s 13.80nm 5.1mb

FRF 73.24 311 eP 11 00.40 -0.1
LMR 73.39 310 eP 11 02.00 0.6

LRG 73.47 311 eP 11 02.00 0.2
0.5s 5.90nm 4.7mb

LBF 74.15 315 eP 11 05.20 -0.5
SMF 74.33 314 eP 11 06.40 -0.4

0.5s 6.10nm 4.7mb
SSF 74.44 315 eP 11 07.10 -0.3

AVF 74.61 315 eP 11 08.00 -0.4
LSZ 74.68 246 iPc 11 11.00 1.7

BCAO 75.07 269 iPc 11 12.40 0.8
0.6s 6.00nm 4.7mb

TCF 75.51 314 eP 11 13.80 0.2
0.6s 6.05nm 4.7mb

EKA 75.96 324 P 11 16.20 0.3
0.7s 5.90nm 4.6mb

CAF 76.02 313 eP 11 16.20 -0.3
RJF 76.27 313 eP 11 18.40 0.6

LDF 76.32 317 eP 11 17.80 -0.2
0.5s 4.00nm 4.6mb

LPO 76.69 313 eP 11 20.60 0.5
0.4s 5.25nm 4.8mb

GRR 76.85 317 eP 11 20.00 -1.0
LFF 76.91 313 eP 11 21.90 0.6

LPF 77.08 317 eP 11 22.30 0.1
0.7s 5.50nm 4.6mb

CAR 142.47 329 ePKP 19 04.50 2.2
SDV 145.58 333 iPKPc 19 07.20 -0.5

S.D. = 0.9 on 60 of 67 obs.

% APR 13, 1993 16h 05m 29.59 ± 1.33s
39.187 N ± 12.8km 28.599 E ± 20.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

KCT 1.08 350 iPg 05 50.60 0.7
KHL 1.13 140 ePg 05 50.80 0.1

eSg 06 05.30
BNT 1.28 336 ePn 05 52.80 -0.5

EDC 1.29 334 ePn 05 53.50 0.0
YLV 1.50 23 ePn 05 56.30 -0.3

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

APR 13, 1993 16h 20m 34.21 ± 0.50s
40.494 N ± 5.2km 1.765 E ± 5.0km
DEPTH = 10.0km (geophysicist)

BALEARIC ISLANDS (386)

mbLg 3.3 (MDD). ML 3.3 (LDG).

ESEL 1.13 130 ePg 20 56.00 0.6
eSg 21 10.00

ECHE 2.28 248 ePn 21 12.64 0.1
eS 21 40.10

EGRA	2.31	318	ePn	21 13.19	0.3	XAN	Z 13s	0.71um	4.4MsZx	LBF	50.20 302 eP	04 57.20	-0.9	
			eSn	21 40.30			27.14	94 P	01 45.90	0.4		0.5s	3.00nm	4.5mb
ACU	2.60	221	ePn	21 15.83	-1.2		1.0s	11.00nm	4.5mb	SSF	50.48 302 iPd	04 59.70	-0.4	
			eSn	21 44.60			Z 20s	0.55um	4.1MsZ		0.5s	3.20nm	4.6mb	
EPF	2.75	338	Pn	21 19.30	0.1		N 10s	0.26um		AVF	50.67 302 iPc	05 01.10	-0.5	
			Pg	21 26.40				pP	01 54.70	31km	0.5s	7.60nm	4.9mb	
			Sg	22 01.80				sP	01 58.00		BGF	51.08 302 iPc	05 05.00	0.2
ETOR	2.92	278	ePn	21 22.64	0.9	GBA	27.52	176 P	01 51.00	1.9		0.6s	4.35nm	4.6mb
			eSn	21 56.80		KMI	27.57	117 eP	01 52.00	2.2	DAG	51.33 343 iPd	05 06.00	-0.3
LPO	4.21	354	Pn	21 39.70	-0.1	TIY	28.43	85 eP	01 57.00	-0.2		0.4s	15.25nm	5.3mb
			Sg	22 46.80			Z 14s	0.48um	4.2MsZx	MAF	51.39 302 iPc	05 07.40	0.3	
CAF	4.43	3	Pn	21 43.20	0.1		E 10s	0.23um		EKA	51.57 314 Pd	05 07.90	-0.4	
			Sg	22 55.20							0.6s	2.50nm	4.3mb	
LRG	4.53	48	Pn	21 44.70	0.4	OBN	29.14	312 iPc	02 03.00	-0.4	TCF	51.59 302 iPc	05 08.40	-0.3
			Sn	22 32.60			1.0s	17.00nm	4.8mb		0.5s	2.50nm	4.4mb	
LMR	4.54	50	Pn	21 44.20	-0.3		Z 14s	0.60um	4.4MsZx	LDF	52.18 305 iPc	05 12.20	-0.9	
			Sn	22 34.40			E 16s	0.60um			0.5s	8.65nm	4.9mb	
FRF	4.75	48	Pn	21 47.40	-0.2			e	03 03.00	315kmX	FLN	52.34 306 iPc	05 13.70	-0.5
			Sn	22 38.10				LQ	11 40.00			0.6s	4.50nm	4.6mb
MAF	5.75	6	Pn	22 00.80	-0.9	GYA	29.43	110 P	02 07.80	1.4	Z	20s	0.13um	3.9MsZ
			Pg	22 24.30				pP	02 12.80	17km	RJF	52.43 301 iPc	05 15.00	0.0
			Sg	23 38.10		TIA	32.47	85 eP	02 34.00	1.0	Z	20s	0.08um	3.7MsZ
S.D. = 0.7 on 12 of 12 obs.														
% APR 13, 1993 16h 54m 33.53±0.83s														
26.949 S ± 7.3km 26.788 E ± 8.3km														
DEPTH = 5.0km (geophysicist)														
REPUBLIC OF SOUTH AFRICA (584)														
ML 2.5 (PRE).														
BFS	0.05	357	eP	54 35.50	0.4	WHN	32.82	96 Pd	02 37.20	1.2	GRR	52.71 305 eP	05 16.10	-0.9
			S	54 36.40		VR1	35.38	294 eP	03 00.00	2.0	LPO	52.89 300 eP	05 18.20	-0.2
PRY	0.61	88	eP	54 46.00	0.2	CVO	35.77	294 ePc	03 03.50	2.2	LPF	52.96 305 eP	05 17.80	-1.1
			S	54 52.50		KAF	35.92	323 iP	02 59.90	-2.4		0.4s	2.50nm	4.5mb
KSR	1.08	5	eP	54 54.00	-0.5		0.3s	0.60nm	4.0mb	MFF	52.97 303 iPc	05 17.90	-1.1	
			S	55 05.00		MLR	35.99	294 ePc	03 06.00	2.7		0.5s	3.00nm	4.5mb
SWZ	1.33	260	eP	54 59.50	0.9	NUR	36.41	320 iP	03 06.40	-0.1	LFF	53.08 301 eP	05 19.70	-0.1
			S	55 15.50			0.6s	3.60nm	4.4mb	BRW	61.79 17 eP	06 20.50	-0.5	
SEK	1.56	152	eP	55 03.70	1.6	SSE	37.70	91 Pd	03 18.50	0.8	MBC	62.45 4 eP	06 25.00	-0.3
			S	55 23.00			1.0s	11.00nm	4.6mb		0.9s	19.00nm	5.2mb	
SLR	1.81	48	eP	55 05.20	-0.5	YAK	38.03	38 iPc	03 19.30	-0.7	BCAO	62.73 251 iPc	06 26.00	-2.0
			S	55 28.50			0.9s	87.00nm	5.6mb		0.8s	11.00nm	5.1mb	
BLF	2.22	194	eP	55 09.50	-2.1			e(S)	04 44.00	454kmX	OPO	65.14 210 eP	06 44.50	0.8
S.D. = 1.5 on 7 of 7 obs.														
APR 13, 1993 17h 56m 02.09±0.19s														
41.190 N ± 4.6km 75.719 E ± 3.6km														
DEPTH = 21.8km (10 depth phases)														
4.7mb (42 obs.) 4.0MsZ (4 obs.)														
KYRGYZSTAN (716)														
Felt (V) at Atbashi and Naryn.														
KSH	1.74	173	iPg	56 37.50	6.0X	BZS	38.93	295 eP	03 20.00	-7.8X	AVY	65.20 209 eP	06 45.10	1.0
			Sg	57 02.70		OJC	39.25	303 eP	03 30.60	0.2	VTY	65.41 209 eP	06 46.70	1.3
WMO	9.23	69	iPc	58 15.00	-2.0	VAY	39.42	288 iP	03 33.00	1.0	IMA	66.51 20 eP	06 51.20	-0.8
			S	59 58.00		UPP	39.85	318 iP	03 35.10	-0.2		0.8s	7.41nm	4.9mb
QUE	13.08	216	eP	59 07.50	-1.9	KSP	41.35	304 eP	03 48.20	0.5		e	06 56.90	18km
			eS	01 36.50		HFS	41.83	318 eP	03 51.00	-0.5	INK	68.64 11 eP	07 06.00	0.9
MAIO	13.57	254	eP	59 12.00	-3.7X		0.7s	11.20nm	4.7mb	FBA	68.91 18 eP	07 06.50	-0.3	
			eS	01 34.00		Z	17s	0.26um	4.2MsZx	PMR	71.32 21 eP	07 21.00	-0.5	
GKN	15.05	148	P	59 34.20	-1.1			LR	20 32.00			0.8s	17.24nm	5.2mb
KKN	15.50	147	P	59 39.60	-1.6	PRU	42.61	303 eP	03 56.00	-2.1	PMS	71.49 21 eP	07 21.60	-1.1
DMN	15.59	147	P	59 41.00	-1.4		e	03 58.80	9kmX		0.8s	22.80nm	5.3mb	
GUN	15.65	145	P	59 41.20	-2.1	BRG	42.80	305 eP	04 00.00	0.4	FRB	71.63 344 eP	07 23.00	-0.4
PKI	15.75	147	P	59 42.60	-1.9	NB2	43.01	320 P	04 00.60	-0.7	SLKM	71.92 22 eP	07 23.97	-1.2
LSA	16.99	128	eP	00 05.00	4.7X		0.7s	5.90nm	4.4mb	BALM	73.51 18 eP	07 33.76	-0.9	
GTA	18.46	88	eP	00 18.00	-0.2	VBY	43.28	297 eP	04 04.50	1.0	BUL	75.04 225 iPd	07 44.00	0.0
						CLL	43.29	306 iP	04 03.80	0.2		0.9s	4.20nm	4.5mb
			pP	00 26.00			0.8s	11.00nm	4.7mb	YKA	76.33 5 eP	07 50.40	-0.2	
			PP	00 37.00		GEC2	43.41	302 e(P)	04 12.90	8.2X		0.8s	8.80nm	4.9mb
IRK	22.36	51	ePd	01 12.20	12.3X		0.5s	1.80nm	4.1mb	LKO	77.26 272 P	07 55.74	-0.9	
						GEC2	43.41	302 e(P)	04 16.60	11.9X	KIC	78.67 269 P	08 04.00	-0.3
							0.7s	5.70nm		TIC	78.69 269 P	08 04.10	-0.4	
						GEC2	43.41	302 eP	04 05.60	0.9	LIC	78.97 269 P	08 05.00	-1.0
							0.8s	5.90nm	4.4mb	FCC	80.05 355 eP	08 15.50	4.5X	
						KHC	43.42	302 eP	04 05.00	0.3	WRA	81.53 126 P	08 20.10	0.7
							e	05 53.00	624kmX		0.5s	1.70nm	4.3mb	
						MOX	44.29	305 eP	04 12.50	0.8	WB2	81.54 126 iPd	08 19.50	0.1
						ROI	44.32	288 P	04 04.10	-8.1X		0.5s	5.10nm	4.8mb
						CZI	44.77	288 P	04 17.00	1.3	JAO	82.24 343 ePd	08 23.50	0.8
						GRF	44.77	304 iPc	04 16.90	1.3	ASPA	84.09 128 eP	08 30.30	-2.2
							0.9s	21.00nm	5.0mb		1.4s	7.40nm	4.7mb	
						Z	16s	0.60um	4.6MsZx	LMN	86.44 334 eP	08 49.00	4.9X	
						MGR	44.84	289 P	04 16.60	0.4	ULM	88.64 355 eP	08 58.50	3.9X
						MNS	46.04	293 P	04 26.30	0.5	EEO	89.72 343 eP	09 04.00	4.3X
						OSS	46.32	300 iPc	04 27.80	-0.3	NEW	90.21 9 eP	09 02.41	0.4
						LLS	47.01	300 ePc	04 33.10	-0.5		0.8s	20.54nm	5.4mb
						CDF	47.63	303 eP	04 38.10	-0.2		e	09 08.77	20km
						MAT	47.96	74 eP	04 39.00	-2.0	DPW	90.47 9 eP	09 03.86	0.6
							eS	11 00.00			e	09 09.55	18km	
						BSF	48.12	302 iPc	04 42.10	-0.1	LCCM	93.09 5 eP	09 16.30	0.8
							0.5s	4.65nm	4.8mb	RSSD	95.07 360 eP	09 25.30	0.6	
						DIX	48.30	300 ePc	04 43.60	-0.2		0.7s	8.74nm	5.3mb
						HAU	48.34	303 iPc	04 43.70	-0.1		e	09 31.98	21km
							0.5s	5.30nm	4.8mb	BW06	96.28 4 eP	09 30.59	0.3	
						Z	18s	0.20um	4.1MsZ		0.6s	1.37nm	4.6mb	
						EMS	48.62	300 iPc	04 45.90	-0.3	HVU	97.06 6 eP	09 34.77	1.0
						LPG	48.94	299 eP	04 49.10	0.4	ZO80	140.17 298 PKP	15 31.80	-0.1
							0.6s	7.60nm	4.9mb	LPB	140.34 297 PKP	15 38.00	6.0X	
						LPL	48.94	299 eP	04 49.00	0.3	CNCB	140.46 297 PKP	15 33.00	0.6
							0.5s	7.75nm	5.0mb		S.D. = 1.1 on 104 of 117 obs.			
						BNI	49.15	299 P	04 50.00	-0.2				

* APR 13, 1993 17h 57m 29.18±1.60s
35.214 N ±15.6km 30.684 E ±22.1km
DEPTH = 33.0km (normal)
EASTERN MEDITERRANEAN SEA (371)
ML 3.2 (CSS).

PPCY	1.40	103	eP	57 55.40	2.8
			eS	58 17.20	
ELL	1.65	338	iPn	57 57.50	1.1
CSS	2.19	96	eP	58 03.00	-0.9
			eS	58 30.00	
BCK	2.24	358	ePn	58 03.50	-1.3
HRI	4.62	113	eP	58 48.00	9.5X
SHMJ	4.90	119	P	58 41.40	-1.0
JVI	5.09	129	eP	58 45.60	0.4
SALJ	5.26	126	P	58 46.40	-1.1
MASJ	5.46	128	P	58 50.30	-0.1
SAGI	6.00	145	eP	58 58.30	0.2
			eS	00 07.30	

S.D. = 1.5 on 9 of 10 obs.

& APR 13, 1993 18h 22m 14.36s
62.484 N 151.449 W
DEPTH = 95.8km
CENTRAL ALASKA (1)
<AEIC>.

SKT	0.51	184	iPc	22 29.23	-0.8
			iS	22 40.99	
HUR	0.97	58	ePc	22 33.59	-0.9
			eS	22 48.64	
SUA	1.08	162	iPc	22 35.18	-0.6
			eS	22 51.93	
TRF	1.11	28	ePc	22 34.97	-1.2
			eS	22 51.77	
PWA	1.12	138	P	22 35.70	-0.4
CRP	1.27	196	iPd	22 36.36	-1.7
			eS	22 54.28	
CPAM	1.28	195	iPd	22 37.18	-0.9
CP2	1.28	197	iPd	22 37.10	-1.2
			eS	22 55.15	
BGL	1.30	200	eP	22 37.56	-0.9
CKN	1.31	196	eP	22 37.72	-0.8
CKT	1.34	196	eP	22 37.59	-1.2
SPU	1.34	193	iPd	22 37.56	-1.3
CKL	1.36	198	iPd	22 38.25	-0.9
GHO	1.38	120	iPc	22 39.13	-0.3
			eS	22 59.09	
PLRM	1.41	128	iPc	22 39.33	-0.3
PMR	1.41	128	eP	22 38.43	-1.2
			eS	22 59.01	
RND	1.51	51	iPd	22 39.91	-1.0
			eS	22 59.89	
PMS	1.53	143	P	22 40.50	-0.7
SML	1.61	113	ePc	22 41.57	-0.7
MCK	1.70	41	ePc	22 42.45	-0.9
NKA	1.75	177	eP	22 45.59	1.6
DFR	1.99	198	eP	22 45.96	-1.3
PTE	1.99	143	eP	22 46.54	-0.6
SCM	2.04	107	eP	22 46.79	-1.1
SLKM	2.07	163	eP	22 47.76	-0.5
RDW	2.11	199	eP	22 48.24	-0.7
RS2	2.12	198	eP	22 48.57	-0.6
RSO	2.12	198	eP	22 48.15	-1.0
RS1	2.13	198	eP	22 48.28	-0.9
MPA	2.24	152	eP	22 49.98	-0.5
NEA	2.35	26	eP	22 50.31	-1.7
SVW	2.42	237	ePd	22 50.18	-2.7
WRH	2.50	36	iPd	22 52.22	-1.8
SEW	2.58	157	P	22 57.00	2.0
CCB	2.71	35	iPd	22 54.94	-1.9
SDG	2.74	86	eP	22 56.31	-1.0
VLZ	2.78	117	eP	22 55.98	-1.8
KLU	2.79	108	eP	22 56.05	-2.0
HDA	2.79	44	eP	22 55.90	-2.1
PAX	2.80	77	P	22 57.31	-0.8
FBA	2.92	32	eP	22 57.47	-2.2
CNPM	2.97	178	eP	23 00.73	0.3
PDB	3.01	207	iPd	22 59.82	-1.2
GLM	3.09	34	iPd	23 00.19	-1.9
HIN	3.17	129	eP	23 00.76	-2.4
IMA	3.73	346	eP	23 07.82	-3.1
GLB	3.76	103	eP	23 10.23	-1.0

47 obs. associated

APR 13, 1993 18h 52m 08.23±0.55s
38.510 N ± 5.5km 20.512 E ± 4.5km

DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH).

VLS	0.34	169	ePg	52 15.80	0.6
			eSg	52 22.40	
IGT	1.03	352	ePb	52 26.46	-1.2
			eSb	52 42.34	
KEK	1.32	335	ePg	52 33.00	0.3
AGG	1.51	70	ePb	52 34.62	-0.8
			eSb	52 57.98	
KZN	2.04	28	ePn	52 44.70	1.6
LIT	2.21	43	ePn	52 46.60	1.1
			eSn	53 17.18	
FNA	2.37	16	ePn	52 48.02	0.3
OHR	2.61	5	ePn	52 51.20	0.0
VLI	2.63	132	ePg	52 59.80	8.4X
PAIG	2.84	59	ePn	52 54.06	-0.4
			eSn	53 31.82	
GRG	2.85	30	ePn	52 54.46	-0.1
SOH	3.18	43	iPn	52 59.10	-0.2
VAY	3.22	29	ePn	52 58.00	-1.8
KNT	3.22	34	ePn	52 59.22	-0.6
OUR	3.25	55	ePn	52 59.90	-0.3
ROI	3.25	290	P	53 00.70	0.4
CZI	3.49	283	P	53 04.20	0.6
SKO	3.53	11	ePn	53 05.70	1.5
MGR	4.17	294	P	53 12.40	-1.0
			eSn	53 55.90	
SGO	4.51	299	P	53 19.00	0.9
			eSn	54 06.90	
MEU	4.64	254	P	53 18.70	-1.4
			eSn	54 11.10	

S.D. = 1.0 on 20 of 21 obs.

* APR 13, 1993 19h 12m 20.14±0.79s
47.612 N ±21.1km 152.823 E ±18.8km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)

KURIL ISLANDS (221)

KUSJ	7.28	235	eP	14 06.90	0.1
			eS	15 26.90	
HOOJ	8.54	236	eP	14 24.40	0.0
			eS	15 59.40	
MAT	15.47	230	eP	16 03.00	5.6X
IMA	33.23	37	eP	18 56.80	0.9
FBA	35.61	39	eP	19 16.10	-0.1
YKA	50.35	37	eP	21 15.10	-0.3
			0.8s	2.00nm	4.2mb
BGMT	61.43	53	eP	22 35.30	-0.3
NB2	67.35	341	P	23 13.50	-0.1
			0.5s	0.80nm	4.1mb
HFS	67.58	339	eP	23 14.90	-0.1
			0.3s	2.60nm	4.8mb

S.D. = 0.4 on 8 of 9 obs.

* APR 13, 1993 19h 27m 50.71±0.59s
1.265 N ± 7.5km 122.483 E ±13.5km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

CTB	6.14	16	ePc	29 20.00	-1.5
DAV	6.55	28	ePc	29 26.10	-1.2
			1.0s	320.00nm	6.1mb X
KKM	7.85	307	ePc	29 46.00	0.4
CVP	16.35	358	ePd	31 42.00	2.5
WB2	24.08	152	iPc	33 03.60	-0.7
			0.6s	24.40nm	4.9mb
NANU	24.63	196	eP	33 08.00	-1.6
ASPA	27.16	157	eP	33 32.30	-0.9
			0.5s	5.40nm	4.4mb
STK	37.61	153	eP	35 03.80	-0.5
			0.7s	2.30nm	4.1mb
MAT	38.00	21	(P)	35 16.00	8.5X
BJI	39.02	352	eP	35 16.00	0.1
BRS	40.75	137	iP	35 31.00	0.5
ARMA	41.99	141	iPd	35 41.90	1.2
			0.4s	4.00nm	4.5mb
			e	36 43.00	
BWA	43.04	148	eP	35 51.00	1.8
GUN	43.91	310	P	35 56.00	-0.7
CAN	44.03	148	iPd	35 57.90	0.7
			e	36 11.50	
GKN	44.90	310	P	36 08.00	3.5X
HYB	46.06	293	eP	36 20.20	6.6X

GBA 46.22 288 P 36 20.00 5.2X
S.D. = 1.4 on 14 of 18 obs.

? APR 13, 1993 19h 28m 52.85±1.77s
1.029 N ±31.9km 122.499 E ±21.0km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

IPM	21.73	280	eP	33 43.30	-0.2
WB2	23.86	151	eP	34 03.80	-0.6
			0.6s	26.90nm	4.9mb
			eS	38 24.30	
NANU	24.41	196	eP	34 10.00	0.4
ASPA	26.93	156	eP	34 32.30	-1.0
			0.6s	6.00nm	4.4mb
STK	37.40	153	eP	36 04.70	0.1
			0.5s	5.00nm	4.6mb
BRS	40.57	136	eP	36 31.00	-0.2
BWA	42.83	148	i(P)	36 52.80	3.2X
CAN	43.82	148	i(P)	36 59.10	1.5
GBA	46.30	288	P	37 21.00	3.3X

S.D. = 0.9 on 7 of 9 obs.

APR 13, 1993 19h 39m 32.24±0.62s
15.286 N ±10.7km 92.900 W ± 7.1km
DEPTH = 86.1 ± 6.6 km
4.4mb (14 obs.)
MEXICO-GUATEMALA BORDER REGION (62)
MD 4.3 (GCC).

TPX	0.72	121	iP	39 47.79	-1.1
			iS	39 59.46	
SCX	1.46	10	(P)	40 01.88	4.2X
			iS	40 24.56	
TER	2.36	114	eP	40 11.52	1.8
			eS	40 37.76	
RDG	2.36	96	eP	40 03.36	-6.6X
MRL	3.11	94	ePd	40 21.79	1.6
OXX	4.08	296	iP	40 32.50	-1.3
			(S)	41 17.24	
IISM	5.65	311	iP	40 54.04	-1.3
IIT	6.37	306	(P)	41 10.68	5.1X
PPM	6.64	305	iP	41 10.20	0.6
IIA	6.71	306	(P)	41 11.00	0.9
ACX	6.87	284	(P)	41 08.50	-3.8X
III	7.00	297	(P)	41 12.70	-1.6
UNM	7.22	305	(P)	41 30.00	12.6X
CRX	7.66	303	(P)	41 23.00	-0.5
MRX	9.05	300	iP	41 43.26	1.1
UYO	18.85	356	iPd	43 47.40	-0.9
MIAR	19.19	358	eP	43 50.90	-1.0
			0.9s	49.75nm	4.8mb
			S	47 12.70	
GOGA	19.97	24	eP	43 58.17	-1.9
			0.8s	17.00nm	4.4mb
MEO	20.08	346	iPc	44 07.00	5.8X
WMOK	20.08	346	eP	44 00.94	-0.3
			0.6s	6.80nm	4.2mb
			S	47 36.94	
JSC	21.63	27			

13d 19h

YKA 49.58 347 eP 48 15.00 -1.3
 0.9s 4.00nm 4.4mb
 INK 58.97 344 ePc 49 25.30 0.7
 0.9s 10.00nm 4.9mb
 FBA 61.73 337 eP 49 41.81 -1.7
 0.7s 2.64nm 4.4mb
 CRP 62.11 332 eP 49 45.17 -1.1
 RSO 62.11 331 eP 49 45.74 -0.6
 CP2 62.15 332 eP 49 46.08 -0.5
 MBC 62.54 353 eP 49 48.50 -0.2
 0.9s 9.00nm 4.8mb
 TTA 64.36 333 eP 49 59.48 -1.5
 0.8s 5.02nm 4.5mb
 APO 84.86 28 eP 51 59.00 0.6
 0.5s 1.90nm 4.3mb
 WRA 134.85 257 PKP 58 44.20 0.6
 0.7s 0.60nm
 HYB 146.43 15 ePKPc 59 05.00 0.7
 GBA 149.75 19 PKP 59 15.00 5.5X
 S.D. = 1.1 on 43 of 52 obs.

APR 13, 1993 20h 07m 16.69± 0.45s
 1.196 N ± 2.4km 126.518 E ± 3.5km
 DEPTH = 45.2 ± 4.0 km
 5.5mb (68 obs.) 5.0Msz (13 obs.)
 NORTHERN MOLUCCA SEA (266)

Mw 5.8 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 35S, 67C

Centroid Location:

Origin Time 20:07:25.0 0.4

Lat 1.30N 0.03 Lon 126.19E 0.04

Dep 88.1 1.5 Half-duration 1.9

Moment Tensor: Scale 10**17 Nm

Mrr= 0.82 0.09 Mtt=-5.20 0.13

Mff= 4.38 0.19 Mrt= 1.01 0.10

Mrf=-0.66 0.09 Mtf= 0.25 0.11

Principal Axes:

T Val= 4.50 Plg=10 Azm= 90

N 0.88 76 314

P -5.37 10 182

Best Double Couple: Mo=4.9*10**17

NP1:Strike=226 Dip=76 Slip= 0

NP2: 136 90 166

SWI 5.16 113 iPc 08 36.00 2.5
 DAV 5.93 351 iPc+ 08 45.90 1.6
 CTB 6.40 339 ePd 08 55.00 4.2X
 0.8s 10.00nm 6.7mb X
 PLP 10.02 351 ePc 09 40.00 -1.1
 KKM 11.35 295 ePd 10 02.00 2.7
 0.7s 491.70nm 6.7mb X
 PGP 13.41 336 ePc 10 27.80 1.1
 TGY 13.96 337 ePd 10 34.50 0.5
 QCP 14.40 338 eP 10 51.00 11.4X
 QVP 14.41 338 iPd 10 41.00 1.3
 KHK 14.44 229 ePc 10 41.70 1.6
 0.8s 13.39.40
 20 10.10

MTN 14.68 162 eP 10 42.70 -0.6
 0.3s 240.00nm 6.1mb
 BCP 16.21 339 eP 11 02.00 -1.1
 BAG 16.21 339 eP 11 02.00 -1.2
 0.8s 14.04.00
 KNA 16.98 173 iPd 11 13.30 0.6
 CVP 17.04 345 ePd 11 13.00 -0.5
 SZP 17.31 340 iPd 11 18.00 1.2
 PIP 17.98 342 eP 11 25.00 -0.1
 LEM 20.48 247 ePc 11 52.20 -1.4
 1.0s 190.00nm 5.4mb
 0.8s 15.48.00
 eLR 17 15.00

LAT 21.89 111 eP 12 08.40 0.7
 GUMO 21.94 55 eP 12 06.80 -1.4
 1.2s 386.80nm 5.7mb
 Z 23s 2.82um 4.6MszX
 e(S) 16 02.40

PJG 21.94 55 eP 12 07.30 -0.9
 GUA 21.95 55 eP 12 07.30 -1.1
 0.6s 272.00nm 5.9mb
 pP 12 11.10 14kmX

WRA 22.37 160 P 12 12.60 0.1
 WB2 22.37 160 iPd 12 12.10 -0.4
 0.8s 654.20nm 6.1mb
 iS 16 09.50

PMG 23.10 118 eP 12 20.00 0.4
 1.5s 266.67nm 5.5mb
 QIZ 24.11 318 P 12 29.00 -0.4
 1.6s 430.00nm 5.7mb
 N 15s 5.83um
 PP 12 58.00
 HKC 24.18 331 eP 12 29.20 -0.8
 eS 16 42.00
 KSI 24.39 259 ePc 12 35.00 2.8X
 e 14 40.00
 QZH 24.82 343 Pd 12 35.00 -1.2
 1.0s 180.00nm 5.6mb
 Z 28s 4.44um 4.8MszX
 N 20s 3.60um
 E 20s 3.98um
 PP 13 16.00
 S 16 56.00
 SS 17 45.00
 12 40.00 -0.2

GZH 25.24 331 Pc 12 40.00 -0.2
 1.0s 140.00nm 5.5mb
 Z 16s 2.97um 4.9MszX
 N 11s 1.22um
 E 12s 2.09um

IPM 25.68 278 ePc 12 43.50 -0.9
 e 19 48.10
 ASPA 25.73 164 iPd 12 44.40 -0.5
 0.8s 771.20nm 6.3mb
 iS 17 05.70
 iScS 23 33.20

NANU 25.93 204 iPd 12 47.10 0.5
 0.5s 86.00nm 5.6mb
 SNG 26.49 284 eP 12 45.00 -6.9X
 eS 17 18.00

WARB 27.22 180 iPd 12 59.00 0.5
 0.4s 66.00nm 5.6mb
 CTA 28.67 139 iPd 13 12.50 0.9
 1.0s 45.00nm 5.1mb
 ic 13 32.00
 i 13 43.50
 ic 14 07.00

eS 17 57.00
 iScP 18 57.00
 eScS 23 51.00
 CTAO 28.67 139 eP 13 11.82 0.2
 MEEK 28.70 195 iPd 13 11.10 -0.8
 LOE 29.22 305 iPd 13 16.00 -0.6

NST 29.74 300 iPc 13 20.00 -1.2
 KAGJ 30.11 7 P 13 23.70 -0.7
 SSE 30.16 351 Pd 13 24.70 -0.1
 1.3s 110.00nm 5.4mb
 Z 20s 3.20um 5.0Msz
 N 14s 0.70um
 E 16s 2.60um

pp 13 33.50 30kmX
 WHN 31.39 340 Pc 13 35.50 -0.1
 1.2s 640.00nm 6.3mb
 Z 30s 3.11um 4.8MszX
 E 10s 1.63um
 S 18 36.00

BDT 31.41 302 iPc 13 31.00 -5.0X
 0.8s 46.70nm 5.3mb
 KUMJ 31.44 7 P 13 35.30 -0.7
 NJ2 31.53 347 Pd 13 36.70 -0.2
 1.0s 21.00nm 4.9mb
 Z 20s 1.48um 4.7Msz
 N 14s 1.56um
 E 12s 1.34um

S 18 39.00
 GYA 31.55 324 iPc 13 36.60 -0.7
 1.0s 38.00nm 5.2mb
 Z 18s 2.50um 4.9Msz
 N 13s 2.42um
 E 13s 1.69um

sP 13 48.00
 S 18 37.00
 ScS 24 03.60
 FORT 31.83 177 iPd 13 39.10 -0.4
 0.4s 75.00nm 5.9mb
 MRWA 31.87 198 iPd 13 39.30 -0.6
 0.5s 20.00nm 5.2mb

CHG 32.21 305 ePc 13 42.00 -1.0
 1.0s 30.75nm 5.1mb
 COOL 32.31 189 eP 13 42.00 -1.7
 QLP 32.48 150 iPd 13 44.00 -1.2
 iScP 20 10.50

BAL 32.98 196 iPd 13 49.00 -0.5
 SHNJ 33.04 7 P 13 49.60 -0.4
 KMI 33.06 318 Pd 13 50.00 -0.6
 2.0s 280.00nm 5.8mb
 Z 20s 3.40um 5.1Msz
 N 16s 4.10um
 E 15s 2.90um

pp 14 01.00 40kmX
 sP 14 06.00
 S 18 59.00
 PcS 20 19.00

TKSJ 33.37 11 eP 13 52.50 -0.4
 KLB 33.65 194 iPd 13 54.70 -0.7
 0.6s 54.00nm 5.6mb
 SHK 33.66 9 eP 13 55.10 -0.3
 WKYJ 33.93 14 P 13 58.00 0.2
 MUN 34.41 196 eP 14 01.00 -0.9
 1.0s 140.00nm 5.8mb

YONJ 34.43 10 P 14 02.30 0.2
 RMO 34.90 144 iPd 14 05.20 -1.0
 0.6s 20.00nm 5.2mb
 iScP 20 18.70

HNR 34.93 108 iS 14 06.00 -0.6
 NWAJ 35.05 194 eP 14 07.00 -0.4
 TSRJ 35.28 13 P 14 09.30 0.0
 IIDJ 35.72 16 eP 14 18.00 4.9X
 STK 35.87 158 iPd 14 14.00 -0.3
 0.7s 74.30nm 5.7mb

epP 14 32.10 74kmX
 iPP 15 38.10
 iS 19 44.70
 iScS 24 22.40

TIA 35.91 347 eP 14 13.70 -1.0
 1.0s 78.00nm 5.6mb
 Z 25s 2.50um 4.9MszX
 N 13s 0.60um
 E 13s 0.64um

eS 19 44.00
 CHJJ 36.56 17 eP 14 19.50 -0.6
 CD2 36.58 326 iPd 14 19.20 -1.2
 Z 16s 1.61um 4.9MszX
 E 12s 2.90um

pp 15 38.00
 XAN 36.59 335 Pd 14 18.60 -1.8
 1.0s 120.00nm 5.8mb
 Z 28s 2.72um 4.9MszX
 N 13s 1.49um
 E 14s 0.83um

pP 14 26.90 28kmX
 sP 14 29.70
 S 19 52.00
 sS 20 09.00
 PcS 20 31.00
 ScS 24 33.00

RKG 36.68 193 iPd 14 22.30 1.2
 0.6s 46.00nm 5.6mb
 MTMJ 36.73 15 P 14 21.20 -0.5
 MAT 36.80 16 (P) 14 21.00 -1.1
 2.0s 176.47nm 5.6mb
 Z 20s 2.48um 5.0Msz

eS 19 57.00
 KAKJ 37.06 18 eP 14 23.30 -1.0
 CMS 37.32 152 eP 14 26.30 -0.2
 1.0s 29.00nm 5.1mb
 ePP 15 51.20
 eScP 20 27.30

NIJ 37.67 16 P 14 29.00 -0.4
 ADE 37.74 164 eP 14 26.00 -4.1X
 DL2 37.80 354 iPc 14 31.00 0.6
 1.0s 320.00nm 6.2mb
 Z 16s 2.01um 5.0MszX
 N 12s 1.33um
 E 16s 1.89um

pp 14 38.00 24kmX
 S 20 14.00
 BRS 38.03 140 iPc 14 32.30 -0.3
 0.7s 25.00nm 5.2mb
 i 14 49.00
 e(PP) 16 10.00
 iS 20 19.50
 iScP 20 30.50
 i 23 06.00

TIY 38.58 342 Pc 14 36.70 -0.5
 1.0s 86.00nm 5.6mb
 Z 30s 2.80um 4.9MszX
 N 11s 0.80um
 E 12s 0.82um

			PP	16	05.00		HYB	49.81	292	eP	16	05.50	-2.1	SVW	83.09	29	eP	19	40.40	1.5	
			S	20	26.00			1.0s	170.00nm				6.0mb	QASM	83.17	296	eP	19	40.30	0.3	
			SS	23	14.00				eS		23	07.00		TTA	83.24	27	eP	19	41.00	1.3	
YAMJ	38.84	17	P	14	39.30	0.1	GBA	50.09	287	Pc	16	08.00	-1.7	ARO	83.56	281	eP+	19	44.00	1.8	
ARMA	39.50	145	iPc	14	45.40	0.4	IRK	54.19	343	ePd-	16	39.00	-0.8	ABHA	83.71	288	iPc	19	45.30	2.2	
	1.0s							2.0s	324.00nm				6.0mb	KDC	84.18	32	eP	19	45.30	1.0	
			eS	20	36.60		Z	17s	0.82um				4.9MszX	RSO	84.39	29	ePc	19	45.27	-0.3	
BJI	39.79	348	eP	14	47.00	-0.1			iP	17	04.00	103kmX		BRW	84.63	18	eP	19	47.90	1.5	
	1.5s								i	17	08.00			IMA	84.77	24	eP	19	48.30	0.9	
	Z	24s							iS	18	19.00				1.3s		58.10nm			5.6mb	
	E	15s							eS	24	10.00			CRP	84.78	29	ePc	19	47.28	-0.2	
			ePP	16	17.00				ePS	24	28.50			SLKM	85.64	30	ePc	19	51.02	-0.6	
OFUJ	40.17	18	P	14	51.30	1.1			eScS	26	27.00			PMR	86.26	28	eP	19	54.90	0.3	
SNY	40.53	357	iPd	14	53.00	-0.1			eSS	27	52.00			FBA	87.09	25	eP	19	57.75	-0.9	
	1.0s								LR	35	47.00				0.7s		3.13nm			4.7mb	
	Z	23s					WMO	54.68	326	P	16	43.20	-0.5	KLU	87.79	29	eP	20	02.01	-0.2	
	N	12s						1.0s	56.00nm				5.5mb	BALM	89.52	29	eP	20	10.34	-0.1	
LZH	40.59	331	Pd	14	54.00	0.1	Z	20s	1.87um				5.2Msz	AYN	89.88	299	eP	20	13.30	0.6	
	1.5s						N	18s	4.51um					SHMJ	90.00	303	P	20	12.50	-0.7	
	Z	28s					E	15s	1.69um					HRI	90.00	303	eP	20	14.80	1.5	
	N	16s							PP	18	50.80			MASJ	90.06	302	P	20	13.40	-0.2	
			pP	15	03.50	32kmX			ScS	26	24.80			SALJ	90.08	302	P	20	14.70	1.0	
BWA	40.96	152	iPd	14	58.60	1.8	KUZ	59.18	135	P	17	15.20	-0.4	SHWJ	90.28	300	P	20	15.00	0.2	
			ePP	16	36.50		WLZ	59.63	136	P	17	18.60	-0.1	JVI	90.37	302	eP	20	15.70	0.7	
			iScP	20	41.40		KSH	59.66	316	P	17	20.20	1.1	HOL	90.70	299	eP	20	16.30	-0.2	
BFD	40.97	160	iPd	14	57.00	0.2	N	18s	2.31um					RMN	91.03	300	eP	20	18.60	0.5	
	0.8s						E	26s	1.83um					SPA	91.18	180	iPd	20	18.70	0.6	
			iPP	16	31.80				PP	19	34.00				0.6s		30.49nm			5.9mb	
HHC	41.73	343	P	15	03.20	0.0			S	25	22.00			CSS	91.94	305	eP	20	23.00	0.9	
	1.0s								ScS	26	59.60			KEV	92.18	340	eP	20	23.00	0.5	
	Z	34s					THZ	59.86	141	P	17	19.00	-1.2	INK	92.58	22	eP	20	25.50	1.2	
	N	12s					LTZ	60.03	142	P	17	19.70	-1.7		1.2s		12.00nm			5.2mb	
	E	12s					KHZ	60.61	142	P	17	23.00	-2.2	SDF	92.79	338	eP	20	26.00	0.7	
							MRW	60.72	140	P	17	24.20	-1.8	SIT	93.45	33	eP	20	29.30	0.8	
RIV	41.84	149	eP	15	05.30	1.3	YAK	60.72	2	iPd	17	24.80	-0.8		1.3s		155.90nm			6.3mb	
			e	16	48.30			1.8s	286.00nm				6.1mb	KAF	93.73	332	iP	20	29.40	-0.3	
			eScP	20	44.60				iP	17	42.00		65kmX		0.3s		1.20nm			4.8mb	
CAN	41.97	152	iPd	15	05.90	0.8			iPP	17	57.00			MBC	94.45	13	eP	20	33.00	0.2	
			ePP	16	48.50				ePPP	20	12.00				1.0s		5.00nm			4.9mb	
			iScP	20	44.80				eS	25	32.00			NUR	94.80	331	eP	20	38.90	4.3X	
BTO	41.98	341	eP	15	02.00	-3.2X			ePS	25	56.00				0.9s		8.80nm			5.2mb	
	N	14s							eSS	26	27.00			VRI	95.97	316	eP	20	43.00	2.6	
			ePP	16	40.00				eScS	27	07.00			CVO	96.36	316	eP	20	42.50	0.3	
CNB	42.13	152	eP	15	07.00	0.5			eSS	26	27.00			MLR	96.56	316	eP	20	44.50	1.3	
	1.2s								eSSS	34	40.00			CMP	97.23	316	ePd	20	50.00	3.9X	
TOO	42.38	157	iPd	15	09.50	1.1				40	16.00			BUL	97.83	250	eP	20	49.90	0.5	
	0.9s						URZ	60.87	136	P	17	25.20	-1.9	SLR	97.94	244	e(P)	20	35.50	-14.3X	
			ePP	16	48.50		CAW	60.89	140	P	17	25.00	-2.2	VAY	99.66	312	iP	20	57.00	-0.1	
			eS	20	46.50		MNG	60.91	139	P	17	25.40	-2.0	SPC	99.68	320	eP	20	58.90	1.6	
CN2	42.43	359	Pd	15	08.10	-0.6		0.8s	62.00nm				5.8mb	OJC	99.72	321	eP	21	02.80	5.5X	
	1.0s						WAHZ	61.03	138	P	17	26.90	-1.4	DAG	99.74	352	eP	20	56.10	-0.7	
	Z	20s					PAHZ	61.11	136	P	17	27.50	-1.3		0.8s		8.21nm			5.3mb	
	N	14s					MTW	61.19	139	P	17	27.10	-2.2	APD	99.89	332	eP	20	56.70	-1.1	
	E	14s					HBZ	61.40	135	P	17	29.60	-1.1		0.4s		0.40nm			4.3mb X	
			PP	16	48.00		PGZ	61.43	139	P	17	29.00	-1.9	NB2	100.95	333	Pdiff	21	00.80	-1.7	
MRRJ	43.08	16	eP	15	15.30	1.4			NOZ	61.68	136	P	17	31.20	-1.4		0.8s		2.20nm		4.8mb
MDJ	43.32	3	iPd	15	16.40	0.5	QUE	63.33	303	eP	17	41.20	-2.8	SRO	101.26	319	ePdiff	21	10.80	6.7X	
	1.0s								eS	26	06.80				e		21	26.80			
	Z	32s					SMY	64.75	30	ePd	17	53.02	0.5	KSP	101.72	323	ePdiff	21	09.70	3.6X	
			pP	15	22.00	19kmX		0.9s	217.62nm				6.2mb	YKA	101.88	25	ePdiff	21	06.00	-0.5	
			PP	16	56.00		CSY	68.30	187	iPc	18	15.00	0.1		1.2s		3.50nm			4.9mb	
HOQJ	43.68	18	eP	15	19.20	0.3		0.7s	88.50nm				5.9mb	PRU	103.04	322	ePdiff	21	15.00	3.0X	
LSA	43.98	314	P	15	22.90	0.8	DRV	68.39	174	iP	18	15.30	-0.1		Z	20s		0.50um			5.0Msz
	1.0s								S	26	00.00				e		21	31.00			
	Z	22s					ADK	69.17	34	eP	18	20.30	-0.2		e		24	33.50			
	N	20s						1.4s	397.00nm				6.2mb		PP		25	23.00			
			S	21	45.00		PAF	69.69	215	eP	18	33.00	9.3X	8RG	103.13	323	ePdiff	21	18.00	5.6X	
			sS	22	04.00				eS	27	37.00				1.3s		23.00nm			5.8mb	
			ScS	25	19.50				eSS	32	00.00			CLL	103.55	324	e(Pdiff)	21	22.00	7.8X	
KUSJ	44.78	19	eP	15	28.40	0.7	MAIO	70.88	308	iPc	18	30.70	-0.8	SHW	103.70	42	Pdiff	21	16.85	1.6	
ASAJ	45.08	16	P	15	32.20	2.1			e	27	43.00			KHC	103.91	321	ePdiff	21	21.60	5.6X	
BKM	45.16	116	iP	15	32.00	0.9	KIP	76.04	68	(P)	19	02.31	0.7		Z	20s		0.80um			5.2Msz
GTA	45.17	331	iPd	15	30.50	-0.6	HON	76.04	68	P	19	10.00	8.3X		N	20s		0.60um			
	1.0s							Z	21s				4.9Msz		E	20s		0.50um			
	Z	30s					SDN	79.39	34	eP	19	19.70	0.3			e		24	46.00		
	N	18s					AVY	79.78	251	iPc	19	23.60	1.0			ePP		25	35.00		
			PP	17	11.00		TAN	79.95	251	eP	19	24.80	1.4			e		26	26.50		
			S	22	00.00		VTY	79.98	251	iPc	19	24.50	1.0			e		27	35.50		
			SS	25	20.00		ABM	80.20	250	iPc	19	25.60	0.8			e		32	00.00		
DZM	45.30	123	iPc	15	32.20	-0.1	RYD	80.33	295	iPc	19	24.40	-0.8	GEC2	103.92	321	ePdiff	21	19.00	2.9X	
GUN	47.07	308	P	15	45.00	-1.6	OPO	80.43	251	iPc	19	26.10	0.2			e		21	27.20		
PKI	47.29	307	P	15	46.40	-1.9	MAW	81.32	200	eP	19	30.50	1.1			e		21	30.10		
KKN	47.49	308	P	15	47.80	-2.0		0.8s	28.74nm				5.3mb			e		21	33.60		
DMN	47.55	307	P	15	48.60	-1.7	TAB	81.54	308	iPc	19	33.00	1.6			e		21	38.20		
GKN	48.10	308	P	15	52.60	-1.8	DHJN	83.00	288	iPc	19	40.60	1.1			e		21	41.10		

13d 20h

			e	21	44.60	
			e	25	29.50	
			e	25	32.80	
MOX	104.60	323	ePdiff	21	23.60	4.6X
Z	19s		0.60um			5.2Msz
			e	21	37.50	
			e	24	43.60	
GRF	105.17	323	ePdiff	21	06.00	-15.5X
Z	22s		0.60um			5.1Msz
LBFM	105.27	47	PKP	25	33.27	-3.3X
DPW	105.79	39	Pdiff	21	24.50	0.1
ORV	106.03	48	PKP	25	38.43	0.6
PLM	111.32	53	(PKP)	25	47.89	-0.4
HVU	111.60	44	ePKP	25	48.87	0.4
DUG	112.17	45	ePKPc	25	50.35	0.8
MSU	113.25	47	ePKP	25	52.88	1.0
PV09	115.45	46	ePKP	25	57.03	0.8
PV10	115.57	46	ePKP	25	57.30	0.9
PV08	115.77	46	ePKP	25	57.52	0.7
RSSD	116.30	38	ePKP	25	56.54	-1.0
GOL	117.57	43	ePKP	26	00.24	0.1
			eSKP	29	29.48	
ALQ	118.87	48	ePKP	26	03.48	0.8
			eSKP	29	32.54	
ACO	123.31	43	iPKPc	26	10.80	0.0
WMOK	124.57	45	ePKP	26	13.00	-0.3
			ePP	27	56.98	
MEQ	124.69	45	iPKPc	26	14.10	0.5
UYO	127.90	44	iPKPd	26	19.40	-0.3
FVM	128.22	37	ePKP	26	19.96	-0.3
			ePP	28	20.34	
			eSKP	29	32.31	
MIAR	128.29	43	ePKP	26	18.56	-1.9
			ePP	28	18.67	
OLY	129.12	40	ePKP	26	21.96	-0.1
			ePP	28	26.15	
			eSKP	29	36.51	
ELC	129.40	37	(PKP)	26	22.89	0.4
KIC	130.77	279	PKP	26	25.92	0.1
LIC	131.07	279	PKP	26	27.06	0.7
LKO	131.13	284	PKP	26	26.74	0.3
GBTN	133.45	35	ePKP	26	30.10	-0.2
TKL	133.71	35	ePKP	26	30.45	-0.3
MYNC	133.92	35	ePKP	26	24.29	-6.9X
MYNC	133.92	35	ePKP	26	31.90	0.7
GOGA	135.48	37	(PKP)	26	35.83	1.7
RTBS	146.15	155	ePKPc	26	35.60	-17.6X
CFA	146.69	157	e(PKP)	26	55.20	1.0
RTLL	146.84	156	ePKP	26	56.60	2.2
TCA	148.23	162	e(PKP)	26	58.00	1.3
			i	27	01.00	
ECO	151.86	68	iPKP	27	08.66	6.0X
UPA	152.14	68	ePKP	27	08.63	5.7X
UPA	152.14	68	iPKP	27	09.29	6.3X
FSA	152.47	155	ePKP	27	05.50	2.4
SLA	153.88	155	ePKPc	27	14.30	9.0X
VAO	157.42	196	(PKP)	27	24.00	14.1X
CNCB	158.91	138	iPKPc	27	14.70	2.3
LPB	159.04	137	ePKP	27	12.00	-0.3
PPD	159.18	186	ePKP	27	13.00	1.1
ZOBO	159.20	137	iPKPc	27	14.20	1.5
	1.1s		27.55nm			
			LR	17	10.00	
SDV	160.19	59	ePKP	27	13.70	0.3
CAR	162.28	49	ePKP	27	14.40	-1.0
SIV	163.50	153	PKP	27	32.00	15.6X
BDF	164.61	201	ePKP	27	18.50	0.9
			i	28	41.80	
BAO	164.66	200	ePKP	27	18.00	0.4
			i	28	41.40	
			e	32	02.00	
			e	32	25.00	

S.D. = 1.1 on 222 of 254 obs.

% APR 13, 1993 20h 20m 08.66 ± 2.20s
 43.180 N ± 12.0km 18.571 E ± 12.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

BRY	0.28	184	iPgc	20	14.73	0.1
			iSg	20	18.56	
NKY	0.48	139	iPgd	20	18.11	-0.4
			iSg	20	24.91	
PLE	0.62	76	iPgd	20	21.09	-0.1
			iSg	20	30.28	
HCY	0.73	184	iPgd	20	22.82	-0.2

TTG	0.91	146	iSg	20	33.38	
			iPgd	20	25.83	-0.1
			iSg	20	38.83	
BDV	0.92	168	iPgc	20	26.16	0.0
			iSg	20	39.23	
IVA	1.02	107	iPgc	20	28.12	0.1
			iSg	20	42.91	
PVY	1.18	119	iPgd	20	31.11	0.3
			iSg	20	48.26	
ULC	1.31	157	iPgc	20	33.38	0.4
			iSg	20	52.39	

S.D. = 0.3 on 9 of 9 obs.

* APR 13, 1993 20h 47m 08.67 ± 0.96s
 26.360 N ± 18.1km 96.232 E ± 7.9km
 DEPTH = 85.5 ± 10.5 km
 4.3mb (7 obs.)

MYANMAR						(296)
KMI	6.00	100	eP	48	37.00	0.1
GUN	9.35	282	P	49	23.40	0.4
PKI	9.73	280	P	49	28.40	0.2
KKN	9.86	281	P	49	29.80	-0.1
DMN	10.00	280	P	49	31.60	-0.2
	0.5s		30.00nm			5.5mb X
GKN	10.45	282	P	49	37.20	-0.5
WRA	59.04	137	P	57	02.50	0.3
	0.6s		1.80nm			4.4mb
WB2	59.05	137	eP	57	01.60	-0.6
	0.6s		5.00nm			4.8mb
NB2	64.93	328	P	57	39.70	-1.3
	0.7s		0.60nm			3.6mb
GEC2	65.88	314	eP	57	47.90	0.5
	0.9s		0.82nm			3.7mb
			e	57	56.80	
LPG	71.36	312	eP	58	22.10	0.5
	0.4s		1.95nm			4.3mb
LPL	71.37	312	eP	58	22.00	0.5
	0.6s		4.70nm			4.6mb
SSF	72.96	314	eP	58	30.70	0.1
	0.7s		2.20nm			4.2mb

S.D. = 0.6 on 13 of 13 obs.

APR 13, 1993 21h 01m 43.08 ± 0.77s
 40.610 N ± 5.0km 21.308 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

MD	3.0	(ATH).				
FNA	0.18	17	iPg	01	47.42	0.2
			eSg	01	50.62	
KZN	0.47	131	iPbc	01	52.60	0.0
			eSb	01	59.80	
OHR	0.63	323	iPgc	01	55.00	-0.8
			iSg	02	05.80	
GRG	0.90	67	ePg	02	00.06	-0.3
			eSg	02	14.38	
LIT	1.04	119	ePb	02	03.02	0.3
			eSb	02	18.58	
VAY	1.19	53	ePn	02	05.40	0.1
THE	1.26	88	ePb	02	06.98	0.5
			eSb	02	23.82	
KNT	1.33	65	iPb	02	06.97	-0.6
			eSb	02	26.30	
SKO	1.36	4	iPn	02	09.30	1.2
			iSg	02	26.20	
KEK	1.46	233	ePn	02	17.90	8.4X
SOH	1.57	82	ePb	02	10.78	-0.3
AGG	1.77	153	ePb	02	14.38	0.4
			eSb	02	37.74	
PAIG	1.94	110	ePn	02	15.82	-0.6
OUR	2.06	97	ePn	02	17.78	-0.3
			eSn	02	44.34	

S.D. = 0.6 on 13 of 14 obs.

% APR 13, 1993 21h 21m 46.62 ± 0.67s
 31.365 S ± 10.4km 67.984 W ± 9.5km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.33	222	iPc	21	54.60	-0.2
RTCV	0.68	224	ePd	21	59.50	-0.4
RTBS	1.29	256	ePc	22	08.90	0.5
			S	22	23.30	
TCA	2.90	90	iP	22	32.00	0.4
CYA	3.48	34	ePd	22	39.20	-0.6
			S	23	32.00	

FSA 5.54 19 eP 23 09.10 0.2
 S.D. = 0.6 on 6 of 6 obs.

APR 13, 1993 21h 38m 58.46 ± 0.61s
 39.275 N ± 5.6km 22.141 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

MD	3.0	(ATH).				
AGG	0.29	150	iPg	39	04.26	-0.3
			eSg	39	09.90	
LIT	0.87	18	ePg	39	15.50	0.3
			eSg	39	31.02	
KZN	1.07	345	ePb	39	17.70	-0.9
			eSb	39	35.70	
PAIG	1.36	61	ePb	39	23.06	-0.3
			eSb	39	41.78	
IGT	1.42	281	ePb	39	21.82	-2.5
FNA	1.62	339	ePb	39	26.46	-0.7
			eSb	39	48.38	
VLS	1.63	228	ePb	39	27.50	0.1
OUR	1.77	53	ePb	39	29.22	-0.1
SOH	1.80	31	iPb	39	29.82	0.0
KEK	1.86	284	ePb	39	32.50	1.8
KNT	1.97	17	ePn	39	32.46	0.2
VAY	2.07	9	ePn	39	37.20	3.6X
OHR	2.10	331	iPn	39	36.10	1.9
VLI	2.63	166	ePn	39	42.20	0.5

S.D. = 1.2 on 13 of 14 obs.

APR 13, 1993 21h 51m 20.44 ± 0.81s
 39.192 N ± 7.1km 22.073 E ± 6.3km
 DEPTH = 15.5 ± 6.0 km
 GREECE (364)

AGG	0.26	130	iPg	51	26.85	0.5
			eSg	51	31.18	
LIT	0.96	19	ePg	51	38.46	0.1
			iSg	51	53.46	
IGT	1.39	285	iPb	51	44.46	-0.7
PAIG	1.44	59	iPb	51	45.50	-0.4
			iSb	52	04.25	
FNA	1.68	342	iPb	51	49.10	-0.3
			eSb	52	11.14	
OUR	1.86	52	iPb	51	51.85	-0.1
SOH	1.90	31	ePb	51	52.74	0.1
			eSb	52	17.90	
KNT	2.07	18	ePn	51	55.22	0.3
OHR	2.15	333	iPn	51	57.40	1.2
SRS	2.25	31	ePn	51	57.10	-0.5
			eSn	52	23.90	
SKO	2.82	350	ePn	52	06.00	0.3
			i	52	13.00	

S.D. = 0.6 on 11 of 11 obs.

APR 13, 1993 23h 59m 26.07 ± 0.37s
 42.948 N ± 7.9km 147.291 E ± 5.0km
 DEPTH = 40.2km (5 depth phases)
 4.7mb (32 obs.) 4.2Msz (6 obs.)
 OFF COAST OF HOKKAIDO, JAPAN (225)

KUSJ	1.90	275	eP	59	55.50	-1.1
			eS	00	19.70	
OFUJ	5.74	230	P	00	49.30	-1.8
			S	01	53.20	
MAT	9.47	231	eP	01	41.00	-2.0
	0.8s		9.70nm			5.0mb
			eS	03	30.00	
MDJ	12.90	283	eP	02	27.50	-1.9
CN2	15.90	281	eP	03	07.90	-0.6
	1.0s		6.90nm			3.8mb
SNY	17.55	274	Pd	03	30.80	1.7
	Z 14s		0.82um			
	E 13s		0.46um			
YAK	21.75	337	eP	04	11.20	-4.4X
	Z 18s		0.60um			4.0Msz
	E 20s		0.70um			
BJI	23.42	274	eP	04	32.00	-0.2
	1.4s		48.00nm			4.8mb
	Z 16s		0.88um			4.3MszX
SSE	23.86	249	Pc	04	40.50	4.0X
	1.0s		11.00nm			4.3mb
	Z 20s		0.90um			4.2Msz
	N 16s		0.50um			
			sP	04	51.00	
TIA	24.12	264	eP	04	40.30	1.3
NJ2	24.93	254	Pd	04	50.80	3.9X

<p>pP 32 48.00 46km sP 32 53.00 GTA 66.50 317 P 33 03.50 0.2 1.0s 20.00nm 5.1mb GUN 73.01 301 P 33 43.20 -0.4 PKI 73.32 301 P 33 45.00 -0.4 KKN 73.49 301 P 33 45.60 -0.6 DMN 73.59 301 P 33 46.60 -0.3 GKN 74.09 301 P 33 49.40 -0.2 FBA 82.00 22 (P) 34 30.00 -2.1 KSH 83.78 310 P 34 44.90 2.9 0.7s 20.00nm 5.3mb YKA 95.45 28 eP 35 50.70 14.1X 1.0s 1.10nm GCM 124.74 70 iPKPc 41 07.50 -5.4X GEC2 124.83 329 ePKP 41 11.70 -0.7 0.8s 0.78nm e 41 26.70 BCAO 135.20 271 ePKPc 41 33.20 0.0 0.5s 3.00nm S.D. = 1.4 on 24 of 27 obs.</p>						<p>1.0s 9.96nm 4.7mb e 47 33.53 28km DUG 36.98 314 eP 47 33.59 0.3 0.8s 4.04nm 4.3mb pP 47 41.72 27km sP 47 46.15 PLM 37.55 302 eP 47 38.79 0.6 pP 47 47.26 29km SIV 37.72 152 Pc 47 53.20 13.7X PEC 37.93 303 eP 47 41.93 0.7 1.0s 20.85nm 4.9mb pP 47 50.41 29km GSC 38.05 305 eP 47 43.15 0.9 pP 47 51.40 28km LCCM 39.30 323 eP 47 52.10 -0.5 e 48 00.30 28km FCC 42.54 348 eP 48 27.50 8.6X DPW 44.05 322 eP 48 30.10 -1.3 pP 48 38.84 29km BAO 44.88 136 iPc 48 39.10 0.6 FRB 46.54 6 eP 48 59.00 8.1X PPD 47.73 145 eP 49 00.90 0.0 INK 61.01 340 eP 50 37.00 -0.2 1.0s 2.00nm 4.2mb KLU 63.75 330 (P) 50 54.61 -1.1 SLKM 65.66 329 (P) 51 10.06 2.0 pP 51 15.07 16km RSO 66.90 329 eP 51 15.51 -0.7 EKA 67.44 37 Pd 51 25.80 6.4X 0.7s 4.10nm 4.7mb IMA 67.87 335 eP 51 20.62 -1.5 0.8s 4.09nm 4.6mb pP 51 27.81 23km TTA 68.62 331 eP 51 25.30 -1.5 1.0s 6.93nm 4.7mb pP 51 32.62 24km FLN 69.21 44 eP 51 39.60 9.1X LKO 71.18 86 P 51 43.20 0.0 AVF 71.96 46 eP 51 54.60 7.4X 1.0s 4.60nm 4.5mb LOR 72.24 45 eP 51 56.50 7.5X 0.8s 2.55nm 4.3mb TIC 72.51 88 P 51 50.80 -0.3 LIC 72.63 89 P 51 51.60 -0.2 KIC 72.86 89 P 51 53.00 -0.2 NB2 74.67 30 P 52 09.90 7.0X 1.0s 5.80nm 4.6mb APO 76.07 31 eP 52 18.50 7.7X 0.6s 2.20nm 4.4mb UPP 78.02 31 iP 52 28.50 6.9X GEC2 78.46 42 eP 52 24.50 0.1 1.1s 1.15nm 3.8mb e 52 31.10 21km e 52 33.40 e 52 42.30 e 52 47.90 ZST 80.81 42 e(P) 52 44.00 7.1X ADK 81.07 322 (P) 52 37.79 -0.4 1.1s 50.78nm 5.5mb pP 52 45.59 25km NUR 81.18 29 eP 52 45.70 7.1X KAF 81.36 27 eP 52 48.00 8.5X PIP 139.47 331 iPKPc 59 57.20 5.5X WB2 148.64 261 iPKPd 00 09.60 2.3 0.6s 12.00nm WRA 148.65 261 PKP 00 16.20 8.9X 0.6s 1.00nm ASPA 148.95 253 iPKPc 00 10.60 2.8 0.9s 11.30nm S.D. = 1.1 on 53 of 72 obs.</p>						<p>AUW 0.85 311 eP 28 41.55 -0.7 CNPM 0.87 35 iP 28 41.80 -0.8 eS 28 54.19 OPT 0.98 328 eP 28 43.29 -0.8 eS 28 56.84 MCNL 1.16 289 iP 28 45.70 -0.7 eS 29 00.33 BRLK 1.17 35 eP 28 46.39 -0.2 eS 29 01.40 INE 1.32 341 eP 28 47.37 -1.4 INW 1.34 340 eP 28 47.93 -1.0 PDB 1.40 315 eP 28 48.49 -1.3 eS 29 05.42 RED 1.63 350 eP 28 52.01 -1.0 RS1 1.67 351 iP 28 52.63 -1.0 RSO 1.67 351 eP 28 52.53 -1.0 RS2 1.67 351 eP 28 52.65 -1.0 REF 1.69 352 eP 28 52.65 -1.3 eS 29 13.38 RDW 1.69 350 eP 28 52.94 -1.1 NCT 1.78 349 eP 28 54.37 -0.8 DFR 1.79 353 eP 28 54.29 -1.0 SEW 1.91 46 iP 28 54.93 -1.9 SLKM 1.97 30 eP 28 56.36 -1.4 MPA 2.21 40 eP 28 59.48 -1.6 SPU 2.37 2 eP 29 02.24 -1.1 CKL 2.38 359 iP 29 03.01 -0.6 CKT 2.39 0 eP 29 02.71 -0.9 CPAM 2.44 1 eP 29 03.75 -0.7 CP2 2.45 360 eP 29 03.47 -1.2 BGL 2.45 358 eP 29 04.05 -0.5 PTE 2.61 37 eP 29 05.08 -1.5 HIN 3.31 59 eP 29 14.43 -2.2 33 obs. associated</p>					
<p>APR 14, 1993 01h 40m 23.97±0.33s 17.689 N ± 5.9km 78.723 W ± 5.1km DEPTH = 25.9km (17 depth phases) 4.5mb (21 obs.) JAMAICA REGION (86) MD 4.6 (HOJ). Felt (III) in western Jamaica.</p>						<p>& APR 14, 1993 04h 16m 25.68s 61.783 N 150.027 W DEPTH = 37.0km SOUTHERN ALASKA (2) <AEIC>. ML 2.7 (AEIC).</p>											
<p>PCJ 1.48 88 iPnd 40 49.83 0.7 Pg 40 52.01 BBJ 1.55 63 iPnd 40 50.48 0.3 Pg 40 52.32 STH 1.86 78 iPnd 40 54.75 0.1 Pg 40 57.98 S 41 18.56 HOJ 1.90 80 iPnd 40 55.63 0.3 Pg 40 59.03 S 41 19.53 GWJ 1.93 78 iPnd 40 56.12 0.3 Pg 40 59.37 S 41 20.14 SDV 11.77 137 eP 43 11.10 -2.4 GOGA 16.23 346 eP 44 09.97 -1.8 0.5s 7.09nm 4.1mb MYNC 17.97 345 eP 44 33.04 -0.7 0.6s 5.37nm 3.9mb CEH 18.13 359 eP 44 35.49 -0.2 0.6s 8.71nm 4.1mb TKL 18.45 347 eP 44 39.81 0.2 GBTN 18.56 346 eP 44 40.38 -0.5 GRT 20.79 335 (P) 45 07.21 1.5 OLY 21.05 330 eP 45 07.47 -0.9 MIAR 21.40 325 ePd 45 11.09 -0.8 1.2s 49.87nm 4.8mb ELC 21.60 337 eP 45 12.79 -1.1 UYO 21.62 322 iPd 45 13.40 -0.8 FVM 22.67 335 eP 45 25.52 0.9 1.1s 56.31nm 5.0mb MEO 24.56 318 iPd 45 42.90 -0.2 WMOK 24.66 317 eP 45 43.86 -0.1 0.7s 12.31nm 4.6mb e 45 52.23 30km ACO 26.14 320 iPd 46 01.10 3.2X RSNY 27.01 7 (P) 46 06.61 0.9 1.0s 9.33nm 4.4mb EEO 28.87 359 eP 46 33.00 10.4X LMN 30.38 19 eP 46 47.00 11.0X PV10 33.54 314 eP 47 04.54 0.4 e 47 11.94 25km PV09 33.66 314 eP 47 05.62 0.4 RSSD 33.88 326 ePc 47 07.12 0.1 1.2s 9.55nm 4.6mb SRU 34.91 314 eP 47 15.70 -0.1 e 47 23.27 26km ULM 35.28 341 eP 47 21.50 2.9 ZOBO 35.32 162 P 47 20.00 0.1 LR 59 22.00 LPB 35.58 162 eP 47 21.00 -0.9 GLA 35.83 302 eP 47 24.21 0.7 e 47 32.31 27km CNCB 35.88 162 P 47 24.00 -0.6 DAU 36.03 316 eP 47 25.89 0.4 pP 47 33.69 26km JAQ 36.12 3 eP 47 32.00 6.4X BW06 36.19 320 eP 47 25.24 -1.5</p>						<p>SLKM 1.28 184 eP 16 46.32 -1.1 MPA 1.34 166 eP 16 46.92 -1.3 TRF 1.68 356 ePc 16 52.41 -0.9 SEW 1.71 170 eP 16 52.81 -0.7 RND 1.72 18 ePc 16 52.99 -0.8 DFR 1.76 228 eP 16 53.45 -0.9 NCT 1.87 230 eP 16 55.11 -0.8 RSO 1.87 226 eP 16 55.16 -0.9 RS2 1.87 226 eP 16 55.21 -0.9 RS1 1.88 226 eP 16 55.21 -0.9 RDW 1.88 227 eP 16 54.56 -1.6 VLZ 1.89 109 iPc 16 54.62 -1.5 KLU 1.98 97 ePd 16 56.26 -1.3 eS 17 21.21 MCK 2.02 14 ePd 16 57.91 -0.1 BRLK 2.07 192 eP 16 59.32 0.6</p>											

TZL	2.19	81	eP	17 00.14	-0.3
HIN	2.21	128	iPc	16 58.59	-2.1
SDG	2.23	68	eP	17 01.37	0.3
INE	2.28	222	eP	17 00.90	-0.9
INW	2.29	223	eP	17 01.44	-0.6
CNPM	2.34	195	eP	17 02.05	-0.6
CVA	2.42	119	eP	17 01.18	-2.4
PAX	2.44	59	eP	17 04.38	0.4
SGAM	2.67	117	eP	17 04.65	-2.5
SVW	2.77	258	eP	17 06.00	-2.7
PDB	2.86	227	eP	17 08.15	-1.8
RAGM	2.95	116	eP	17 11.65	0.3
HDA	2.98	27	eP	17 11.14	-0.6
MID	2.98	141	P	17 13.80	2.1
GLB	2.99	94	eP	17 10.09	-1.8
TTA	3.02	295	eP	17 09.54	-2.8
CCB	3.05	18	ePc	17 11.00	-1.6
MLY	3.28	355	ePc	17 13.99	-1.9
FBA	3.29	17	ePd	17 14.14	-1.8
MDM	3.29	13	eP	17 14.59	-1.4
GLM	3.43	19	eP	17 16.34	-1.7
TGL	3.63	103	eP	17 20.69	-0.2
BALM	3.77	98	eP	17 21.51	-1.4
IMA	4.59	341	ePd	17 32.06	-2.6

59 abs. associated

& APR 14, 1993 04h 25m 59.51s
40.312 N 124.573 W
DEPTH = 19.0km
NEAR COAST OF NORTHERN CALIF. (35)
<GM-P>. MD 3.2 (GM). ML 3.1
(BRK).

FOX	0.49	65	iPc	26 09.62	0.3
			iS	26 18.09	
EKR	0.51	41	iPc	26 09.03	-0.5
			iS	26 18.85	
ARC	0.68	34	iPc	26 11.09	-1.4
			iS	26 17.19	
WDC	1.57	80	ePc	26 24.65	-2.0
MIN	2.27	88	eP	26 33.94	-2.9
			eS	27 01.35	
LBFM	2.28	62	eP	26 35.62	-1.4
NTYM	2.43	142	eP	26 36.29	-2.5
ORV	2.48	107	eP	26 37.80	-1.8
			iS	27 06.03	
BKS	3.04	142	ePc	26 44.84	-2.7
MHC	3.75	141	eP	26 54.84	-2.9
ARN	3.79	140	eP	26 55.49	-2.8
GCC	3.85	148	iPd	26 55.16	-3.9
SAO	4.31	144	iPd	27 01.30	-4.3
GSC	7.92	127	eP	27 55.62	-1.0

14 abs. associated

* APR 14, 1993 04h 31m 34.21± 1.13s
17.029 N ±11.6km 99.444 W ± 9.1km
DEPTH = 50.6 ± 11.7 km
3.4mb (2 obs.)
GUERRERO, MEXICO (59)

ACX	0.43	248	iPc	31 44.19	-0.6
			iS	31 51.48	
III	1.34	359	iPc	31 56.79	-0.3
			(S)	32 10.31	
PPM	2.17	21	iP	32 08.97	-0.1
			(S)	32 35.29	
IIA	2.24	19	eP	32 09.17	-0.3
IIIT	2.26	28	(P)	32 10.12	0.1
UNM	2.30	6	eP	32 10.80	0.1
			(S)	32 47.30	
CRX	2.38	355	(P)	32 12.60	0.8
OXX	2.60	88	iP	32 15.79	0.9
			iS	32 53.00	
IISM	2.77	45	iPc	32 16.46	-0.6
			(S)	32 57.10	
MRX	3.14	328	iP	32 23.20	0.9
ALO	18.91	342	eP	35 52.30	-1.5
	1.0s		2.50nm		3.4mb
ARUT	24.07	332	(P)	36 48.39	2.3
YKA	46.64	350	eP	39 57.50	-1.7
	0.8s		0.50nm		3.5mb

S.D. = 1.2 on 13 of 13 abs.

APR 14, 1993 05h 20m 41.74± 0.44s
49.155 N ± 3.4km 6.946 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

ML 2.6 (STR), 2.3 (UCC).

RUP	0.55	8	ePg	20 52.03	-1.0
SRBF	0.64	112	Pg	20 54.94	0.3
HOFF	0.70	107	Pg	20 55.54	-0.1
WLF	0.73	315	iPd	20 55.24	-0.8
			iS	21 04.55	
CDF	0.77	164	Pg	20 56.64	-0.3
			Sg	21 08.46	
WLS	0.79	160	Pg	20 57.15	0.0
ABH	0.83	28	ePg	20 57.23	-0.5
ECH	0.95	171	Pg	21 00.04	0.2
			Sg	21 13.11	
VITF	1.13	215	Pg	21 02.77	-0.2
MOF	1.31	174	Pg	21 06.60	0.6
			Sg	21 25.07	
TNS	1.45	42	ePnc	21 09.00	1.0
			eSn	21 28.00	
			eSb	21 29.70	
FEL	1.46	151	ePg	21 08.37	0.1
ENN	1.74	338	eP	21 14.00	1.8
	0.5s		41.70nm		
			eS	21 33.50	
LOMF	1.81	183	Pn	21 12.81	-0.4
			Pg	21 15.96	
GEC2	4.46	91	Pn	21 50.30	-0.7
			Sg	23 06.90	

S.D. = 0.8 on 15 of 15 obs.

? APR 14, 1993 05h 49m 23.65± 0.89s
38.078 N ±18.3km 14.964 E ± 9.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.26	235	Pc	49 29.30	0.1
			eSg	49 37.50	
ATN	0.40	78	P	49 31.80	-0.1
			eSg	49 40.70	
GIB	0.75	263	P	49 38.20	-0.1
CZI	1.46	38	P	49 50.10	0.1

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

? APR 14, 1993 05h 50m 37.92± 0.56s
37.748 N ±11.8km 72.638 E ±11.9km
DEPTH = 33.0km (normal)
4.1mb (6 obs.)
TAJIKISTAN (715)

NDI	9.82	156	iPd	53 00.50	0.6
	0.5s		14.08nm		5.5mb X
MAIO	10.61	266	eP	53 12.00	1.2
			eS	54 48.00	
GKN	13.99	131	P	54 03.00	6.9X
KKN	14.54	129	P	54 03.00	-0.3
DMN	14.56	130	P	54 03.00	0.1
PKI	14.77	130	P	54 06.00	-0.5
GUN	14.82	128	P	54 07.40	0.2
HYB	20.91	164	eP	55 19.40	-0.7
KAF	37.31	326	iP	57 48.80	0.4
	0.2s		0.80nm		4.2mb
HFS	42.91	321	eP	58 34.00	-0.7
	0.4s		9.30nm		4.9mb
NB2	44.19	322	P	58 43.90	-1.2
	0.6s		2.50nm		4.2mb
EKA	52.31	316	P	59 46.00	-2.2
	0.7s		1.20nm		4.0mb
MBC	66.03	3	eP	01 25.00	2.2
	0.6s		1.00nm		4.1mb
YKA	79.93	3	eP	02 45.50	0.9
	0.4s		0.50nm		3.9mb

S.D. = 1.2 on 13 of 14 abs.

APR 14, 1993 05h 58m 32.63± 0.12s
51.131 N ± 3.2km 168.825 W ± 1.9km
DEPTH = 33.0km (normal)
5.6mb (129 obs.) 5.4msz (44 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)
Mw 5.9 (HRV). Ms 5.3 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 44S, *C
Centroid Location:
Origin Time: 05:58:33.3 0.1
Lat 51.06N 0.02 Lon 168.65W 0.03
Dep 15.0 BDY Half-duration 2.2
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-6.69 0.09 Mtt= 6.59 0.12

Mff= 0.10 0.09 Mrt=-0.24 0.39
Mrf= 1.32 0.34 Mtr= 3.06 0.12
Principal Axes:
T Val= 7.81 Plg= 1 Azm=338
N -0.82 13 248
P -6.99 77 73
Best Double Couple: Mo=7.4*10¹⁷
NP1: Strike= 81 Dip=45 Slip= -72
NP2: 236 47 -107

ADK	4.97	282	iPc	59 44.81	-2.0
SDN	6.54	47	eP	00 05.57	-3.3X
			S	01 14.93	
SMY	10.67	285	eP	01 02.27	-3.8X
			S	02 53.82	
KDC	11.57	49	eP	01 12.56	-5.8X
			S	03 09.21	
SVW	12.39	31	eP	01 26.68	-2.7
RSO	12.97	38	eP	01 33.44	-3.8X
			S	03 59.84	
CP2	13.67	36	eP	01 43.52	-3.0
			S	04 19.54	
TTA	13.69	25	eP	01 43.53	-3.1X
CRP	13.71	36	eP	01 43.57	-3.3X
SLKM	14.00	41	eP	01 45.83	-4.8X
			S	04 38.59	
PMR	15.06	38	eP	01 58.51	-5.8X
	0.6s		45.91nm		4.9mb
			S	04 40.36	
KLU	16.31	42	eP	02 15.22	-5.3X
IMA	16.85	22	eP	02 25.31	-2.0
	1.2s		356.89nm		5.4mb
			S	05 43.17	
FBA	17.60	30	eP	02 30.71	-5.9X
	0.8s		85.48nm		4.9mb
BALM	17.67	46	eP	02 34.68	-2.9
			S	06 03.78	
SIT	20.37	60	eP	03 08.19	-0.6
	1.0s		177.63nm		5.4mb
Z	18s		4.09um		4.8msz
BRW	20.98	11	eP	03 14.00	-0.8
INK	24.21	32	eP	03 48.00	1.3X
	0.5s		68.00nm		5.4mb
PGC	28.99	77	eP	04 37.50	6.5X
MCW	29.35	77	eP	04 33.66	-0.7
			ePcP	07 39.88	
GMW	29.83	79	eP	04 38.84	0.2
			ePcP	07 39.83	
			epPcP	07 52.73	
BMW	30.01	81	eP	04 40.32	0.0
			epP	04 51.48	41kmX
			ePcP	07 41.75	
			epPcP	07 53.18	
JCW	30.10	77	P	04 41.81	0.8
KMOR	30.22	82	P	04 42.95	0.7
SHW	30.75	81	eP	04 48.86	1.9X
			iPcP	07 44.11	
			ipPcP	07 56.39	
LON	30.77	79	eP	04 46.80	-0.2
FMW	30.78	79	P	04 47.86	0.6
YKA	30.82	47	eP	04 47.20	0.0
	1.0s		36.80nm		5.1mb
HON	30.93	160	P	05 00.00	11.5X
	21s		6.63um		5.3msz
ASR	31.17	80	P	04 50.63	0.0
WTV	31.51	77	P	04 53.62	0.1
MBC	31.57	20	eP	04 53.50	-0.2
	0.5s		29.00nm		5.4mb
VBEM	31.68	82	P	04 55.38	0.3
SAW	31.85	76	P	04 56.09	-0.3
VGB	31.97	81	eP	04 57.62	0.1
			ePcP	07 47.04	
			epPcP	07 58.60	
CROR	32.09	82	P	04 58.90	0.3
WAH2	32.16	78	P	04 59.10	0.0
ARC	32.27	91	ePd	05 01.69	1.6X
	1.4s		160.00nm		5.7mb
	19s		3.90um		5.1msz
FHC	32.37	91	(P)	05 01.11	0.1
	0.6s		100.77nm		5.9mb
DPW	32.51	76	ePd	05 01.88	-0.3
			ePcP	07 47.93	
			epPcP	07 59.40	
VIPM	32.55	83	P	05 03.18	0.5
JBO	32.58	80	P	05 03.07	0.3
ASAJ	32.94	277	eP	05 05.90	0.0
NEW	33.00	74	ePd	05 06.15	-0.3

BCH	38.21	95	eP	05	51.64	0.7
TNP	38.21	89	eP	05	51.58	0.5
	1.0s		57.68nm			5.4mb
			epP	06	03.18	42kmX
			ePcP	08	05.40	
			epPcP	08	16.00	
HVU	38.87	81	eP	05	56.94	0.5
			e	06	25.37	
			e	08	18.14	
ISA	38.91	93	ePd	05	56.93	0.1
	0.8s		63.71nm			5.4mb
Z	16s		6.55um			5.5Msz
			S	11	41.91	
KAKJ	38.98	268	P	05	57.40	0.2
TPNV	39.51	90	(P)	06	02.59	0.7
	0.7s		78.99nm			5.6mb
			epP	06	14.56	44kmX
DUG	39.74	83	eP	06	03.99	0.3
	1.0s		27.31nm			5.0mb
			iPcP	08	10.99	
CHJJ	39.82	269	P	06	04.90	0.7
MAT	40.01	270	iPd-	06	05.40	-0.4
	0.7s		90.41nm			5.6mb
Z	20s		3.55um			5.2Msz
			eS	12	12.00	
GSC	40.19	93	eP	06	08.15	0.7
			ePcP	08	11.89	
			epPcP	08	22.50	
BW06	40.31	78	ePd	06	08.02	-0.5
	0.9s		68.31nm			5.4mb
			epP	06	19.10	39kmX
SSK	40.34	95	eP	06	09.81	1.1
DAU	40.58	82	ePd	06	11.12	0.3
			epP	06	23.93	48kmX
			ePcP	08	12.17	
			epPcP	08	23.93	
MDJ	40.74	286	eP	06	11.20	-0.5
Z	24s		4.63um			5.3Msz
N	17s		3.26um			
E	17s		2.22um			
ARUT	40.77	87	eP	06	13.18	1.0
I1DJ	40.86	269	P	06	13.80	0.9
PEC	40.88	94	eP	06	13.08	0.1
	0.8s		50.26nm			5.3mb
			ePcP	08	13.27	
			epPcP	08	24.28	
MSU	41.12	85	eP	06	15.67	0.5
			i	08	14.89	
			e	08	26.35	
EMUT	41.21	83	ePd	06	16.26	0.4
PLM	41.42	95	eP	06	16.29	-1.3
FCC	41.48	49	eP	06	20.00	2.5X
SRU	41.80	83	ePd	06	20.65	-0.1
			e	06	33.28	
			e	08	16.10	
			e	08	27.52	
TSRJ	42.04	270	P	06	22.50	0.1
GLA	42.90	93	eP	06	29.98	0.4
			e	08	18.16	
RSSD	42.95	73	eP	06	29.07	-1.0
	0.9s		40.64nm			5.2mb
Z	20s		3.21um			5.2Msz
			e	08	19.11	
			S	13	12.11	
WKYJ	43.13	269	P	06	32.30	0.8
CN2	43.69	287	Pd	06	35.00	-0.7
	1.0s		94.00nm			5.5mb
Z	20s		4.03um			5.3Msz
N	18s		4.30um			
E	18s		1.37um			
			epP	06	49.00	53kmX
			PP	08	20.00	
			eS	13	02.00	
			eSS	16	12.00	
YONJ	43.85	272	P	06	37.70	0.5
ULM	44.44	61	eP	06	43.00	1.2X
GOL	44.66	79	eP	06	43.68	-0.4
	0.9s		33.70nm			5.2mb
Z	19s		11.78um			5.8Msz
			e	06	55.41	
			e	07	12.20	</

	Z	16s		3.82um			5.4MszX
				ePcP	08	30.87	
				e	08	42.42	
				S	13	30.10	
SNY		45.94	286	Pd	06	53.50	-0.3
		1.4s		340.00nm			6.1mb
	Z	17s		3.41um			5.4MszX
	N	14s		2.18um			
	E	16s		1.41um			
				PcP	08	32.00	
				PP	08	42.00	
				S	13	29.00	
				SS	16	51.50	
ALO		46.94	85	eP	07	01.77	-0.3
		1.3s		34.33nm			5.2mb
	Z	18s		5.87um			5.6Msz
				iPcP	08	34.53	
				e	08	46.01	
				S	13	52.85	
DL2		48.89	284	P	07	15.50	-1.4
		1.0s		130.00nm			5.9mb
	Z	24s		2.03um			5.0MszX
	N	15s		2.65um			
	E	15s		1.59um			
				PP	09	08.00	
				S	14	14.00	
FRB		49.80	35	eP	07	23.00	-0.6
		1.0s		24.00nm			5.2mb
KBS		50.21	360	iPc	07	27.70	1.1X
ACO		50.36	78	iPd	07	27.60	-0.7
IRK		50.67	308	ePd-	07	29.00	-1.4
		1.2s		172.00nm			5.9mb
	Z	14s		4.66um			5.7MszX
				epP	07	48.20	77kmX
				esP	08	04.00	
				ePcP	09	31.00	
				ePPP	10	09.00	
				eS	14	41.00	
				ePS	15	11.00	
				eScS	17	23.00	
				e	18	32.00	
				LR	28	45.00	
DAG		50.96	9	eP	07	32.00	-0.3
		0.8s		134.33nm			6.0mb
BJI		51.48	289	eP	07	36.00	-0.7
		1.4s		72.00nm			5.4mb
	Z	20s		3.59um			5.4Msz
	N	18s		4.20um			
				esP	07	50.00	
				ePP	09	36.00	
				eS	14	52.00	
				eSS	18	24.00	
WMOK		51.86	80	eP	07	38.19	-1.5
		1.1s		78.28nm			5.6mb
	Z	20s		7.37um			5.7Msz
				ePcP	08	52.60	
				S	15	07.68	
OCO		52.15	78	iPc	07	40.10	-1.8
JAQ		52.78	48	eP	07	44.50	-1.8
GUM0		52.81	242	eP	07	44.10	-2.8
	Z	22s		0.95um			4.8Msz
GUA		52.82	242	eP	07	45.10	-1.9
		0.7s		76.71nm			5.8mb
TIA		53.36	284	eP	07	49.30	-1.5
		1.5s		160.00nm			5.8mb
	Z	26s		2.75um			5.2MszX
	E	13s		1.53um			
				S	15	20.00	
HHC		53.69	292	Pc	07	53.20	-0.1
		1.2s		95.00nm			5.7mb
	Z	22s		3.88um			5.4Msz
	N	20s		6.62um			
	E	20s		5.45um			
				PP	09	57.50	
				S	15	24.00	
SSE		54.27	277	Pd	07	57.50	0.0
		1.5s		140.00nm			5.8mb
	Z	20s		1.40um			5.0Msz

		0.8s	110.00nm		5.9mb
	N	18s	4.89um		
	E	18s	2.14um		
			ePP	10 01.00	
			S	15 35.00	
			eSS	19 20.50	
FVM		54.83	71 eP	07 58.49	-3.1X
		0.8s	68.25nm		5.7mb
	Z	19s	7.36um		5.8MsZ
			e	16 52.14	
			SS	20 57.81	
UYO		54.91	77 iPd	08 00.30	-1.9
NJ2		55.07	279 Pc	08 02.40	-1.0
		1.0s	34.00nm		5.3mb
	Z	20s	0.95um		4.9MsZ
	N	15s	1.85um		
	E	13s	1.33um		
MIAR		55.20	76 eP	08 02.64	-1.7
		0.8s	21.43nm		5.2mb
	Z	18s	2.30um		5.3MsZ
			ePcP	09 05.48	
			S	15 54.27	
TIY		55.21	289 eP	08 04.20	-0.3
	Z	20s	4.74um		5.6MsZ
	N	17s	3.70um		
EEO		55.62	57 eP	08 08.00	0.8
OLY		55.84	74 eP	08 05.57	-3.4X
			ePcP	09 07.34	
ELC		56.00	71 eP	08 06.90	-3.2X
ELF		56.66	61 P	08 13.40	-1.4
DLA		56.74	61 P	08 14.40	-0.9
LDN		56.83	61 P	08 14.40	-1.6
ACTO		57.07	60 P	08 15.76	-1.9
TYNO		57.52	60 P	08 18.83	-2.0
WLVO		57.77	59 P	08 20.81	-1.7
STCO		57.82	60 P	08 20.99	-1.9
GAC		58.12	55 eP	08 25.00	0.1
KEV		58.87	354 iP	08 29.50	-0.4
		0.9s	49.00nm		5.6mb
	Z	20s	6.80um		5.8MsZ
			eS	16 37.00	
			LR	30 30.00	
WHN		58.90	281 Pc	08 30.00	-0.6
		1.0s	70.00nm		5.7mb
	Z	18s	1.81um		5.2MsZ
	N	15s	1.26um		
	E	16s	1.83um		
			S	16 32.00	
RSNY		59.39	56 eP	08 31.67	-2.2
		1.2s	57.83nm		5.6mb
	Z	20s	2.33um		5.3MsZ
			S	16 48.87	
TRO		59.42	357 iPc	08 34.40	0.8
XAN		59.79	288 P	08 35.50	-1.3
		1.5s	110.00nm		5.8mb
	Z	20s	2.55um		5.4MsZ
	N	20s	3.74um		
	E	20s	4.63um		
			pP	08 51.60	60kmX
			PP	10 50.00	
			S	16 48.00	
			ScS	18 18.00	
MCWV		59.85	63 P	08 50.00	12.9X
	Z	18s	5.11um		5.7MsZ
GBTN		60.07	69 ePd	08 35.73	-2.9
QZH		60.21	274 Pd	08 38.00	-1.6
	Z	16s	1.19um		5.1MsZ
	E	14s	1.90um		
			sP	08 56.00	
			S	16 52.00	
TKL		60.34	69 eP	08 37.24	-3.2X
MYNC		60.53	70 eP	08 38.59	-3.2X
		0.6s	25.58nm		5.5mb
MRX		60.91	94 iP	08 45.00	0.6
CBM		60.97	50 P-	08 43.17	-1.4
	Z	18s	6.62um		5.8MsZ
			S	16 57.43	
LOF		61.05	359 eP	08 46.00	1.3X
SDF		61.22	353 iP	08 44.80	-1.2
GTA		61.35	298 Pd	08 46.00	-1.5
		1.0s	95.00nm		5.9mb
	Z	16s	6.86um		5.9MsZ
	E	20s	7.41um		
			pP	08 54.00	26kmX
			sP	09 00.00	
			S	17 00.00	
AKU		61.36	13 e(P)	08 47.30	0.3

LZH	2.1s	453.33nm		6.2mb
	61.37	293 Pd	08 47.00	-0.7
	1.8s	230.00nm		6.0mb
GOGA	N 19s	5.11um		
		S	17 06.00	
	62.08	71 eP	08 49.16	-3.1X
	0.6s	29.33nm		5.6mb
	Z 21s	2.18um		5.3MsZ
		PP	11 07.91	
PNJ	62.12	59 eP	08 50.67	-1.7
		S	17 24.20	
	62.12	59 iP	08 51.12	-1.3
GMTN	62.12	59 eP	08 52.00	-0.4
CBN	62.25	63 eP	08 51.00	-2.3
HRV	62.37	56 P	08 52.47	-1.6
	Z 18s	2.93um		5.5MsZ
		e	12 52.54	
		S	17 34.08	
MOR7	62.88	358 eP	08 56.46	-0.7
CEH	62.90	66 eP	08 55.26	-2.3
	0.5s	45.99nm		5.9mb
	Z 18s	2.88um		5.5MsZ
		PP	11 12.72	
III	62.98	94 iP	09 01.50	-2.1
		S	17 24.37	
	LMN	63.34	49 eP	09 01.50
CVP	63.48	265 eP	09 12.00	34kmX
		pP	09 01.80	0.1
	IISM	63.84	92 iP	09 03.00
WMQ	64.57	309 P	09 08.20	-0.4
	2.0s	110.00nm		5.6mb
	Z 26s	5.34um		5.6MsZ
	N 14s	2.37um		
		pP	09 13.20	16kmX
		sP	09 19.20	
		PcP	09 42.80	
		PP	11 30.80	
		S	17 49.00	
		SKS	18 52.00	
GZH	64.85	276 Pc	09 10.40	-0.1
	1.0s	28.00nm		5.3mb
	Z 14s	1.18um		5.2MsZ
	E 16s	1.65um		
		S	17 51.00	
	CD2	65.08	289 iPd	09 11.60
	1.2s	90.00nm		5.7mb
	Z 20s	2.62um		5.4MsZ
	E 18s	3.25um		
BAG		S	17 54.00	
	65.23	266 eP	09 11.00	-2.3
		eS	17 54.00	
KAF	66.46	352 iP	09 20.20	-0.1
PLP	0.6s	7.00nm		4.9mb
	66.49	258 ePd	09 19.50	-1.6
	GYA	66.54	283 iPd	09 20.00
	1.2s	33.00nm		5.3mb
	Z 40s	2.35um		5.1MsZ
	N 18s	1.11um		
	E 18s	2.13um		
		PP	11 54.00	
		S	18 10.00	
MOL	66.61	2 eP	09 21.35	0.1
TGY	66.75	264 iPc	09 23.00	0.1
NB2	68.18	360 P	09 31.20	0.0
	0.8s	19.40nm		5.2mb
	68.19	353 eP	09 31.00	-0.2
	0.2s	2.80um		5.0mb
NUR	Z 26s	5.00um		5.6MsZ
		eS	18 32.00	
		LR	35 40.00	
PMO	68.35	158 iPc	09 33.80	1.2
TPT	1.5s	198.50nm		6.0mb
	68.39	158 iPc	09 34.00	1.1
	1.9s	187.20nm		5.8mb
VAH	68.64	158 iPc	09 35.50	1.1
RUV	1.6s	176.60nm		5.9mb
	68.65	158 iPc	09 35.50	1.0
	1.6s	154.20nm		5.8mb
HFS	69.07	359 eP	09 35.90	-0.7
	0.5s	34.20nm		5.7mb
	Z 24s	2448.00um		8.4MsZ
		LR	31 43.00	
UPP	69.24	357 iP	09 37.50	-0.1
	1.0s	100.00nm		5.8mb
		i	09 42.60	

				iS	18	44.00	
DAV	69.30	255	eP	09	40.00	1.4	
KONO	69.57	1	eP	09	39.50	-0.2	
KMY	69.91	3	eP	09	42.68	1.0	
KMI	69.91	285	Pd	09	42.00	-0.6	
	1.5s		130.00nm			5.8mb	
Z	20s		2.50um			5.5MsZ	
N	18s		2.10um				
E	16s		1.10um				
			pP	09	53.00	36kmX	
			sP	09	58.00		
			PcP	10	02.00		
			S	18	50.00		
			sS	19	05.00		
			ScS	19	38.00		
			SS	23	20.00		
QIZ	70.03	276	P	09	43.30	0.2	
N	15s		1.54um				
AFR	70.38	161	iPc	09	46.00	0.9	
	0.8s		70.10nm			5.8mb	
PPN	70.45	160	iPc	09	46.50	1.0	
	1.2s		68.40nm			5.6mb	
EDR	71.72	8	eP	09	52.80	0.0	
OBN	72.04	345	iPd-	09	54.00	-0.7	
	2.0s		400.00nm			6.1mb	
Z	20s		3.80um			5.7MsZ	
N	20s		2.20um				
E	20s		2.20um				
			iPP	12	36.00		
			ePPP	14	24.00		
			iS	19	12.00		
			ePS	19	48.00		
			iPPS	20	03.00		
			iSS	24	16.00		
			eSSS	27	00.00		
			LQ	33	40.00		
EDU	72.05	8	ePc	09	55.10	0.4	
	1.1s		27.00nm			5.2mb	
ELO	72.06	9	ePc	09	55.20	0.4	
	1.2s		9.00nm			4.6mb	
EAB	72.28	9	ePc	09	56.80	0.7	
SWI	72.29	245	ePd	09	56.00	-0.7	
EDI	72.65	8	eP	09	59.10	0.9	
ESY	72.71	8	eP	09	59.10	0.5	
MUD	72.76	1	eP	10	01.00	2.1X	
EBL	72.81	8	eP	10	00.00	0.8	
EKA	73.24	8	Pc	10	02.70	1.0	
	1.1s		24.20nm			5.1mb	
LSA	73.30	297	Pd	10	04.00	0.9	
	1.2s		600.00nm			6.5mb	
Z	24s		2.22um			5.4MsZ	
N	20s		4.48um				
			PP	12	48.00		
KSH	73.51	313	P	10	05.00	1.2X	
	1.5s		80.00nm			5.5mb	
Z	40s		5.62um			5.5MsZ	
N	16s		3.60um				
E	16s		4.05um				
			PP	12	51.00		
			S	19	32.00		
			SKS	20	02.00		
COP	73.55	359	eP	10	04.90	1.5X	
	0.8s		74.63nm			5.7mb	
DMU	74.25	11	eP	10	08.40	0.8	
DMU	74.25	11	eP	10	15.80	8.2X	
	0.8s		79.00nm			5.8mb	
DCN	74.75	11	eP	10	11.40	0.9X	
DCN	74.75	11	eP	10	18.90	8.4X	
	0.8s		103.00nm			5.9mb	
DLF	74.89	11	eP	10	12.20	0.9	
ETA	75.51	11	eP	10	16.00	1.1	
VAL	75.72	13	eP	10	17.00	1.0	
			S	20	00.00		
ECB	75.77	11	eP	10	17.30	1.0	
KKM	75.89	262	ePc	10	19.00		

14d 06h									
BRN	76.81	359	eP	10	24.00	1.9X			
HGH	76.92	9	ePc	10	23.80	1.0			
CHG	76.96	284	iPd	10	23.00	-0.5			
	1.6s	106.67nm			5.6mb				
GUN	77.62	299	P	10	27.00	-0.5			
CLL	77.92	359	iPd	10	29.00	0.7			
	2.8s	300.00nm			5.8mb				
		ipP	10	47.40	67kmX				
		eS	20	19.00					
KKN	78.04	299	P	10	29.60	-0.1			
BDT	78.11	283	eP	10	26.00	-3.8X			
PKI	78.14	299	P	10	29.00	-1.4			
GKN	78.22	300	P	10	30.00	-0.6			
BNS	78.23	3	iPd	10	30.90	0.9			
DMN	78.28	299	P	10	30.60	-0.4			
UCC	78.28	4	P-	10	31.00	0.7			
		S	20	31.00					
KSP	78.31	357	ePd	10	31.40	0.9			
	1.0s	47.00nm			5.5mb				
BRG	78.35	358	iPd	10	30.80	0.1			
		i	10	56.00					
		iS	20	24.00					
ENN	78.38	3	P	10	32.20	1.4X			
	0.9s	33.60nm			5.4mb				
		e	10	39.50					
SNF	78.57	4	P	10	33.00	1.2			
MOX	78.60	360	eP	10	33.00	0.9			
	1.3s	62.00nm			5.5mb				
	Z 20s	1.20um			5.2Msz				
		iS	20	35.00					
NST	78.61	281	eP	10	34.00	1.4X			
OJC	78.76	354	eP	10	33.70	0.7			
	1.2s	85.00nm			5.6mb				
		i	10	36.80					
		eS	20	30.00					
HOF	78.93	360	iPc	10	35.50	1.6X			
DOU	79.00	4	P	10	35.80	1.6X			
		e	10	43.40					
		S	20	39.00					
TNS	79.00	2	ePd	10	35.10	0.8			
PRU	79.22	358	Pd	10	36.50	1.1			
	Z 22s	1.30um			5.2Msz				
	N 16s	1.10um							
	E 16s	1.00um							
		e	11	00.00					
		eS	20	34.00					
		e	26	16.00					
WLF	79.49	3	P	10	39.00	2.1X			
GRF	79.56	360	ePd	10	38.70	1.4X			
	1.5s	138.00nm			5.7mb				
	Z 40s	5.00um			5.6MszX				
		ic	10	50.60					
		ec	11	07.40					
SPC	79.76	354	iPc	10	40.30	1.7X			
VRAC	79.83	356	eP	10	39.90	1.2X			
FLN	79.99	8	eP	10	39.00	-0.6			
	0.9s	29.95nm			5.3mb				
	Z 23s	2.10um			5.4MszX				
WET	80.09	359	iPd	10	41.70	1.5X			
KHC	80.10	358	Pd	10	41.50	1.3X			
	1.3s	45.20nm			5.3mb				
	Z 16s	1.80um			5.5MszX				
	N 16s	1.30um							
	E 16s	0.80um							

DIM	86.36	349	iPc	11	15.00	2.6X	ECOG	91.02	12	eP	11	35.49	0.8	THE	0.11	259	iPg	04	12.78	0.0	
PLD	86.40	350	iPc	11	14.00	1.5X	CMS	91.45	217	iPd	11	38.00	1.7X				eSg	04	14.54		
WRA	86.50	232	P	11	12.80	-0.4		0.6s	6.00nm			5.2mb		SOH	0.26	48	ePg	04	15.66	0.2	
	0.7s	6.00nm			4.9mb		MAL	91.45	12	iPc	11	37.00	0.5				eSg	04	19.42		
EGRA	86.52	9	eP	11	14.48	1.4X			IPP	15	16.00			KNT	0.53	343	iPg	04	20.82	0.0	
TTG	86.55	354	iPc	11	13.84	0.6	EGUA	91.46	12	eP	11	36.79	0.2				eSg	04	29.06		
IPM	86.56	273	ePc	11	14.90	1.1	POO	91.67	303	iPc	11	35.20	-2.7	SRS	0.60	39	ePg	04	21.82	-0.2	
HCY	86.58	355	iPc	11	13.17	-0.3	VLI	91.92	351	eP	11	38.20	-0.5				eSg	04	29.98		
ETER	86.67	6	eP	11	15.56	1.7X	BHL	92.63	340	P	11	40.00	-2.2				S.D. = 0.3	on	4 of	4 obs.	
PGF	86.68	2	eP	11	14.50	0.4			PP	15	25.00										
	0.9s	53.25nm			5.8mb		NPS	93.04	348	eP	11	43.70	-0.3								
BDV	86.73	354	iPc	11	13.98	-0.2	HRI	93.22	340	eP	11	45.50	0.6								
KDZ	86.77	349	iPc	11	16.00	1.6X	STK	93.47	220	iPc	11	46.10	0.5								
KKB	86.80	351	iPc	11	16.00	1.4X		0.6s	3.20nm			4.9mb									
RZN	86.81	350	iPc	11	16.00	1.2			eS	22	15.30										
SKO	86.85	352	iPd	11	15.50	0.7	GBA	93.74	297	Pd	11	47.00	-0.3	CHG	6.98	145	eP	19	59.40	0.3	
	8.0s	1806.00nm			6.4mb X		WARB	95.58	235	eP	11	55.50	0.0	GUN	8.57	295	P	20	21.00	0.0	
Z	26s	3.30um			5.6MszX		PRNI	96.20	339	eP	11	58.60	0.1	PKI	8.86	292	P	20	24.60	-0.2	
		i			11	16.00		HLW	97.42	342	eP	12	04.00	0.0	KKN	9.03	293	P	20	26.80	-0.2
		iPcP			11	26.50				e	22	41.00		DMN	9.13	291	P	20	28.00	-0.3	
		i			11	38.00		ZOBD	109.18	92	ePKP	17	06.00	4.6X	GKN	9.64	293	P	20	35.40	0.3
		IPP			14	39.00		Z	24s	0.90um		5.3MszX		PJG	48.43	93	eP	27	02.80	13.2X	
		eS			21	45.00				SKS	27	04.00		WRA	58.73	135	P	28	04.80	-0.2	
		IPS			22	47.00				LR	49	14.00			0.6s	1.50nm			4.2mb		
		LR			46	47.00		LPB	109.40	92	ePKP	16	54.00	-7.6X	WB2	58.74	135	eP	28	04.50	-0.5
CTT	86.87	347	eP	11	16.20	1.3X	CNCB	109.68	93	PKP	17	04.00	1.6		0.7s	4.80nm			4.6mb		
AQU	86.88	358	P	11	16.90	1.9X	SIV	113.41	87	PKP	17	21.60	12.8X	UPP	62.60	326	iP	28	30.50	-0.1	
SDA	86.91	354	eP	11	15.70	0.7	LKO	117.85	19	PKP	17	16.18	-1.2	HFS	64.56	327	eP	28	43.00	-0.4	
HRT	87.01	346	iP	11	16.70	1.1		0.8s	10.50nm						0.6s	7.60nm			4.8mb		
MMB	87.01	351	iPc	11	17.00	1.4X	TIC	120.79	19	PKP	17	22.50	-0.4	NB2	65.68	328	P	28	49.70	-1.0	
ULC	87.02	354	iPc	11	15.28	-0.3	KIC	121.12	19	PKP	17	23.00	-0.6		0.6s	2.40nm			4.3mb		
KGM	87.09	270	eP	11	16.00	-0.3	LIC	121.19	19	PKP	17	23.00	-0.7	GEC2	66.12	314	ePc	28	54.60	0.8	
EYL	87.19	346	eP	11	17.00	0.4	Z	21s	0.70um			5.3Msz			0.7s	1.10nm			3.9mb		
PHP	87.21	353	eP	11	16.30	-0.3	BAO	121.27	75	(PKP)	17	26.00	2.1X	EKA	74.42	324	P	29	45.00	1.3	
RDO	87.25	349	iPc	11	18.20	1.5X	PPD	124.03	83	ePKP	17	28.10	-0.9		1.0s	4.40nm			4.2mb		
LACI	87.31	354	eP	11	16.30	-0.7			e	17	39.90				S.D. = 0.7	on	13 of	14 obs.			
VAY	87.39	351	iP	11	18.60	1.2X	8CAO	124.29	351	iPKPc	17	29.00	-0.7								
	1.3s	97.00nm			5.9mb			0.5s	13.00nm					& APR 14, 1993	06h	33m	08.85s				
SRS	87.49	351	eP	11	18.68	0.8			id	17	40.50				62.889 N		150.585 W				
SDI	87.52	358	P	11	18.50	0.5	VAO	127.46	80	ePKP	17	34.60	-1.1			DEPTH = 92.3km					
KNT	87.52	351	eP	11	19.08	1.1			id	19	13.10				CENTRAL ALASKA					(1)	
DUI	87.54	358	P	11	18.80	0.6	SPA	140.94	180	iPKPc	17	50.60	-9.1X			<AEIC>.					
TIR	87.59	353	eP	11	19.00	0.7		0.6s	8.13nm					HUR	0.44	78	ePd	33	23.32	-0.3	
GUD	87.63	12	eP	11	18.39	-0.3	LSZ	141.70	333	iPKPc	17	57.00	-5.6X				eS	33	34.03		
ETOR	87.70	10	eP	11	19.59	0.6			i	21	12.00			TRF	0.58	13	iPc	33	24.88	0.0	
BNT	87.72	347	eP	11	20.00	1.0	BUL	146.16	330	iPKPd	18	10.30	0.2				eS	33	37.13		
OLP	87.73	221	iPc	11	20.10	1.1		0.6s	39.67nm					RND	0.94	56	iPc	33	28.05	-0.4	
OHK	87.75	353	iP	11	19.30	0.1			i	18	23.10						eS	33	42.04		
	1.3s	108.00nm			6.0mb		MAW	150.10	217	PKP	18	19.50	4.9X	SKT	1.01	206	iPd	33	28.83	-0.3	
GRG	87.77	352	eP	11	20.48	1.2X		0.7s	55.56nm								iS	33	43.87		
SOH	87.81	351	eP	11	20.32	0.8	BFT	150.78	323	ePKP	18	23.10	5.8X	MCK	1.13	41	ePc	33	30.08	-0.4	
RFI	87.92	358	P	11	22.52	2.7X		1.4s	30.00nm								eS	33	46.92		
EPLA	87.94	13	iPd	11	20.08	0.0	WIN	151.12	349	ePKP	18	22.00	4.2X	PWA	1.29	165	P	33	32.40	0.0	
EROQ	87.94	8	eP	11	21.73	1.7X		1.4s	120.00nm								S	33	52.30		
FNA	88.03	352	eP	11	21.16	0.6	SLR	151.46	326	iPKPd	18	23.80	5.6X	GHO	1.36	145	iPc	33	33.44	0.0	
OUR	88.23	350	eP	11	21.92	0.5		1.3s	170.00nm								eS	33	52.85		
EZN	88.46	348	eP	11	22.10	-0.4	Z	20s	5.33um			6.3Msz		SUA	1.43	183	ePc	33	34.21	-0.2	
KZN	88.47	352	eP	11	24.00	1.3X	PRY	152.84	327	iPKPc	18	26.20	6.0X				eS	33	54.29		
LIT	88.61	351	eP	11	23.56	0.3		1.1s	40.00nm					PLRM	1.47	152	ePc	33	34.05	-0.6	
TPE	88.63	353	eP	11	26.00	2.7X	SEK	154.06	325	iPKPd	18	30.30	8.5X				eS	33	55.25		
PAIG	88.66	350	eP	11	24.08	0.6		0.7s	38.00nm					PMR	1.47	152	ePd	33	33.70	-1.0	
PAB	88.68	12	iP	11	25.00	1.2X	BLF	155.28	327	ePKP	18	18.00	-5.4X	SML	1.51	135	iPc	33	34.84	-0.4	
		IPP			14	48.00	FRS	156.16	328	ePKP	18	36.00	11.6X				eS	33	55.76		
		eS			22	21.00		S.D. = 0.9	on	342 of	484 obs.			PMS	1.72	163	P	33	37.50	-0.5	
LSK	88.72	353	eP	11	25.00	1.1								CRP	1.79	205	eP	33	38.18	-0.8	
ECHE	89.03	9	eP	11	26.13	0.8								CPAM	1.80	205	ePc	33	38.89	-0.2	
ORI	89.07	356	P	11	26.80	1.3X											eS	34	01.61		
KEK	89.22	353	eP	11	27.00	0.8								CP2	1.81	206	eP	33	38.81	-0.5	
IGT	89.36	353	iP	11	27.04	0.2											S	34	01.98		
ROI	89.55	356	P	11	28.00	0.2								NEA	1.82	21	iPc	33	38.48	-0.8	
AGG	89.69	351	iP	11	28.12	-0.4								CKN	1.83	205	ePd	33	39.59	0.1	
IZM	89.74	347	eP	11	28.40	-0.3								BGL	1.84	208	ePc	33	39.69	0.1	
EVIA	89.81	11	eP	11	30.10	1.0								SPU	1.85	203	ePc	33	39.22	-0.5	
ASPA	89.86	230	iPd	11	28.70	-0.6								SCM	1.85	123	ePc	33	38.98	-0.8	
	0.8s	46.00nm			5.8mb												eS	34	02.54		
	Z	22s			2.20um												eS	34	02.54		
		iS			21	58.00											eS	34	02.54		
HYB	90.02	298	ePd	11	29.50	-0.8								CKT	1.86	205	eP	33	39.58	-0.3	
	1.0s	90.00nm			6.0mb									CKL	1.89	207	ePc	33	40.15	-0.1	
		e			11	41.00											eS	34	04.34		
		eS			21	56.00								WRH	1.94	34	iPc	33	39.86	-1.0	
EBAN	90.12	12	eP	11	31.10	0.7											eS				

14d 06h

THY	2.26	74	eP	33	45.89	0.7
MDM	2.32	26	ePc	33	45.17	-0.9
PAX	2.34	86	eP	33	45.96	-0.4
SDG	2.35	97	ePd	33	45.90	-0.5
			eS	34	16.44	
FBA	2.37	30	ePc	33	45.34	-1.2
SLKM	2.40	176	eP	33	46.55	-0.5
MPA	2.48	166	eP	33	47.35	-0.7
RDT	2.48	201	eP	33	48.76	0.6
TTA	2.48	273	iPd	33	47.32	-0.9
DFR	2.51	204	eP	33	48.39	-0.3
GLM	2.54	32	ePc	33	47.91	-1.0
TZL	2.54	107	eP	33	48.36	-0.6
NCT	2.59	207	eP	33	49.03	-0.7
KLU	2.60	121	eP	33	48.01	-1.8
REF	2.61	204	eP	33	50.45	0.4
RDW	2.64	205	eP	33	50.63	0.2
RS2	2.65	204	eP	33	50.76	0.2
RSO	2.65	204	eP	33	50.39	-0.2
RS1	2.65	204	eP	33	50.89	0.3
VLZ	2.67	129	eP	33	49.09	-1.6
SEW	2.65	168	ePd	33	52.41	-0.7
SVW	2.97	235	eP	33	53.63	-1.3
DOT	3.05	73	eP	33	54.80	-1.1
INE	3.08	204	eP	33	56.88	0.4
HIN	3.17	140	eP	33	55.49	-2.1
CVA	3.29	133	eP	33	57.32	-1.9
CNPM	3.39	186	ePc	34	00.02	-0.6
IMA	3.46	339	ePc	34	00.44	-1.3
GLB	3.49	112	ePc	34	00.26	-1.8
			eS	34	39.41	
SGAM	3.51	131	eP	34	01.05	-1.2
PDB	3.56	211	eP	34	02.01	-1.0
MCNL	4.14	208	eP	34	10.94	0.0
CDD	4.24	202	eP	34	12.04	-0.4
TGL	4.25	117	eP	34	10.59	-2.1
BALM	4.31	112	eP	34	10.71	-2.7
FYU	4.35	29	eP	34	12.38	-1.4
SYI	4.38	192	eP	34	13.37	-0.9
CTGM	4.78	110	eP	34	17.26	-2.7
YAH	4.92	117	eP	34	20.54	-1.4

67 obs. associated

% APR 14, 1993 06h 37m 52.90±0.77s
 37.905 N ± 6.1km 29.226 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

KHL	0.48	29	ePg	38	01.40	-1.2
YER	1.07	225	iPg	38	12.00	-1.2
			iSg	38	27.00	
ELL	1.28	155	ePn	38	17.50	0.8
IZM	1.62	288	ePn	38	21.90	0.2
DST	1.76	345	ePn	38	24.00	0.3
BNT	2.65	338	ePn	38	37.00	0.6
YLV	2.66	2	ePn	38	37.00	0.4

S.D. = 1.0 on 7 of 7 obs.

? APR 14, 1993 07h 10m 54.69±1.52s
 5.756 S ± 20.3km 146.576 E ± 18.0km
 DEPTH = 121.1 ± 10.8 km
 4.5mb (2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MDG	0.94	302	iPc	11	16.10	-0.4
LAT	1.00	155	iPd	11	18.40	1.3
PMG	3.67	171	eP	11	49.20	-1.5
			eS	12	33.00	
WB2	18.44	219	iPc	15	02.60	-1.1
	0.6s	17.90nm				4.5mb
			eS	18	39.50	

QLP	20.83	186	eP	15	29.30	0.9
ASPA	21.59	213	eP	15	36.80	0.8
	0.7s	12.80nm				4.4mb
			eS	19	28.70	

BRS	22.31	165	iP	15	49.00	5.9X
DZM	25.14	132	iPd	16	09.70	-0.6
WARB	27.84	221	eP	16	35.40	0.6
SIV	145.13	129	PKP	30	33.00	12.6X
PPD	147.29	148	ePKP	30	27.50	3.7X

S.D. = 1.4 on 8 of 11 obs.

? APR 14, 1993 07h 32m 29.50±6.77s
 60.504 N ± 9.2km 4.906 E ± 57.0km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)

MD 1.7 (BER).

ASK	0.14	98	eP	32	31.08	-1.8
			eSg	32	33.29	
EGD	0.28	146	eP	32	34.42	-1.0
HYA	0.91	43	eP	32	45.66	-1.3
			eSg	32	58.19	
ODD1	1.05	124	eP	32	48.57	-0.7
			eSg	33	02.96	
NRA0	3.28	83	ePn	33	21.95	0.0
			ePg	33	25.58	
			eSg	34	06.19	

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

APR 14, 1993 08h 05m 49.54±0.46s
 26.319 S ± 5.5km 27.230 E ± 6.9km
 DEPTH = 5.0km (geophysicist)
 4.0mb (1 obs.)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.9 (PRE). mbLg 3.9 (BUL).

PRY	0.64	160	iPd	06	01.90	-0.5
			S	06	08.40	
BFS	0.70	215	eP	06	07.20	3.6X
			S	06	16.50	
SLR	1.11	59	iPd	06	11.50	0.6
			S	06	24.00	
SEK	2.03	170	iPd	06	25.90	1.0
			S	06	49.50	
BFT	2.61	77	iPc	06	34.10	0.8
			S	07	03.10	
BLF	2.93	198	iPc	06	38.80	1.0
			S	07	12.00	
FRS	3.81	206	eP	06	50.20	0.0
			S	07	32.00	
BUL	6.28	12	iPn	07	25.60	0.4
			iSn	08	35.00	
			iSg	09	09.00	
CIR	6.62	38	iPn	07	28.30	-1.6
			iSn	08	41.50	
			iSg	09	13.00	

S.D. = 1.2 on 19 of 23 obs.

SUR	8.23	221	iPd	07	51.00	-1.7
			S	09	20.00	
CER	9.83	223	iPd	08	12.50	-2.2
			S	09	56.40	
TUH	9.88	223	eP	08	04.00	-11.2X
			S	09	47.50	
WIN	9.96	290	eP	08	17.00	0.5
			S	10	13.00	
MTD	10.32	24	iPn	08	19.20	-2.2
			iSn	10	12.20	
			iSg	11	07.30	

KIC	44.91	312	P	14	07.60	0.4
TIC	45.30	312	P	14	11.00	0.6
GBA	62.91	57	P	16	19.00	-0.3
GEC2	75.79	351	eP	17	39.70	1.5
	1.1s	1.37nm				4.0mb
GKN	77.20	50	P	18	00.00	13.4X
CNCB	87.21	253	P	18	40.70	1.3
LPB	87.43	253	eP	18	41.00	0.7
ZOBO	87.57	253	P	18	41.00	-0.1
YKA	135.91	336	ePKP	25	07.80	-4.8X
	0.6s	0.30nm				

S.D. = 1.2 on 19 of 23 obs.

APR 14, 1993 08h 31m 09.78±0.43s
 42.904 N ± 6.5km 87.045 E ± 7.8km
 DEPTH = 33.0km (normol)
 4.4mb (13 obs.)
 NORTHERN XINJIANG, CHINA (332)
 ML 4.8 (BJI).

WMO	1.03	27	iPc	31	30.00	2.0
			S	31	44.00	
KSH	9.03	251	P	33	22.00	1.1
GTA	10.24	106	eP	33	35.00	-2.7
	10s	0.32um				
			S	35	35.00	
			SS	35	52.00	
LZH	14.64	112	eP	34	33.00	-3.4X
	1.5s	19.00nm				4.3mb
GUN	14.99	184	P	34	40.20	-1.1
GKN	15.00	188	P	34	41.40	0.3
KKN	15.15	186	P	34	42.80	-0.4
DMN	15.34	187	P	34	45.00	-0.7
HHC	18.36	88	P	35	27.70	4.2X
	1.0s	29.00nm				4.4mb

WMO	1.03	27	iPc	31	30.00	2.0
			S	31	44.00	
KSH	9.03	251	P	33	22.00	1.1
GTA	10.24	106	eP	33	35.00	-2.7
	10s	0.32um				
			S	35	35.00	
			SS	35	52.00	
LZH	14.64	112	eP	34	33.00	-3.4X
	1.5s	19.00nm				4.3mb
GUN	14.99	184	P	34	40.20	-1.1
GKN	15.00	188	P	34	41.40	0.3
KKN	15.15	186	P	34	42.80	-0.4
DMN	15.34	187	P	34	45.00	-0.7
HHC	18.36	88	P	35	27.70	4.2X
	1.0s	29.00nm				4.4mb

WMO	1.03	27	iPc	31	30.00	2.0
			S	31	44.00	
KSH	9.03	251	P	33	22.00	1.1
GTA	10.24	106	eP	33	35.00	-2.7
	10s	0.32um				
			S	35	35.00	
			SS	35	52.00	
LZH	14.64	112	eP	34	33.00	-3.4X
	1.5s	19.00nm				4.3mb
GUN	14.99	184	P	34	40.20	-1.1
GKN	15.00	188	P	34	41.40	0.3
KKN	15.15	186	P	34	42.80	-0.4
DMN	15.34	187	P	34	45.00	-0.7
HHC	18.36	88	P	35	27.70	4.2X
	1.0s	29.00nm				4.4mb

S.D. = 1.2 on 19 of 23 obs.

APR 14, 1993 08h 31m 09.78±0.43s
 42.904 N ± 6.5km 87.045 E ± 7.8km
 DEPTH = 33.0km (normol)
 4.4mb (13 obs.)
 NORTHERN XINJIANG, CHINA (332)
 ML 4.8 (BJI).

XAN	19.24	110	P	35	35.40	1.3
KMI	21.93	139	Pd	36	03.00	0.7
	1.0s	40.00nm				4.8mb
MAIO	22.17	262	eP	36	05.00	0.5
GYA	22.92	129	eP	36	13.60	1.6
KAF	39.87	320	iP	38	42.10	0.5
	0.8s	7.00nm				4.5mb
KAF	39.87	320	eP	38	54.40	12.8X
	0.4s	3.90nm				
FIA0	39.98	319	P	38	43.40	0.9
ARA0	40.70	332	P	38	49.29	1.0
			e	39	33.77	

NUR	40.72	318	eP	38	47.60	-0.9
	0.4s	2.90nm				4.4mb
NUR	40.72	318	eP	39	00.70	12.2X
UPP	44.28	317	iP	39	17.70	0.1
HFS	46.16	318	eP	39	32.20	-0.4
	0.4s	1.30nm				4.3mb

NRA0	47.07	319	P	39	39.40	-0.3
			e	40	16.71	
NB2	47.15	320	P	39	39.70	-0.8
	0.8s	2.90nm				4.3mb
LPG	55.30	303	eP	40	42.60	0.0
	0.5s	5.90nm				4.9mb
LPL	55.30	303	eP	40	42.60	0.1
	0.5s					

SOUTHERN XINJIANG, CHINA (321)						WARB 79.81 136 eP 10 12.50 1.0 S.D. = 1.2 on 42 of 47 obs.						BFD 39.02 232 iPc 08 43.40 1.3 0.8s 14.00nm 4.6mb					
						APR 14, 1993 10h 02m 02.38± 0.27s 17.841 S ± 5.8km 178.744 W ± 5.0km DEPTH = 568.6km (2 depth phases) 5.3mb (34 obs.)						ADE 41.41 237 eP 09 02.30 1.0 WB2 44.32 260 iPc 09 23.10 -1.2 0.5s 17.60nm 4.8mb					
						FIJI ISLANDS REGION (181)						WRA 44.33 260 P 09 24.00 -0.4 0.6s 3.60nm 4.1mb X					
KSH 0.81 307 iPgc 58 22.20 2.7												ASPA 44.50 254 iPd 09 25.30 -0.4 0.6s 113.60nm 5.6mb					

14d 10h

EEO	35.85	10	eP	27	02.00	5.3X
BW06	36.56	333	eP	27	02.04	-0.9
	0.8s	3.73nm		27	10.64	29km
				27	11.46	2.0
HVU	37.35	329	(P)	27	29.20	14.9X
SIV	37.92	135	P	27	26.00	0.6
ULM	39.29	352	eP	27	30.50	3.5X
LMN	39.47	25	eP	27	41.69	2.1
ORV	40.99	319	eP	27	50.03	-0.1
LBFM	42.24	321	eP	27	57.00	-1.6
JAO	43.34	10	eP	28	33.00	1.5
FCC	47.48	356	eP	28	33.50	0.0
BAO	47.64	124	eP	28	54.40	86kmX
				29	19.00	-1.7
FRB	53.97	10	eP	30	24.50	-6.4X
INK	64.10	343	eP	30	48.00	-1.3
	1.0s	2.00nm		30	54.97	-0.7
MBC	66.99	352	eP	32	34.39	-3.9X
	1.0s	3.00nm		39	24.00	0.5
RSO	67.91	331	eP	39	43.00	3.1X
FIN	86.33	46	P	39	46.00	4.6X
WRA	138.72	253	PKP	39	51.00	6.8X
	0.6s	0.70nm		39	54.20	8.8X
HYB	148.29	26	ePKP			
CHG	149.24	348	ePKP			
GBA	151.10	31	PKPd			
NST	151.98	344	ePKP			

S.D. = 1.1 on 33 of 43 obs.

% APR 14, 1993 10h 29m 53.45 ± 0.66s
 44.566 N ± 4.6km 7.219 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

PZZ	0.10	234	P	29	56.47	0.1
			S	29	58.25	
BHB	0.28	7	P	29	59.85	0.6
			S	30	03.88	
STV	0.33	167	P	30	00.27	-0.1
			S	30	04.25	
ENR	0.37	157	P	30	01.04	0.0
			S	30	05.67	
ROB	0.54	120	P	30	04.38	0.0
RSP	0.59	3	P	30	04.75	-0.6
FIN	0.79	116	P	30	09.01	0.1

S.D. = 0.4 on 7 of 7 obs.

APR 14, 1993 10h 32m 06.58 ± 0.26s
 44.242 N ± 2.4km 6.163 E ± 2.5km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.2 (LDG), 2.8 (STR).

GANF	0.31	217	Pg	32	13.21	0.2
			Sg	32	17.84	
VILF	0.51	220	Pg	32	17.41	0.6
TAVF	0.63	187	Pg	32	19.18	-0.1
			Sg	32	28.12	
CALN	0.72	133	Pg	32	20.45	-0.4
PZZ	0.72	68	P	32	20.12	-0.8
			S	32	29.06	
FRF	0.77	153	Pg	32	20.80	-0.7
			Sg	32	31.30	
PUYF	0.78	205	Pg	32	22.92	1.1
			Sg	32	33.41	
LRG	0.80	170	Pg	32	21.50	-0.6
			Sg	32	33.40	
RRL	0.81	33	P	32	22.28	-0.2
			S	32	32.22	
TOUF	0.81	106	Pg	32	21.78	-0.7
DOI	0.82	71	Pc	32	21.60	-0.9
			eSg	32	30.30	
STV	0.83	89	P	32	21.99	-0.8
			S	32	33.18	
TREF	0.84	223	Pg	32	24.13	1.4
BNI	0.89	24	P	32	23.60	-0.1
			eSg	32	34.40	
ENR	0.90	91	P	32	23.45	-0.5
			S	32	35.59	
AURF	0.91	112	Pg	32	23.93	-0.1
LMR	0.94	164	Pg	32	23.80	-0.7
			Sg	32	36.60	
AUTN	0.94	105	Pg	32	24.25	-0.5
BERF	0.99	200	Pg	32	26.47	1.1
			Sg	32	39.79	
BHB	0.99	52	P	32	24.92	-0.4

SBF	0.99	112	Pg	32	25.25	-0.2
REVF	1.00	120	Pg	32	25.84	0.2
GELF	1.01	212	Pg	32	26.71	1.0
			Sg	32	40.99	
SAOF	1.03	104	Pg	32	25.71	-0.4
RSP	1.20	40	P	32	29.27	0.3
ROB	1.23	87	P	32	29.56	0.1
IMI	1.29	104	P	32	30.78	0.3
LPG	1.32	18	Pg	32	31.50	0.3
			Sg	32	48.80	
LPL	1.34	17	Pg	32	31.90	0.5
			Sg	32	49.70	
LSD	1.41	30	P	32	32.50	0.0
CKI	1.53	82	Pc	32	35.10	1.1
			eSg	32	53.00	
PCP	1.73	79	P	32	38.67	1.7
ORO	1.89	42	P	32	40.20	0.9
			eSn	32	00.00	
EMS	1.91	16	iPc	32	40.60	1.0
DIX	2.04	25	ePd	32	43.30	1.7
MMK	2.21	35	ePd	32	46.20	2.1
VAI	2.46	48	P	32	46.50	-0.8
PGF	2.67	128	Pn	32	48.50	-2.0
			Sn	33	18.80	
TMA	2.67	45	ePd	32	52.30	1.7
SMF	2.91	327	Pn	32	53.10	-0.6
			Pg	33	02.50	
			Sn	33	26.50	
			Sg	33	40.20	
CAF	3.01	285	Pn	32	55.00	-0.2
			Sn	33	29.90	
LBF	3.14	332	Pn	32	56.30	-0.8
			Pg	33	05.50	
			Sn	33	31.50	
			Sg	33	45.30	
MAF	3.22	309	Pn	32	57.80	-0.4
			Pg	33	08.40	
			Sn	33	36.40	
			Sg	33	51.60	
AVF	3.23	323	Pn	32	57.80	-0.4
			Pg	33	08.90	
			Sg	33	50.80	
BGF	3.29	316	Pn	32	59.00	-0.2
			Pg	33	09.30	
			Sg	33	54.10	
LLS	3.30	36	ePd	33	01.00	1.5
SSF	3.38	327	Pn	33	00.20	-0.2
			Pg	33	11.10	
			Sn	33	38.90	
			Sg	33	54.70	
LOR	3.43	333	Pn	33	00.80	-0.4
			Pg	33	11.40	
			Sn	33	40.00	
			Sg	33	55.90	
TCF	3.46	308	Pn	33	02.60	1.0
			Pg	33	12.90	
			Sn	33	41.30	
			Sg	33	59.70	
RJF	3.48	289	Pn	33	02.10	0.3
			Sn	33	42.80	
LPO	3.59	279	Pn	33	03.00	-0.4
			Sn	33	44.50	
BSF	3.62	7	Pn	33	01.80	-2.1
			Pg	33	14.20	
			Sg	34	00.00	
OSS	3.72	47	ePd	33	08.30	2.9
HAU	3.77	2	Pn	33	04.20	-1.8
			Pg	33	16.40	
			Sn	33	46.70	
			Sg	34	04.10	
CDF	4.24	10	Pn	33	10.10	-2.7
			Pg	33	25.80	
EPF	4.40	256	Pn	33	13.30	-1.6

S.D. = 1.1 on 56 of 56 obs.

APR 14, 1993 10h 33m 06.37 ± 0.43s
 44.234 N ± 3.3km 6.143 E ± 3.8km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.0 (LDG), 2.4 (STR).

CALN	0.72	132	Pg	33	20.64	-0.1
FRF	0.77	151	Pg	33	21.30	0.0
			Sg	33	30.50	
LRG	0.80	169	Pg	33	22.30	0.5
			Sg	33	33.00	

TOUF	0.83	105	Pg	33	21.68	-0.8
			Sg	33	33.22	
DOI	0.84	71	P	33	21.80	-0.8
			eSg	33	32.00	
BNI	0.90	25	P	33	23.80	0.1
			eSg	33	33.80	
AURF	0.92	112	Pg	33	23.84	-0.2
			Sg	33	36.65	
LMR	0.94	163	Pg	33	24.50	0.2
			Sg	33	36.70	
AUTN	0.96	104	Pg	33	25.51	0.8
SBF	1.00	111	Pg	33	25.90	0.5
			Sg	33	38.30	
REVF	1.01	119	Pg	33	25.84	0.3
			Sg	33	39.55	
SAOF	1.05	103	Pg	33	26.81	0.7
			Sg	33	39.37	
LPG	1.34	19	Pg	33	31.50	0.3
			Sg	33	50.10	
LPL	1.35	18	Pg	33	31.60	0.3
			Sg	33	49.90	
CKI	1.55	82	P	33	34.40	0.4
			eSg	33	53.10	
ORO	1.91	43	P	33	39.00	-0.3
			eSn	34	01.00	
PGF	2.68	128	Pn	33	48.70	-1.7
			Sn	34	18.50	
CAF	3.00	285	Pn	33	54.70	-0.1
			Sn	34	30.20	
LPO	3.58	279	Pn	34	02.90	-0.1
			Sn	34	43.20	

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

% APR 14, 1993 10h 58m 43.40 ± 2.08s
 43.120 N ± 11.1km 18.543 E ± 12.5km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

BRY	0.22	180	iPgc	58	48.65	0.4
			iSg	58	52.26	
NKY	0.45	132	iPgc	58	52.44	-0.2
			iSg	58	59.01	
PLE	0.66	71	iPgc	58	56.50	-0.1
			iSg	59	06.51	
Hcy	0.67	183	ePgc	58	56.46	-0.3
			iSg	59	06.21	
BDV	0.86	166	iPgd	58	59.74	-0.3
			iSg	59	12.27	
TTG	0.87	142	iPgd	58	59.99	-0.1
			iSg	59	12.46	
IVA	1.02	104	iPgd	59	02.90	0.1
			iSg	59	17.95	
PVY	1.18	116	iPgc	59	05.64	0.2
			iSg	59	22.67	
ULC	1.27	155	iPgc	59	07.21	0.2
			iSg	59	25.54	

S.D. = 0.3 on 9 of 9 obs.

* APR 14, 1993 11h 54m 06.40 ± 1.19s
 42.868 N ± 10.1km 24.046 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)

PGB	0.33	164	iPg	54	13.00	-0.3
VTS	0.68	246	iPg	54	19.00	-0.9
PLD	0.90	147	iPg	54	23.00	-0.7
PVL	1.01	69	iPg	54	25.00	-0.4
KKB	1.23	216	iPg	54	29.00	-0.3
RZN	1.28	157	iPg	54	29.00	-1.3
MMB	1.30	191	iPg	54	31.00	0.5
DIM	1.37	126	eP	54	33.00	1.5
KDZ	1.59	140	iP	54	35.00	0.4
VAY	1.90	216	iPn	54	40.00	1.5
SKO	2.13	246	ePn	54	48.00	5.6X

14d 12h

PVL 1.09 56 iPg 20 15.00 -0.1
 DIM 1.21 117 eP 20 18.00 1.0
 KDZ 1.38 134 iPg 20 20.00 0.2
 VAY 1.72 222 ePn 20 26.40 1.7
 JMB 1.84 94 eP 20 27.00 0.5
 SKO 2.07 253 ePn 20 28.00 -1.9

S.D. = 1.2 on 11 of 11 obs.

? APR 14, 1993 12h 49m 59.91±0.91s
 45.952 N ± 8.1km 14.373 E ± 7.2km
 DEPTH = 5.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 MD 2.4 (LJU).

LJU 0.14 51 e(Pg) 50 03.00 0.1
 CEY 0.22 170 e(Pg) 50 04.50 0.2
 VOY 0.34 284 ePg 50 06.80 -0.1
 VBY 0.76 126 e(Pg) 50 15.00 -0.2
 S.D. = 0.3 on 4 of 4 obs.

% APR 14, 1993 12h 52m 48.88±0.79s
 38.832 S ± 4.1km 175.920 E ± 4.7km
 DEPTH = 123.0 ± 9.8 km
 NORTH ISLAND, NEW ZEALAND (159)

NGZ 0.43 216 P 53 07.00 -0.2
 WHH 0.45 97 P 53 06.10 -1.1
 CNZ 0.47 218 P 53 07.20 -0.2
 PATZ 0.52 31 P 53 06.90 -0.7
 UTU 0.69 18 P 53 08.20 -0.5
 TAZ 0.75 38 P 53 08.80 -0.4
 PAHZ 0.89 92 P 53 10.10 -0.3
 WAHZ 0.93 159 Pc 53 11.40 0.6
 MOZ 0.93 290 Pc 53 11.30 0.5
 WLZ 0.99 345 Pd 53 11.80 0.4
 TTH 1.00 135 eP 53 12.40 1.0
 MOH 1.00 108 eP 53 12.60 1.1
 URZ 1.09 59 P 53 11.60 -0.8
 BSZ 1.23 218 P 53 15.10 1.3
 TEHZ 1.35 149 P 53 15.70 0.6
 MAHZ 1.57 104 P 53 18.20 0.5
 NOZ 1.67 83 P 53 18.90 0.1
 PGZ 1.81 171 P 53 20.90 0.4
 MNG 1.82 191 Pc 53 21.00 0.3
 PUZ 1.98 68 P 53 22.50 -0.3
 KUZ 2.09 356 P 53 24.60 0.6
 HBZ 2.24 57 P 53 26.30 0.3
 MTW 2.35 188 P 53 26.90 -0.4
 CAW 2.37 196 P 53 27.40 -0.2
 BLW 2.56 188 P 53 28.70 -1.4
 MRW 2.57 201 P 53 29.80 -0.5
 MOW 2.64 191 P 53 30.40 -0.7
 QRZ 3.28 232 eP 53 39.90 0.2

S.D. = 0.7 on 28 of 28 obs.

? APR 14, 1993 13h 31m 07.75±1.09s
 26.426 S ± 9.2km 27.396 E ± 11.5km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.6 (PRE).

PRY 0.50 172 eP 31 17.50 -0.4
 SLR 1.05 49 eP 31 25.00 -0.1
 SEK 1.90 174 iPc 31 41.80 0.5
 SWZ 2.00 247 eP 31 42.60 -0.1
 BLF 2.88 202 eP 32 01.30 6.0X
 S.D. = 0.7 on 4 of 5 obs.

APR 14, 1993 13h 37m 44.49±0.43s
 41.129 N ± 4.1km 22.422 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.3 (SKO).

GRG 0.17 185 ePg 37 48.66 0.2
 VAY 0.22 30 iSg 37 51.94 0.2
 KNT 0.36 85 ePg 37 52.02 0.1
 THE 0.65 140 iPg 37 56.78 -0.6
 SOH 0.77 113 ePg 37 59.22 -0.3
 FNA 0.86 247 ePg 38 01.10 -0.1
 SRS 0.88 90 iPg 38 01.42 -0.1
 LIT 1.03 177 ePg 38 04.34 0.4
 SKO 1.12 319 ePg 38 05.50 0.0
 OHR 1.23 270 ePg 38 07.05 -0.3
 PAIG 1.54 141 eSb 38 12.30 0.4
 S.D. = 0.3 on 11 of 11 obs.

% APR 14, 1993 13h 44m 15.10±1.72s
 44.610 N ± 8.0km 6.838 E ± 16.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.0 (GEN).

PZZ 0.22 119 P 44 20.21 0.3
 RRL 0.31 353 P 44 21.72 0.0
 BHB 0.38 52 P 44 22.82 -0.1
 STV 0.51 136 P 44 24.97 -0.4
 ENR 0.57 132 P 44 26.80 0.1
 S.D. = 0.4 on 5 of 5 obs.

? APR 14, 1993 13h 49m 56.75±1.20s
 14.614 S ± 50.7km 173.916 W ± 34.1km
 DEPTH = 33.0km (normal)
 4.2mb (5 obs.) 4.4Msz (1 obs.)
 SAMOA ISLANDS REGION (169)

DZM 20.05 245 iPc 54 33.10 2.9
 CMS 40.41 238 eP 57 31.50 -2.1
 STK 44.01 239 eP 58 02.10 -0.9
 WB2 49.53 256 eP 58 47.20 0.5
 WRA 49.54 256 P 58 48.00 1.2
 ASPA 49.89 251 eP 58 49.30 -0.1
 Z 21s 0.40um 4.4Msz
 WARB 56.48 248 eP 59 37.00 -1.2
 BIP 63.52 287 ePc 00 25.00 -1.6
 PV09 80.32 46 ePd 02 05.70 -0.9
 LCCM 82.06 39 eP 02 14.70 -0.7
 GOL 83.47 46 ePc 02 24.50 1.6
 YKA 89.58 24 eP 02 52.20 0.3
 KHC 145.03 351 ePKP 09 33.50 1.1
 GEC2 145.29 351 ePKP 09 49.50 16.6X
 S.D. = 1.6 on 13 of 14 obs.

* APR 14, 1993 13h 55m 00.77±0.75s
 23.791 S ± 9.0km 66.949 W ± 13.7km
 DEPTH = 212.6 ± 8.5 km
 4.2mb (1 obs.)
 JUJUY PROVINCE, ARGENTINA (128)

HJA 1.53 68 iPd 55 36.20 0.1
 SLA 1.62 125 iP 55 37.10 -0.1
 YJA 2.09 40 ePd 55 41.50 -0.5
 FSA 2.44 160 iPd 55 45.10 0.0

CNCB 7.01 352 P 56 43.40 0.9
 LPB 7.30 351 (P) 56 34.00 -12.2X
 ZOBO 7.56 351 P 56 49.20 -0.6
 SIV 9.52 37 P 57 25.00 10.3X
 PPD 14.52 86 eP 58 18.10 0.3
 UYO 63.29 335 iPc 05 08.60 -0.4
 ALQ 69.40 326 eP 05 48.00 0.3
 S.D. = 0.6 on 9 of 11 obs.

? APR 14, 1993 14h 09m 11.56±1.23s
 14.996 N ± 16.4km 93.013 W ± 11.1km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CHIAPAS, MEXICO (69)

SCX 1.77 12 iP 09 40.50 0.2
 IXG 2.61 108 eP 09 53.18 0.7
 YUP 3.21 104 eP 10 00.65 -0.3
 MRL 3.21 88 ePc 10 00.56 -0.5
 OXX 4.13 301 (P) 10 14.00 -0.1
 S.D. = 0.7 on 5 of 5 obs.

% APR 14, 1993 14h 26m 33.56±0.80s
 40.295 N ± 7.4km 29.162 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

YLV 0.32 31 iPg 26 39.90 -0.3
 KCT 0.62 266 iPg 26 45.90 -0.1
 BNT 0.95 274 iPg 26 51.90 0.2
 EDC 0.99 273 ePg 26 52.00 -0.4
 CTT 1.02 327 iPg 26 53.20 0.4
 ALT 1.44 149 ePn 26 59.90 0.1
 S.D. = 0.4 on 6 of 6 obs.

% APR 14, 1993 15h 12m 01.84±0.66s
 40.470 N ± 5.5km 23.519 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

SOH 0.37 340 iPg 12 09.66 0.2
 OUR 0.38 111 ePg 12 15.56 0.4
 PAIG 0.56 167 ePg 12 15.28 0.4
 SRS 0.65 5 ePg 12 14.52 -0.3
 KNT 0.84 326 iPg 12 17.96 0.0
 LIT 0.87 245 ePg 12 18.84 0.3
 S.D. = 0.4 on 6 of 6 obs.

? APR 14, 1993 15h 17m 47.49±1.36s
 39.146 N ± 14.6km 27.407 E ± 47.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM 0.76 189 iPg 18 02.30 0.0
 EDC 1.25 16 iPn 18 13.80 -0.2
 BNT 1.27 18 iPn 18 11.30 0.2
 KCT 1.32 33 ePn 18 11.90 0.0
 S.D. = 0.3 on 4 of 4 obs.

APR 14, 1993 15h 58m 53.86±0.92s
 19.990 N ± 9.0km 62.863 W ± 8.3km
 DEPTH = 10.0km (geophysicist)
 3.9mb (2 obs.)
 LEEWARD ISLANDS (92)
 ML 4.3 (FDF).

CPB 2.54 157 eP 59 36.77 1.1
 NEV 2.85 174 eP 59 38.28 -2.0
 BPA 3.08 162 eP 59 43.10 -0.4
 LPR 3.30 240 P 59 46.50 -0.2
 MGH 3.31 169 eP 59 47.80 1.0
 CPD 3.48 237 P 59 49.70 0.5

14d 15h

PORP 4.06 242 P 01 28.70 59 57.00 -0.3
 PAG 4.10 164 eP 59 58.00 0.0
 S 00 43.00
 MGG 4.31 160 eP 00 00.00 -1.0
 MGP 4.46 244 P 00 02.00 -1.0
 SDV 13.35 215 eP 02 08.40 2.1
 SIV 35.80 177 P 06 09.40 13.9X
 YKA 55.15 334 eP 08 28.00 -0.6
 0.8s 0.70nm 3.7mb
 NB2 65.01 31 P 09 36.80 0.6
 0.7s 0.90nm 4.1mb
 S.D. = 1.2 on 13 of 14 obs.

? APR 14, 1993 16h 07m 33.44±0.96s
 7.533 N ±20.0km 36.223 W ±19.3km
 DEPTH = 10.0km (geophysicist)
 4.1mb (1 obs.)

CENTRAL MID-ATLANTIC RIDGE (406)

BDF 25.79 207 (P) 13 08.00 1.4
 BAO 25.80 207 eP 13 06.00 -0.7
 i 13 08.10
 SIV 33.94 226 P 14 31.40 12.2X
 ZOBO 39.45 233 P 15 05.10 -1.4
 LPB 39.58 233 eP 15 08.00 0.6
 CNCB 39.65 232 eP 15 08.00 -0.1
 BAO 54.52 90 ePc 17 04.10 -0.2
 0.3s 3.00nm 4.8mb X
 YKA 77.99 332 eP 19 33.70 0.4
 0.9s 1.40nm 4.1mb
 S.D. = 1.1 on 7 of 8 obs.

? APR 14, 1993 16h 28m 31.31±1.23s
 12.916 N ±17.0km 146.279 E ±17.3km
 DEPTH = 33.0km (normal)
 4.3mb (3 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUA 1.47 295 Pg 28 56.60 0.9
 eS 29 08.20
 GUMO 1.53 296 Pn 28 56.00 -0.6
 Pg 28 56.60
 eS 29 08.30
 PJG 1.53 296 Pg 28 56.50 -0.1
 WB2 34.70 200 iPc 35 19.00 -1.4
 0.8s 3.40nm 4.3mb
 STK 44.77 186 eP 36 45.00 1.4
 0.5s 2.60nm 4.4mb
 YKA 82.82 28 eP 40 53.20 -0.2
 0.4s 0.50nm 4.0mb
 ZOBO 146.56 100 PKP 48 16.90 5.8X
 LPB 146.58 100 ePKP 48 15.00 4.1X
 CNCB 146.69 101 PKP 48 17.80 6.5X
 e 49 53.00
 S.D. = 1.3 on 6 of 9 obs.

APR 14, 1993 17h 18m 45.31±0.29s
 40.150 N ±4.6km 142.351 E ±5.3km
 DEPTH = 51.2km (9 depth phases)
 4.9mb (55 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ 1.19 206 P 19 06.10 0.2
 S 19 21.50
 ASAJ 3.97 3 P 19 44.70 -0.5
 KAKJ 4.30 204 P 19 48.80 -0.9
 eS 20 38.20
 MAT 4.86 223 iPc 19 59.20 1.5
 0.6s 145.33nm
 (S) 21 15.00
 CHJJ 4.88 214 P 19 58.10 0.1
 MTMJ 5.04 227 P 20 02.30 1.9
 IJDJ 5.84 218 P 20 12.90 1.4
 WKYJ 8.00 224 eP 20 44.50 2.8
 YONJ 8.61 238 P 20 51.50 1.5
 TKSJ 9.05 230 P 20 55.70 -0.3
 MDJ 10.44 299 eP 21 16.20 1.1
 1.0s 30.00nm 5.4mb
 CN2 13.09 292 eP 21 54.40 3.8X
 1.0s 5.80nm 4.4mb
 Z 20s 0.80um 4.2Msz
 eS 24 14.00
 SNY 14.28 283 eP 22 08.80 2.6
 Z 21s 0.98um
 DL2 16.04 272 eP 22 32.00 3.1X
 SSE 19.40 249 eP 23 04.50 -5.4X

SSE 19.40 249 P 23 09.50 -0.4
 1.0s 21.00nm 4.4mb
 Z 20s 0.50um 4.0MszX
 BJL 20.01 278 eP 23 13.00 -3.3X
 1.8s 48.00nm 4.5mb
 Z 20s 0.60um 3.9Msz
 TIA 20.19 267 eP 23 15.00 -2.5
 E 17s 0.99um
 NJ2 20.59 254 Pd 23 21.00 -1.4
 0.8s 26.00nm 4.6mb
 YAK 23.21 345 iPc 23 45.30 -2.8
 1.0s 96.00nm 5.2mb
 e 27 52.00
 TIY 23.35 274 eP 23 48.20 -1.7
 Z 20s 0.62um 4.1Msz
 HHC 23.37 282 P 23 48.00 -2.1
 1.2s 22.00nm 4.5mb
 Z 18s 0.73um 4.2Msz
 BTO 24.57 282 eP 24 01.30 -0.4
 WHN 24.68 256 eP 24 02.00 -0.7
 XAN 27.25 268 P 24 24.40 -2.1
 0.6s 3.90nm 4.2mb
 Z 20s 0.30um 3.9Msz
 sP 24 41.20
 IRK 28.64 308 eP 24 38.10 -0.8
 1.5s 22.00nm 4.6mb
 Z 16s 0.42um 4.1MszX
 LR 35 51.00
 LZH 30.40 275 eP 24 53.50 -1.5
 1.5s 32.00nm 4.8mb
 pP 25 04.00 38kmX
 GTA 32.47 283 eP 25 12.00 -1.0
 1.0s 13.00nm 4.7mb
 CD2 32.52 266 eP 25 11.50 -1.9
 GYA 32.57 256 iPd 25 12.00 -1.2
 1.0s 29.00nm 5.1mb
 KMI 36.25 258 Pd 25 45.50 -0.2
 1.8s 70.00nm 5.3mb
 Z 20s 0.60um 4.4Msz
 WMO 40.17 294 P 26 18.40 0.3
 1.5s 24.00nm 4.8mb
 SVW 42.61 39 eP 26 38.32 0.6
 1.0s 16.10nm 4.7mb
 e 26 51.56 50km
 LSA 42.74 272 eP 26 41.10 1.4
 CHG 42.83 253 ePc 26 40.00 0.0
 1.0s 15.00nm 4.7mb
 BRW 43.27 24 eP 26 42.94 0.0
 e 26 47.44 15kmX
 NST 44.01 249 eP 26 51.50 2.0
 RSO 44.03 40 eP 26 49.43 -0.1
 e 27 02.56 49km
 CRP 44.28 39 eP 26 51.44 0.0
 FBA 46.09 34 P 27 06.00 0.4
 1.0s 10.00nm 4.7mb
 GUN 47.64 273 P 27 18.20 -0.6
 KKN 48.16 274 P 27 22.40 -0.3
 PKI 48.18 273 P 27 22.00 -0.9
 DMN 48.39 273 P 27 24.00 -0.4
 GKN 48.55 274 P 27 25.20 -0.3
 KSH 49.88 292 P 27 32.00 -3.6X
 0.8s 10.00nm 4.9mb
 Z 16s 0.60um 4.7MszX
 INK 51.29 28 eP 27 46.50 0.8
 0.9s 5.00nm 4.5mb
 MBC 53.34 17 eP 28 00.50 -0.4
 1.0s 5.00nm 4.5mb
 HYB 59.06 267 ePc 28 41.20 -1.5
 WB2 60.24 189 eP 28 48.50 -2.1
 0.7s 6.40nm 4.9mb
 WRA 60.25 189 P 28 49.20 -1.4
 0.6s 3.50nm 4.7mb
 QUE 60.75 286 eP 28 54.00 -0.3
 YKA 60.76 31 eP 28 52.00 -1.7
 1.1s 2.40nm 4.2mb
 KEV 60.80 339 eP 28 53.00 -0.9
 1.0s 14.00nm 5.0mb
 GBA 62.22 264 P 29 04.00 -0.1
 SDF 62.43 337 iP 29 04.00 -0.9
 DAG 62.75 355 eP 29 07.60 0.8
 0.9s 10.92nm 5.0mb
 MAIO 62.90 296 eP 29 08.00 -0.5
 ASPA 63.97 189 eP 29 14.20 -1.3
 0.9s 6.00nm 4.6mb
 KAF 65.89 332 iP 29 25.90 -1.5
 0.8s 13.50nm 5.0mb
 OBN 66.05 323 eP 29 28.00 -0.5

1.0s 32.00nm 5.3mb
 Z 16s 0.40um 4.7MszX
 OLP 66.41 178 eP 29 30.10 -0.9
 NEW 67.40 45 eP 29 36.43 -0.9
 0.9s 11.83nm 4.9mb
 e 29 44.95 27kmX
 e 29 50.38
 NUR 67.55 332 eP 29 36.60 -1.4
 0.3s 2.00nm 4.6mb
 UPP 70.48 334 iP 29 55.00 -1.0
 NB2 71.60 337 P 30 01.80 -1.0
 0.9s 14.00nm 4.9mb
 LCCM 71.73 45 eP 30 03.80 -0.2
 e 30 17.90 50km
 FRB 73.58 14 eP 30 13.50 -0.8
 0.8s 10.00nm 4.8mb
 DUG 74.78 50 eP 30 22.39 0.5
 0.6s 2.87nm 4.4mb
 e 30 29.56 23kmX
 e 30 36.19
 SRU 76.83 50 eP 30 33.54 0.0
 e 30 47.38 48km
 VRI 76.83 320 eP 30 35.00 1.8
 OJC 76.86 326 eP 30 33.50 0.2
 CVO 77.14 320 eP 30 37.00 2.1
 SPC 77.44 325 eP 30 36.90 0.2
 MLR 77.48 320 eP 30 34.00 -3.0
 KSP 77.84 328 eP 30 39.50 0.9
 BRG 78.74 330 e(P) 30 44.20 0.6
 CLL 78.76 330 iPc 30 42.90 -0.8
 1.2s 12.00nm 4.7mb
 e 30 56.00 45km
 PRU 79.21 329 eP 30 46.60 0.5
 e 31 02.00 54km
 JMB 79.31 317 eP 30 48.00 1.2
 SRO 79.33 325 iP 30 48.20 1.4
 PVL 79.42 319 eP 30 49.00 1.6
 ZST 79.55 326 eP 30 49.20 1.2
 MOX 79.82 331 eP 30 50.00 0.6
 1.7s 19.00nm 4.7mb
 KHC 80.27 329 P 30 52.50 0.6
 1.0s 5.70nm 4.5mb
 e 31 09.50 61km
 EKA 80.44 341 P 30 53.00 0.4
 0.8s 4.50nm 4.5mb
 GEC2 80.45 328 ePc 30 52.90 0.0
 0.8s 2.94nm 4.3mb
 ed 31 06.20 45km
 PGB 80.49 319 eP 30 54.00 0.8
 KDZ 80.50 317 eP 30 55.00 1.8
 GRF 80.74 330 ePc 30 55.10 0.8
 1.3s 33.00nm 5.1mb
 Z 20s 0.10um 4.2Msz
 e(P) 31 11.70 59km
 RZN 80.84 318 iPd 30 56.00 0.8
 VTS 80.94 319 iPd 30 56.00 0.3
 MMB 81.42 318 iPd 30 59.00 0.9
 KKB 81.54 319 eP 30 59.00 0.3
 RBL 82.42 327 Pc 31 02.60 -0.6
 VBY 82.44 326 eP 31 03.00 -0.3
 CEY 82.62 326 e(P) 31 03.50 -0.7
 CDF 83.26 332 eP 31 07.80 0.2
 0.9s 6.90nm 4.7mb
 BSF 83.93 332 eP 31 10.70 -0.3
 HAU 83.94 332 eP 31 10.80 -0.1
 VAI 84.82 329 Pc 31 14.90 -0.4
 LOR 85.45 333 eP 31 18.70 0.2
 0.9s 14.10nm 5.1mb
 FLN 85.56 336 eP 31 19.00 0.0
 LDF 85.60 336 eP 31 19.80 0.6
 LBF 85.65 333 eP 31 19.60 0.0
 0.9s 9.15nm 5.0mb
 SSF 85.75 333 eP 31 20.30 0.3
 0.9s 11.45nm 5.1mb
 LPL 85.90 330 eP 31 21.50 0.4
 0.9s 13.75nm 5.2mb
 LPG 85.91 330 iPc 31 21.70 0.5
 0.8s 9.80nm 5.1mb
 SMF 85.99 333 eP 31 21.60 0.4
 1.2s 17.25nm 5.1mb
 GRR 86.01 336 eP 31 21.60 0.4
 1.2s 25.60nm 5.3mb
 AVF 86.04 333 iPc 31 21.90 0.5
 0.9s 26.55nm 5.5mb
 LPF 86.38 336 eP 31 23.70 0.6
 1.1s 19.05nm 5.2mb
 BGF 86.41 333 eP 31 23.60 0.3

MAF 86.80 333 iPc 31 26.10 0.9
0.8s 10.05nm 5.1mb
TCF 86.86 334 eP 31 26.20 0.7
LSF 87.13 334 eP 31 27.30 0.5
0.7s 12.25nm 5.2mb
MFF 87.37 335 eP 31 28.70 0.8
1.1s 19.80nm 5.3mb
RJF 87.96 334 eP 31 31.60 0.8
1.1s 11.70nm 5.0mb
CAF 88.10 333 eP 31 32.60 1.1
0.9s 5.90nm 4.8mb
FVM 88.44 39 eP 31 33.55 0.3
0.3s 6.31nm 5.4mb
e 31 39.88 20kmX
e 31 46.65
LFF 88.54 334 eP 31 34.60 1.0
LPO 88.62 333 eP 31 35.20 1.3
EPF 90.36 333 eP 31 43.20 1.0
ZOBO 144.42 57 PKP 38 17.00 -1.5
CNCB 144.91 57 PKP 38 19.60 0.3
SIV 148.46 47 PKP 38 39.40 15.0X
i 38 42.00

S.D. = 1.1 on 120 of 126 obs.

APR 14, 1993 17h 44m 20.82±0.47s
44.555 N ± 4.2km 9.168 E ± 4.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (LDG).

BOB 0.29 43 Pc 44 25.00 -2.0
eSg 44 28.50
PCP 0.45 269 P 44 29.50 -0.4
S 44 36.15
CKI 0.65 259 P 44 34.10 0.3
eSg 44 45.10
FIN 0.77 244 P 44 35.97 0.1
S 44 46.70
ROB 0.97 255 P 44 38.97 -0.3
S 44 52.51
IMI 1.12 235 P 44 41.52 -0.4
S 44 55.81
BDI 1.14 115 P 44 43.80 1.6
ENR 1.30 256 P 44 44.28 -0.6
S 45 00.53
VAI 1.34 348 P 44 45.70 0.2
eSn 45 00.80
STV 1.36 257 P 44 45.38 -0.5
ORO 1.36 322 P 44 45.60 -0.3
eSn 45 01.90
DOI 1.38 269 P 44 48.50 2.4
eSg 45 07.30
BHB 1.39 283 P 44 46.18 -0.1
SBF 1.43 242 Pn 44 46.20 -0.6
Sn 45 05.40
PZZ 1.48 269 P 44 47.95 0.3
RSP 1.48 294 P 44 47.73 0.1
LSD 1.69 303 P 44 51.02 0.3
RRL 1.74 283 P 44 51.74 0.3
LPG 1.96 300 Pn 44 55.50 0.8
PGD 1.96 109 P 44 56.10 1.5
LPL 1.98 300 Pn 44 56.50 1.6
PGF 2.01 184 Pn 44 53.00 -2.3
Sn 45 17.40
FRF 2.07 242 Pn 44 56.20 0.1
Pg 45 00.40
Sn 45 20.50
Sg 45 26.70
LMR 2.28 238 Pn 44 58.20 -0.8
Sn 45 24.10
LRG 2.31 242 Pn 44 59.50 0.1
Sn 45 25.80
BSF 3.67 334 Pn 45 19.50 0.6
Sn 46 00.10
HAU 3.97 331 Pn 45 22.50 -0.5
Sn 46 07.90
CDF 4.07 342 Pn 45 23.10 -1.5
LBF 4.37 306 Pn 45 28.50 -0.3
LOR 4.59 308 Pn 45 31.90 0.0
Sn 46 22.60

S.D. = 1.0 on 30 of 30 obs.

APR 14, 1993 17h 55m 00.64±1.31s
5.180 S ± 9.2km 131.111 E ± 14.9km
DEPTH = 74.0 ± 14.2 km
4.2mb (1 obs.)
BANDA SEA (280)

AAI 3.26 297 ePd 55 53.50 3.0
eS 56 30.30
SWI 4.29 2 iPd 56 03.50 -1.4
iS 56 49.50
MTN 7.62 180 iPc 56 50.40 -0.8
eS 58 10.50
KNA 10.75 192 eP 57 32.30 -1.7
0.2s 44.00nm 6.1mb X
eS 59 25.00
WB2 15.01 168 iPd 58 25.20 -4.9X
ASPA 18.58 172 eP 59 12.90 -1.6
0.3s 65.70nm 5.3mb X
eS 02 28.50
CTA 20.90 136 iPc 59 41.00 1.9
i 59 45.00
WARB 21.32 191 eP 59 44.00 0.6
QLP 24.70 151 eP 00 18.10 1.8
STK 28.32 161 eP 00 49.70 0.2
0.4s 2.50nm 4.2mb
eP 01 14.60 115kmX
eS 06 24.60
BRS 30.23 139 iPc 01 07.00 0.4
GUN 54.62 310 P 04 24.20 -0.4
PKI 54.82 309 P 04 25.00 -1.0
KKN 55.02 309 P 04 26.80 -0.6
DMN 55.07 309 P 04 27.40 -0.4
GKN 55.62 309 P 04 31.20 -0.4
GBA 56.45 290 P 04 38.00 0.5
ZOBO 151.43 139 ePKP 14 51.00 8.2X

S.D. = 1.5 on 16 of 18 obs.

? APR 14, 1993 18h 05m 19.21±2.27s
34.205 S ± 23.9km 70.426 W ± 19.5km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

CHCH 0.33 325 iP 05 34.15 -0.1
iS 05 45.83
PCH 0.59 353 iP 05 36.89 0.1
iS 05 49.01
TACH 0.70 322 iP 05 36.84 0.0
iS 05 50.96
LNV 0.85 287 iP 05 38.44 0.1
iS 05 54.02
FCH 0.88 7 iPd 05 38.94 -0.1
iS 05 54.70
PEL 1.08 348 eP 05 40.72 -0.2
iS 05 57.71
LCCH 1.20 307 iP 05 42.04 -0.1
iS 05 59.61
JACH 1.53 355 iP 05 46.49 0.2
iS 06 07.92

S.D. = 0.2 on 8 of 8 obs.

APR 14, 1993 18h 12m 08.74±2.56s
37.721 S ± 8.1km 178.242 E ± 22.5km
DEPTH = 82.4 ± 23.0 km
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ 0.13 21 P 12 20.30 -0.3
PUZ 0.35 178 Pc 12 21.40 -0.4
S 12 29.30
NOZ 0.91 190 Pd 12 27.90 0.8
URZ 1.04 239 P 12 28.20 -0.5
S 12 40.70
PAHZ 1.47 219 P 12 35.20 1.0
MAHZ 1.49 191 P 12 35.30 0.9
TTH 2.13 211 P 12 43.40 0.4
KUZ 2.24 295 P 12 43.60 -0.8
eS 13 07.70
WAHZ 2.47 216 eP 12 47.00 -0.7
NGZ 2.53 234 P 12 49.00 0.3
CNZ 2.58 234 eP 12 49.60 0.3
PGZ 3.27 207 P 12 56.60 -2.1
WCZ 3.60 298 eP 13 03.40 0.2
MNG 3.60 216 eP 13 00.70 -2.6X
S 13 39.70
MTW 4.04 211 eP 13 05.60 -3.8X
KIW 4.06 218 eP 13 06.70 -3.1X
CAW 4.18 215 P 13 07.60 -3.9X
BLW 4.22 210 eP 13 08.60 -3.4X
MOW 4.36 211 eP 13 09.90 -4.0X
OUZ 4.50 302 eP 13 16.70 0.8

S.D. = 1.0 on 14 of 20 obs.

APR 14, 1993 18h 18m 08.24±0.51s

26.349 S ± 5.4km 27.407 E ± 7.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.9 (PRE). mbLg 2.9 (BUL).

PRY 0.58 174 iPd 18 19.50 -0.4
S 18 26.20
BFS 0.78 225 iPc 18 24.90 0.9
iS 18 35.40
SLR 1.00 52 iPd 18 28.10 0.4
S 18 41.00
SEK 1.98 174 eP 18 43.20 0.3
S 19 07.10
SWZ 2.04 246 eP 18 44.10 0.4
S 19 08.30
BFT 2.46 75 eP 18 50.50 0.6
S 19 14.50
BLF 2.95 201 eP 18 56.00 -0.8
S 19 34.50
FRS 3.86 208 e(P) 19 09.10 -0.4
BUL 6.28 10 iPn 19 43.70 -0.2
iSn 20 51.00
iSg 21 24.00
MTD 10.28 23 iPn 20 38.90 -0.7
eSn 22 29.00
iSg 23 29.00

S.D. = 0.7 on 10 of 10 obs.

APR 14, 1993 19h 07m 34.14±0.81s
33.265 S ± 5.7km 70.303 W ± 7.5km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

FCH 0.06 170 iPd 07 36.48 -0.3
iS 07 39.97
PEL 0.34 291 iP 07 42.09 0.9
iS 07 49.71
PCH 0.40 206 iP 07 42.23 -0.1
iS 07 50.35
JACH 0.63 337 iP 07 45.14 -1.7
iS 07 55.34
TACH 0.66 234 iP 07 47.56 0.3
iS 07 59.34
CHCH 0.73 204 iP 07 47.68 -0.8
iS 07 59.69
LCCH 1.08 258 iP 07 54.94 0.5
iS 08 12.63
LNV 1.15 233 iP 07 55.58 -0.1
iS 08 13.77
CFA 2.40 47 eP 08 15.30 1.1
S 08 44.40

S.D. = 1.0 on 9 of 9 obs.

APR 14, 1993 19h 16m 46.50±0.75s
6.766 N ± 7.7km 72.922 W ± 9.9km
DEPTH = 166.3 ± 9.9 km
4.5mb (3 obs.)
NORTHERN COLOMBIA (99)

BOG 2.41 208 iPd 17 28.00 -0.2
iS 17 59.00
SDV 3.09 47 iPnc 17 37.80 1.4
iSn 18 15.60
CEOS 5.07 63 iPd 18 01.80 -0.2
eS 18 57.20
MORO 6.11 48 eP 18 15.30 -0.5
GUAC 6.54 58 iPd 18 21.80 0.2
OLLA 6.86 61 eP 18 25.40 -0.4
PSO 7.07 219 eP 18 23.50 -5.4X
LLAV 7.08 58 eP 18 28.10 -0.6
ZOBO 23.37 168 P 21 42.00 0.0
i 22 15.70
LPB 23.64 168 P 21 39.00 -5.3X
CNCB 23.93 168 P 21 47.70 0.4
i 22 22.00
SIV 25.47 153 P 22 14.00 13.0X
FVM 34.90 335 ePd 23 23.62 -0.3
0.5s 18.13nm 5.0mb
LMN 39.57 9 eP 24 06.50 3.7X
ULM 47.40 340 eP 25 07.00 1.3
MSU 47.48 318 eP 25 06.57 -0.2
BW06 48.24 324 ePc 25 11.68 -0.9
1.0s 3.40nm 3.9mb
FCC 54.37 347 eP 25 59.00 1.1
YKA 63.38 340 eP 26 58.20 -1.8
0.5s 3.40nm 4.5mb

14d 19h

INK 73.15 340 eP 28 01.00 0.9
 ASPA 149.24 234 iPKPc 36 16.40 3.3X
 0.7s 7.60nm
 WB2 150.47 241 iPKPd 36 19.00 4.8X
 0.3s 9.90nm
 WRA 150.48 241 PKP 36 20.20 5.2X
 0.6s 2.00nm
 S.D. = 0.9 on 16 of 23 obs.

APR 14, 1993 20h 04m 09.99±0.27s
 26.519 N ± 5.2km 96.479 E ± 3.6km
 DEPTH = 22.8km (2 depth phases)
 4.6mb (38 obs.) 4.1Msz (1 obs.)
 MYANMAR (296)

SHL 4.24 258 iPn 05 16.00 1.0
 eSn 06 07.00
 LSA 5.67 305 P 05 37.00 2.3
 Z 11s 2.28um
 S 06 40.00
 KMI 5.81 102 eP 05 39.00 1.8
 Z 10s 3.40um
 CD2 7.74 54 eP 06 05.00 0.8
 Z 10s 2.37um
 E 10s 2.60um
 S 07 32.00
 CHG 8.00 163 ePnd 06 07.50 -0.3
 eSg 08 27.50
 GYA 9.13 88 iPd 06 23.80 0.3
 1.2s 68.00nm
 Z 12s 1.77um
 N 11s 0.61um
 E 11s 1.19um
 S 08 05.00
 BDT 9.52 165 eP 06 24.00 -4.8X
 GUN 9.54 281 P 06 27.20 -2.2
 PKI 9.92 279 P 06 32.20 -2.5
 KKN 10.05 280 P 06 34.00 -2.4
 DMN 10.20 279 P 06 35.60 -2.7
 GKN 10.64 281 P 06 41.60 -2.7
 NST 11.32 162 eP 06 55.00 1.6
 LZH 11.42 32 eP 06 54.00 -1.0
 1.5s 100.00nm
 pP 06 58.00
 XAN 13.10 52 P 07 14.20 -3.2X
 1.0s 14.00nm
 Z 12s 0.93um
 N 10s 0.52um
 E 10s 0.46um
 pP 07 20.40
 eS 09 44.00
 GTA 13.16 11 eP 07 16.00 -2.2
 Z 10s 2.88um
 E 12s 1.31um
 QIZ 14.40 118 P 07 34.50 0.1
 GZH 15.69 99 P 07 52.40 1.1
 WHN 16.21 72 eP 07 57.00 -0.9
 Z 12s 1.81um
 N 10s 0.90um
 E 12s 1.46um
 TIY 17.50 46 eP 08 12.60 -1.6
 Z 13s 0.96um
 E 10s 0.46um
 S 11 28.50
 BTO 17.98 35 eP 08 19.00 -1.2
 N 11s 0.83um
 E 11s 0.71um
 eS 11 42.00
 WMO 18.68 340 P 08 29.60 0.9
 1.0s 35.00nm
 Z 10s 0.57um
 N 10s 0.62um
 pP 08 31.60
 PP 08 45.20
 HYB 18.91 245 ePc 08 31.50 -0.2
 1.0s 25.00nm
 eS 11 53.00
 HHC 18.98 37 P 08 31.20 -1.3
 1.4s 31.00nm
 NJ2 20.27 69 Pd 08 45.80 -0.9
 1.2s 22.00nm
 Z 11s 1.26um
 E 10s 1.55um
 BJI 21.22 46 eP 08 56.00 -0.4
 1.3s 40.00nm
 Z 12s 0.60um
 N 12s 0.37um

KSH 21.43 312 P 09 00.00 1.2
 1.0s 20.00nm
 Z 14s 1.19um
 N 10s 0.54um
 E 10s 0.64um
 pP 09 07.00 25km
 sP 09 11.00
 S 12 54.00
 IPcP 13 03.00
 sS 13 10.00
 GBA 21.98 238 P 09 05.00 0.8
 SSE 22.11 72 Pc 09 04.50 -0.9
 1.0s 19.00nm
 Z 10s 1.40um
 eS 13 02.00
 IPM 22.25 168 ePc 09 08.00 1.1
 DL2 24.41 53 eP 09 30.00 2.1
 QUE 26.21 285 eP 09 46.00 0.9
 e(S) 14 32.00
 IRK 26.39 11 eP 09 46.90 0.5
 1.6s 31.00nm
 Z 10s 0.54um
 e 10 06.00
 e 14 44.00
 LR 19 50.00
 SNY 26.98 49 eP 09 50.90 -0.9
 Z 12s 0.60um
 eS 14 22.00
 CN2 29.09 46 eP 10 11.50 0.6
 0.8s 4.80nm
 Z 12s 0.48um
 N 10s 0.24um
 E 10s 0.24um
 eP 10 17.30 20km
 MDJ 32.13 47 eP 10 36.70 -1.1
 MAIO 32.87 296 eP 10 45.00 0.5
 MAT 36.70 64 eP 11 18.00 0.8
 0.8s 5.97nm
 KAF 57.67 328 eP 14 02.00 1.4
 VRI 57.70 309 ePd 14 02.00 0.9
 CVO 58.09 309 eP 14 07.00 3.1X
 SDF 58.16 335 iP 14 04.00 -0.1
 KEV 58.29 337 eP 14 07.00 2.1
 MLR 58.29 309 ePc 14 06.00 0.6
 NUR 58.39 326 eP 14 05.90 0.2
 0.4s 0.90nm
 WRA 59.01 138 P 14 09.90 -0.6
 1.0s 12.90nm
 WB2 59.02 138 iPc 14 08.90 -1.7
 1.1s 15.60nm
 ASPA 61.63 141 eP 14 27.30 -1.1
 0.8s 10.80nm
 SPC 61.64 314 eP 14 28.00 -0.4
 UPP 61.91 326 iP 14 31.50 1.7
 ZST 63.86 313 eP 14 45.80 2.9
 KSP 63.88 316 eP 14 42.00 -1.0
 NB2 64.92 328 P 14 48.60 -1.1
 0.7s 2.00nm
 PRU 65.15 315 eP 14 52.00 0.7
 e 14 55.30
 VBY 65.68 310 eP 14 55.00 0.3
 CLL 65.82 317 eP 14 54.00 -1.5
 GEC2 65.93 314 ePd 14 56.10 -0.4
 1.1s 10.17nm
 e 15 00.00
 KHC 65.95 314 eP 14 56.80 0.3
 e 15 00.50
 CEY 66.19 311 e(P) 14 57.00 -1.0
 VOY 66.48 311 e(P) 14 59.00 -1.0
 MOX 66.83 316 e(P) 15 06.20 4.2X
 GRF 67.31 315 eP 15 05.00 -0.1
 Z 19s 0.10um
 e 15 10.00
 CDF 70.16 315 eP 15 22.80 0.0
 WLF 70.47 316 iPd 15 27.24 2.7
 1.1s 22.30nm
 HAU 70.87 315 eP 15 27.20 0.1
 LPG 71.42 312 eP 15 31.10 0.3
 0.8s 9.40nm
 LPL 71.42 312 eP 15 31.10 0.3
 0.8s 14.90nm
 STK 72.27 141 eP 15 32.90 -2.7
 0.7s 1.70nm
 LOR 72.70 315 eP 15 38.70 0.6
 LBF 72.73 314 eP 15 38.90 0.7
 SMF 72.93 314 eP 15 39.40 0.0
 0.8s 7.40nm

SSF 73.00 314 eP 15 39.90 0.1
 1.0s 15.00nm
 AVF 73.20 314 eP 15 41.00 0.1
 0.9s 7.70nm
 IMA 73.66 24 eP 15 42.43 -1.0
 0.6s 1.24nm
 EKA 73.82 324 P 15 49.00 4.7X
 0.9s 4.20nm
 MAF 73.91 314 eP 15 45.70 0.6
 0.9s 5.40nm
 TCF 74.11 314 eP 15 46.80 0.5
 0.9s 8.20nm
 LDF 74.71 317 eP 15 49.80 0.2
 0.8s 7.10nm
 CAF 74.72 313 eP 15 50.50 0.7
 0.9s 6.20nm
 FLN 74.86 317 eP 15 51.60 1.1
 RJF 74.93 313 eP 15 51.90 0.9
 1.1s 14.40nm
 MBC 75.09 8 eP 15 51.00 -0.3
 1.0s 3.00nm
 GRR 75.24 317 eP 15 53.00 0.3
 0.8s 10.35nm
 LPO 75.39 313 eP 15 55.40 1.8
 LPF 75.49 317 eP 15 54.70 0.6
 MFF 75.50 315 eP 15 55.60 1.4
 LFF 75.58 313 eP 15 56.40 1.7
 FBA 76.36 23 eP 15 58.29 -0.5
 0.9s 5.00nm
 BCAA 77.25 269 ePc 16 03.10 -1.5
 0.9s 5.00nm
 ic 16 05.90
 PMR 77.70 26 eP 16 05.53 -0.6
 0.8s 9.07nm
 INK 78.57 17 eP 16 12.00 1.1
 1.0s 4.00nm
 KLU 79.02 26 eP 16 12.92 -0.6
 YKA 87.88 14 eP 16 57.20 -1.4
 0.8s 2.40nm
 BDF 145.17 281 iPKPd 23 47.80 -0.4
 BAO 145.23 281 ePKP 23 47.00 -1.3
 e 23 50.00
 PPD 150.35 272 (PKP) 24 02.00 5.8X
 S.D. = 1.3 on 90 of 96 obs.

? APR 14, 1993 20h 51m 28.73±5.05s
 41.661 N ± 35.0km 22.853 E ± 14.7km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)

KNT 0.50 176 iPg 51 38.74 -0.1
 eSg 51 46.30
 SRS 0.78 134 ePg 51 43.34 -0.6
 eSg 51 54.18
 GRG 0.78 206 ePg 51 43.86 -0.1
 eSg 51 55.62
 SOH 0.92 156 ePg 51 46.74 0.4
 eSg 51 59.82
 OUR 1.58 147 iPb 51 57.18 0.4
 eSb 52 20.62
 S.D. = 0.6 on 5 of 5 obs.

* APR 14, 1993 21h 23m 13.96±0.82s
 26.868 S ± 8.0km 26.765 E ± 7.4km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.2 (PRE). mbLg 3.1 (BUL).

BFS 0.04 149 iPd 23 15.50 0.2
 S 23 15.90
 PRY 0.64 96 iPc 23 26.10 -0.6
 S 23 37.50
 SWZ 1.32 256 eP 23 38.40 -0.6
 S 23 53.10
 SEK 1.64 152 eP 23 44.50 0.8
 S 24 04.00
 SLR 1.77 51 iPd 23 46.20 0.6
 S 24 18.50
 BLF 2.29 193 iPc 23 52.00 -1.1
 S 24 20.50
 FRS 3.14 204 iPd 24 03.50 -1.5
 S 24 39.10
 BFT 3.17 69 eP 24 14.00 8.3X
 S 24 48.20
 BUL 6.91 15 ePn 24 58.10 -0.4
 iSn 26 12.30
 iSg 26 48.50

15d 00h

LCI 2.62 313 P 32 57.90 -0.8
 eSn 33 43.10
 ATH 2.64 102 ePn 33 01.30 2.4
 VLI 2.70 132 ePb 33 04.80 4.9X
 TIR 2.81 351 ePn 33 02.00 0.6
 GRG 2.82 32 ePn 33 01.72 0.2
 THE 2.83 42 ePn 33 01.40 -0.3
 PAIG 2.85 61 ePn 33 02.08 0.1
 PHP 3.11 360 ePn 33 05.60 -0.1
 LACI 3.12 350 iPnd 33 05.40 -0.3
 SOH 3.17 44 ePn 33 06.28 -0.3
 ROI 3.19 290 P 33 07.70 0.9
 VAY 3.19 30 iPn 33 06.30 -0.5
 OUR 3.25 56 ePn 33 07.40 -0.2
 TDS 3.38 290 P 33 13.10 3.6X
 BRT 3.41 314 P 33 10.00 0.1
 eSn 34 07.00

ORI 3.45 297 P 33 12.10 1.7
 SKO 3.48 12 iPn 33 10.50 -0.4
 MMN 3.71 292 P 33 14.50 0.3
 MGR 4.11 294 P 33 21.60 1.8
 SGO 4.45 298 P 33 26.10 1.5
 HVAR 5.52 328 eP 33 37.00 -2.7
 DUI 5.54 306 P 33 40.70 0.5
 SDI 5.97 304 P 33 47.60 1.3
 AQU 6.57 307 P 33 55.00 0.3
 ASS 7.43 310 P 34 05.00 -1.7
 ARV 7.52 313 P 34 06.10 -1.8
 VBY 7.94 333 eP 34 11.00 -2.7
 RSM 8.06 314 P 34 13.70 -1.8
 CRE 8.17 311 P 34 17.40 0.3
 SFI 8.40 312 P 34 19.40 -0.8
 CEY 8.45 330 e(P) 34 17.80 -3.1X
 e 34 28.00
 VOY 8.90 329 e(P) 34 23.70 -3.5X
 NB2 23.23 349 P 37 22.20 -1.3
 0.6s 0.40nm 3.1mb
 S.D. = 1.3 on 40 of 45 obs.

% APR 15, 1993 00h 56m 47.99±1.15s
 39.798 N ± 5.9km 22.193 E ± 13.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

LIT 0.38 37 ePg 56 55.00 -0.8
 eSg 57 02.24
 AGG 0.78 172 ePg 57 03.00 -0.2
 eSg 57 15.80
 THE 1.02 35 ePg 57 06.96 -0.3
 PAIG 1.15 83 ePb 57 09.96 0.4
 eSb 57 26.84
 GRG 1.17 8 ePg 57 09.80 0.0
 SOH 1.35 41 ePb 57 13.24 0.3
 eSb 57 33.04
 KNT 1.46 21 ePb 57 15.24 0.8
 SRS 1.70 39 ePb 57 17.56 -0.2
 S.D. = 0.6 on 8 of 8 obs.

? APR 15, 1993 01h 48m 27.35±0.96s
 68.075 N ± 11.8km 18.676 W ± 12.9km
 DEPTH = 10.0km (geophysicist)
 3.8mb (3 obs.)
 ICELAND REGION (637)

AKU 2.41 174 iPc 49 07.60 0.2
 1.1s 101.27nm
 SLL 15.66 104 eP 52 14.30 5.0X
 0.9s 8.40nm 4.0mb
 SDF 16.80 71 iP 52 24.00 0.3
 CLL 22.77 122 iP 53 29.80 -0.7
 e 53 40.00
 GEC2 25.14 124 eP 53 53.90 0.3
 1.2s 2.10nm 3.7mb
 e 54 00.10
 e 54 02.60
 e 54 04.30
 e 54 07.10
 YKA 36.60 309 eP 55 34.70 0.0
 0.9s 1.30nm 3.7mb
 S.D. = 0.6 on 5 of 6 obs.

APR 15, 1993 02h 58m 50.89±0.55s
 34.636 N ± 6.8km 141.573 E ± 6.4km
 DEPTH = 33.0km (normal)
 4.3mb (8 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 1.94 324 P 59 22.10 0.0
 S 59 48.70
 CHJJ 2.54 304 P 59 29.50 -1.1
 IIDJ 3.12 287 P 59 39.30 0.4
 MTMJ 3.63 303 P 59 46.90 0.6
 YAMJ 3.74 341 P 59 47.60 -0.1
 OFUJ 4.44 1 P 59 55.50 -2.1
 S 00 44.80
 TSRJ 4.67 283 P 00 01.50 0.6
 WKYJ 4.96 267 P 00 04.90 -0.2
 AOMJ 5.99 351 eP 00 19.50 0.0
 TKSJ 6.26 266 eP 00 23.80 0.4
 YONJ 6.69 277 P 00 30.60 1.3
 MRRJ 7.79 357 eP 00 42.70 -2.0
 HOOJ 7.85 9 eP 00 41.50 -4.1X
 eS 02 04.20
 KUSJ 8.80 15 eP 00 54.00 -4.7X
 eS 02 25.60

ASAJ 9.51 5 eP 01 04.40 -4.1X
 MDJ 13.57 321 eP 02 03.10 -0.2
 CN2 15.47 311 eP 02 29.00 0.9
 Z 13s 0.60um
 XAN 26.91 278 eP 04 38.20 7.3X
 Z 15s 0.47um 4.2mszX
 WB2 54.71 188 eP 08 17.20 -2.1
 0.9s 5.60nm 4.6mb
 WRA 54.71 188 P 08 17.90 -1.4
 0.7s 3.30nm 4.5mb
 INK 56.47 26 eP 08 33.00 1.6
 ASPA 58.44 188 iPd 08 45.10 -0.7
 0.7s 5.10nm 4.7mb
 MBC 58.79 16 eP 08 48.00 0.3
 GBA 61.19 267 P 09 05.00 0.1
 YKA 65.82 30 eP 09 34.40 -0.3
 0.6s 0.30nm 3.6mb
 HFS 76.32 336 eP 10 36.80 -1.1
 0.4s 0.70nm 4.0mb
 NB2 76.45 338 P 10 38.20 -0.5
 0.6s 0.40nm 3.6mb
 FRB 79.07 13 eP 10 53.50 0.6
 0.6s 3.00nm 4.5mb
 p 11 05.00 38kmX
 BW06 79.25 45 (P) 10 56.29 1.6
 1.6s 3.95nm 4.2mb
 SRU 80.89 49 eP 11 05.03 1.6
 PV09 82.13 48 (P) 11 12.00 2.0
 ZOBO 147.72 63 PKP 18 35.00 3.0X
 LPB 147.91 63 ePKP 18 39.00 6.9X
 CNCB 148.17 64 PKP 18 38.00 5.3X
 S.D. = 1.2 on 27 of 34 obs.

% APR 15, 1993 03h 02m 23.44±0.85s
 46.488 N ± 9.8km 5.714 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.0 (LDG).

LPG 1.23 143 Pg 02 46.50 0.0
 Sg 03 00.10
 LBF 1.29 293 Pg 02 47.50 0.1
 Sg 03 04.00
 SMF 1.30 278 Pg 02 47.20 -0.3
 Sg 03 04.10
 LOR 1.49 302 Pg 02 50.70 0.4
 Sg 03 09.10
 HAU 1.58 16 Pg 02 51.40 -0.1
 Sg 03 11.00
 S.D. = 0.4 on 5 of 5 obs.

* APR 15, 1993 03h 16m 32.84±0.69s
 29.657 N ± 14.5km 139.259 E ± 13.0km
 DEPTH = 33.0km (normal)
 4.2mb (4 obs.)
 SOUTH OF HONSHU, JAPAN (211)

CHG 38.14 263 eP 23 52.50 1.6
 GUN 46.47 282 P 24 59.00 -0.1
 PKI 46.96 281 P 25 02.00 -1.0
 KKN 47.01 282 P 25 03.20 -0.1
 DMN 47.21 281 P 25 04.60 -0.3
 GKN 47.50 282 P 25 07.00 -0.1
 WB2 49.54 186 eP 25 22.20 -0.3
 0.4s 2.10nm 4.5mb
 WRA 49.54 186 P 25 22.90 0.4
 0.4s 0.60nm 4.0mb
 FBA 56.35 29 eP 26 15.00 2.3
 INK 61.79 25 eP 26 51.50 1.2

0.5s 2.00nm 4.5mb
 MBC 64.10 15 eP 27 05.00 -0.4
 YKA 71.11 28 eP 27 47.70 -1.9
 0.5s 0.40nm 3.7mb
 LCCM 81.07 42 eP 28 45.00 -1.2
 S.D. = 1.3 on 13 of 13 obs.

? APR 15, 1993 04h 32m 42.90±3.20s
 34.797 S ± 26.7km 70.302 W ± 11.1km
 DEPTH = 10.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 4.0 (SAN).

CHCH 0.91 341 iP 32 59.71 -0.6
 iS 33 13.71
 PCH 1.19 351 iP 33 04.36 -0.7
 iS 33 22.32
 LNV 1.24 312 iP 33 05.34 -0.6
 iS 33 23.42
 TACH 1.26 335 iP 33 05.78 -0.5
 iS 33 24.27
 FCH 1.47 0 iPd 33 09.60 -0.1
 iS 33 31.40
 PEL 1.68 349 iP+ 33 13.09 0.6
 iS 33 37.36
 LCCH 1.69 321 iP 33 13.03 0.5
 iS 33 36.84
 JACH 2.12 353 eP 33 21.02 2.0
 iS 33 50.52
 TCA 5.91 56 e(P) 34 12.00 -0.6
 S.D. = 1.1 on 9 of 9 obs.

% APR 15, 1993 04h 52m 09.46±0.78s
 41.848 N ± 6.5km 16.296 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

BRT 1.19 145 P 52 31.50 -0.1
 eSg 52 48.40
 HVAR 1.33 5 ePn 52 34.10 0.1
 iSn 52 53.60
 DUI 1.39 263 P 52 34.80 -0.1
 eSg 52 51.50
 SGO 1.49 210 P 52 36.00 0.4
 eSn 52 56.00
 MGR 1.80 198 P 52 40.60 -0.1
 SDI 1.86 266 P 52 41.60 -0.1
 eSn 53 03.10
 S.D. = 0.3 on 6 of 6 obs.

? APR 15, 1993 04h 53m 42.99±2.94s
 51.435 N ± 57.2km 168.674 W ± 33.5km
 DEPTH = 33.0km (normal)
 3.7mb (4 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

CRP 13.41 36 eP 56 52.86 -0.4
 KLU 16.02 42 eP 57 25.38 -1.8
 FBA 17.29 31 (P) 57 42.00 -0.3
 1.2s 3.00nm 3.3mb
 INK 23.90 32 eP 58 58.50 4.4X
 0.5s 2.00nm 3.9mb
 YKA 30.54 48 eP 59 56.20 1.1
 0.7s 0.50nm 3.4mb
 MBC 31.26 20 eP 00 03.50 2.3
 NB2 67.88 0 P 04 40.10 0.4
 0.6s 0.80nm 4.0mb
 GUN 77.55 299 P 05 37.00 -0.5
 KKN 77.97 299 P 05 39.20 -0.5
 GKN 78.15 300 P 05 40.20 -0.4
 S.D. = 1.3 on 9 of 10 obs.

& APR 15, 1993 05h 09m 12.45s
 57.644 N 152.934 W
 DEPTH = 44.2km
 KODIAK ISLAND REGION (13)
 <AEIC>. ML 2.9 (AEIC).

KDC 0.26 66 iPc 09 19.79 -0.9
 eS 09 25.53
 SYI 1.01 16 iP 09 29.37 -1.0
 CDD 1.34 344 eP 09 34.15 -1.0
 MCNL 1.71 335 iP 09 39.12 -1.2
 AUL 1.72 352 eP 09 39.69 -0.7
 AUE 1.74 353 eP 09 40.25 -0.4
 AUL 1.76 352 eP 09 40.39 -0.6
 XLV 1.92 19 eP 09 42.96 -0.4

CNPM	2.09	25	iP	09 44.60	-1.0
			eS	10 08.56	
PDB	2.25	344	iP	09 46.10	-1.8
			eS	10 11.32	
BRLK	2.38	26	eP	09 48.24	-1.6
			eS	10 14.51	
INE	2.43	358	eP	09 49.00	-1.6
INW	2.43	358	eP	09 48.91	-1.8
RS1	2.83	2	eP	09 54.66	-1.7
RS2	2.83	2	eP	09 54.69	-1.7
RSO	2.83	2	eP	09 54.59	-1.8
RDW	2.85	1	eP	09 55.00	-1.7
RDN	2.88	2	eP	09 55.44	-1.6
NCT	2.93	0	iP	09 55.78	-1.9
RDT	2.95	5	eP	09 56.28	-1.7
DFR	2.96	2	iP	09 56.23	-1.9
SEW	3.06	35	eP	09 56.88	-2.6
SLKM	3.20	25	iP	09 58.80	-2.7
NKA	3.23	15	eP	10 01.49	-0.4
MPA	3.40	31	iP	10 01.74	-2.5
CKL	3.58	5	eP	10 04.39	-2.5
SPU	3.58	7	iP	10 04.48	-2.4
CKT	3.59	6	eP	10 04.60	-2.5
CKN	3.61	6	eP	10 05.44	-1.9
BGL	3.64	4	eP	10 05.55	-2.3
CPAM	3.65	6	eP	10 06.01	-1.9
CP2	3.65	5	eP	10 05.32	-2.7
CRP	3.66	6	eP	10 05.24	-2.9
SVW	3.74	340	eP	10 04.15	-5.0
PTE	3.80	30	eP	10 07.08	-2.9
SUA	3.99	15	eP	10 10.32	-2.5
PMS	4.00	24	P	10 09.80	-3.1
HIN	4.32	48	eP	10 14.20	-3.2
PLRM	4.41	24	eP	10 14.93	-3.6
PMR	4.41	24	(P)	10 12.98	-5.5
SKT	4.41	9	eP	10 15.38	-3.2
KLU	5.25	40	eP	10 23.80	-6.8
MBC	22.21	21	eP	14 07.00	1.1

43 obs. associated

& APR 15, 1993 05h 20m 29.90s
45.540 N 111.703 W
DEPTH = 6.4km
MONTANA (456)
<BUT>. ML 2.8 (BUT). Felt at
Norris.

LCCM	0.32	338	iPc	20 36.22	-0.3
BGMT	0.39	218	iPc	20 37.33	-0.5
MEMT	0.52	83	iPc	20 39.48	-0.9
HBMT	0.68	292	iPc	20 42.89	-0.7
SXM	0.70	29	iPd	20 43.29	-0.7
BUT	0.77	308	eP	20 44.48	-0.8
			iS	20 54.70	
TPMT	0.81	178	ePd	20 44.96	-1.2
MCMT	1.08	229	iPnc	20 49.88	-0.8
HRY	1.18	356	ePc	20 51.57	-0.7
BW06	3.16	150	ePn	21 23.84	2.5
			ePg	21 25.60	
EBI	3.33	295	ePnc	21 23.06	-0.6
DAU	5.14	176	(Pn)	21 49.33	-0.1
			ePg	22 02.96	
RSSD	5.63	102	(Pn)	21 56.36	0.0
			S	23 19.48	

13 obs. associated

? APR 15, 1993 05h 57m 19.06±3.85s
32.074 S ±21.0km 71.918 W ±28.2km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.8 (SAN).

JACH	1.27	119	eP	57 39.93	-0.8
			iS	57 57.05	
LCCH	1.43	168	iP	57 42.54	-0.3
			iS	58 03.02	
PEL	1.49	136	iP	57 44.28	0.4
			iS	58 04.04	
TACH	1.78	153	eP	57 48.15	0.2
			eS	58 11.51	
FCH	1.86	133	iP	57 49.33	-0.1
			iS	58 14.82	
LNV	1.92	167	eP	57 49.81	-0.3
PCH	1.94	143	eP	57 50.37	-0.1
			eS	58 15.78	
RTBS	2.14	80	ePc	57 53.30	0.2
			S	58 22.00	

CHCH 2.14 151 eP 57 54.02 0.8
S.D. = 0.6 on 9 of 9 obs.

? APR 15, 1993 06h 06m 12.95±3.17s
15.269 S ±34.3km 166.920 E ±30.6km
DEPTH = 33.0km (normal)
3.9mb (2 obs.)

VANUATU ISLANDS (186)

BKM	2.70	152	iP	06 55.00	0.0
			iS	07 19.40	
DZM	6.78	184	iPc	07 52.90	0.1
			iS	09 02.50	
WB2	31.36	257	eP	12 32.70	-0.3
			0.8s	3.90nm	4.3mb
WRA	31.37	257	P	12 34.00	0.9
			0.7s	0.60nm	3.5mb
ASPA	32.17	250	iPc	12 39.50	-0.6
			0.5s	29.10nm	5.4mb X

S.D. = 0.8 on 5 of 5 obs.

% APR 15, 1993 06h 14m 22.85±1.21s
40.785 S ±8.5km 177.082 E ±11.9km
DEPTH = 33.0km (normal)
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 3.9 (WEL).

PGZ	0.64	285	Pd	14 34.80	-0.6
TEHZ	0.82	345	P	14 38.60	0.6
WAHZ	1.22	333	P	14 43.70	0.0
MNG	1.23	277	P	14 43.50	-0.3
			eS	14 57.30	
MTW	1.25	252	eP	14 44.90	0.7
BLW	1.35	244	eP	14 46.60	1.1
MOW	1.52	245	P	14 48.70	0.6
CAW	1.56	257	P	14 48.90	0.3
KIW	1.65	267	P	14 49.90	0.0
MRW	1.85	255	P	14 52.90	0.0
TCW	2.17	258	eP	14 57.20	-0.1
NOZ	2.29	19	eP	14 59.00	0.0
URZ	2.52	1	eP	15 02.00	-0.4
KHZ	3.12	237	eP	15 09.80	-1.0
THZ	3.30	251	eP	15 13.00	-0.4
LTZ	4.12	239	eP	15 24.40	-0.6

S.D. = 0.6 on 16 of 16 obs.

? APR 15, 1993 06h 37m 39.91±1.42s
45.718 N ±29.4km 26.714 E ±40.2km
DEPTH = 130.0km (geophysicist)

ROMANIA (358)

VRI	0.15	3	iPc	37 57.00	-0.2
CVO	0.39	286	iPd	37 59.10	0.4
MLR	0.59	248	iPc	37 59.60	-0.3
ISR	0.59	192	iPd	38 00.00	0.1

S.D. = 0.6 on 4 of 4 obs.

& APR 15, 1993 06h 50m 05.61s
61.350 N 147.318 W
DEPTH = 7.6km

SOUTHERN ALASKA (2)
<AEIC>. ML 3.3 (AEIC), 3.5
(PMR).

SCM	0.49	359	iPc	50 15.80	0.4
VLZ	0.52	114	iPc	50 15.75	-0.4
			eS	50 23.17	
SML	0.67	314	iPc	50 18.47	-0.6
			eS	50 28.42	
KLU	0.69	77	iPd	50 18.37	-1.1
			eS	50 27.77	
GHO	0.88	300	iPc	50 21.69	-1.1
			eS	50 33.92	
PLRM	0.90	286	iPc	50 22.01	-1.1
			eS	50 34.17	
PMR	0.90	286	iPd	50 21.72	-1.4
			eS	50 33.78	
PTE	0.96	240	iPd	50 22.86	-1.2
			eS	50 35.78	
HIN	1.04	157	iPc	50 24.35	-1.1
			eS	50 39.18	
PMS	1.09	265	iPd	50 25.20	-1.1
CVA	1.11	136	iPc	50 25.38	-1.3
TZL	1.14	51	iPd	50 26.19	-1.0
PWA	1.26	285	P	50 27.70	-1.6
MPA	1.32	230	iPd	50 28.47	-1.7
			eS	50 46.14	

SGAM 1.34 129 iPc 50 28.78 -1.7
eS 50 47.83

SDG 1.45 35 iPd 50 30.65 -1.6
eS 50 49.69

RAGM 1.61 126 iPc 50 32.75 -1.8
SEW 1.63 221 eP 50 32.71 -2.0

SLKM 1.65 240 ePd 50 33.62 -1.4
SUA 1.65 275 iPd 50 34.00 -1.2

GLB 1.69 85 ePc 50 33.83 -1.8
eS 50 55.56

PAX 1.84 27 ePd 50 36.45 -1.5
eS 50 59.95

HUR 1.96 327 ePd 50 38.84 -0.7
eS 51 04.65

MID 1.99 165 eP 50 39.80 -0.1
NKA 2.00 254 eP 50 40.18 0.1

KAIM 2.02 134 eP 50 37.48 -2.9
SKT 2.11 289 iPc 50 40.13 -1.5

eS 51 07.26
CROM 2.12 104 ePc 50 40.10 -1.9

RND 2.18 342 ePc 50 41.91 -0.9
THY 2.20 19 eP 50 43.25 0.2

TGL 2.26 103 ePd 50 41.95 -2.1
SPU 2.29 268 ePd 50 42.54 -1.9

CPAM 2.33 270 eP 50 43.66 -1.3
CRP 2.34 270 eP 50 43.00 -2.1

CKN 2.35 269 eP 50 43.86 -1.4
CKT 2.37 269 ePd 50 43.76 -1.7

BRLK 2.37 229 eP 50 43.13 -2.4
CP2 2.38 270 eP 50 43.99 -1.8

BALM 2.43 95 ePc 50 44.48 -1.9
CKL 2.43 269 eP 50 44.26 -2.1

BGL 2.45 270 eP 50 44.99 -1.7
SNH 2.49 116 eP 50 45.55 -1.6

MCK 2.51 343 eP 50 47.07 -0.3
TRF 2.52 328 ePc 50 46.54 -1.2

CNPM 2.67 228 eP 50 47.60 -2.1
DFR 2.73 256 eP 50 47.99 -2.6

DOT 2.76 32 eP 50 51.03 0.0
RSO 2.80 254 eP 50 49.32 -2.5

RS2 2.80 254 eP 50 49.40 -2.4
RS1 2.80 254 eP 50 49.45 -2.4

RDW 2.82 254 eP 50 49.78 -2.2
NCT 2.85 256 eP 50 49.85 -2.5

YAH 2.90 108 eP 50 50.64 -2.6
CTGM 2.93 95 eP 50 51.62 -1.9

HDA 3.07 3 eP 50 54.64 -0.7
INE 3.11 248 eP 50 53.68 -2.3

INW 3.13 248 eP 50 53.60 -2.7
WRH 3.15 354 eP 50 55.01 -1.5

CCB 3.32 356 eP 50 57.26 -1.6
NEA 3.34 347 eP 50 57.38 -1.8

FBA 3.57 357 eP 51 00.18 -2.3
AUE 3.61 239 eP 51 01.04 -2.0

AUI 3.65 239 eP 51 01.73 -1.8
MDM 3.65 354 eP 51 02.48 -1.1

GLM 3.65 360 eP 51 01.74 -2.0
PDB 3.74 248 eP 51 01.81 -3.0

SYI 3.75 225 eP 51 02.60 -2.4
CDD 3.99 235 eP 51 05.62 -2.8

MLY 4.01 339 eP 51 06.78 -1.9
SVW 4.02 270 eP 51 04.98 -3.9

MCNL 4.11 241 eP 51 07.35 -2.8
TTA 4.38 295 eP 51 10.64 -3.4

IMA 5.51 332 eP 51 26.59 -3.6
73 obs. associated

APR 15, 1993 07h 16m 20.41±1.16s
22.596 N ±6.7km 142.749 E ±10.3km

DEPTH = 195.8 ±12.4 km
4.5mb (10 obs.)

VOLCANO ISLANDS REGION (213)

GUMO 9.18 167 e(P) 18 31.20 1.2
0.9s 222.70nm 5.5mb X

PJG 9.18 167 e(P) 18 31.20 1.2
GUA 9.24 167 e(P) 18 31.20 0.4

0.8s 95.52nm 5.2mb X
WKYJ 13.18 333 eP 19 24.70 3.4X

TKSJ 13.68 328 eP 19 35.30 7.7X
CHJJ 13.80 347 P 19 27.70 -1.3

MAT 14.44 345 (P) 19 36.00 -1.1
eS 22 10.00
WB2 43.07 192 iPd 24 00.30 -2.3

0.3s 19.70nm 5.1mb
WRA 43.07 192 P 24 01.00 -1.7
0.6s 2.90nm 4.0mb

15d 07h

ASPA 46.78 191 eP 24 31.10 -1.0
0.4s 5.20nm 4.3mb
GUN 51.33 288 P 25 08.00 0.6
PKI 51.79 288 P 25 11.00 0.2
KKN 51.87 288 P 25 12.00 0.8
DMN 52.05 288 P 25 12.80 0.2
GKN 52.40 289 P 25 16.00 0.9
STK 54.18 181 iPd 25 26.10 -1.6
0.4s 8.40nm 4.8mb
SLKM 59.31 32 (P) 26 02.28 -1.3
FBA 61.06 27 eP 26 13.81 -1.6
0.6s 2.36nm 4.1mb
KLU 61.50 31 (P) 26 17.63 -0.8
INK 66.91 24 eP 26 53.50 0.3
0.6s 2.00nm 4.0mb
MBC 70.09 15 ePd 27 12.60 0.0
0.5s 5.00nm 4.5mb
DPW 79.36 43 (P) 28 05.65 -0.3
NEW 79.89 42 eP 28 08.85 0.2
0.8s 16.44nm 4.8mb
LCCM 84.15 43 iPd 28 31.40 0.5
HVV 85.37 47 eP 28 37.34 0.3
DUG 86.04 48 eP 28 40.81 0.5
0.5s 7.18nm 4.8mb
FCC 86.41 26 eP 28 44.00 2.5
ARUT 86.66 50 eP 28 43.81 0.4
DAU 87.00 47 eP 28 45.38 0.2
APO 87.38 337 eP 28 48.60 2.4
0.4s 2.40nm 4.4mb
SRU 88.10 48 eP 28 50.25 -0.1
FRB 90.52 13 eP 29 01.00 0.2
S.D. = 1.2 on 30 of 32 obs.

APR 15, 1993 07h 30m 37.62±0.60s
26.379 S ± 5.0km 27.441 E ± 7.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.1 (PRE). mbLg 3.0 (BUL).

PRY 0.55 177 iPd 30 47.90 -0.7
S 30 54.50
KSR 0.71 316 iPd 30 51.50 -0.3
S 31 02.50
BFS 0.78 228 eP 30 54.10 0.7
S 31 03.80
SLR 0.99 50 iPd 30 57.00 0.0
S 31 09.20
SEK 1.94 175 eP 31 13.00 1.2
S 31 36.00
SWZ 2.05 247 eP 31 14.10 0.8
S 31 39.90
BLF 2.94 202 iPd 31 25.50 -0.5
S 32 01.50
FRS 3.84 209 e(P) 31 37.50 -1.2
BUL 6.30 10 iPn 32 12.50 -1.1
iSn 32 20.70
iSg 33 53.50
CIR 6.55 36 iPn 32 11.00 -6.1X
iSg 33 51.10
MTD 10.30 23 iPn 33 10.40 1.2
iSg 36 08.00
S.D. = 1.0 on 10 of 11 obs.

? APR 15, 1993 08h 12m 55.41±0.90s
47.262 N ±12.6km 11.260 E ± 6.8km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.3 (VIE).

SOTA 0.05 220 iPg 12 57.70 0.0
iSg 12 59.30
MOTA 0.13 308 iPg 12 58.80 0.0
iSg 13 01.70
WATA 0.23 71 iPg 13 00.30 -0.1
iSg 13 04.30
WTTA 0.26 90 iPg 13 01.00 0.1
iSg 13 05.20
S.D. = 0.1 on 4 of 4 obs.

APR 15, 1993 08h 27m 44.45±0.92s
43.259 N ± 9.1km 18.119 E ± 5.8km
DEPTH = 5.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.5 (TTG).

BRY 0.47 139 iPg 27 53.85 -0.1
iSg 28 01.46

NKY 0.78 124 iPg 27 59.68 -0.5
iSg 28 11.86
HCY 0.86 161 iPg 28 00.81 -0.6
iSg 28 13.98
PLE 0.93 85 iPg 28 02.21 -0.6
iSg 28 16.58
BDV 1.11 152 iPg 28 05.53 -0.1
iSg 28 22.26
TTG 1.18 134 iPg 28 06.99 0.1
iSg 28 24.86
HVAR 1.22 267 ePg 28 07.60 -0.1
iSg 28 25.50
IVA 1.36 106 ePg 28 10.24 0.1
iSg 28 30.91
PVY 1.52 115 iPg 28 13.33 1.0
iSg 28 36.09
ULC 1.54 147 iPg 28 13.60 1.0
iSg 28 36.69
VBY 3.04 319 ePn 28 40.80 6.7X
S.D. = 0.7 on 10 of 11 obs.

APR 15, 1993 08h 34m 12.34±0.89s
43.234 N ± 9.0km 18.091 E ± 5.7km
DEPTH = 5.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.7 (TTG).

BRY 0.47 135 iPg 34 21.59 -0.2
iSg 34 29.02
NKY 0.79 122 iPg 34 27.55 -0.6
iSg 34 39.58
HCY 0.84 159 iPg 34 28.53 -0.5
iSg 34 41.50
PLE 0.96 84 iPg 34 30.63 -0.5
iSg 34 44.78
BDV 1.09 150 iPg 34 33.22 -0.1
iSg 34 49.82
TTG 1.18 133 iPg 34 34.90 0.1
iSg 34 52.79
HVAR 1.20 268 iPg 34 35.10 -0.1
iSg 34 54.20
IVA 1.37 105 iPg 34 38.34 0.1
iSg 34 58.98
PVY 1.52 114 iPg 34 41.20 0.8
iSg 35 03.95
ULC 1.53 146 iPg 34 41.38 1.0
iSg 35 04.35
VBY 3.05 319 ePn 35 09.60 7.5X
S.D. = 0.6 on 10 of 11 obs.

% APR 15, 1993 08h 38m 36.19±0.75s
26.896 S ± 7.2km 26.778 E ± 6.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

BFS 0.01 114 eP 38 37.10 -0.2
S 38 37.60
PRY 0.62 93 eP 38 47.50 -1.2
KSR 1.03 6 eP 38 56.00 -0.3
S 39 12.00
SWZ 1.33 257 eP 39 01.00 -0.3
S 39 17.20
SEK 1.61 152 iPc 39 06.60 1.1
S 39 28.20
SLR 1.78 50 eP 39 09.00 1.1
S 39 31.00
BLF 2.27 193 eP 39 14.60 -0.4
S.D. = 1.0 on 7 of 7 obs.

? APR 15, 1993 09h 03m 32.56±2.54s
6.949 S ±16.7km 129.584 E ±23.0km
DEPTH = 145.2 ± 24.6 km
4.3mb (2 obs.)
BANDA SEA (280)

MTN 6.05 166 iPd 05 01.80 0.8
eS 05 41.00
KNA 8.78 185 eP 05 36.50 -1.2
0.2s 35.00nm 5.7mb X
eS 07 05.00
WB2 13.72 161 eP 06 37.00 -5.3X
i 06 40.00
eS 09 00.20
ASPA 17.13 166 iPc 07 24.80 0.0
eS 10 22.70
WARB 19.33 188 eP 07 49.30 0.2

NANU 20.60 220 eP 08 02.50 0.5
0.4s 3.00nm 4.1mb
eS 11 48.00
STK 27.22 157 eP 09 04.40 -0.3
0.4s 6.00nm 4.6mb
eS 14 23.50
GUN 54.61 311 P 12 48.80 -0.1
GKN 55.59 311 P 12 55.60 -0.1
CNCR 150.69 144 PKP 23 13.30 8.6X
LPB 150.84 143 PKP 23 14.00 9.2X
ZOB0 151.03 143 PKP 23 14.00 8.7X
S.D. = 0.8 on 8 of 12 obs.

? APR 15, 1993 09h 19m 16.11±1.05s
39.136 N ± 9.0km 27.555 E ±17.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.77 197 iPg 19 31.20 0.0
iSg 19 43.70
DST 0.95 60 ePn 19 34.30 0.0
EDC 1.23 11 ePn 19 38.50 -0.5
BNT 1.25 13 iPn 19 39.90 0.5
S.D. = 0.7 on 4 of 4 obs.

? APR 15, 1993 09h 33m 47.61±0.74s
26.421 S ± 5.7km 27.400 E ± 8.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY 0.51 173 eP 33 57.00 -0.8
S 34 02.10
KSR 0.71 321 eP 34 01.50 -0.4
S 34 09.50
SLR 1.05 49 eP 34 08.10 0.2
S 34 20.50
SEK 1.91 174 iPc 34 21.70 0.5
S 34 44.50
SWZ 2.00 247 eP 34 23.00 0.4
S 34 46.00
BLF 2.89 202 e(P) 34 35.50 0.3
S.D. = 0.7 on 6 of 6 obs.

% APR 15, 1993 09h 55m 18.71±0.96s
39.146 N ± 8.5km 27.608 E ±15.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM 0.79 200 iPg 55 34.20 0.0
iSg 55 46.20
DST 0.91 60 ePn 55 36.00 -0.2
EDC 1.22 9 ePn 55 41.50 0.2
BNT 1.23 11 ePn 55 41.00 -0.6
KCT 1.24 27 ePn 55 42.50 0.7
S.D. = 0.7 on 5 of 5 obs.

? APR 15, 1993 10h 09m 35.84±1.25s
39.098 N ±11.7km 27.526 E ±21.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.73 197 iPg 09 50.20 0.0
iSg 10 02.00
DST 0.99 59 ePn 09 54.30 -0.4
BNT 1.29 13 ePn 09 59.00 -0.8
KCT 1.32 29 ePn 10 01.40 1.2
S.D. = 1.5 on 4 of 4 obs.

APR 15, 1993 10h 32m 31.28±0.16s
16.395 S ± 3.5km 14.293 W ± 3.7km
DEPTH = 10.0km (geophysicist)
5.6mb (81 obs.) 5.2Msz (41 obs.)
SOUTHERN MID-ATLANTIC RIDGE (410)
Mw 5.6 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 40S, 77C
Centroid Location:
Origin Time 10:32:40.6 0.3
Lat 16.22S 0.03 Lon 14.61W 0.03
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10**17 Nm
Mrr=-0.14 0.04 Mtt=-0.67 0.05

Mff= 0.82 0.05 Mrt= 0.06 0.16						MAL 53.65 10 iPc 41 54.20 -1.0						PLDF 64.15 14 P 43 08.09 -0.1					
Mrf=-0.65 0.14 Mtf= 2.20 0.05						EPRU 53.76 9 IPd 41 56.50 0.5						MAF 64.16 13 eP 43 08.00 -0.1					
Principal Axes:						EGUA 53.90 11 IPc 41 58.49 1.5						FIR 64.28 20 eP 43 10.00 1.0					
T Val= 2.48 Plg=11 Azm=125						EVAL 54.16 7 IPc 41 58.59 -0.3						RSP 64.31 17 P 43 08.50 -0.8					
N -0.15 74 352						ENIJ 54.29 12 IPd 41 59.91 0.0						BDI 64.32 20 P 43 08.60 -0.7					
P -2.33 11 217						ECOG 54.33 11 eP 42 00.19 -0.2						IGT 64.34 29 IP 43 09.42 0.0					
Best Double Couple:Mo=2.4*10**17						SNA 54.40 175 IPd 41 59.70 -0.6						LPG 64.49 16 IPc 43 11.00 0.3					
NP1:Strike=261 Dip=74 Slip= 0						1.1s 106.33nm 5.8mb						1.1s 90.85nm 5.9mb					
NP2: 351 90 -164						ELUQ 54.49 10 eP 42 00.79 -0.6						LPL 64.50 16 IPc 43 10.90 0.2					
LIC 24.27 23 P 37 49.90 0.1						EHOR 54.59 9 IPd 42 02.04 -0.1						1.3s 112.65nm 5.9mb					
KIC 24.50 23 Pc 37 52.40 0.3						EBAN 55.16 10 eP 42 05.08 -1.2						PGD 64.53 21 P 43 12.68 1.9					
1.0s 216.00nm 5.7mb						EVIA 55.85 11 eP 42 10.03 -1.3						1.5s 53.80nm 5.5mb					
TT 00 51.80						PAB 56.42 9 IPc 42 16.70 1.3						8GF 64.54 13 eP 43 10.40 -0.2					
TIC 24.66 23 P 37 53.80 0.2						ePcP 43 01.00						0.8s 24.30nm 5.4mb					
LKO 27.17 19 P 38 16.26 -0.8						eS 50 07.00						LSD 64.56 17 P 43 10.88 -0.2					
1.1s 315.00nm 6.0mb						NVL 56.62 170 (P) 42 16.00 -0.4						BOB 64.59 19 Pd 43 11.90 0.8					
MBO 30.70 355 IPd 38 48.20 -0.4						1.0s 58.00nm 5.6mb						SFI 64.61 21 P 43 10.40 -0.7					
VAO 31.41 253 eP 38 54.00 -1.0						i 42 32.00						ARV 64.62 22 P 43 10.00 -1.2					
BDF 32.29 267 eP 39 04.00 1.1						e 50 08.00						TPE 64.80 28 eP 43 14.50 2.1					
e 39 11.80						e 54 10.00						SMF 64.84 14 IPc 43 12.30 -0.3					
e 39 26.10						e 56 40.00						1.5s 84.60nm 5.7mb					
e 39 31.80						EPLA 56.68 8 IP 42 15.54 -1.7						AVF 64.87 13 IPc 43 12.50 -0.2					
BAO 32.38 267 eP 39 03.20 -0.4						OPO 58.28 102 IPc 42 32.90 3.8X						0.8s 19.05nm 5.3mb					
e 39 08.90						ABM 58.43 103 IPc 42 33.30 3.1X						AGG 64.90 31 eP 43 14.70 1.6					
i 39 11.10						VTY 58.69 103 IPc 42 34.50 2.5X						LSK 64.96 29 eP 43 19.50 6.0X					
i 39 18.90						AVY 58.89 102 eP 42 36.30 2.9X						EMS 65.07 16 ePc 43 13.80 -0.5					
e 39 33.00						FAI 59.53 26 P 42 39.50 2.3						SSF 65.16 13 IPc 43 14.40 -0.2					
i 39 52.40						ECRI 59.70 10 eP 42 32.40 -6.0X						1.0s 56.80nm 5.7mb					
i 40 02.00						GIB 60.28 26 P 42 45.10 2.6X						HYF 65.17 13 eP 43 14.70 0.0					
BLE 34.34 127 IP 39 22.50 2.2						MNO 60.51 26 P 42 45.50 1.3						LBF 65.19 14 IPc 43 14.40 -0.5					
1.1s 150.00nm 5.8mb						EPF 60.64 12 eP 42 44.80 0.0						1.0s 25.80nm 5.4mb					
TUH 34.51 125 IPc 39 14.00 -7.8X						TOV 60.76 291 ePc 42 46.40 0.3						DIX 65.21 16 ePc 43 14.80 -0.5					
0.7s 50.00nm 5.5mb						ATN 61.03 27 P 42 49.24 1.8						LPF 65.22 10 IPc 43 14.70 -0.2					
CER 34.64 125 IPc 39 19.50 -3.5X						0.7s 48.20nm 5.7mb						1.2s 77.05nm 5.8mb					
1.0s 240.00nm 6.0mb						SDV 61.14 290 IPc 42 49.20 0.4						BADA 65.32 47 ePc 43 16.07 0.2					
i 40 36.00						GMB 61.21 27 P 42 49.31 0.5						MMK 65.33 17 ePc 43 15.40 -0.6					
PPD 35.34 255 eP 39 29.10 0.0						1.5s 201.60nm 6.0mb						VAI 65.39 18 P 43 14.80 -1.3					
BCAO 38.50 60 IPc 39 56.40 0.7						CRZF 61.90 134 eP 43 03.00 9.6X						KBN 65.42 29 eP 43 16.70 0.2					
1.0s 70.00nm 5.3mb						eS 51 21.00						LOR 65.43 13 IPc 43 15.90 -0.5					
id 40 03.80						eSS 55 09.00						0.9s 16.70nm 5.2mb					
ic 41 44.30						LPO 62.40 12 eP 42 56.30 -0.3						Z 23s 1.75um 5.2mszX					
id 42 16.00						LMR 62.42 17 IPc 42 56.40 -0.3						TIR 65.58 28 eP 43 18.00 0.6					
FRS 38.60 117 IPc 39 55.50 -0.9						1.2s 54.75nm 5.6mb						GRR 65.59 10 IPc 43 17.00 -0.3					
0.8s 86.00nm 5.5mb						PGF 62.45 19 P 42 56.44 -0.6						1.3s 82.30nm 5.8mb					
BLF 39.23 116 IPd 40 01.00 -0.9						LRG 62.49 17 IPc 42 57.10 -0.1						LACI 65.74 27 eP 43 18.60 0.2					
0.8s 80.00nm 5.4mb						1.2s 66.05nm 5.7mb						HOL 65.80 47 ePd 43 19.33 0.3					
KSR 39.42 111 eP 40 04.00 0.5						Z 23s 2.40um 5.3mszX						ULC 65.81 27 IPd 43 19.67 0.8					
0.8s 72.00nm 5.4mb						LFF 62.55 12 IPc 42 57.50 0.0						OHR 65.81 28 eP 43 16.00 -3.0					
PRY 40.05 112 eP 40 07.00 -1.7						1.0s 89.20nm 5.9mb						LIT 65.81 30 eP 43 18.66 -0.3					
0.8s 46.00nm 5.2mb						TDS 62.66 26 P 42 58.30 -0.1						FNA 65.82 29 eP 43 18.90 -0.1					
SEK 40.35 115 IPc 40 10.60 -0.6						FRF 62.67 17 IPc 42 58.00 -0.4						HCY 65.88 26 IPd 43 20.13 0.8					
0.9s 208.00nm 5.8mb						1.1s 35.40nm 5.5mb						BDV 65.89 26 IPd 43 20.23 0.9					
SLR 40.65 111 eP 40 10.00 -3.7X						ROI 62.69 27 P 43 00.20 1.6						LDF 65.92 10 IPc 43 19.10 -0.3					
0.8s 60.00nm 5.4mb						MGR 62.73 25 P 42 58.70 -0.1						0.7s 17.55nm 5.4mb					
Z 20s 20.00um 6.0msz						CAF 62.82 13 eP 42 58.90 -0.4						MBH 65.98 46 eP 43 21.10 0.8					
LSZ 40.83 95 IPd 40 16.50 1.3						CALN 62.92 17 P 43 00.19 0.0						SDA 65.99 27 eP 43 17.50 -2.4					
i 40 18.00						RDP 63.02 22 P 43 03.10 2.3						FLN 66.02 10 IPc 43 19.50 -0.5					
i 40 25.00						RJF 63.06 12 eP 43 00.50 -0.4						Z 20s 1.75um 5.3msz					
BUL 40.83 102 IPc 40 15.70 0.5						1.1s 79.35nm 5.8mb						VDL 66.16 18 ePd 43 20.60 -0.7					
1.0s 31.00nm 5.0mb						AURF 63.17 17 P 43 01.62 -0.1						TTG 66.19 27 IPd 43 22.02 0.8					
i 40 16.50						SBF 63.17 17 P 43 01.85 0.1						LOMF 66.22 16 P 43 20.66 -0.9					
BFT 42.24 110 eP 40 27.10 0.4						TOUF 63.26 17 P 43 02.59 0.1						AYN 66.23 48 eP 43 22.53 0.8					
0.8s 80.00nm 5.5mb						AUTN 63.29 17 P 43 02.68 -0.1						PAIG 66.26 31 eP 43 21.86 0.1					
SIV 44.85 264 P 41 03.40 15.6X						SAOF 63.32 17 P 43 02.63 -0.1						BRY 66.27 26 IPd 43 22.27 0.3					
TIO 47.53 8 IPc 41 09.80 0.9						IMI 63.35 18 P 43 01.77 -1.2						LLS 66.37 17 ePc 43 21.20 -1.4					
TCA 47.95 242 eP 41 11.00 -1.3						SDI 63.38 23 Pc 43 03.30 0.1						NKY 66.39 26 IPd 43 23.23 0.5					
HJA 48.37 253 ePd 41 17.20 1.7						STV 63.49 17 P 43 04.06 0.2						CTI 66.43 19 P 43 22.50 -0.4					
SLA 48.42 251 ePc 41 16.00 -0.1						ENR 63.50 17 P 43 03.96 0.0						GRG 66.44 30 eP 43 24.10 1.2					
CYA 48.77 246 ePd 41 17.50 -1.1						MNS 63.55 22 P 43 03.90 -0.4						BBS 66.51 16 P 43 22.70 -0.6					
FSA 48.90 250 eP 41 19.20 -0.3						PZZ 63.67 17 P 43 05.43 0.3						OSS 66.54 18 P 43 22.70 -1.0					
MRA 49.01 241 ePd 41 19.20 -1.1						ROB 63.70 18 P 43 04.97 -0.2						VVI 66.62 20 P 43 24.54 0.5					
CCH 49.49 261 eP 41 08.00 -16.6X						FIN 63.72 18 P 43 05.15 -0.2						1.3s 57.80nm 5.6mb					
AVE 49.85 8 IP 41 27.50 0.9						AQU 63.79 23 P 43 06.40 0.6						PVY 66.63 27 IPd 43 24.85 0.6					
i 42 18.00						PYM 63.81 13 P 43 05.75 -0.2						BSF 66.66 15 IPc 43 23.30 -1.1					
IFR 50.40 10 IP 41 34.50 3.5X						CKI 63.93 18 P 43 08.00 1.3						0.9s 18.20nm 5.3mb					
CNCB 51.32 261 P 41 38.80 0.0						RRL 63.97 17 P 43 07.17 0.0						HAU 66.71 15 IPc 43 23.90 -0.7					
LPB 51.46 262 P 41 40.00 0.2						LSF 63.97 12 IPc 43 06.80 -0.1						1.1s 47.60nm 5.6mb					
Z 18s 3.44um 5.4msz						1.3s 111.55nm 5.9mb						Z 22s 1.70um 5.2msz					
LR 58 19.00						MFF 63.99 11 IPc 43 06.70 -0.3						OUR 66.72 31 IP 43 24.82 0.1					
ZOBO 51.52 262 P 41 40.00 -0.4						1.1s 55.70nm 5.7mb						ZLA 66.76 17 ePc 43 24.10 -0.8					
1.1s 15.95nm 4.9mb						BHB 64.02 17 P 43 06.76 -0.6						MOF 66.77 16 P 43 24.07 -0.9					
Z 21s 1.24um 4.9msz						BNI 64.06 16 P 43 08.00 0.3						SHWJ 66.78 46 P 43 27.00 1.5					
LR 57 24.00						PCP 64.12 18 P 43 06.94 -1.0						SKO 66.79 28 IP 43 24.70 -0.4					
EJIF 53.22 9 IPc 41 53.75 1.7						AGO 64.12 13 P 43 07.68 -0.2						1.2s 166.00nm 6.1mb					
PEL 53.25 241 ePd 41 51.50 -1.0						ASS 64.14 22 P 43 07.70 -0.5						Z 17s 1.02um 5.1mszX					
						TCF 64.14 13 IPc 43 08.10 0.0						iPPP 47 30.00					
						1.2s 72.90nm 5.7mb						IS 52 20.00					

15d 10h

[illegible]

15d 10h

TUC	Z 18s	1.00um	5.4Msz	103.95	300	Pdfff	46	50.00	13.9X	TKSJ	146.61	52	ePKP	52	14.80	1.3	GPA	1.08	96	ePn	52	29.80	0.9						
	Z 20s	0.71um	5.2Msz	103.95	300	Pdfff	46	50.00	13.9X	TSRJ	147.37	49	PKP	52	18.70	4.0X	DMK	1.66	329	ePn	52	38.50	0.8						
DAU	105.66	308	ePKP	51	00.03	2.9X				WKYJ	147.68	51	ePKP	52	19.80	4.5X	S.D. = 0.7 on 10 of 10 obs.												
DUG	106.81	308	PKP	51	10.00	10.9X				KUSJ	147.92	30	ePKP	52	18.30	3.0X	% APR 15, 1993 11h 10m 17.21±3.82s												
	Z 21s	0.77um	5.2Msz	106.81	308	PKP	51	10.00	10.9X	MTMJ	148.13	46	ePKP	52	18.90	2.9X	43.244 N ±17.7km 18.329 E ±23.6km												
ARUT	106.98	305	ePKP	51	03.47	3.9X				CHJJ	149.23	45	PKP	52	23.00	5.3X	DEPTH = 10.0km (geophysicist)												
YKA	109.16	331	ePdfff	46	59.40	1.0				GUMO	159.68	95	e(PKP)	52	23.00	-9.2X	NORTHWESTERN BALKAN REGION (383)												
	1.0s	0.50nm									Z 22s	0.17um			4.9Msz	ML 2.3 (TTG).													
YKA	109.16	331	ePKP	51	03.20	0.6					S.D. = 1.0	on 308 of 357 obs.																	
	0.8s	0.80nm																											
NEW	110.55	316	PKP	51	20.00	14.2X					? APR 15, 1993 10h 44m 23.55±1.77s																		
	Z 20s	3.44um	5.9Msz	110.55	316	PKP	51	20.00	14.2X		39.547 N ±5.6km 11.713 W ±17.7km																		
ISA	110.75	302	PKP	51	20.00	13.4X					DEPTH = 10.0km (geophysicist)																		
	Z 21s	0.60um	5.2Msz	110.75	302	PKP	51	20.00	13.4X		NORTH ATLANTIC OCEAN (402)																		
BCH	112.02	302	ePKP	51	02.59	-6.4X					mbLg 3.4 (MDD).																		
CMB	112.47	305	PKP	51	20.00	10.3X				EZAM	3.46	40	ePn	45	20.01							1.4	HCY	0.81	171	iPgc	10	32.34	-0.5
	Z 21s	0.57um	5.1Msz	112.02	302	ePKP	51	20.00	10.3X			eSn	45	54.10									iSg	10	44.37				
SAO	113.23	303	PKP	51	20.00	8.8X				STS	4.10	35	iPn	45	28.66							1.1	BDV	1.03	159	iPgd	10	36.57	-0.1
	Z 20s	0.54um	5.1Msz	113.23	303	PKP	51	20.00	8.8X			eSn	46	10.60									iSg	10	52.43				
WDC	114.25	308	PKP	51	20.00	6.9X				EVAL	4.36	115	iPn	45	32.55							1.2	TTG	1.06	140	iPgc	10	37.34	0.1
	Z 20s	0.66um	5.2Msz	114.25	308	PKP	51	20.00	6.9X			eSn	46	16.60									iSg	10	53.79				
INK	115.76	339	ePKP	51	15.50	0.5				EPLA	4.37	81	ePn	45	32.75							1.2	IVA	1.21	107	iPgc	10	40.03	0.3
	1.0s	2.00nm										eSn	46	16.30									iSg	10	58.67				
GTA	118.76	54	PKP	51	24.00	2.2				ERUA	4.48	49	ePn	45	34.43							1.4	PVY	1.37	118	iPgd	10	42.99	0.5
	Z 18s	0.69um	5.3Msz	118.76	54	PKP	51	24.00	2.2			eSn	46	19.00									iSg	11	03.61				
SIT	120.35	327	PKP	51	30.00	6.0X				EMON	5.09	39	ePn	45	42.52							0.8	ULC	1.45	152	ePg	10	44.04	0.6
	Z 20s	1.23um	5.5Msz	120.35	327	PKP	51	30.00	6.0X			eSn	46	33.80									iSg	11	05.07				
LZH	122.08	57	ePKP	51	29.00	0.7				PA8	5.69	88	iPn	45	50.50							0.2	S.D. = 0.5 on 9 of 9 obs.						
CD2	122.10	64	ePKP	51	29.20	0.9						iPb	45	59.00								% APR 15, 1993 11h 33m 04.01±2.92s							
KLU	123.51	335	ePKP	51	30.29	0.1						iSn	46	49.00								51.432 N ±47.5km 170.360 W ±16.0km							
				51	38.13							eSb	47	09.50								DEPTH = 33.0km (normol)							
IMA	123.60	341	ePKP	51	29.77	-0.5				GUD	5.90	77	ePn	45	51.30							-1.9	3.9mb (3 obs.)						
				51	38.06					EGUA	6.96	110	iPn	46	08.92							0.8	FOX ISLANDS, ALEUTIAN ISLANDS (9)						
GYA	124.54	69	ePKP	51	33.80	0.5				AVE	7.13	150	iPn	46	09.50							-1.0							
PMR	124.75	336	ePKP	51	32.63	0.3						i	46	10.00															
	Z 19s	0.99um	5.5Msz	124.75	336	ePKP	51	32.63	0.3			iSn	47	20.50															
				51	40.92							i	47	21.50															
PMS	125.12	335	ePKP	51	33.50	0.3						i	47	22.50															
SLKM	125.80	335	ePKP	51	34.94	0.3						i	46	11.09	-0.7														
				51	43.04					EVIA	7.22	94	iPn	47	24.40														
CP2	126.16	336	ePKP	51	35.52	0.0						eSn	47	24.40															
XAN	126.36	60	PKP	51	36.00	-0.5				ETOR	7.50	77	ePn	46	15.66							-0.1							
	Z 20s	0.61um	5.3Msz	126.16	336	ePKP	51	35.52	0.0			i	46	26.50															
BTO	126.43	51	ePKP	51	36.50	0.0				IFR	8.02	137	ePn	46	24.50							1.5							
STK	126.72	154	ePKP	51	35.70	-1.5						i	47	00.00															
	0.9s	1.90nm										iSn	47	43.50															
RSO	126.84	336	ePKP	51	36.24	-0.6				TIO	9.34	156	iPn	46	40.50							-0.8							
HHC	127.54	51	ePKP	51	39.80	1.2						i	48	02.50															
YAK	127.86	21	ePKP	51	44.50	6.1X						i	48	07.50															
	0.9s	26.00nm										iSn	48	12.50															
	Z 21s	0.60um	5.3Msz	127.86	21	ePKP	51	44.50	6.1X				46	46.80	0.4														
				53	33.00					EPF	9.72	65	Pn	46	46.80														
				56	45.00							Sn	48	23.80															
TIY	128.76	55	ePKP	51	43.00	2.0				LFF	10.69	56	Pn	46	59.10							-0.6							
	Z 18s	1.21um	5.6Msz	128.76	55	ePKP	51	43.00	2.0			Sn	47	01.10	-1.0														
	N 17s	0.57um								LPO	10.87	58	Pn	47	01.10														
ASPA	129.49	141	ePKP	51	42.10	-0.7						Sn	48	52.10															
	0.8s	10.40nm								MFF	11.01	46	Pn	47	02.80							-1.2							
BJI	131.15	51	ePKP	51	47.00	1.7						Sn	48	54.20															
	Z 20s	0.90um	5.5Msz	131.15	51	ePKP	51	47.00	1.7			Sn	47	07.40	-1.2														
WRA	132.53	138	PKP	51	46.00	-2.6				RJF	11.34	55	Pn	49	02.90														
	0.6s	1.60nm										Sn	49	02.90															
WB2	132.53	138	ePKP	51	47.20	-1.4				LPF	11.45	39	Pn	47	07.80							-2.3X							
	0.7s	3.20nm										Sn	49	03.80															
TIA	132.73	56	ePKP	51	50.20	1.7				CAF	11.54	58	Pn	47	10.00							-1.3							
	Z 26s	0.81um	5.3MszX	132.73	56	ePKP	51	50.20	1.7			Sn	49	07.60															
				54	18.00							Sn	47	20.10	-0.5														
SDN	133.31	334	ePKP	51	51.64	2.7X				FLN	12.23	37	Pn	49	21.80														
NJ2	134.87	61	ePKP	51	51.20	-1.5				LDF	12.29	39	Pn	47	21.50							0.2							
	Z 18s	0.35um	5.1Msz	134.87	61	ePKP	51	51.20	-1.5			Sn	49	23.90															
SNY	135.92	46	ePKP	51	51.80	-2.5				BGF	12.74	52	Pn	47	27.40	0.0													
	Z 20s	0.97um	5.5Msz	135.92	46	ePKP	51	51.80	-2.5			Sn	49	34.60															
				54	31.00																								
CN2	136.37	43	ePKP	51	57.00	1.8																							
	Z 22s	0.76um	5.4Msz	136.37	43	ePKP	51	57.00	1.8																				
MDJ	138.60	40	ePKP	52	01.70	2.4																							
CTA	139.02	151	ePKP	52	04.50	3.7X																							
SMY	143.14	351	PKP	52	20.00	12.9X																							
	Z 20s	2.08um	5.9Msz	143.14	351	PKP	52	20.00	12.9X																				
SHNJ	144.30	54	PKP	52	08.00	-1.6				YLV	0.39	66	iPg	52	16.40	-0.2													
KUMJ	144.62	57	PKP	52	07.30	-3.0						eSg	52	23.40															
KAGJ	145.07	59	PKP	52	09.70	-1.4				KCT	0.45	250	iPg	52	17.90	0.3													
HON	145.36	284	PKP	52	20.00	8.2X						eSg	52	24.50															
	Z 21s	0.49um	5.3Msz	145.36	284	PKP	52	20.00	8.2X			iPg	52	20.90	-0.9														
YONJ	145.68	51	ePKP	52	11.50	-0.5				ISK	0.67	10	iPg	52	22.90	-0.3													
ASAJ	146.17	30	ePKP	52	13.50	1.0				BNT	0.75	267	iPn	52	22.90	-0.3													
										EDC	0.80	266	iPn	52	23.50	-0.5													
										CTT	0.82	334	iPn	52	24.90	0.5													
										DST	0.83	195	iPn	52	24.30	-0.2													
										EYL	0.97	80	ePn	52	26.50	-0.5													

15d 11h

RRL 0.63 318 P 56 52.50 -0.5
 FIN 0.64 112 P 56 52.69 -0.4
 IMI 0.65 146 P 56 52.92 -0.3
 S 57 01.84
 PCP 0.84 84 P 56 57.30 0.9
 S.D. = 0.5 on 9 of 9 obs.

& APR 15, 1993 12h 18m 36.01s
 40.535 N 123.655 W
 DEPTH = 31.7km
 NORTHERN CALIFORNIA (36)
 <GM-P>. MD 3.5 (GM). ML 3.7
 (BRK). 3.2 (GS).

FOX 0.26 267 iPc 18 43.06 0.0
 FHC 0.37 317 iPc 18 44.19 -0.4
 IS 18 51.21
 KMPM 0.37 252 iPd 18 44.29 -0.5
 EKR 0.40 294 iPc 18 44.35 -0.7
 IS 18 51.30
 ARC 0.47 317 iPc 18 45.02 -1.0
 IS 18 52.49
 WDC 0.85 87 ePc 18 50.84 -0.8
 eS 19 02.21
 LBFM 1.56 58 iPc 19 02.09 0.0
 MIN 1.58 96 iPc 19 00.88 -1.4
 eS 19 20.98
 ORV 1.92 120 iPc 19 05.23 -1.9
 eS 19 26.91
 ZSP 2.81 157 eP 19 32.30 12.7
 BKS 2.87 157 eP 19 20.11 -0.5
 CMB 3.56 133 ePd 19 30.64 0.2
 SAO 4.14 155 ePc 19 37.09 -1.6
 PLM 8.99 141 eP 20 46.12 -0.8
 MSU 9.10 99 eP 20 47.37 -1.0
 SRU 10.20 94 eP 21 04.35 0.8
 16 obs. associated

? APR 15, 1993 12h 37m 36.23±11.65s
 10.715 N ±43.0km 62.618 W ±98.5km
 DEPTH = 33.0km (normol)
 NEAR COAST OF VENEZUELA (97)
 MD 3.0 (TRN).

TCE 0.85 91 eP 37 52.74 0.9
 eS 38 03.74
 TRN 1.20 93 eP 37 56.38 -0.3
 eS 38 11.27
 TPP 1.21 109 eP 37 57.34 0.4
 eS 38 12.79
 TBH 1.54 98 eP 38 00.72 -1.0
 eS 38 20.92
 GRW 1.72 33 eP 38 04.29 0.0
 eS 38 26.19
 S.D. = 1.0 on 5 of 5 obs.

APR 15, 1993 13h 32m 38.21±0.12s
 18.182 S ±3.3km 178.092 W ±3.5km
 DEPTH = 457.0km (17 depth phases)
 5.1mb (67 obs.)

FIJI ISLANDS REGION (181)
 Mw 5.6 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 37S, 80C
 Centroid Location:
 Origin Time 13:32:46.6 0.3
 Lat 17.855 0.03 Lon 177.98W 0.02
 Dep 481.8 1.4 Half-duration 1.7
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.78 0.04 Mtt=-1.31 0.07
 Mff= 0.54 0.07 Mrt=-2.92 0.06
 Mrf=-0.60 0.07 Mtf=-0.61 0.06
 Principal Axes:
 T Vol= 2.84 Plg=55 Azm=174
 N 0.70 4 78
 P -3.54 35 346
 Best Double Couple: Mo=3.2*10**17
 NP1: Strike= 59 Dip=11 Slip= 71
 NP2: 259 80 94

SVA 3.28 271 eP 33 50.90 2.4
 eS 34 49.90
 VUN 3.28 273 iPc 33 50.30 1.8
 eS 34 50.80
 DZM 15.03 253 iPc 35 50.70 0.0
 IS 38 38.00

OUZ 18.51 202 P 36 28.80 3.6X
 WCZ 18.91 199 eP 36 32.50 3.4X
 KUZ 19.28 195 P 36 35.10 2.4
 HBZ 19.60 189 eP 36 37.10 1.3
 WLZ 20.38 194 eP 36 45.30 2.0
 0.7s 59.00nm 5.2mb

URZ 20.44 191 eP 36 42.10 -1.7
 eS 39 59.50
 e 40 15.00

NOZ 20.64 189 eP 36 46.30 0.5
 MOZ 21.18 196 eP 36 52.70 1.9
 PGZ 22.88 191 eP 37 05.90 -0.5
 MNG 23.03 193 P 37 07.10 -0.8
 MTW 23.55 192 eP 37 11.40 -1.2
 CAW 23.59 193 eP 37 11.50 -1.5
 MRW 23.79 194 eP 37 12.50 -2.2
 ORZ 23.97 198 eP 37 16.70 0.4
 e 37 18.80 7kmX

THZ 24.73 196 eP 37 22.80 -0.5
 DSZ 25.03 198 eP 37 25.50 -0.4
 KHZ 25.19 195 eP 37 26.00 -1.3
 0.7s 73.00nm 5.3mb

LTZ 25.85 196 P 37 31.60 -1.7
 WVZ 26.56 199 eP 37 38.80 -0.7
 AFR 26.95 93 iPc 37 42.50 -0.6
 0.9s 193.90nm 5.5mb

PAE 27.12 93 iPc 37 44.20 -0.5
 1.0s 345.60nm 5.8mb

PPT 27.14 93 iPc 37 44.50 -0.3
 1.3s 756.70nm 6.0mb

PPN 27.28 93 iPc 37 45.50 -0.5
 1.0s 138.00nm 5.4mb

TVO 27.42 94 iPc 37 47.00 -0.4
 1.2s 0.46nm 2.8mb X

BWZ 28.14 198 eP 37 52.00 -1.3
 BRS 28.32 246 iPc 37 56.00 0.8
 0.7s 8.00nm 4.3mb

ODZ 28.39 197 eP 37 55.60 0.0
 e 39 23.00
 e 39 17.40

LRCZ 28.79 199 eP 37 58.00 -1.2
 SBCZ 28.82 199 eP 37 58.30 -1.1
 LSCZ 28.82 199 eP 37 58.20 -1.2
 PMO 29.09 88 iPc 38 01.50 -0.4
 1.4s 590.70nm 5.8mb

VAH 29.30 89 iPc 38 03.10 -0.7
 1.0s 184.00nm 5.5mb

TPT 29.36 88 iPc 38 03.80 -0.4
 1.4s 374.70nm 5.6mb

TUZ 29.51 198 eP 38 05.50 0.3
 RUV 29.55 89 iPc 38 05.30 -0.6
 1.3s 384.10nm 5.7mb

ARMA 30.07 240 iPc 38 11.10 0.6
 0.4s 25.00nm 5.0mb

SIZ 30.78 199 eP 38 16.10 -0.2
 RMO 31.69 249 iPc 38 24.60 0.3
 0.5s 70.00nm 5.4mb

CNB 33.50 233 iPd 38 40.50 1.0
 0.5s 86.00nm 5.4mb

CTA 33.70 261 iPc 38 41.00 -0.3
 1.0s 65.00nm 5.0mb

CAN 33.78 233 iPc 38 42.50 0.6
 i 38 52.70 36kmX

BWA 33.91 235 iPc 38 41.40 -1.6
 CMS 35.15 241 iPc 38 53.70 0.3
 0.5s 38.00nm 5.1mb

OLP 35.72 250 iPc 38 57.90 -0.3
 TOO 37.23 231 iPc 39 11.50 0.9
 0.6s 114.00nm 5.5mb

STK 38.77 242 iPc 39 24.00 0.8
 0.4s 27.50nm 5.1mb

BFD 39.31 233 iPc 39 28.00 0.4
 0.9s 46.00nm 4.9mb

ADE 41.74 238 eP 39 48.20 0.8
 MHA 43.91 31 eP 40 03.68 -0.7
 HKL 44.18 30 (P) 40 05.79 -1.3
 WB2 44.87 260 iPd 40 10.50 -1.6
 0.3s 15.40nm 4.9mb

WRA 44.88 260 P 40 03.00 -9.2X
 1.5s 0.20nm 2.3mb X
 WRA 44.88 260 P 40 09.10 -3.1
 0.6s 26.10nm 4.9mb

ASPA 45.01 254 iPc 40 12.60 -0.6
 1.0s 429.30nm 5.8mb
 Z 22s 0.30um 4.2msz
 IS 46 14.50
 iScS 49 18.80

GUA 48.22 308 eP 40 37.20 -0.6
 0.7s 295.89nm 5.8mb
 GUMO 48.28 308 ePd 40 37.30 -1.0
 0.8s 339.60nm 5.8mb

PJG 48.28 308 eP 40 37.40 -0.9
 MTN 49.09 269 iPd 40 43.10 -1.4
 0.8s 372.00nm 5.9mb

KNA 50.74 264 eP 40 55.50 -1.2
 WARB 51.48 251 eP 41 00.50 -1.5
 0.4s 57.00nm 5.3mb

SWI 52.60 283 ePd 41 09.50 -0.8
 COOL 56.11 245 eP 41 33.00 -2.1
 MEEK 58.62 249 iPc 41 50.50 -1.9
 0.4s 21.00nm 4.9mb

KLB 58.97 244 eP 41 53.30 -1.4
 0.6s 35.00nm 5.0mb

NWAO 59.35 242 eP 41 55.50 -1.7
 RKG 59.47 240 eP 41 58.00 0.0
 BAL 59.94 245 eP 42 00.00 -1.2

MUN 60.27 243 eP 42 02.50 -0.8
 0.6s 91.00nm 5.4mb

MRWA 60.67 246 eP 42 05.00 -1.0
 0.6s 16.00nm 4.7mb

NANU 61.94 254 iPc 42 14.10 -0.3
 0.5s 57.00nm 5.4mb

KAKJ 66.96 324 P 42 44.90 -0.9
 CHJJ 67.51 323 P 42 48.20 -1.0
 WKYJ 68.25 320 P 42 53.50 -0.4

OFUJ 68.28 327 eP 42 53.00 -0.8
 MAT 68.30 323 iPd 42 52.70 -1.4
 0.8s 44.03nm 5.1mb

NIJJ 68.36 324 P 42 51.10 -3.3X
 YAMJ 68.46 326 eP 42 54.40 -0.6

TSRJ 68.91 321 P 42 57.20 -0.6
 TKSJ 69.05 319 P 42 58.90 0.2

TKSJ 69.05 319 P 42 59.00 0.3
 KAGJ 69.35 315 eP 43 00.90 0.4
 ADK 69.77 1 eP 42 58.54 -4.0X
 0.5s 36.93nm 5.3mb

KUSJ 69.91 332 eP 43 02.60 -1.0
 YONJ 70.21 319 P 43 05.10 -0.5

KUMJ 70.21 316 eP 43 05.30 -0.4
 PIP 70.31 298 eP 43 06.50 0.0

SMY 70.94 355 eP 43 07.30 -2.1
 SHNJ 71.02 317 P 43 08.60 -1.7

MRRJ 71.09 329 eP 43 10.10 -0.4
 ASAJ 71.64 331 eP 43 14.50 0.8
 SPA 71.93 180 iPc 43 16.00 1.4

LEM 73.01 268 ePc 43 24.00 1.5
 SSE 76.15 310 P 43 39.00 -0.5
 1.0s 9.00nm 4.3mb

Z 24s 1.00um 5.0mszx
 S 52 44.00
 SKS 53 08.00

BCH 76.43 46 eP 43 41.57 0.4
 NTYM 76.58 42 eP 43 41.49 -0.2

ARN 76.69 43 eP 43 42.42 -0.1
 PLM 77.69 49 eP 43 47.54 -0.6

PEC 77.76 48 eP 43 48.06 -0.3
 0.5s 10.73nm 4.7mb

ISA 77.79 46 eP 43 48.62 0.1
 1.4s 58.53nm 5.0mb

CMB 77.83 43 iP 43 48.58 -0.1
 0.8s 17.20nm 4.7mb

ORV 78.00 41 eP 43 49.02 -0.4
 NJ2 78.34 309 Pd 43 51.60 0.2
 1.2s 20.00nm 4.6mb

MDJ 78.58 325 Pd 43 52.50 0.1
 1.0s 74.00nm 5.2mb

GSC 78.75 47 eP 43 52.89 -0.8
 LBFM 78.81 40 eP 43 54.07 0.1
 KVN 79.89 43 eP 44 00.01 0.3
 TNP 79.94 44 eP 43 59.69 -0.3

% APR 15, 1993 13h 46m 02.73± 0.94s
40.797 N ± 5.0km 27.869 E ±10.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

? APR 15, 1993 13h 55m 19.59±3.64s
11.948 N ±30.3km 89.165 W ±40.2km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Felt (11) at San Salvador, El
Salvador.

APR 15, 1993 14h 40m 09.05± 0.91s
44.202 N ± 4.1km 6.164 E ± 8.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG), 1.7 (STR).

			eSg	40	36.40	
AUTN	0.93	102	Pg	40	27.75	0.7
			Sg	40	43.72	
SBF	0.98	110	Pn	40	27.40	-0.3
			Pg	40	28.70	
			Sg	40	41.10	
SAOF	1.03	102	Pg	40	28.24	-0.2
			Sg	40	45.47	
LPG	1.36	18	Pg	40	34.50	0.2
			Sg	40	52.10	
LPL	1.37	17	Pg	40	34.40	-0.1
			Sg	40	52.80	
PGF	2.65	128	Pn	40	50.80	-1.8
	S.D. = 0.7	on		14	of 14	obs.

* APR 15, 1993 14h 45m 00.05± 1.13s
36.298 N ± 6.6km 26.630 E ±12.4km
DEPTH = 130.8 ± 8.0 km
4.5mb (1 obs.)
DODECANESE ISLANDS (369)
MD 4.3 (HLW).

YER	1.57	57	iP _n	45	39.00	1.6
CIN	1.75	41	iPd	45	39.00	-0.4
IZM	2.16	13	iP _n	45	42.90	-1.6
ELL	2.68	79	iP _n	45	53.60	2.4
KHL	3.07	48	eP _n	45	56.00	-0.3
PPCY	4.87	105	eP	46	20.00	-0.3
			eS	47	14.60	
CSS	5.62	102	eP	46	30.40	-0.1
			eS	47	31.00	
KOT	7.70	144	eP _n	46	58.50	-0.3
ADI	7.77	112	eP	46	59.10	-0.7
SHMJ	8.34	113	P	47	06.00	-1.4
JVI	8.44	119	eP	47	08.90	0.1
MASJ	8.81	119	P	47	14.00	0.2
SAGI	9.05	130	eP	47	16.90	-0.1
			eS	48	52.80	
SHWJ	9.48	126	P	47	22.00	-0.8
HQL	9.96	132	iP _c	47	29.30	0.3
			eS	49	16.00	
HSJJ	10.07	130	P	47	30.40	-0.2
BADA	10.49	135	eP	47	36.30	0.3
BCAO	32.57	195	iP _c	51	29.80	0.9
	0.5 s	5.00 nm				4.5 mb
GKN	49.18	82	P	53	45.00	0.2
DMN	49.72	83	P	53	49.20	0.1
KKN	49.78	82	P	53	49.40	-0.1
GUN	50.21	82	P	53	53.00	0.1

S.D. = 0.9 on 22 of 22 obs.

% APR 15, 1993 14h 49m 39.01± 0.57s
26.929 S ± 5.1km 26.793 E ± 6.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

BFS	0.03	347	iPc	49	40.20	-0.1
			S	49	40.60	
PRY	0.61	90	eP	49	51.50	0.3
			S	49	58.50	
KSR	1.06	5	eP	49	59.50	-0.1
			S	50	11.50	
SWZ	1.33	259	eP	50	05.10	0.9
			S	50	26.20	
SEK	1.57	152	iPd	50	08.50	0.7
			S	50	29.00	
SLR	1.79	49	eP	50	10.60	-0.3
			S	50	33.50	
BLF	2.24	194	iPc	50	16.00	-0.6
			S	50	45.00	
FRS	3.10	204	iPd	50	28.60	-0.8
			S	51	04.00	

S.D. = 0.7 an 8 af 8 abs.

* APR 15, 1993 15h 23m 35.62± 0.93s
24.187 S ± 7.6km 67.027 W ± 33.8km
DEPTH = 202.2 ± 18.6 km
3.8mb (1 obs.)

CHILE-ARGENTINA BORDER REGION (127)

SLA	1.50	111	iPc	24	10.20	0.2
HJA	1.77	57	iPd	24	12.60	0.3
FSA	2.10	154	iP	24	16.40	0.8
YJA	2.45	35	ePd	24	19.50	-0.5
CYA	4.38	166	ePc	24	43.40	0.5
CNCB	7.39	353	iPc	25	23.00	0.6

TCA	7.44	164	IP	25	21.00	-1.6
ZOBO	7.94	352	P	25	28.70	-1.1
SIV	9.89	36	P	26	05.40	11.1X
YKA	94.29	340	eP	36	33.20	0.8
	0.5s		0.40nm			3.8mb

S.D. = 1.1 on 9 of 10 obs.

APR 15, 1993 16h 11m 19.81 ± 0.24s
7.349 S ± 4.2km 156.129 E ± 5.7km
DEPTH = 26.7km (12 depth phases)
5.2mb (34 obs.) 4.9Msz (4 obs.)
SOLOMON ISLANDS (193)

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mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 26C
Centroid Location:
Origin Time      16:11:24.6 1.1
Lat 7.31S 0.12 Lon 156.09E 0.08
Dep 18.7 3.7 Half-duration 1.0
Moment Tensor:   Scale 10**16 Nm
  Mrr= 7.11 0.39  Mtt=-1.65 0.70
  Mff=-5.46 0.60  Mrt= 7.82 1.86
  Mrf=-2.06 1.49  Mtf= 3.42 0.38
Principal Axes:
  T Val= 11.70      Plg=60      Azm= 0
  N      -1.84      20        128
  P      -9.86      22        226
Best Double Couple: Mo=1.1*10**17
NP1: Strike=349 Dip=29 Slip= 135
NP2:      120      70      69

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HNR	4.31	119	eP	12	26.00	0.8
			eS	12	35.00	
RAB	5.04	308	iP	12	43.50	7.9X
			iS	15	20.00	
LAT	9.09	274	eP	13	33.90	1.6
PMG	9.11	256	eP	13	37.50	4.9X
CTA	15.87	216	iPc-	15	03.50	0.3
Z	18s		9.97um			
			i	15	13.50	
			i	15	29.50	
			e	15	39.00	
			e	17	20.00	
			eS	18	06.00	
			e	18	17.00	
			eScS	25	04.00	
DZM	17.70	147	iPc	15	26.90	0.7
BRS	20.19	189	iP	15	56.50	1.1
	1.3s		13.00nm			4.1mb X

			i	16	66.00	13kmX
			eS	19	45.00	
RMO	20.29	199	eP	15	55.40	-1.0
	0.8s	146.00nm				5.4mb
			i	15	58.80	13kmX
QLP	22.22	209	iPd	16	15.30	-0.7
			i	16	22.20	25km
ARMA	23.34	190	eP	16	32.10	5.1X
	1.0s	44.00nm				4.9mb
GUA	23.55	332	eP	16	30.50	1.4
	0.4s	54.24nm				5.4mb
GUMO	23.62	332	eP	16	29.80	0.1
	0.8s	93.20nm				5.4mb
W82	24.55	237	eP	16	39.10	0.3
	1.0s	19.20nm				4.6mb
			i	16	46.20	25km
			eS	20	16.90	
MTN	25.20	255	iPc	16	46.50	1.5
CMS	25.87	200	eP	16	50.30	-0.8
	1.0s	66.00nm				5.2mb
			i	16	57.80	27km
CNB	28.52	192	iPd	17	24.40	9.1X
	1.1s	34.00nm				5.0mb
TOO	31.60	196	eP	17	48.40	5.7X
	1.0s	23.00nm				5.0mb
ADE	31.81	208	eP	17	50.00	5.4X
BFD	32.16	201	eP	17	53.50	6.0X
	0.9s	11.00nm				4.8mb
WARB	33.74	233	eP	18	00.00	-1.4
CTB	34.97	294	eP	18	15.00	2.9
PLP	36.04	300	ePc	18	20.20	-1.0
MEEK	40.46	237	eP	18	58.00	-0.1
NANU	41.87	244	eP	19	09.00	-0.6
	0.6s	30.00nm				5.2mb
BCP	42.34	304	eP	19	13.20	-0.6
BAG	42.36	304	ePc	19	14.00	0.1

KLB	1.2s	250.00nm	5.8mb	LSA	72.40	304	iPc	22	47.30	0.8	0.2s	12.00nm	ic	30	43.90					
	43.12	231	eP	19	19.00	-0.8		1.2s	24.00nm	5.1mb			id	30	53.00					
BAL	43.53	233	eP	19	27.00	27km	IRK	73.95	330	ePc	22	55.00	25km							
		e	19	23.00	-0.1			1.5s	33.00nm	5.1mb			EVIA	143.36	331	ePKP	30	51.45	-2.6	
MRWA	43.56	235	eP	19	22.30	-1.1	Z	17s	0.64um	5.0mszX			EBAN	144.34	332	iPKPc	30	54.04	-1.6	
		e	19	31.00	27km		N	13s	0.50um				ENIJ	144.52	329	iPKPd	30	54.04	-1.9	
MUN	44.48	231	eP	19	30.60	-0.2	E	16s	0.46um				ECOG	144.95	331	iPKPd	30	55.04	-1.8	
		e	19	38.00	25km								ELUQ	145.05	332	iPKPc	30	56.31	-0.6	
KAGJ	45.30	329	P	19	38.60	1.3							EHOR	145.28	334	iPKPc	30	57.11	-0.1	
WKYJ	45.69	336	P	19	40.50	0.1	GUN	76.26	301	P	23	31.00	154kmX	EGUA	145.31	331	iPKPc	30	56.24	-1.1
IIDJ	45.93	339	P	19	42.70	0.4	PKI	76.57	301	P	23	08.40	-0.3	EPRU	145.98	333	iPKPc	30	59.40	0.9
CHJJ	46.08	341	P	19	43.50	0.1	KKN	76.74	301	P	23	09.80	-0.6	EVAL	146.12	335	iPKPc	30	59.94	1.3
TKSJ	46.13	334	P	19	44.00	0.2	DMN	76.84	300	P	23	10.80	-0.4	EJIF	146.51	333	ePKP	31	01.01	1.7
KUMJ	46.41	330	P	19	46.50	0.5	GKN	77.35	301	P	23	11.80	-0.1	BAO	146.95	134	ePKP	31	00.90	0.2
TSRJ	46.69	337	P	19	48.80	0.6	WMQ	79.85	317	iPc	23	14.20	-0.3			i	31	11.00		
MAT	46.79	340	eP	19	48.00	-1.0									e	31	31.80			
	0.7s	9.59nm	4.9mb				Z	17s	48.00nm	5.3mb			BDF	146.99	134	iPKPd	31	02.00	1.2	
		eS	26	33.00			N	13s	0.88um	5.2mszX					e	31	09.80			
NIIJ	47.16	341	P	19	53.50	1.6	E	13s	0.56um											
YONJ	47.41	335	P	19	54.30	0.4	HYB	80.45	289	eP	23	0.57um								
SHNJ	47.57	332	P	19	54.80	-0.4	GBA	80.83	285	Pc	23	30.50	-0.9							
YAMJ	47.71	343	eP	19	56.70	0.5	IMA	81.78	18	(P)	23	34.00	0.7							
OFUJ	48.10	345	eP	20	01.50	2.2		0.9s	1.95nm	4.1mb X										
LEM	48.13	267	ePc	20	03.00	2.9	SPA	82.70	180	iPc	23	34.52	-3.0							
SSE	50.79	321	Pd	20	19.50	-0.5		0.9s	18.64nm	5.2mb										
	1.4s	27.00nm	5.0mb				FBA	83.04	21	eP	23	41.90	-0.5							
	Z	20s	0.50um			4.5msz		0.8s	6.14nm	4.8mb										
QIZ	52.61	301	P	20	34.00	0.0	MAW	84.50	203	eP	23	41.68	-2.2							
NJ2	52.90	320	Pd	20	36.80	0.8	KSH	87.08	310	P	23	52.00	0.7							
	1.0s	16.00nm	4.9mb					1.5s	120.00nm	5.9mb										
	Z	14s	0.65um			4.8mszX	Z	16s	0.95um	5.3mszX										
KGM	53.50	278	eP	20	46.50	5.8X	E	14s	1.01um											
WHN	54.98	315	Pc	20	51.00	-0.2			pP	24	17.00	33km								
IPM	56.25	280	ePd	20	59.40	-1.3			sP	24	22.00									
	0.6s	21.50nm	5.4mb						PP	27	27.00									
TIA	56.73	322	Pc	21	02.60	-1.2			SKS	34	27.00									
	0.8s	82.00nm	5.8mb						S	34	43.00									
	Z	26s	0.60um			4.6mszX			sS	35	04.00									
	E	14s	0.81um				INK	89.65	20	eP	24	18.00	1.7							
MDJ	56.99	338	eP	21	05.20	-0.3	QUE	92.94	300	eP	24	18.00	0.5							
SNY	57.29	331	eP	21	06.80	-0.8	MBC	95.78	14	eP	24	33.00	0.5							
	Z	18s	0.95um			4.9msz	YKA	96.12	28	eP	24	44.00	-0.4							
	E	13s	0.58um					1.3s	4.30nm	4.7mb										
CN2	57.99	334	eP	21	13.00	0.5	NB2	120.40	341	PKP	30	54.50	8.4X							
	1.0s	5.80nm	4.6mb					0.6s	0.60nm	-0.9										
GYA	58.56	307	iPc	21	17.00	0.0	KSP	125.37	330	ePKP	30	09.20	-0.9							
	1.0s	12.00nm	4.9mb						e	30	19.70	-0.2								
LOE	59.10	295	eP	21	20.00	-0.7	SRO	126.10	326	iPKP	30	28.00								
BJI	59.85	325	eP	21	24.50	-0.9	BRG	126.50	331	ePKP	30	29.20	7.7X							
	1.6s	47.00nm	5.4mb					1.2s	13.00nm	-0.2										
	Z	16s	0.88um			5.0mszX			e	30	22.00									
	E	18s	1.08um				ZST	126.55	327	ePKP	30	30.00								
NST	59.98	293	eP	21	26.00	-0.8			e	30	21.80	-0.5								
TIY	60.57	321	Pc	21	30.50	0.0	CLL	126.65	332	ePKP	30	21.80	-0.4							
XAN	60.74	316	P	21	30.50	-1.2			i	30	30.60									
	1.2s	14.00nm	5.0mb				PRU	126.78	330	ePKP	30	30.60	-0.4							
	Z	15s	0.63um			4.9mszX	SKO	127.22	318	iPKP	30	22.00	-0.7							
	N	12s	0.31um					1.1s	37.00nm	-1.0										
KMI	61.15	304	Pc	21	35.00	0.1	MOX	127.75	332	ePKP	30	21.80	-0.5							
	1.6s	80.00nm	5.6mb						e	30	21.80	-0.4								
	Z	20s	0.70um			4.8msz	KHC	127.81	330	PKP	30	24.50	0.0							
CHG	62.07	296	ePc	21	40.50	-0.5		1.3s	12.00nm	-0.3										
	1.2s	36.33nm	5.4mb						e	30	24.50	-0.3								
CD2	62.90	310	iPc	21	45.70	-0.6	GEC2	127.93	329	ePKPd	30	32.70								
	0.7s	34.00nm	5.6mb					1.4s	10.75nm	-0.1										
HHC	63.04	323	P	21	47.00	-0.1			e	30	25.00									
	1.0s	26.00nm	5.3mb				VBY	129.16	325	ePKP	30	33.10								
	Z	22s	0.90um			4.9msz			eP' d f	30	41.40									
BTO	63.82	322	P	21	52.00	-0.3	CNCB	130.21	119	PKP	30	27.30	-0.1							
	N	14s	0.52um						eP	30	35.60									
	E	14s	0.69um				LPB	130.23	119	ePKP	30	31.10	0.2							
LZH	65.36	315	Pc	22	02.00	-0.4	BSF	131.97	332	ePKP	30	30.30	-0.2							
	1.5s	73.00nm	5.6mb					1.4s	24.40nm	0.0										
	N	14s	0.73um				LPL	133.68	330	ePKP	30	32.80	2.2							
		pP	22	14.00	41kmX		LPG	133.68	330	ePKP	30	36.80	0.0							
GTA	69.77	317	iPc	22	30.00	0.0	SDV	133.70	85	ePKP	30	37.10	0.7							
	1.0s	43.00nm	5.5mb				SSF	133.70	85	ePKP	30	32.60	-4.6X							
	Z	16s	1.72um			5.4mszX	BNI	134.02	334	ePKP	30	37.10	0.5							
	E	15s	0.82um				SMF	134.04	330	PKP	30	37.80	0.9							
		pP	22	38.50	27km		FLN	134.19	333	ePKP	30	37.30	0.4							
SHL	70.44	300	iPc	22	34.40	-0.1	AVF	134.24	338	ePKP	30	30.30	-6.6X							
YAK	72.12	347	eP	22	42.60	-1.0	SIV	134.30	334	ePKP	30	37.6								

GTA	40.62	278	eP	35	43.00	-0.4	BSF	79.85	340	eP	40	01.30	-0.7	eS	08	30.54				
	1.0s	10.00nm		35	33.50	4.5mb		1.0s	10.40nm			4.8mb		XLV	0.67	142	eP	08	18.25	-0.7
MBC	41.67	21	eP	35	42.00	0.2	OSS	80.10	337	ePd	40	03.90	0.4	AUL	0.76	218	eP	08	19.37	-0.4
CD2	43.10	265	eP	35	54.50	0.4	LLS	80.22	338	ePd	40	05.00	0.8	AUW	0.78	218	iP	08	19.12	-0.8
GYA	44.20	258	iPd	36	03.40	0.2	CTI	80.30	336	P	40	04.50	0.1	AUI	0.80	215	eP	08	20.46	0.4
	1.2s	38.00nm		36	03.40	5.1mb	FLN	80.43	345	eP	40	04.60	-0.4				eS	08	33.25	
WMO	45.97	291	eP	36	17.00	-0.1		1.0s	23.20nm			5.2mb		CNPM	0.80	125	iP	08	19.26	-0.9
QIZ	47.63	248	eP	36	31.60	1.3	Z	22s	0.25um			4.5Msz					eS	08	33.93	
KMI	47.66	260	Pd	36	31.00	0.2	VDL	80.46	337	ePd	40	06.00	0.6	BRLK	0.86	104	eP	08	19.92	-0.8
	1.5s	60.00nm		36	31.00	5.4mb	LDF	80.53	344	eP	40	05.10	-0.4				eS	08	34.10	
YKA	47.81	39	eP	36	30.30	-0.9	GRR	1.0s	20.00nm			5.1mb		PDB	0.86	257	iP	08	19.85	-0.9
	0.7s	1.20nm		36	39.50	28km		80.86	345	eP	40	07.30	0.1				eS	08	34.14	
SHL	54.45	269	eP	37	21.50	-0.6	SKO	1.1s	42.75nm			5.4mb		NKA	0.99	40	iP	08	23.12	1.1
GUN	56.80	276	P	37	38.00	-1.3	TMA	80.92	328	iP	40	08.30	0.6	CKL	1.22	4	iP	08	23.92	-0.8
KKN	57.28	276	P	37	41.60	-0.9	LOR	80.97	338	ePd	40	08.60	0.5				eS	08	41.47	
PKI	57.34	276	P	37	42.00	-1.1		81.03	341	eP	40	07.80	-0.4	MCNL	1.22	230	iP	08	23.36	-1.3
DMN	57.51	276	P	37	44.00	-0.2	Z	1.0s	14.00nm			4.9mb					eS	08	40.15	
GKN	57.55	276	P	37	53.40	9.1X	VAY	20s	0.10um			4.2Msz		SPU	1.22	11	iP	08	23.86	-0.9
BGMT	58.76	56	ePc	37	52.30	-0.4	LPF	81.09	326	iP	40	08.80	0.3				eS	08	41.94	
				37	52.30	-0.4		81.23	345	eP	40	09.40	0.2	CKT	1.23	7	iP	08	23.96	-0.9
FR8	62.13	21	eP	38	06.00	50kmX	1.0s	1.0s	22.80nm			5.2mb		CKN	1.25	8	iP	08	24.43	-0.7
SRU	63.66	60	eP	38	13.00	-2.1	MMK	81.24	338	ePd	40	10.90	1.3	SLKM	1.26	64	eP	08	23.77	-1.4
				38	24.86	-0.9	LBF	81.27	341	eP	40	09.10	-0.4	BGL	1.28	3	iP	08	24.82	-0.7
RSSD	63.76	52	ePc	38	25.94	-0.5	SSF	81.30	341	eP	40	09.50	-0.1	CPAM	1.29	8	iP	08	24.91	-0.7
	0.7s	2.47nm		38	25.94	4.4mb		1.0s	9.00nm			4.8mb		CP2	1.29	6	iP	08	25.06	-0.7
HFS	66.92	341	eP	38	47.60	1.4	DIX	81.35	339	ePd	40	11.50	1.3	CRP	1.30	8	ePd	08	24.45	-1.3
	0.4s	2.30nm				4.6mb	EMS	81.47	339	ePd	40	11.50	0.8	CGLM	1.35	11	eP	08	25.68	-0.6
HY8	68.95	272	ePd	38	59.30	-0.2	AVF	81.59	341	eP	40	11.10	0.1	SYI	1.38	177	eP	08	25.47	-1.1
WB2	71.44	202	eP	39	13.10	-1.3	SMF	1.4s	31.80nm			5.2mb		SEW	1.55	84	eP	08	27.25	-1.3
	0.8s	4.10nm				4.6mb		1.5s	46.50nm			5.3mb		MPA	1.66	71	iP	08	29.11	-0.9
WRA	71.44	202	P	39	14.10	-0.4	BGF	81.91	342	eP	40	12.90	0.1	SUA	1.72	30	iP	08	30.22	-0.7
	0.6s	2.30nm				4.4mb	LPL	82.04	339	eP	40	14.50	0.8				eS	08	52.38	
GBA	72.45	271	P	39	23.00	2.3	LPG	0.6s	8.50nm			5.0mb		SVW	1.90	308	eP	08	31.80	-1.4
EKA	74.48	348	Pd	39	31.80	-0.1	PGD	82.05	339	eP	40	14.60	0.7	PMS	1.93	48	iP	08	32.41	-1.2
	0.5s	6.60nm				4.9mb		0.7s	10.05nm			5.0mb		PTE	1.95	62	eP	08	32.52	-1.2
KSP	74.65	335	eP	39	33.20	0.2	MAF	82.28	335	Pd	40	16.50	1.6				eS	08	55.87	
SPC	74.96	332	eP	39	36.00	1.0		82.29	342	eP	40	15.10	0.3	SKT	2.06	13	iP	08	33.89	-1.3
CLL	75.11	337	iPd	39	35.50	-0.1	TCF	0.7s	9.80nm			5.0mb		PWA	2.12	37	eP	08	35.12	-0.8
	1.4s	31.00nm				5.1mb	HRI	82.30	342	eP	40	14.90	0.1	GHO	2.51	43	eP	08	39.43	-1.9
				39	50.00	51kmX	BDI	82.35	313	eP	40	16.10	0.7	SML	2.75	46	eP	08	42.27	-2.1
BRG	75.26	336	eP	39	35.80	-0.7	MFF	82.42	336	P	40	16.70	1.2	KLU	3.58	62	eP	08	53.21	-2.5
	1.3s	14.00nm				4.8mb		82.45	344	eP	40	15.60	0.0	TRF	3.64	16	eP	08	55.82	-0.8
				39	53.50	65kmX	LSF	0.7s	6.40nm			4.8mb								
PRU	75.91	336	eP	39	39.50	-0.6	BNI	82.47	343	eP	40	16.00	0.3							
	18s	0.40um				4.8Msz	RJF	82.49	339	P	40	17.70	1.7	% APR 15, 1993 17h 53m 38.41± 1.48s						
WTS	75.93	341	eP	39	40.50	0.3		83.38	342	eP	40	20.40	0.0	10.048 N ±12.1km 69.813 W ±12.4km						
	1.0s	20.50nm				5.1mb	Z	21s	0.17um			4.4Msz		DEPTH = 10.0km (geophysicist)						
MOX	76.07	338	eP	39	40.80	-0.3	SBF	83.42	338	eP	40	20.30	-0.4	VENEZUELA (101)						
	18s	0.20um				4.5Msz	CAF	83.64	342	eP	40	22.30	0.6							
DMU	76.36	350	eP	39	43.00	0.4		0.4s	2.50nm			4.8mb		TOV	0.26	176	iPg	53	43.60	-0.3
SRO	76.78	332	eP	39	45.40	0.4	LFF	83.89	343	eP	40	23.90	0.9				iSg	53	48.00	
ZST	76.80	333	iP	39	44.50	-0.7		0.5s	8.75nm			5.2mb		SDV	1.41	215	iPnc	54	04.60	0.3
DLF	76.91	349	eP	39	45.90	0.2	FRF	83.90	338	eP	40	22.90	-0.2				iSn	54	21.50	
KHC	76.95	336	eP	39	46.00	-0.1	DSI	83.91	312	eP	40	23.90	0.6	MORO	1.68	61	iPd	54	07.20	-0.9
	18s	0.60um				5.0Msz	LPO	84.05	342	eP	40	24.10	0.3				iS	54	29.60	
	18s	0.40um						0.5s	3.00nm			4.8mb		CEOS	1.77	125	iP	54	09.00	-0.4
E	18s	0.30um					LRG	84.07	338	eP	40	24.40	0.5				iS	54	30.50	
				40	01.50	55kmX	LMR	84.15	338	eP	40	24.30	0.0	PLAV	2.28	94	eP	54	18.10	1.2
DCN	76.95	350	eP	39	45.80	-0.1	PGF	84.25	336	eP	40	24.70	-0.3				iS	54	46.80	
GRF	77.05	337	ePc	39	46.60	0.0	SAGI	85.37	312	eP	40	31.20	0.5	GUAC	2.51	87	iP	54	19.70	-0.3
	1.2s	41.00nm				5.3mb	EPF	85.80	342	eP	40	33.40	0.7				iS	54	50.80	
	18s	0.30um				4.7Msz		0.6s	2.45nm			4.6mb		OLLA	2.96	90	iP	54	26.30	-0.2
				40	02.20	56kmX		S.D. = 0.9 on 114 of 120 obs.						LLAV	2.99	82	iP	54	27.50	0.7
GEC2	77.18	336	ePd	39	46.60	-0.8	& APR 15, 1993 17h 08m 01.22s													
	0.5s	4.08nm				4.7mb	59.985 N 152.525 W							% APR 15, 1993 18h 09m 19.86± 0.74s						
KBA	78.89	335	iPc	39	57.10	0.2	DEPTH = 103.2km							40.406 N ±11.2km 28.926 E ± 6.0km						
	0.9s	43.70nm				5.5mb	SOUTHERN ALASKA (2)							DEPTH = 10.0km (geophysicist)						
WTTA	79.18	336	iPc	40	09.50	42kmX	<AEIC>							TURKEY (366)						
	1.1s	45.90nm				5.4mb								MD 2.5 (ISK).						
CDF	79.19	339	eP	40	06.40	24km	INE	0.28	286	eP	08	15.51	0.6							
	1.1s	24.40nm				5.1mb				eS	08	27.20		YLV	0.38	65	iPg	09	27.70	0.1
MOTA	79.24	337	iPc	39	58.70	-0.1	INW	0.32	285	eP	08	15.68	-0.9				eSg	09	34.70	
	1.0s	30.30nm				5.3mb				S	08	27.94		BNT	0.77	267	ePg	09	35.00	0.1
SQTA	79.33	337	iPc	39	59.20	-0.1	OPT	0.49	227	iP	08	16.66	-0.9	EDC	0.81	266	iPg	09	35.50	-0.1
	1.3s	44.30nm				5.3mb				eS	08	28.07					iSg	09	47.50	
RBL	79.41	335	P	39	58.80	-0.8	RS1	0.49	346	iP	08	17.07	-0.7	DST	0.83	196	ePn	09	36.00	0.0
SLE	79.51	338	ePd	40	00.40	0.3				eS	08	29.11		EYL	0.95	80	ePg	09	38.00	-0.1
HAU	79.78	340	eP	40	01.10	-0.5	RSO	0.49	347	iP	08	17.03	-0.7							
	1.1s	16.10nm				5.0mb				eS	08	29.21								
	22s	0.17um				4.4Msz	RS2	0.49	347	iP	08	17.07	-0.7							
ZLA	79.80	338	ePd	40	02.30	0.6				eS	08	29.48		? APR 15, 1993 18h 13m 38.18± 0.92s						

BJI 17.47 326 eP 17 41.50 0.7
 Z 14s 0.88um
 N 12s 0.61um
 E 12s 0.31um
 WRA 46.11 173 P 22 01.50 0.4
 0.6s 0.90nm 3.9mb
 FBA 63.84 28 (P) 24 07.80 -1.5
 INK 68.74 23 eP 24 42.00 1.6
 MBC 69.78 14 eP 24 47.00 0.3
 YKA 78.36 25 eP 25 36.70 0.2
 1.2s 0.70nm 3.6mb
 NB2 79.66 334 P 25 42.20 -1.5
 0.8s 1.90nm 4.1mb
 GEC2 85.64 323 ePd 26 14.50 -0.3
 1.0s 1.37nm 4.1mb
 e 26 26.80
 S.D. = 1.3 on 8 of 8 obs.

* APR 15, 1993 18h 30m 46.19±0.69s
 39.708 N ± 8.6km 142.325 E ±12.3km
 DEPTH = 33.0km (normal)
 4.3mb (7 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ 0.81 219 iPd 31 00.40 -0.7
 S 31 09.30
 AOMJ 1.72 300 P 31 15.30 1.0
 S 31 37.00
 YAMJ 2.35 230 eP 31 23.70 0.4
 eS 31 51.00
 NIJJ 3.59 228 P 31 40.30 -0.5
 KAKJ 3.89 207 P 31 43.40 -1.7
 S 32 24.30
 CHJJ 4.50 217 P 31 53.80 -0.1
 MAT 4.53 227 eP 31 54.00 -0.3
 0.7s 40.41nm
 eS 33 02.00
 MTMJ 4.73 230 P 31 58.60 1.4
 IJDJ 5.48 221 P 32 09.30 1.5
 TSRJ 6.53 232 P 32 24.50 2.1
 YONJ 8.37 240 P 32 49.90 1.8
 TKSJ 8.75 232 P 32 55.50 2.1
 YAK 23.63 345 eP 35 52.00 -2.8
 1.0s 30.00nm 4.8mb
 IMA 44.03 32 eP 38 54.50 2.3
 GUN 47.65 274 P 39 20.40 -1.3
 KKN 48.17 274 P 39 24.40 -1.2
 PKI 48.18 274 P 39 25.00 -0.8
 DMN 48.40 274 P 39 26.40 -0.9
 GKN 48.56 275 P 39 27.20 -1.3
 INK 51.69 28 eP 39 54.00 2.4
 MBC 53.76 17 eP 40 09.00 2.0
 WB2 59.80 189 eP 40 48.40 -2.1
 0.4s 2.40nm 4.7mb
 WRA 59.81 189 P 40 49.00 -1.5
 0.5s 1.00nm 4.2mb
 YKA 61.15 31 eP 40 59.50 0.2
 0.6s 0.40nm 3.7mb
 GBA 62.16 265 P 41 06.00 -0.7
 KAF 66.27 333 iP 41 31.70 -1.1
 0.6s 2.70nm 4.5mb
 NUR 67.93 332 eP 41 42.40 -0.9
 NB2 72.00 337 P 42 07.40 -0.8
 0.9s 3.70nm 4.4mb
 FRB 74.01 14 ePc 42 20.20 0.4
 KHC 80.64 329 eP 42 58.00 1.1
 GEC2 80.82 328 ePKP 42 58.00 0.1
 0.8s 0.69nm 3.7mb
 e 43 07.60
 S.D. = 1.5 on 31 of 31 obs.

? APR 15, 1993 18h 44m 58.40±5.42s
 17.642 S ±19.5km 174.388 W ±15.8km
 DEPTH = 436.3 ± 60.0 km
 4.5mb (8 obs.)
 TONGA ISLANDS (173)

DZM 18.56 253 iPc 48 47.80 0.6
 WCZ 20.79 207 eP 49 07.60 -0.9
 KUZ 20.94 203 eP 49 09.50 -0.5
 URZ 21.85 198 eP 49 17.80 -0.6
 NOZ 21.92 196 eP 49 20.30 1.2
 MNG 24.51 199 eP 49 42.30 -0.4
 ORZ 25.71 203 eP 49 54.20 0.7
 0.3s 36.00nm 5.3mb
 THZ 26.39 202 eP 50 00.50 0.8
 DSZ 26.78 203 eP 50 03.20 0.1

LTZ 27.51 202 eP 50 09.30 -0.2
 WVZ 28.32 203 eP 50 15.70 -0.9
 ARMA 33.41 241 iPd 51 00.50 0.0
 0.5s 14.00nm 4.6mb
 RMQ 35.17 249 eP 51 15.20 -0.1
 CMS 38.50 241 iPd 51 43.00 0.3
 0.5s 9.00nm 4.4mb
 QLP 39.21 249 iPd 51 48.10 -0.5
 TOO 40.34 232 iPd 51 58.60 0.9
 0.5s 8.00nm 4.4mb
 STK 42.13 242 eP 52 13.10 1.0
 0.5s 7.50nm 4.3mb
 WB2 48.43 259 iPd 53 00.20 -1.1
 0.4s 17.00nm 4.8mb
 WRA 48.44 259 P 53 00.60 -0.8
 0.5s 5.20nm 4.2mb
 WARB 54.98 250 eP 53 49.50 0.3
 FBA 84.76 11 eP 56 45.90 0.2
 1.0s 9.50nm 4.5mb
 S.D. = 0.7 on 21 of 21 obs.

? APR 15, 1993 19h 00m 13.74±1.53s
 30.879 S ±20.3km 68.351 W ±13.7km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.46 193 iPd 00 24.00 0.2
 S 00 33.50
 RTCB 0.72 212 eP 00 27.50 0.0
 RTBS 1.22 230 ePc 00 34.40 -0.2
 RTPR 1.69 71 ePc 00 41.50 0.2
 TCA 3.26 99 eP 01 03.50 -0.3
 (S) 01 54.00
 S.D. = 0.3 on 5 of 5 obs.

* APR 15, 1993 19h 12m 39.87s
 62.878 N 149.137 W
 DEPTH = 76.6km
 3.6mb (2 obs.)
 CENTRAL ALASKA (1)
 <AEIC>. Felt (III) ot Contwell.

HUR 0.25 294 iPd 12 51.41 -0.3
 eS 13 00.13
 RND 0.55 14 iPc 12 53.62 -0.4
 eS 13 03.39
 CUT 0.71 228 eP 12 55.52 0.0
 TRF 0.78 318 iPc 12 56.51 0.0
 MCK 0.86 6 iPc 12 57.30 -0.1
 eS 13 10.04
 GH0 1.11 175 iPc 13 00.27 -0.2
 eS 13 16.19
 SML 1.14 160 iPc 13 00.39 -0.4
 eS 13 16.97
 PWA 1.28 196 P 13 02.70 0.2
 S 13 21.40
 PLRM 1.29 180 iPc 13 02.60 -0.1
 eS 13 20.15
 PMR 1.29 180 ePd 13 02.26 -0.4
 S 13 19.61
 SCM 1.35 140 iPc 13 03.11 -0.4
 SKT 1.43 232 iPd 13 04.53 0.0
 eS 13 23.77
 SUA 1.61 209 ePd 13 07.43 0.4
 THY 1.63 69 eP 13 07.52 0.3
 PMS 1.65 187 P 13 07.50 0.0
 WRH 1.67 16 iPc 13 07.03 -0.7
 eS 13 26.65
 PAX 1.68 85 iPd 13 08.12 0.1
 eS 13 28.91
 SDG 1.69 100 iPd 13 08.45 0.4
 eS 13 30.31
 NEA 1.71 1 iPc 13 07.53 -0.7
 eS 13 27.56
 HDA 1.82 31 iPd 13 09.18 -0.6
 eS 13 30.76
 CCS 1.87 18 iPc 13 09.71 -0.7
 eS 13 31.89
 TZL 1.92 114 ePd 13 11.75 0.6
 PTE 2.02 178 eP 13 12.54 0.1
 KLU 2.05 131 iPc 13 12.29 -0.7
 eS 13 38.19
 CGLM 2.08 222 eP 13 14.56 1.2
 FBA 2.12 16 iPc 13 12.90 -0.9
 MDM 2.13 10 iPc 13 13.47 -0.5
 eS 13 37.37
 CRP 2.15 223 eP 13 14.04 -0.4

CPAM 2.16 222 eP 13 14.86 0.4
 CP2 2.18 223 ePc 13 15.11 0.2
 SPU 2.19 220 eP 13 14.91 0.0
 CKN 2.19 222 eP 13 15.70 0.8
 VLZ 2.20 142 iPc 13 13.70 -1.2
 CKT 2.22 222 eP 13 15.53 0.2
 BGL 2.23 225 eP 13 16.09 0.6
 GLM 2.25 19 iPc 13 15.05 -0.7
 eS 13 40.53
 CKL 2.26 223 eP 13 16.27 0.3
 MLY 2.27 343 iPc 13 15.37 -0.7
 eS 13 41.14
 NKA 2.36 206 eP 13 20.96 3.8
 MPA 2.40 183 eP 13 17.78 0.1
 DOT 2.42 69 eP 13 17.50 -0.6
 SLKM 2.43 193 eP 13 18.85 0.6
 RDT 2.79 215 eP 13 23.65 0.5
 SEW 2.79 183 eP 13 23.24 0.2
 HIN 2.79 152 iPc 13 21.69 -1.5
 CVA 2.84 144 eP 13 22.63 -1.2
 DFR 2.85 218 eP 13 24.59 0.5
 GLB 2.89 118 ePc 13 23.82 -0.7
 eS 13 57.29
 RDN 2.93 218 P 13 27.20 1.9
 NCT 2.94 220 eP 13 26.20 0.8
 RDW 2.97 218 eP 13 26.41 0.5
 RS2 2.98 217 eP 13 27.08 1.2
 RSO 2.97 217 eP 13 27.15 1.2
 RS1 2.98 217 eP 13 27.15 1.2
 SGAM 3.03 140 eP 13 24.95 -1.6
 TTA 3.15 274 ePd 13 27.04 -1.1
 BRLL 3.24 196 eP 13 28.75 -0.6
 RAGM 3.28 138 eP 13 28.71 -1.3
 INE 3.40 215 eP 13 31.99 0.3
 INW 3.41 216 eP 13 32.18 0.3
 CNPM 3.51 198 eP 13 33.15 -0.1
 SVW 3.54 243 eP 13 32.26 -1.3
 CROM 3.55 124 ePc 13 33.02 -0.9
 TGL 3.67 123 eP 13 34.00 -1.5
 BALM 3.70 117 iPd 13 34.50 -1.4
 IMA 3.76 330 ePc 13 35.50 -1.2
 OPT 3.79 213 eP 13 38.03 0.9
 PDB 3.94 220 eP 13 38.92 -0.3
 FYU 4.06 23 eP 13 39.93 -0.9
 AUL 4.08 213 eP 13 42.25 1.1
 AUW 4.10 213 eP 13 42.13 0.7
 CTGM 4.16 114 iPc 13 41.58 -0.8
 YAH 4.34 122 eP 13 43.43 -1.6
 MCNL 4.48 217 eP 13 46.32 -0.5
 INK 8.43 43 eP 14 01.00 -0.4
 YKA 15.74 76 eP 16 20.30 2.3
 0.5s 0.60nm 3.0mb
 ADK 18.32 246 (P) 16 43.77 -6.1
 0.7s 12.72nm 4.3mb
 77 obs. associated

APR 15, 1993 19h 43m 41.21±0.26s
 10.300 N ± 4.5km 125.962 E ± 6.9km
 DEPTH = 45.4km (6 depth phases)
 4.9mb (33 obs.) 4.2Msz (10 obs.)
 LEYTE, PHILIPPINE ISLANDS (256)
 Mw 5.2 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 14C
 Centroid Location:
 Origin Time 19:43:43.7 1.1
 Lat 10.07N 0.11 Lon 125.93E 0.11
 Dep 95.5 9.8 Half-duration 1.1
 Moment Tensor: Scale 10**16 Nm
 Mrr= 0.15 0.66 Mtt= 3.53 1.01
 Mff=-3.67 1.10 Mrt= 0.68 0.80
 Mrf= 3.80 0.76 Mtf= 4.74 1.08
 Principal Axes:
 T Vol= 6.77 Plg=21 Azm=328
 N 0.61 57 200
 P -7.38 23 68
 Best Double Couple: Mo=7.1*10**16
 NP1: Strike=108 Dip=57 Slip=-2
 NP2: 198 89 -147

PLP 1.29 312 ePc 44 04.50 1.3
 BIP 2.08 172 ePc 44 16.50 2.2
 eS 44 41.50
 DAV 3.21 187 eP+ 44 33.40 2.9
 CTB 3.54 210 ePd 44 39.00 4.0X
 eS 45 08.00

15d 19h

PGP 5.84 303 iPd 45 09.80 2.1
 IS 45 27.00
 TGY 6.20 308 ePc 45 17.00 4.3X
 QCP 6.43 313 eP 44 48.00 -27.8X
 QVP 6.47 312 ePc 45 20.00 3.6X
 BCP 8.01 320 eP 45 39.00 1.0
 BAG 8.02 320 ePc 45 38.10 -0.1
 0.9s 302.52nm 6.2mb X
 QZH 16.16 335 eP 47 27.00 0.2
 GZH 17.52 318 P 47 47.20 3.3X
 Z 14s 1.18um
 QIZ 17.83 301 eP 47 49.40 1.6
 GUMO 18.78 78 e(P) 47 54.00 -5.5X
 e 48 02.00
 SSE 21.16 349 Pc 48 25.60 0.8
 1.0s 110.00nm 5.2mb
 Z 20s 0.50um 3.9Msz
 sP 48 39.50
 S 52 16.00
 sS 52 24.00
 NJ2 22.62 344 Pd 48 40.20 0.9
 1.0s 33.00nm 4.7mb
 S 52 45.00
 WHN 22.86 333 Pc 48 43.00 1.4
 0.7s 27.00nm 4.8mb
 Z 20s 0.88um 4.2Msz
 pP 48 54.50 46km
 S 52 50.00
 MTN 23.56 167 eP 48 50.00 1.4
 GYA 24.31 314 P 48 57.60 1.6
 Z 24s 1.21um 4.3MszX
 N 15s 1.34um
 E 15s 1.55um
 S 53 08.00
 LOE 24.55 289 eP 48 58.00 -0.2
 LEM 24.96 228 ePc 49 06.00 3.7X
 IPM 25.36 259 ePd 49 07.40 1.5
 NST 25.72 285 eP 49 10.00 0.8
 KNA 26.03 174 eP 49 10.50 -1.6
 KMI 26.52 307 eP 49 18.50 1.7
 1.5s 30.00nm 4.7mb
 Z 25s 1.40um 4.4MszX
 pP 49 27.00 30kmX
 TIA 27.01 344 Pd 49 20.50 -0.5
 Z 20s 0.73um 4.2Msz
 E 11s 0.40um
 S 53 53.00
 XAN 28.32 329 P 49 31.30 -1.6
 0.9s 21.00nm 4.8mb
 Z 20s 0.61um 4.2Msz
 N 10s 0.22um
 S 54 10.00
 DL2 28.75 353 eP 49 37.00 0.4
 0.8s 39.00nm 5.1mb
 eS 54 24.00
 CD2 29.08 318 iPd 49 38.30 -1.5
 TIY 29.89 338 eP 49 46.00 -1.0
 Z 16s 0.71um 4.4MszX
 N 16s 0.48um
 S 54 40.50
 BJ1 30.87 345 eP 49 55.00 -0.4
 1.2s 16.00nm 4.6mb
 Z 20s 0.48um 4.2Msz
 eS 54 52.00
 eScP 56 29.00
 WB2 31.17 165 iPc 49 55.60 -2.7
 0.6s 20.10nm 5.1mb
 eS 54 08.90
 SNY 31.47 357 eP 50 05.00 4.3X
 1.0s 30.00nm 5.0mb
 sP 50 16.10
 LZH 32.58 326 P 50 10.00 -0.7
 1.0s 45.00nm 5.3mb
 E 12s 0.38um
 pP 50 17.50 26kmX
 sP 50 22.00
 ScP 56 34.50
 HHC 32.98 340 P 50 14.00 -0.1
 1.2s 12.00nm 4.6mb
 Z 20s 0.62um 4.3Msz
 eP 50 15.00 -2.0
 BTO 33.31 338 eP 50 17.00 -0.3
 CN2 33.38 359 eP 50 17.00 -0.3
 0.5s 1.90nm 4.2mb
 Z 20s 0.37um 4.1Msz
 epP 50 26.00 31kmX
 MDJ 34.33 5 eP 50 26.50 0.9
 ASPA 34.64 167 iPd 50 26.30 -2.2

0.4s 33.50nm 5.6mb
 Z 21s 0.20um 3.8Msz
 IS 55 48.20
 SHL 35.66 300 iPd 50 36.00 -1.4
 eS 56 08.50
 CTA 36.21 147 eP 50 42.00 0.2
 WARB 36.27 179 eP 50 41.00 -1.2
 0.4s 11.00nm 5.1mb
 GTA 37.18 326 P 50 49.50 -0.5
 1.0s 47.00nm 5.4mb
 Z 20s 0.87um 4.5Msz
 E 15s 0.41um
 pP 51 02.00 46km
 sP 51 06.50
 S 56 30.00
 ScP 56 51.00
 LSA 37.76 306 P 50 55.50 0.1
 MRWA 40.45 193 eP 51 17.00 -0.1
 OLP 40.73 155 iPd 51 18.40 -1.0
 GUN 41.49 301 P 51 25.00 -1.2
 PKI 41.79 300 P 51 26.00 -1.8
 0.6s 20.00nm 5.0mb
 KKN 41.97 300 P 51 28.40 -1.5
 DMN 42.06 300 P 51 29.40 -1.3
 KLB 42.39 190 eP 51 32.00 -1.0
 GKN 42.57 300 P 51 33.40 -1.4
 NWAQ 43.78 191 eP 51 44.00 -0.3
 STK 44.53 161 eP 51 49.50 -0.8
 0.3s 8.20nm 5.0mb
 IRK 45.40 341 ePc 51 56.30 -0.8
 1.6s 16.00nm 4.7mb
 e 52 17.00 86kmX
 BRS 45.60 146 eP 51 59.00 0.0
 HYB 46.47 284 eP 52 05.50 -0.5
 1.0s 40.00nm 5.3mb
 ADE 46.61 166 iPd 52 07.00 0.2
 WMQ 47.01 322 P 52 10.00 0.0
 1.0s 14.00nm 4.9mb
 Z 20s 0.54um 4.5Msz
 pP 52 16.00 20kmX
 sP 52 21.00
 GBA 47.53 279 P 52 15.00 0.6
 BWA 49.32 155 eP 52 28.70 0.7
 e 52 42.70 53km
 BFD 49.72 163 iPc 52 30.20 -0.8
 0.5s 12.00nm 5.2mb
 CAN 50.33 155 eP 52 35.20 -0.5
 e 52 49.40 53km
 CNB 50.48 155 iPd 52 37.00 0.2
 0.6s 22.00nm 5.4mb
 TOO 51.02 160 iPd 52 41.80 0.9
 0.5s 16.00nm 5.3mb
 DZM 51.10 129 iPc 52 42.00 0.2
 YAK 51.70 2 iPd 52 44.60 -1.0
 0.9s 150.00nm 6.0mb X
 e 00 00.00
 e 02 27.00
 e 02 50.00
 e 02 50.00
 QUE 58.16 299 eP 53 32.70 -0.7
 TTA 75.44 28 eP 55 22.90 0.8
 SVW 75.45 29 eP 55 22.03 -0.1
 1.2s 31.06nm 5.1mb
 BRW 76.23 19 eP 55 27.64 1.4
 e 55 39.37 39km
 IMA 76.74 24 eP 55 29.84 0.4
 1.0s 9.87nm 4.8mb
 FBA 79.15 26 eP 55 42.66 0.2
 0.8s 4.00nm 4.4mb
 INK 84.37 22 eP 56 12.00 2.4
 1.0s 6.00nm 4.6mb
 KAF 85.46 332 iP 56 14.20 -1.0
 0.4s 3.40nm 4.9mb
 MBC 85.75 13 eP 56 17.00 0.6
 0.5s 5.00nm 5.0mb
 CSS 86.32 305 eP 56 19.60 -0.4
 NUR 86.63 331 iP 56 20.30 -0.6
 0.4s 4.10nm 5.0mb
 NB2 92.60 334 P 56 47.00 -2.1
 0.7s 1.40nm 4.5mb
 YKA 93.85 24 eP 56 55.20 0.4
 1.0s 5.40nm 4.9mb
 GEC2 96.48 322 ePc 57 06.60 -0.6
 0.8s 0.99nm 4.4mb
 e 57 18.00 36km
 CNCB 164.98 117 PKP 03 44.80 1.9
 LPB 164.99 116 ePKP 03 45.00 2.3
 ZOBO 165.07 115 PKP 03 44.00 1.0

LR 01 12.00
 S.D. = 1.2 on 76 of 84 obs.
 ? APR 15, 1993 19h 57m 10.57±1.39s
 51.092 N ±17.6km 15.799 E ±7.3km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.3 (VIE).
 KSP 0.40 128 iP 57 17.40 -1.4
 0.6s 51.00nm
 IS 57 27.30
 BRG 1.19 260 iPg 57 32.40 -0.4
 ISg 57 52.30
 PRU 1.37 216 ePg 57 36.50 0.9
 0.4s 20.40nm
 eSg 58 01.00
 e 58 08.80
 CLL 1.77 278 ePg 57 41.00 -0.4
 ISg 58 05.50
 KHC 2.43 217 ePn 57 51.00 0.0
 e 57 58.00
 e 58 03.40
 Sn 58 26.90
 Sg 58 39.50
 e 58 49.00
 MOX 2.69 262 ePg 58 00.20 5.6X
 ISg 58 38.90
 OJC 2.69 107 iP 57 55.90 1.2
 IS 58 30.80
 VKA 2.85 173 iPgD 58 05.40 8.5X
 ISg 58 50.50
 GRF 3.25 246 ePg 58 06.00 4.2X
 ISg 58 59.70
 S.D. = 1.2 on 6 of 9 obs.
 APR 15, 1993 20h 51m 33.56±0.31s
 49.180 N ±6.2km 156.039 E ±5.3km
 DEPTH = 33.0km (normal)
 4.8mb (46 obs.) 4.6Msz (10 obs.)
 KURIL ISLANDS (221)
 Mw 5.0 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 20C
 Centroid Location:
 Origin Time 20:51:42.9 2.1
 Lat 49.04N 0.13 Lon 156.02E 0.22
 Dep 20.9 6.0 Half-duration 1.0
 Moment Tensor: Scale 10⁻¹⁶ Nm
 Mrr = 3.14 0.44 Mtt = -1.08 0.54
 Mff = -2.05 0.31 Mrt = 2.04 1.09
 Mrf = 0.82 1.15 Mtf = -0.74 0.43
 Principal Axes:
 T Val = 4.00 Plg = 68 Azm = 347
 N -1.01 12 224
 P -3.00 18 130
 Best Double Couple: Mo = 3.5 × 10⁻¹⁶
 NP1: Strike = 201 Dip = 29 Slip = 64
 NP2: 50 64 104
 KUSJ 9.93 237 eP 53 52.90 -4.1X
 eS 55 39.40
 ASAJ 10.51 246 eP 54 06.80 2.0
 HOOJ 11.19 237 eP 54 13.30 -0.9
 CHJJ 18.10 230 eP 55 45.50 1.6
 MDJ 18.60 266 eP 55 48.00 -2.0
 Z 16s 1.42um
 N 16s 1.10um
 YAK 19.47 321 eP 55 57.50 -2.7
 1.0s 50.00nm 4.7mb
 Z 14s 1.20um 4.4Msz
 N 16s 0.60um
 E 15s 1.00um
 ePP 56 18.00
 ePPP 56 30.00
 eS 59 44.00
 eSS 00 20.00
 TSRJ 20.05 235 P 56 06.00 -0.6
 WKYJ 21.27 233 P 56 18.90 -0.2
 CN2 21.65 267 eP 56 19.00 -3.8X
 0.8s 3.80nm 3.9mb
 Z 16s 1.06um 4.3MszX
 N 14s 0.63um
 E 14s 0.13um
 YONJ 21.69 238 P 56 23.80 0.4
 TKSJ 22.27 235 P 56 29.80 0.7

	1.1s	14.40nm		4.9mb
LSF	82.40 342	eP	03 53.70	0.4
	0.9s	14.60nm		5.0mb
RJF	83.31 342	eP	03 58.30	0.3
Z	19s	0.20um		4.5msz
CAF	83.56 342	eP	04 00.10	0.8
	0.5s	3.00nm		4.7mb
LFF	83.81 343	eP	04 01.30	0.7
LPO	83.97 342	eP	04 02.10	0.7
	0.6s	2.80nm		4.6mb
ZOBO	131.47 63	ePKP	10 43.00	-2.1
CNCB	131.98 64	ePKP	10 57.00	11.0X
PPD	145.31 49	(PKP)	11 09.00	-0.4
	S.D. = 1.0 on 105 of 110 obs.			
<hr/>				
%	APR 15, 1993	21h 30m	02.32±	0.58s
	52.499 N ± 6.3km		0.763 W ±	4.2km
	DEPTH = 5.0km	(geophysicist)		
UNITED KINGDOM				(533)
	ML 2.3 (BGS).			
KUF	0.26 62	iPgc	30 07.90	0.4
CWF	0.41 306	iPg d	30 10.80	0.3
		eSg	30 16.20	
KSY	0.48 13	ePg	30 12.00	0.1
KWE	0.84 309	ePg	30 18.40	-0.6
AWH	1.05 82	ePn	30 22.20	-0.4
		eSn	30 35.50	
HAE	1.19 248	iPnc	30 24.80	-0.2
HGH	1.53 236	ePn	30 30.50	0.2
HTR	1.60 256	ePn	30 31.40	0.1
		eSn	30 51.60	
HCG	1.78 265	ePn	30 34.10	0.1
	S.D. = 0.4 on 9 of 9 obs.			
<hr/>				
?	APR 15, 1993	21h 51m	25.60±	1.81s
	39.356 N ± 17.7km		142.236 E ±	26.9km
	DEPTH = 33.0km	(normal)		
NEAR EAST COAST OF HONSHU, JAPAN(228)				
HOOJ	3.13 14	eP	52 14.90	1.2
		eS	52 49.30	
MRRJ	3.19 344	eP	52 14.70	0.2
		eS	52 49.20	
KUSJ	4.18 26	eP	52 28.10	-0.5
		eS	53 14.30	
MAT	4.25 230	iPc	52 29.60	0.0
	0.6s	7.33nm		
		eS	53 29.00	
ASAJ	4.77 4	eP	52 36.00	-0.9
	S.D. = 1.2 on 5 of 5 obs.			
<hr/>				
&	APR 15, 1993	23h 10m	21.17s	
	59.584 N		153.374 W	
	DEPTH = 117.8km			
SOUTHERN ALASKA				(2)
	<AEIC>.			
AUL	0.20 189	iP	10 37.18	1.0
AUE	0.23 180	iP	10 37.05	0.8
AUI	0.25 186	iP	10 37.18	0.8
		eS	10 49.72	
PDB	0.46 297	iP	10 38.01	-0.9
		eS	10 51.08	
INW	0.50 14	iP	10 38.25	-1.0
		iS	10 51.89	
INE	0.50 18	iP	10 38.45	-0.9
		eS	10 52.95	
MCNL	0.63 231	iP	10 39.18	-0.9
		eS	10 53.16	
CDD	0.67 192	iP	10 39.38	-1.0
XLV	0.85 98	eP	10 41.18	-0.7
RS1	0.93 19	iP	10 42.01	-0.9
		eS	10 57.89	
RS2	0.93 19	iP	10 42.04	-0.9
		eS	10 57.78	
RSO	0.93 19	iP	10 41.99	-0.9
		eS	10 57.76	
NCT	1.01 13	eP	10 42.70	-0.8
		eS	10 58.89	
DFR	1.07 19	iP	10 43.29	-0.8
		eS	11 00.35	
CNPM	1.09 92	iP	10 43.15	-1.1
		eS	11 00.44	
SYI	1.10 152	iP	10 43.15	-1.2
		eS	1	

15d 23h

BRK 1.28 81 eP 10 44.98 -1.3
 NKA 1.58 42 eP 10 50.50 0.8
 CKL 1.70 17 P 10 50.90 -0.4
 CKT 1.72 19 eP 10 50.49 -1.1
 SPU 1.73 22 eP 10 50.71 -1.0
 BGL 1.75 16 eP 10 51.22 -0.8
 CP2 1.78 18 eP 10 51.74 -0.7
 CPAM 1.78 20 eP 10 51.99 -0.4
 SLKM 1.83 58 eP 10 51.27 -1.7
 SVW 1.89 325 P 10 52.50 -1.2
 KDC 1.90 166 P 10 51.50 -2.2
 SEW 2.05 74 eP 10 53.89 -1.7
 MPA 2.21 64 eP 10 56.27 -1.4
 SUA 2.29 33 eP 10 58.02 -0.8
 PMS 2.52 47 P 11 00.60 -1.2
 PTE 2.52 58 eP 11 00.32 -1.4
 SKT 2.57 20 eP 11 01.34 -1.0
 GHO 3.10 43 eP 11 08.12 -1.4
 SML 3.33 46 eP 11 10.04 -2.6
 VLZ 3.83 63 eP 11 17.78 -1.4
 KLU 4.15 59 eP 11 21.16 -2.5
 BALM 5.67 70 (P) 11 42.16 -2.3
 39 obs. associated

? APR 15, 1993 23h 13m 14.16±0.99s
 13.558 N ±12.0km 123.029 E ±12.8km
 DEPTH = 33.0km (normal)
 LUZON, PHILIPPINE ISLANDS (249)
 Felt at Nogo.

PGP 2.02 269 ePc 13 46.00 -0.6
 TGY 2.11 285 eP 13 50.00 2.2X
 QVP 2.23 299 eP 13 50.00 0.5
 PLP 3.05 141 ePd 14 01.30 0.1
 BCP 3.68 321 eP 14 11.00 0.7
 CVP 4.28 344 eP 14 18.00 -0.7
 S.D. = 0.9 on 5 of 6 obs.

* APR 15, 1993 23h 31m 43.11±1.11s
 23.858 S ± 8.1km 68.010 W ±15.1km
 DEPTH = 133.4 ± 10.7 km
 4.3mb (3 obs.)
 NORTHERN CHILE (123)

SLA 2.45 111 ePd 32 24.90 1.3
 HJA 2.47 76 iPc 32 25.60 2.0
 YJA 2.86 54 iPc 32 30.00 1.0
 FSA 2.86 141 iP 32 30.30 1.7
 CCH 6.68 16 eP 33 19.00 -1.4
 CNCB 7.01 0 P 33 25.00 -0.1
 LPB 7.29 359 P 33 28.00 -0.7
 ZOBO 7.55 359 P 33 32.00 -0.4
 CFA 7.72 181 e(P) 33 31.80 -2.4
 TCA 8.04 159 iP 33 36.50 -2.0
 SIV 10.19 41 Pc 34 17.00 9.9X
 PPD 15.49 87 eP 35 18.40 2.8X
 BAO 20.52 70 eP 36 10.00 -2.8
 BDF 20.59 70 (P) 36 12.00 -1.5
 KIC 68.59 72 P 42 33.20 -0.7
 ALO 68.91 327 ePd 42 36.70 1.0
 LKO 69.40 69 P 42 38.58 -0.3
 YKA 93.68 340 eP 44 45.70 0.7
 WB2 131.31 208 ePKP 50 42.70 1.0
 WRA 131.32 208 PKP 50 43.50 1.8
 GBA 145.81 101 PKP 51 10.00 1.9
 S.D. = 1.7 on 19 of 21 obs.

? APR 15, 1993 23h 35m 27.02±5.84s
 43.978 N ±38.0km 6.572 E ±30.4km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)

FRF 0.42 173 Pn 35 35.60 0.0
 Pg 35 36.50
 Sg 35 45.70

LRG 0.55 196 Pg 35 38.00 0.0
 Sg 35 48.70
 SBF 0.63 100 Pg 35 39.80 0.0
 Sg 35 51.60
 LMR 0.65 184 Pg 35 40.00 0.1
 Sg 35 51.90
 S.D. = 0.1 on 4 of 4 obs.

? APR 15, 1993 23h 38m 19.76±6.65s
 44.191 N ±35.7km 6.246 E ±34.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (LDG).

CALN 0.64 133 Pg 38 32.93 0.3
 FRF 0.69 155 Pn 38 33.30 -0.2
 Pg 38 34.70
 Sg 38 43.50
 LRG 0.74 174 Pn 38 34.80 0.5
 Pg 38 36.30
 Sg 38 47.60
 TOUF 0.74 103 Pg 38 33.80 -0.7
 AURF 0.84 111 Pg 38 35.97 0.0
 Sg 38 47.72
 AUTN 0.87 103 Pg 38 37.23 0.5
 LMR 0.88 167 Pn 38 36.00 -0.6
 Pg 38 37.90
 Sg 38 50.20
 SBF 0.92 110 Pn 38 36.50 -0.9
 Pg 38 37.80
 Sg 38 47.50
 REVF 0.93 119 Pg 38 38.15 0.7
 Sg 38 50.85
 SAOF 0.97 102 Pg 38 38.48 0.3
 S.D. = 0.6 on 10 of 10 obs.

APR 15, 1993 23h 41m 27.35±0.53s
 51.104 N ±12.4km 178.117 W ± 5.8km
 DEPTH = 33.0km (normal)
 4.5mb (17 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.19 48 ePd 41 48.23 0.5
 SMY 5.08 292 (P) 42 53.66 10.5X
 SVW 15.97 42 (P) 45 11.49 0.6
 0.7s 16.17nm 4.3mb
 KDC 16.26 56 (P) 45 14.65 0.1
 TTA 16.77 37 eP 45 23.06 2.0
 RSO 16.96 47 (P) 45 24.32 0.7
 SLKM 18.15 48 eP 45 37.64 -0.5
 IMA 19.47 30 eP 45 53.69 -0.3
 1.4s 17.55nm 4.1mb
 KLU 20.44 47 eP 46 05.95 1.6
 FBA 20.90 37 eP 46 08.74 -0.1
 0.6s 8.78nm 4.3mb
 INK 27.44 35 eP 47 15.00 3.4X
 MBC 33.70 22 eP 48 06.00 -0.9
 YKA 35.11 46 eP 48 16.80 -2.3
 0.7s 2.30nm 4.2mb
 HVU 44.61 75 (P) 49 38.63 0.5
 BW06 45.98 72 ePc 49 49.05 -0.1
 0.7s 4.93nm 4.5mb
 GSC 46.04 85 (P) 49 53.77 4.2X
 DAU 46.34 76 eP 49 52.72 0.6
 SRU 47.57 77 eP 50 02.23 0.5
 BTO 49.26 287 eP 50 15.20 0.5
 TIY 49.58 283 Pc 50 18.00 0.9
 GOL 50.35 73 eP 50 22.21 -1.0
 0.5s 2.70nm 4.5mb
 XAN 54.13 282 P 50 50.40 -0.9
 LZH 55.87 287 Pd 51 04.00 -0.1
 1.5s 32.00nm 5.1mb
 LTX 58.27 82 (P) 51 20.70 -0.4
 LSA 67.94 290 P 52 27.00 1.6
 0.9s 14.00nm 5.1mb
 NB2 67.96 355 P 52 23.00 -1.6
 0.8s 1.70nm 4.2mb
 GUN 72.36 293 P 52 51.80 -0.4
 KKN 72.80 293 P 52 54.60 0.0
 0.8s 46.00nm 5.5mb X
 PKI 72.89 293 P 52 55.40 0.1
 GKN 73.01 293 P 52 55.80 0.0
 DMN 73.03 293 P 52 56.40 0.4
 GEC2 79.92 352 ePc 53 33.90 -0.2
 0.8s 1.00nm 3.9mb

FLN 80.49 2 eP 53 36.10 -0.9
 LDF 80.67 1 eP 53 36.90 -1.0
 0.9s 6.70nm 4.6mb
 GRR 80.86 2 eP 53 38.30 -0.6
 LPF 81.21 2 eP 53 40.20 -0.6
 SSF 82.21 359 eP 53 47.60 1.6
 0.9s 4.40nm 4.5mb
 AVF 82.48 359 eP 53 48.70 1.3
 1.1s 6.05nm 4.6mb
 SMF 82.62 359 eP 53 48.60 0.4
 1.0s 7.20nm 4.7mb
 MFF 82.66 1 eP 53 48.00 -0.4
 0.9s 4.90nm 4.6mb
 TCF 82.99 360 eP 53 49.50 -0.6
 LSF 83.03 0 eP 53 49.80 -0.5
 MAF 83.06 360 eP 53 50.90 0.5
 0.9s 4.10nm 4.5mb
 LFF 84.33 1 eP 53 55.80 -1.1
 CAF 84.35 360 eP 53 56.00 -1.1
 1.2s 9.20nm 4.8mb
 LPO 84.59 0 eP 53 57.90 -0.3
 HYB 84.71 291 eP 53 59.80 0.5
 GBA 88.37 290 P 54 19.00 1.9
 SLR 147.62 312 e(PKP)01 06.10 -0.9
 S.D. = 0.9 on 46 of 49 obs.

& APR 16, 1993 00h 06m 09.66s
 62.283 N 151.119 W
 DEPTH = 83.7km
 CENTRAL ALASKA (1)
 <AEIC>.

SKT 0.36 213 iP 06 22.26 -0.7
 eS 06 32.25
 SUA 0.84 168 eP 06 27.14 -0.4
 eS 06 40.43
 PWA 0.86 137 eP 06 26.91 -0.7
 HUR 0.98 44 eP 06 28.05 -0.9
 eS 06 42.22
 CRP 1.13 206 eP 06 29.33 -1.7
 eS 06 45.45
 CPAM 1.14 206 eP 06 30.19 -0.8
 eS 06 46.72
 CP2 1.15 208 eP 06 30.20 -1.1
 GHO 1.15 115 eP 06 30.21 -1.0
 eS 06 47.38
 PLRM 1.17 126 eP 06 29.95 -1.3
 PMR 1.17 126 ePd 06 29.47 -1.7
 eS 06 46.23
 CKN 1.18 206 eP 06 30.71 -0.7
 BGL 1.19 211 eP 06 30.75 -0.9
 SPU 1.19 202 eP 06 30.14 -1.5
 eS 06 47.53
 TRF 1.23 18 iP 06 31.37 -0.9
 eS 06 48.39
 CKL 1.24 209 eP 06 30.90 -1.3
 PMS 1.28 144 eP 06 31.34 -1.4
 eS 06 48.90
 SML 1.40 109 eP 06 32.85 -1.4
 RND 1.53 42 eP 06 35.23 -0.8
 NKA 1.55 182 eP 06 37.26 1.2
 PTE 1.74 144 eP 06 36.81 -1.9
 eS 06 59.03
 MCK 1.76 33 eP 06 38.16 -0.9
 SLKM 1.83 166 eP 06 38.85 -1.1
 SCM 1.84 103 eP 06 38.37 -1.8
 DFR 1.86 205 eP 06 39.02 -1.3
 NCT 1.93 208 eP 06 40.42 -1.0
 MPA 1.99 154 eP 06 40.22 -1.8
 RS2 1.99 204 eP 06 41.30 -1.0
 RSO 1.99 204 eP 06 41.18 -1.1
 RS1 1.99 204 eP 06 41.01 -1.3
 TTA 2.35 288 eP 06 44.73 -2.4
 eS 07 08.07
 SVW 2.45 243 eP 06 46.40 -2.0
 eS 07 14.63
 VLZ 2.56 115 eP 06 47.15 -2.6
 WRH 2.59 106 eP 06 47.52 -2.8
 SDG 2.61 82 eP 06 49.24 -1.3
 PAX 2.70 73 eP 06 50.62 -1.3
 CNPM 2.77 181 eP 06 52.53 -0.2
 HDA 2.84 40 eP 06 51.81 -1.9
 PDB 2.92 212 eP 06 53.35 -1.4
 39 obs. associated

? APR 16, 1993 01h 24m 24.36±4.62s

17.698 N ± 45.7 km 66.251 W ± 12.8 km			TGY 2.16 284 ePd 57 37.00 0.8			NP2: 51 78 86		
DEPTH = 33.0km (normal)			QCP 2.22 298 eP 57 43.50 6.6X					
PUERTO RICO REGION (90)			QVP 2.27 297 eP 57 38.00 1.1					
SJG 0.42 13 iP	24 32.80	-1.0	PLP 3.03 142 ePd	57 49.50	1.0	KDC 2.09 42 iPc	09 52.21	-1.2
CPD 0.47 43 iP	24 33.40	-1.1	BCP 3.70 320 eP	57 57.00	-1.1	SYI 2.81 30 ePd	10 03.86	0.3
PORP 0.51 314 iP	24 35.00	-0.1		58 05.00		CDD 2.83 15 iPc	10 05.30	1.3
PNP 0.55 311 iP	24 36.00	0.4	BAG 3.71 319 ePc	57 56.20	-2.1	MCNL 3.01 7 iPc	10 07.54	1.1
LPR 0.71 31 iP	24 39.90	2.0	CVP 4.27 343 eP	58 05.60	-0.5	SDN 3.18 256 iPc	10 09.92	1.1
	S 24 44.90		SZP 4.69 327 iPd	58 24.00	12.0X	AUI 3.26 15 eP	10 11.00	1.1
MGP 0.86 291 iP	24 39.80	-0.2	PPR 5.71 229 ePd	59 26.00	59.5X		eS 10 52.46	
S.D. = 1.5 on 6 of 6 obs.			CTB 6.44 170 ePd	59 03.00	26.2X	AUE 3.29 15 eP	10 11.91	1.6
			BBP 6.90 351 ePc	58 42.00	-1.2	AUL 3.30 15 eP	10 10.99	0.5
			WHN 18.70 336 eP	01 20.50	0.7	PDB 3.62 7 iPc	10 15.91	0.8
* APR 16, 1993 02h 01m 40.67 \pm 0.80s			Z 20s 1.87um				eS 11 04.18	
40.405 N \pm 6.7km 21.059 E \pm 7.3km			E 18s 1.28um			XLV 3.72 28 eP	10 16.78	0.3
DEPTH = 10.0km (geophysicist)						CNPM 3.91 30 iPc	10 18.72	-0.4
GREECE (364)			NJ2 18.78 349 eP	01 17.00	-3.8X	INW 4.00 14 iPc	10 21.16	0.5
FNA 0.45 32 ePg	01 50.12	0.3	GVA 20.03 312 P	01 38.00	3.0X	INE 4.01 15 ePc	10 21.13	0.4
	eSg 01 57.68					BRK 4.20 30 ePd	10 22.48	-1.0
OHR 0.73 344 iPg	01 55.00	-0.1				RS1 4.43 15 iPc	10 27.23	0.4
	iSg 02 07.90		GUMO 21.16 87 e(P)	01 50.30	3.6X	RS2 4.44 15 iPc	10 27.29	0.4
IGT 1.04 213 iPg	02 00.28	0.1	PJG 21.16 87 e(P)	01 50.30	3.6X	RSO 4.44 15 ePc	10 27.21	0.3
	eSg 02 15.56		GUA 21.21 88 e(P)	01 47.30	0.2	RDW 4.45 15 eP	10 28.95	1.9X
LIT 1.14 105 ePb	02 02.24	0.3	KMI 22.34 304 Pc	02 03.50	4.8X	RDN 4.48 15 eP	10 28.04	0.5
	eSb 02 18.12					NCT 4.51 14 iPc	10 28.14	0.3
GRG 1.16 61 ePg	02 02.48	0.1				DFR 4.57 15 ePc	10 28.75	0.0
SOH 1.80 76 iPb	02 11.32	-0.6	Z 16s 70.00nm		4.8mb	RDT 4.60 17 ePc	10 28.99	-0.1
S.D. = 0.4 on 6 of 6 obs.						SEW 4.91 35 ePc	10 30.59	-2.8X
						SVW 4.92 357 ePc	10 33.54	0.0
* APR 16, 1993 02h 57m 07.41 \pm 0.84s						NKA 4.97 22 eP	10 36.21	2.0X
45.767 N \pm 8.7km 14.052 E \pm 5.6km			TIA 23.15 348 eP	02 06.80	0.5	SLKM 5.01 29 iPc	10 32.99	-1.9X
DEPTH = 10.0km (geophysicist)			XAN 24.08 330 P	02 14.50	-0.9	CKL 5.20 15 iPc	10 37.34	-0.3
NORTHWESTERN BALKAN REGION (383)						CKT 5.22 15 iPc	10 37.44	-0.5
MD 1.5 (TRI).			CD2 24.78 317 eP	02 21.00	-1.2	SPU 5.23 16 iPc	10 37.30	-0.6
TRI 0.21 254 ePg	57 11.80	-0.2	Z 15s 1.24um		4.5mszX	MPA 5.24 33 iPd	10 36.05	-2.0X
	iSg 57 17.30		N 14s 0.56um			CKN 5.25 16 iPd	10 38.18	-0.1
CEY 0.26 96 ePg	57 12.90	-0.1	TIY 25.83 340 eP	02 33.90	1.8	BGL 5.26 14 iPc	10 38.27	-0.1
	eSg 57 16.40		Z 30s 0.78um		4.1mszX	CP2 5.28 15 ePc	10 38.16	-0.7
VOY 0.29 337 iPg	57 13.70	0.2	E 15s 0.43um			CPAM 5.28 16 eP	10 38.73	-0.1
	eSg 57 18.40		BJI 27.04 348 eP	02 43.00	0.0	CRP 5.29 16 ePc	10 38.00	-1.0
LJU 0.44 50 ePg	57 16.00	-0.3				PTE 5.64 32 ePd	10 41.42	-2.3X
	iSg 57 21.50		1.5s 34.00nm		4.8mb	MID 5.68 52 P	10 36.50	-7.7X
VBY 0.89 107 e(Pg)	57 24.70	0.3	LZH 28.30 326 eP	02 57.00	2.3	SUA 5.73 21 iPc	10 43.74	-1.3
	eSg 57 37.00		1.5s 54.00nm		5.0mb	PMS 5.81 27 P	10 44.00	-2.1X
S.D. = 0.4 on 5 of 5 obs.			N 13s 0.38um			SKT 6.07 16 eP	10 48.47	-1.3
						PWA 6.08 24 P	10 48.70	-1.2
* APR 16, 1993 03h 29m 43.17 \pm 0.91s			HHC 28.97 342 eP	03 01.00	0.4	HIN 6.17 44 eP	10 47.50	-3.7X
15.109 N \pm 16.8km 93.011 W \pm 9.2km						PLRM 6.21 27 eP	10 51.28	-0.5
DEPTH = 94.2 \pm 9.5 km			Z 28s 4.60nm		4.2mb	PMR 6.21 27 eP	10 49.31	-2.4X
4.0mb (2 obs.)						GHO 6.42 27 eP	10 52.34	-2.4X
NEAR COAST OF CHIAPAS, MEXICO (69)			WRA 35.11 161 P	03 53.50	-1.0	CVA 6.55 45 eP	10 52.28	-4.3X
TPX 0.75 106 iP	29 58.50	-2.3	WB2 35.12 161 eP	03 52.70	-1.8	SML 6.60 29 iPc	10 55.33	-2.0X
	iS 30 13.50		1.1s 3.60nm		4.2mb	VLZ 6.72 39 ePc	10 55.50	-3.3X
SCX 1.66 13 iP	30 12.20	0.7	GUN 37.44 298 P	04 00.00	-14.5X	SGAM 6.74 46 ePc	10 54.81	-4.4X
	iS 30 37.50		ASPA 38.51 164 eP	04 26.50	3.5X	TTA 6.76 356 ePc	10 58.34	-1.1
RDG 2.46 92 eP	30 22.53	0.1				Lg 13 04.71		
IXG 2.64 110 eP	30 25.87	1.0	GBA 44.33 276 P	05 13.00	2.1	RAGM 6.90 48 eP	10 57.67	-3.8X
	eS 31 11.51		INK 82.35 21 eP	09 22.50	1.0	SCM 6.91 32 ePc	10 58.92	-2.7X
MRL 3.21 90 eP	30 32.44	-0.2	MBC 83.16 12 eP	09 25.00	-0.6	KLU 7.11 38 ePd	11 01.37	-3.1X
YUP 3.23 106 eP	30 34.22	1.2	YKA 91.97 23 eP	10 07.90	-0.4	HUR 7.33 20 eP	11 07.83	0.4
OXX 4.07 299 iP	30 46.00	1.4				SNH 7.59 53 iPc	11 08.20	-2.9X
IISM 5.68 313 iP	31 06.50	-0.2				TRF 7.65 16 eP	11 11.03	-1.1
PPM 6.66 307 iP	31 22.30	1.6				TZL 7.67 36 eP	11 10.10	-2.1X
III 6.99 299 iP	31 23.00	-1.9				CROM 7.74 49 eP	11 09.29	-4.0X
LTX 17.24 327 eP	33 39.11	-0.4				GLB 7.85 43 iPd	11 11.08	-3.7X
MIAR 19.36 359 eP	34 03.48	-0.5				RND 7.87 21 eP	11 12.85	-2.2X
	1.0s 16.68nm	4.3mb				TGL 7.87 50 eP	11 10.73	-4.4X
MEO 20.22 347 iPc	34 12.50	-0.5				SDG 7.98 34 eP	11 15.29	-1.3
LCCM 34.50 336 eP	36 25.30	1.1				MCK 8.15 20 eP	11 17.46	-1.4
YKA 49.73 347 eP	38 26.20	-1.3				YAH 8.16 54 iPc	11 15.30	-4.0X
	0.8s 0.80nm	3.8mb				BALM 8.21 49 eP	11 15.63	-4.3X
PPD 55.07 131 (P)	38 51.00	-16.8X				PAX 8.34 32 eP	11 18.40	-3.3X
INK 59.10 344 eP	39 35.50	-0.1				CTGM 8.61 51 eP	11 21.60	-3.8X
MBC 62.70 353 eP	40 00.00	0.2				NEA 8.90 17 eP	11 25.72	-3.5X
S.D. = 1.2 on 17 of 18 obs.						WRH 8.98 20 eP	11 26.90	-3.4X
						MLY 9.10 12 eP	11 29.66	-2.4X
APR 16, 1993 03h 57m 01.49 \pm 0.55s						HDA 9.15 23 eP	11 27.06	-5.6X
13.591 N \pm 7.9km 123.096 E \pm 8.4km						CCB 9.19 20 eP	11 29.80	-3.4X
DEPTH = 30.1km (2 depth phases)						MDM 9.39 18 eP	11 32.69	-3.4X
4.3mb (9 obs.) 4.2MsZ (1 obs.)						FBA 9.42 19 eP	11 32.48	-3.9X
LUZON, PHILIPPINE ISLANDS (249)						GLM 9.57 20 eP	11 34.62	-4.0X
PGP 2.09 268 eP	57 34.00	-1.1				IMA 9.91 3 eP	11 41.75	-1.6X
	eS 57 58.00					Lg 14 40.39		
						SIT 10.91 77 (P)	11 55.14	-1.7X
						FYU 11.39 20 eP	12 01.22	-2.1X
						ADK 13.39 260 eP	12 27.55	-2.5X
						0.5s 39.51nm		5.6mb
						BRW 15.17 358 eP	12 50.70	-2.5X

16d 04h

INK	15.61	31	eP	12	58.50	-0.5	WMOK	43.47	95	eP	17	21.45	-0.4	BTO	E	20s	2.39um				
	1.0s	60.00nm			4.8mb			0.8s	17.76nm			4.9mb			59.91	299	P	19	25.00	-0.4	
SMY	18.16	272	eP	13	30.70	-0.4	Z	18s	1.68um			5.0Msz		N	13s		1.10um				
	0.8s	142.76nm			5.2mb								E	13s		1.32um					
PGC	20.57	98	eP	13	58.00	-0.5	MEO	43.55	95	iPc	17	19.10	-3.4X					19	34.00		
MCW	20.90	97	eP	14	01.43	-0.6	OCO	43.63	93	iPd	17	29.30	6.2X				sP	27	38.00		
GMW	21.57	100	eP	14	08.34	-0.4	OFUJ	44.24	275	eP	17	28.10	0.1				eS	19	30.20	-0.6	
BMW	21.97	103	eP	14	13.14	0.3	DAG	44.44	13	iPd	17	28.90	-0.3	MOL	60.78	9	eP	19	32.00	-0.2	
LON	22.58	101	eP	14	19.21	0.4		1.1s	141.77nm			5.8mb		TIY	60.92	295	Pd	19	32.00	-0.2	
SHW	22.68	102	eP	14	20.76	0.8	LTX	44.89	105	ePd	17	33.24	-0.3	Z	20s		3.12um		5.5Msz		
VGB	23.90	102	eP	14	31.99	0.3	KBS	44.90	4	iPc	17	34.50	1.6	N	14s		0.86um				
DPW	23.92	95	eP	14	32.21	0.3	SLM	45.44	84	P	17	50.00	12.4X				S	27	51.00		
					14	41.00		Z	18s			5.2Msz									
MBC	23.96	20	ePc	14	32.80	0.9	FVM	45.79	85	P	17	50.00	9.5X	SSE	61.41	284	Pc	19	36.00	0.5	
	1.0s	127.00nm			5.4mb		Z	19s	6.60um			5.6Msz			1.0s		32.00nm		5.4mb		
NEW	24.31	93	ePd	14	36.02	0.4	EEO	46.04	68	eP	17	43.50	1.2	Z	20s		0.90um		4.9Msz		
	0.9s	54.51nm			5.1mb		UYO	46.30	92	iPc	17	50.00	6.3X	N	14s		0.40um				
					14	43.81		MIAR	46.52	91	eP	17	42.72	-3.5X	E	14s		0.80um			
LBFM	26.13	111	eP	14	53.60	0.5		0.9s	18.31nm			5.1mb					PP	21	52.00		
WDC	26.35	113	P	15	00.00	5.1X	Z	18s	1.68um			5.0Msz		NJ2	61.93	286	Pd	19	38.50	-0.5	
	Z	19s			6.70um	5.2Msz									0.8s		16.00nm		5.2mb		
ORV	27.64	113	eP	15	05.61	-1.1	NIUJ	47.02	275	P	17	50.50	0.4	Z	16s		0.88um		5.0MszX		
					15	13.19		MDJ	47.03	289	eP	17	48.80	-1.3	N	15s		1.39um			
LCCM	28.63	93	eP	15	15.20	-0.6	KAKJ	47.11	273	eP	17	50.90	0.1	E	15s		0.74um				
CMB	29.36	114	P	15	30.00	7.8X	CHJJ	47.88	274	P	17	56.90	-0.1	KAF	62.01	359	iP	19	38.50	-0.6	
	Z	19s			6.15um	5.2Msz	MAT	47.96	275	eP	17	57.00	-0.6		0.5s		34.40nm		5.7mb		
SAO	29.80	116	P	15	40.00	13.9X		1.1s	54.43nm			5.5mb		GUA	62.32	252	e(P)	19	52.60	10.9X	
	Z	19s			3.59um	5.0Msz	MTMJ	48.16	276	eP	17	59.20	0.0	NB2	62.59	7	P	19	42.10	-1.0	
HVU	30.74	100	eP	15	34.72	0.2	CN2	49.76	291	P	18	10.00	-1.3		0.7s		28.80nm		5.5mb		
					15	43.05			1.0s	43.00nm		5.4mb		NAO	62.78	8	P	19	41.93	-2.3	
BCH	31.72	117	eP	15	42.77	-0.4	N	18s	2.46um					NUR	63.62	0	iP	19	49.10	-0.7	
					15	51.51		E	18s	1.12um					0.6s		60.80nm		5.9mb		
DUG	31.81	102	P	15	50.00	6.0X						25	20.00	HFS	63.66	6	eP	19	48.70	-1.3	
Z	19s				2.83um	4.9Msz	RSNY	49.81	67	P	18	20.00	8.3X		0.4s		14.70nm		5.4mb		
BW06	31.85	95	eP	15	43.36	-1.1	Z	18s	3.26um			5.4Msz		Z	17s		599.00um		7.8MszX		
	0.8s	9.05nm			4.7mb												LR	45	40.00		
FCC	31.90	60	ePd	15	46.30	2.0	TSRJ	49.93	276	P	18	12.60	-0.1	KONO	63.84	9	eP	19	51.00	-0.3	
ISA	32.16	114	P	16	00.00	13.0X	WKYJ	51.12	275	P	18	21.90	0.1	UPP	64.13	4	iP	19	52.00	-1.1	
	Z	20s			3.18um	5.0Msz	CBM	51.37	61	eP	18	21.73	-1.8	EDR	65.06	16	eP	19	58.50	-0.7	
TPNV	32.32	110	(P)	15	48.69	0.1		0.8s	9.78nm			4.8mb		ELO	65.31	17	eP	20	00.00	-0.8	
Z	20s				7.43um	5.4Msz	MYNC	51.40	83	eP	18	23.54	-0.4	EDU	65.34	17	eP	20	00.30	-0.7	
DAU	32.51	100	eP	15	50.38	0.1		0.9s	10.74nm			4.8mb		EAB	65.47	17	ePc	20	01.40	-0.4	
EMUT	33.17	101	eP	15	56.22	0.3	Z	18s	4.39um			5.5Msz			1.3s		13.00nm		4.9mb		
ARUT	33.19	106	eP	15	55.74	-0.4	YONJ	51.58	278	P	18	25.10	-0.2	WHN	65.50	289	P	20	02.00	-0.4	
GSC	33.29	113	eP	15	56.48	-0.4	SNY	52.13	291	Pc	18	29.00	-0.3	Z	20s		1.24um		5.1Msz		
MSU	33.35	104	eP	15	57.53	0.0		1.4s	120.00nm			5.6mb		N	12s		0.80um				
					16	05.64		Z	18s	1.84um		5.2Msz		E	12s		0.53um				
SSK	33.69	115	eP	16	00.58	0.1	N	16s	1.19um								eS	28	48.00		
					16	09.52		E	17s	1.57um				EBH	65.55	17	eP	20	01.90	-0.5	
SRU	33.82	101	eP	16	01.10	-0.5						25	50.00	XAN	65.57	295	Pc	20	02.40	-0.4	
					16	09.97									1.0s		28.00nm		5.3mb		
RSSD	34.07	89	eP	16	03.15	-0.6	TKSJ	52.15	276	P	18	29.50	-0.1	Z	15s		2.35um		5.5MszX		
	1.1s	47.17nm			5.3mb		HRV	52.78	67	P	18	40.00	5.8X	N	12s		1.55um				
Z	20s				5.02um	5.2Msz								E	12s		0.62um				
					16	10.91		GOGA	52.99	84	P	18	50.00	14.1X			pP	20	04.50	7kmX	
PEC	34.22	115	eP	16	03.64	-1.2	Z	18s	5.02um			5.6Msz		GTA	65.69	305	iPc	20	03.20	-0.5	
	0.9s	19.28nm			5.0mb		CEH	53.57	78	P	18	50.00	9.9X		1.0s		85.00nm		5.8mb		
					16	11.70						5.2Msz		Z	16s		7.43um		6.0MszX		
PLM	34.79	115	eP	16	09.48	-0.5	SHNJ	53.67	279	P	18	40.60	-0.2	N	15s		2.46um				
HON	34.91	185	P	16	20.00	9.3X	LMN	53.75	60	eP	18	42.00	0.7				pP	20	11.00	25kmX	
	Z	18s			1.90um	4.9Msz	IRK	53.76	312	ePc+	18	40.00	-1.3				sP	20	15.00		
ULM	34.97	74	eP	16	12.50	1.5		1.5s	74.00nm			5.5mb		EAU	65.95	17	eP	20	04.60	-0.3	
GOL	36.26	96	eP	16	22.73	0.3	Z	16s	4.50um			5.6MszX		EBL	66.08	17	eP	20	05.30	-0.5	
	0.9s	12.29nm			4.8mb		N	14s	2.32um						1.2s		26.00nm		5.2mb		
	Z	21s			2.13um	4.9Msz	E	16s	2.69um					LZH	66.46	300	Pc	20	08.00	-0.7	
					16	30.79									1.6s		150.00nm		5.9mb		
YAK	37.00	311	iPd	16	26.80	-1.2								N	12s		1.86um				
	1.2s	231.00nm			5.9mb		AKU	54.14	20	iP	18	45.00	1.2				eS	29	00.00		
Z	16s	4.40um			5.3MszX			0.9s	23.53nm			5.2mb		EKA	66.49	17	Pd	20	08.30	0.0	
					16	47.00		TRO	54.39	3	eP	18	45.40	-0.2		0.8s		18.30nm		5.3mb	
					18	49.00		KUMJ	55.02	278	P	18	50.00	0.0	MUD	66.96	9	iPd	20	12.30	1.0
					22	32.00		LOF	55.68	5	eP	18	55.63	0.5		0.7s		30.00nm		5.5mb	
TUC	38.76	109	ePd	16	43.61	0.3	SDF	56.68	359	iP	19	02.00	-0.3	DMU	67.20	20	eP	20	18.00	5.1X	
	0.9s	8.06nm			4.5mb		BJI	57.26	294	eP	19	05.50	-1.2	WMO	67.22	316	iPc	20	13.40	0.1	
Z	19s	1.28um			4.8Msz			1.6s	40.00nm			5.2mb			1.0s		70.00nm		5.7mb		
ALO	39.08	102	P	17	00.00	13.9X	Z	23s	1.56um			5.0MszX		Z	18s		9.16um		6.0Msz		
	Z	21s			1.48um	4.8Msz	N	15s	1.16um					N	17s		2.73um				
KUSJ	39.83	277	P	16	50.20	-1.7								E	18s		4.66um				
ASAJ	40.31	280	P	16	56.30	0.4	HHC	58.96	298	P	19	18.50	-0.3				pP	20	18.40	16kmX	
FRB	40.73	43	eP	16	58.50	-0.5	Z	20s	85.00nm			5.7mb		DCN	67.65	20	eP	20	15.40	-0.3	
	0.9s	30.00nm			5.0mb		N	13s	0.70um			5.1Msz			0.8s		79.00nm		5.9mb		
HOOJ	41.09	277	eP	17	01.00	-1.2	E	14s	1.48um					DLF	67.84	20	eP	20	19.00	2.1	
ACO	41.84	94	iPc	17	08.10	-0.5								ETA	68.47	20	eP	20	20.60	-0.2	
MRRJ	42.28	279	eP	1																	

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16d 04h

SRS 1.89 327 ePb 21 17.40 0.5
eSb 21 44.12
S.D. = 0.6 on 4 of 4 obs.

& APR 16, 1993 04h 34m 45.71s
56.557 N 155.097 W
DEPTH = 171.5km
3.0mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

KDC	1.86	49	P	35	19.70	-1.2
CDD	2.50	18	eP	35	26.40	-2.0
MCNL	2.67	8	iP	35	28.79	-1.6
AUI	2.92	17	eP	35	32.27	-1.2
SDN	3.27	250	eP	35	37.60	-0.2
			S	36	17.73	
PDB	3.28	8	iP	35	36.80	-1.1
CNPM	3.62	33	eP	35	40.77	-1.5
INW	3.67	16	eP	35	41.95	-1.1
INE	3.67	16	eP	35	41.26	-1.9
RS1	4.10	16	eP	35	47.95	-0.7
RS2	4.11	16	eP	35	48.37	-0.3
RSO	4.10	16	eP	35	48.20	-0.5
RDW	4.12	16	eP	35	48.19	-0.6
NCT	4.17	15	eP	35	48.02	-1.5
DFR	4.24	16	iP	35	49.87	-0.5
SVW	4.57	357	(Pn)	35	53.80	-0.8
SEW	4.64	38	eP	35	54.58	-0.8
SLKM	4.71	31	eP	35	56.58	0.1
CKT	4.89	17	eP	35	58.41	-0.5
SPU	4.90	18	iP	35	58.38	-0.5
BGL	4.92	15	eP	35	58.45	-0.9
CP2	4.95	16	(P)	35	58.25	-1.5
SUA	5.41	23	eP	36	06.77	1.1
TTA	6.41	356	(P)	36	22.04	3.1
BALM	8.00	51	(P)	36	36.43	-3.6
YKA	21.09	57	eP	39	24.90	7.7
	0.8s		0.50nm			3.0mb
MBC	23.64	20	eP	39	54.50	12.7
						27 obs. associated

& APR 16, 1993 04h 54m 33.42s
59.598 N 152.833 W
DEPTH = 102.8km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.36	229	eP	54	48.35	-0.5
AUL	0.38	235	iPd	54	48.51	-0.4
AUI	0.40	229	iPd	54	48.46	-0.6
			eS	55	00.44	
INE	0.48	346	ePd	54	49.00	-0.8
			eS	55	01.63	
INW	0.49	342	ePd	54	48.93	-0.9
			eS	55	02.18	
XLV	0.58	104	eP	54	49.93	-0.4
			eS	55	02.70	
PDB	0.72	286	ePd	54	50.45	-1.0
			eS	55	03.96	
CDD	0.79	212	iPc	54	51.24	-1.0
			eS	55	05.85	
CNPM	0.82	94	iPc	54	51.72	-0.7
			eS	55	05.56	
RS1	0.87	2	iPd	54	52.29	-0.9
RSO	0.87	3	iPd	54	52.27	-0.9
RS2	0.87	2	iPd	54	52.32	-0.9
			eS	55	08.56	
MCNL	0.87	242	iPc	54	51.95	-1.1
			eS	55	06.84	
RDW	0.89	1	iPd	54	52.47	-0.9
NCT	0.97	357	iPd	54	53.16	-1.0
DFR	1.00	4	iPd	54	53.57	-0.9
			eS	55	09.70	
BRK	1.00	80	eP	54	53.64	-0.8
			eS	55	08.62	
SYI	1.02	167	iPd	54	53.46	-1.0
			eS	55	09.36	
NKA	1.40	34	eP	54	59.93	1.0
SLKM	1.60	54	iPc	55	00.08	-1.4
SPU	1.64	13	iPd	55	00.90	-1.1
CKT	1.64	11	iPd	55	00.96	-1.1
CKN	1.66	11	iPd	55	01.46	-0.8
BGL	1.69	7	iPd	55	01.78	-0.9
CP2	1.70	10	eP	55	01.69	-1.2
CPAM	1.70	11	iPd	55	01.92	-0.9
CRP	1.71	11	ePd	55	01.35	-1.6

SEW	1.78	72	iPc	55	02.68	-1.0
MPA	1.96	61	iPc	55	04.92	-1.1
SVW	2.05	319	eP	55	05.12	-2.2
SUA	2.14	28	ePd	55	07.69	-0.9
PTE	2.29	55	ePc	55	09.22	-1.1
PMS	2.32	43	P	55	09.60	-1.2
SKT	2.47	14	ePc	55	11.48	-1.4
PWA	2.52	34	P	55	12.30	-1.2
PLRM	2.71	41	eP	55	14.63	-1.4
GHO	2.91	40	eP	55	17.08	-1.7
SML	3.13	43	eP	55	19.79	-2.0
HIN	3.28	73	eP	55	22.51	-1.3
SCM	3.51	48	eP	55	25.21	-1.9

40 obs. associated

APR 16, 1993 06h 56m 52.51±0.81s
41.130 N ± 7.6km 22.425 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.5 (SKO).

GRC	0.17	186	iPg	56	56.48	0.0
			eSg	56	59.84	
VAY	0.22	30	iPg	56	57.40	0.1
			iSg	57	00.50	
KNT	0.36	85	iPg	56	59.88	0.0
			eSg	57	04.92	
SOH	0.77	113	ePg	57	07.92	0.4
			eSg	57	17.32	
FNA	0.87	247	ePg	57	09.16	-0.1
			eSg	57	20.68	
SRS	0.88	90	ePg	57	09.00	-0.5
			iSg	57	21.28	

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

* APR 16, 1993 07h 20m 59.61±0.99s
30.134 S ± 10.6km 166.036 E ± 10.0km
DEPTH = 20.7km (2 depth phases)
4.7mb (11 obs.) 4.9Msz (1 obs.)
NORTHWEST OF NEW ZEALAND (607)

DZM	8.04	3	iPc	22	58.10	0.0
			iS	24	22.20	
BRS	11.95	280	iPc	23	51.00	-0.8
			i	23	54.90	
			i	23	58.50	
			i(S)	25	51.00	
			i	26	14.50	
			eTT	35	16.00	
ARMA	12.46	265	eP	23	57.00	-1.7
	0.4s		16.00nm			5.6mb
			eS	26	08.70	
			eTT	35	04.50	
MNG	12.98	146	eP	24	06.60	1.0
LTZ	13.58	160	eP	24	11.50	-1.9
CNB	14.95	245	eP	24	33.00	1.5
	1.0s		29.00nm			4.6mb
			e	24	37.00	
CAN	15.24	246	eP	24	34.70	-0.5
			i	24	40.70	
BWA	15.50	249	eP	24	37.90	-0.8
			i	24	43.10	
RMO	15.65	279	eP	24	44.40	3.9X
	0.6s		29.00nm			4.7mb
			i	24	55.00	
CMS	17.41	260	eP	25	06.30	3.4X
	0.6s		18.00nm			4.4mb
			iPp	25	13.40	
TOO	18.59	241	eP	25	18.00	0.6
	0.9s		37.00nm			4.6mb
QLP	19.51	275	eP	25	33.90	5.4X
			i	25	36.40	10kmX
CTA	20.49	295	iPc	25	43.00	4.1X
	1.2s		74.22nm			4.9mb
			i	25	52.00	
			e	25	56.50	
			i(pP)	26	10.00	151kmX
			eS	29	30.00	
BFD	20.75	244	eP	25	43.00	1.5
	1.7s		86.00nm			4.9mb
STK	21.02	259	eP	25	47.20	2.9X
			i	25	52.00	18km
			eS	30	00.30	
ASPA	29.31	275	eP	27	04.10	1.1
	1.0s		6.60nm			4.4mb
Z	18s		2.40um			4.9Msz
			epP	27	40.60	177kmX

WB2	30.36	282	eP	27	18.90	6.5
	1.1s		3.00nm			4.0mb
WRA	30.37	282	P	27	20.10	7.7
	1.0s		0.80nm			3.5mb
SPA	60.03	180	ePd	31	14.40	7.2
	1.0s		25.00nm			5.3mb
CHG	80.83	298	eP	33	22.00	8.3
KMI	81.84	305	Pd	33	29.00	9.9
	1.5s		80.00nm			5.5mb
			pP	33	36.50	24km

S.D. = 1.4 on 11 of 21 obs.

* APR 16, 1993 07h 24m 46.30±0.75s
41.886 N ± 8.8km 13.664 E ± 7.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI	0.21	148	P	24	51.10	0.1
			eSg	24	55.10	
AQU	0.51	338	P	24	56.50	-0.1
DUI	0.64	110	P	24	59.00	-0.1
RMP	0.72	264	P	25	00.30	-0.2
			eSg	25	09.20	
MNS	0.89	305	P	25	03.00	0.3
			eSg	25	17.80	

S.D. = 0.3 on 5 of 5 obs.

* APR 16, 1993 07h 27m 12.43±0.86s
30.186 S ± 11.2km 166.096 E ± 9.2km
DEPTH = 33.0km (normol)
4.9mb (9 obs.) 4.7Msz (1 obs.)
NORTHWEST OF NEW ZEALAND (607)

OUZ	8.07	130	eP	29	10.10	-0.1
DZM	8.09	2	iPd	29	09.60	-1.0
			iS	30	37.20	
MOZ	10.98	141	eP	29	48.10	-2.1
BRS	12.01	280	eP	30	02.00	-2.3
			i	30	05.00	
			i	30	10.00	
			e(S)	32	02.50	
			e	32	08.50	
			eTT	41	14.00	
DSZ	12.42	160	eP	30	10.00	0.2
ARMA	12.51	265	eP	30	09.20	-1.8
	0.4s		16.00nm			5.5mb
			i	30	16.70	
			eS	32	19.00	
			eTT	41	20.50	
MNG	12.91	146	eP	30	17.40	1.2
WVZ	13.39	165	eP	30	20.60	-1.9
LTZ	13.51	160	eP	30	24.50	0.3
KHZ	13.59	156	eP	30	26.30	1.1
CNB	14.98	246	eP	30	42.90	-0.5
	1.0s		20.00nm			4.4mb
			e	30	50.80	
CAN	15.27	246	eP	30	48.60	1.4
			i	30	54.90	
BWA	15.53	250	eP	30	48.50	-2.1
			i	30	55.00	
RMO	15.71	279	eP	30	53.00	0.1
	0.7s		56.00nm			4.9mb
			e	31	00.60	
			i	31	06.10	
CMS	17.46	261	eP	31	19.80	4.8X
	1.0s		35.00nm			4.4mb
			iPp	31	25.20	
TOO	18.61	241	iPc	31	32.50	3.3X
	1.1s		51.00nm			4.6mb
			iPp	31	38.00	
QLP	19.56	275	eP	31	43.60	3.1X
			i	31	48.00	
CTA	20.56	295	iPd	31	55.00	4.1X
	1.0s		100.00nm			5.1mb
			i	31	59.00	
			i(pP)c	32	22.00	149kmX
			e(S)	35	13.00	
			eS	35	48.00	
B						

CHG 80.90 298 eP 39 31.20 6.1X
1.2s 19.53nm 5.0mb
KMI 81.91 305 Pd 39 41.50 11.0X
1.5s 80.00nm
LZH 88.10 314 eP 40 12.50 11.4X
1.6s 42.00nm
GBA 95.58 282 P 40 45.00 9.1X
SLL 144.68 337 ePKP 46 47.60 0.9
0.5s 1.50nm
NB2 144.94 339 PKP 46 51.40 4.2X
0.9s 8.70nm
KSP 149.47 321 ePKP 47 08.80 14.1X
BRG 150.70 323 ePKP 47 11.90 15.3X
PRU 150.87 321 ePKP 47 13.00 16.2X
KHC 151.86 320 ePKP 47 15.00 16.6X
e 47 36.00
GEC2 151.94 319 ePKP 47 08.90 10.3X
0.6s 0.65nm
e 47 15.10
e 47 21.90

S.D. = 1.7 on 18 of 33 obs.

% APR 16, 1993 07h 33m 07.91±0.53s
28.020 S ± 4.6km 26.871 E ± 6.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

SEK 0.73 115 iPd 33 22.50 0.0
S 33 31.00
BFS 1.12 356 eP 33 29.30 -0.2
S 33 42.70
PRY 1.21 26 eP 33 31.60 0.5
S 33 48.00
BLF 1.24 209 eP 33 31.60 0.1
S 33 46.70
SWZ 1.61 301 eP 33 37.20 0.0
S 33 56.90
KSR 2.15 1 eP 33 45.00 0.0
S 34 12.40
FRS 2.19 218 iPc 33 45.50 0.0
S 34 11.20
SLR 2.60 29 eP 33 51.10 -0.4
S 34 29.00
BFT 3.66 51 e(P) 34 15.00 8.3X
S.D. = 0.3 on 8 of 9 obs.

? APR 16, 1993 08h 16m 38.06±1.31s
15.562 N ±18.3km 93.399 W ±11.3km
DEPTH = 33.0km (normol)
NEAR COAST OF CHIAPAS, MEXICO (69)

SCX 1.38 32 iP 17 01.30 0.1
iS 17 16.90
BVA 2.81 108 iP 17 22.83 0.9
RDG 2.88 101 ePc 17 21.88 -1.0
eS 17 57.17
OXX 3.53 296 (P) 17 32.10 -0.1
(S) 18 09.80
MRL 3.61 97 ePd 17 30.56 -2.7X
eS 18 11.38

S.D. = 1.3 on 4 of 5 obs.

& APR 16, 1993 08h 44m 18.50s
64.423 N 137.355 W
DEPTH = 10.0km (geophysicist)
4.4mb (1 obs.)
SOUTHERN YUKON TERRITORY, CANADA (18)
<PGC-P>. ML 3.9 (PGC). 3.8
(AEIC).

DWY 0.98 249 Pd 44 35.40 -1.7
TMW 2.73 249 P 45 07.00 3.8X
TMW 2.73 249 eP 45 01.50 -1.7
S 45 41.26
DOT 3.05 258 eP 45 06.79 -0.9
S 45 50.61
HYT 3.61 181 Pn 45 13.90 -1.9
Pg 45 24.50
Lg 46 10.00
THY 3.84 259 eP 45 19.32 0.3
PAX 3.89 252 iP 45 18.07 -1.7
S 46 08.34
FYU 3.92 307 eP 45 18.22 -1.8
CTGM 3.92 210 iP 45 19.03 -1.2
BALM 4.10 216 iP 45 21.05 -1.6
SDG 4.14 246 eP 45 21.00 -2.1

HDA 4.16 274 iP 45 22.87 -0.6
INK 4.19 20 eP 45 21.50 -2.3
GLB 4.20 228 eP 45 21.75 -2.3
GLM 4.34 282 eP 45 24.44 -1.6
TGL 4.47 217 eP 45 26.54 -1.3
FBA 4.51 281 P 45 27.30 -1.1
FBA 4.51 281 eP 45 24.19 -4.2
eS 46 36.79
CCB 4.52 278 eP 45 25.82 -2.6
CRQM 4.55 219 eP 45 27.61 -1.5
YAH 4.56 209 iP 45 29.05 -0.2
S 46 24.86
WRH 4.65 275 eP 45 28.07 -2.3
KLU 4.89 237 eP 45 33.19 -0.7
VLZ 5.28 235 iP 45 38.63 -0.6
CVA 5.50 229 eP 45 40.81 -1.6
SML 5.63 247 eP 45 42.91 -1.4
TRF 5.79 266 iP 45 44.00 -2.5
SKT 6.86 256 eP 45 57.71 -3.8
YKA 10.34 90 eP 46 51.70 1.9
0.5s 0.90nm 4.4mb
MBC 13.22 19 eP 47 20.00 -8.5
30 obs. associated

APR 16, 1993 09h 12m 27.19±0.35s
8.258 N ± 7.0km 75.239 W ± 5.0km
DEPTH = 27.0km (5 depth phases)
4.5mb (13 obs.)
NORTHERN COLOMBIA (99)

BOG 3.79 162 eP 13 35.50 9.9X
eS 14 18.00
SDV 4.60 82 iPnc 13 40.00 3.1
iSn 14 29.70
TOV 5.59 74 ePd 13 52.10 1.3
iPP 13 54.00
iS 15 03.60
CEOS 6.87 83 iP 14 08.60 -0.3
iS 15 27.00
MORO 7.30 69 iP 14 14.10 -0.9
iS 15 41.00
PSO 7.32 197 eP 14 36.00 20.5X
GUAC 8.10 76 iP 14 26.10 0.0
OLLA 8.51 77 iP 14 30.00 -1.8
iS 16 07.80
LLAV 8.61 75 iP 14 32.20 -0.9
ZOBO 25.37 164 P 17 54.00 -0.5
LR 23 08.00
LPB 25.62 164 P 17 57.00 0.2
CNCB 25.92 164 P 18 00.10 0.4
CCH 27.02 161 P 18 05.30 -4.2X
SIV 27.88 150 P 18 30.40 13.4X
MIAR 31.12 330 eP 18 45.31 -0.5
0.8s 3.04nm 4.2mb
UYO 31.27 328 iPc 18 47.40 0.3
FVM 32.62 337 ePd 18 59.37 0.5
0.5s 6.30nm 4.8mb
LTX 33.94 312 eP 19 09.92 -0.7
MEO 34.00 324 iPc 19 09.70 -1.3
BAO 35.94 131 iPc 19 27.10 -0.8
i 19 34.90 26km
e 19 45.00
e 31 04.10
e 31 41.40
i 32 13.10
i 19 27.50 -1.1
i 19 35.10 26km
i 19 38.00

BDF 36.03 131 eP 19 27.50 -1.1
i 19 35.10 26km
i 19 38.00
PPD 38.17 142 (P) 19 50.00 3.7X
GOL 41.31 324 ePc 20 13.26 0.8
0.8s 11.26nm 4.6mb
pP 20 22.76 32km
RSSD 43.64 330 ePc 20 31.12 -0.3
0.8s 6.94nm 4.5mb
SRU 44.09 320 eP 20 33.53 -1.6
GLA 44.11 310 eP 20 36.09 0.9
MSU 44.84 318 eP 20 40.82 -0.4
ULM 45.25 341 eP 20 46.00 2.0
DAU 45.30 321 eP 20 45.11 0.1
ARUT 45.31 316 eP 20 45.29 0.4
JQA 45.42 360 eP 20 45.00 -0.3
BW06 45.70 325 ePd 20 47.70 -0.3
1.0s 9.11nm 4.7mb
GSC 46.54 312 eP 20 55.14 0.6
LCCM 48.91 326 eP 21 12.80 -0.2
FCC 52.41 348 eP 21 41.00 1.7
DPW 53.62 325 eP 21 47.48 -1.0

VGB 53.92 322 eP 21 50.33 -0.3
FRB 55.60 4 eP 22 01.50 -1.0
YKA 61.21 340 eP 22 40.00 -1.8
0.8s 9.30nm 5.0mb
LKO 68.72 83 P 23 30.82 -0.4
TIC 69.56 86 P 23 35.70 -0.7
LIC 69.60 86 P 23 35.30 -1.4
KIC 69.87 86 P 23 37.80 -0.5
INK 70.98 340 eP 23 44.50 0.5
0.9s 2.00nm 4.2mb
MBC 72.03 350 eP 23 50.00 -0.2
0.8s 2.00nm 4.2mb
FLN 73.79 42 eP 24 12.90 11.9X
MFF 73.81 44 eP 24 09.80 8.7X
0.7s 5.75nm 4.7mb
EPF 73.87 48 eP 24 09.70 8.0X
0.7s 8.50nm 4.9mb
LDF 74.01 42 eP 24 14.10 11.8X
CP2 76.56 331 eP 24 15.42 -1.5
NB2 81.12 29 P 24 42.80 1.4
0.8s 2.10nm 4.2mb
KHC 83.05 41 eP 24 53.50 1.8
e 25 02.50 28km
GEC2 83.15 42 eP 24 53.50 1.2
0.7s 1.47nm 4.2mb
e 24 58.60 16kmX
e 25 02.60
e 25 08.50
e 25 13.20

SDF 86.87 22 iP 25 09.80 -0.6
BCAO 93.10 85 iPd 25 43.80 3.2X
1.0s 15.00nm 5.4mb
ic 25 51.20 23km
GBA 145.25 52 PKP 32 06.00 1.0
ASPA 148.17 238 ePKP 32 11.70 2.0
0.7s 7.60nm
e 32 22.30
WB2 149.10 245 ePKP 32 11.60 0.4
1.1s 5.70nm
i 32 14.80
i 32 25.00
WRA 149.11 245 PKP 32 12.10 0.9
0.8s 3.10nm
S.D. = 1.1 on 49 of 59 obs.

? APR 16, 1993 09h 13m 24.33±3.81s
48.398 S ±56.1km 164.842 E ±17.5km
DEPTH = 33.0km (normol)
3.1mb (1 obs.)
OFF W. COAST OF S. ISLAND, N.Z. (161)

SIZ 2.70 57 eP 14 07.20 0.9
BCZ 3.15 42 P 14 13.60 0.9
eS 14 51.50
TUZ 4.08 55 eP 14 26.20 0.3
eS 15 12.40
TLC 4.33 44 eP 14 30.90 1.3
CMCZ 4.45 45 P 14 31.40 0.0
eS 15 24.10
SBCZ 4.51 45 eP 14 31.50 -0.7
MHZ 4.52 44 eP 14 32.40 0.1
BWZ 5.20 44 eP 14 40.50 -1.3
ODZ 5.21 52 P 14 40.50 -1.5
eS 15 37.60
WRA 37.53 308 P 20 37.00 0.0
0.7s 0.20nm 3.1mb
S.D. = 1.1 on 10 of 10 obs.

? APR 16, 1993 09h 31m 12.06±3.60s
37.983 N ±14.7km 27.161 E ±36.4km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

IZM 0.42 11 iPg 31 19.00 -1.5
iSg 31 25.00
YER 1.23 133 iPn 31 35.00 -0.4
KHL 1.89 79 ePn 31 45.50 0.1
DST 1.98 35 ePn 31 47.20 0.5
BNT 2.44 14 iPn 31 54.20 1.0
KCT 2.45 22 iPn 31 53.70 0.4
S.D. = 1.1 on 6 of 6 obs.

* APR 16, 1993 10h 13m 41.85±0.70s
30.173 S ± 9.3km 166.067 E ± 8.0km
DEPTH = 16.5km (2 depth phases)
5.0mb (14 obs.) 4.9Msz (1 obs.)

16d 10h

NORTHWEST OF NEW ZEALAND (607)

DZM	8.08	2	iPc	15	39.90	-1.4
			iS	17	03.00	
OUZ	8.10	130	eP	15	41.60	0.1
MOZ	11.00	141	eP	16	19.80	-1.7
BRS	11.98	280	iPc	16	32.80	-2.1
			i	16	35.50	
			i	16	40.00	
			i(S)	18	35.80	
			i	18	39.50	
			iTT	28	13.50	
ARMA	12.48	265	eP	16	39.90	-1.8
	0.4s	14.00nm			5.5mb	
			eS	18	50.00	
			eTT	27	45.00	
THZ	12.82	156	eP	16	46.90	0.9
MNG	12.94	146	eP	16	48.40	0.8
WVZ	13.41	165	eP	16	51.70	-2.1
LTZ	13.53	160	P	16	55.10	-0.4
	0.6s	47.00nm			5.6mb	
KHZ	13.62	156	eP	16	57.90	1.4
BWZ	14.65	169	eP	17	09.00	-1.0
CNB	14.96	246	eP	17	14.00	-0.3
	1.2s	63.00nm			4.9mb	
			e	17	21.20	
CAN	15.25	246	eP	17	17.30	-0.7
			i	17	25.20	
			i	17	31.90	
			e(S)	19	56.60	
BWA	15.51	250	eP	17	19.30	-2.2
			i	17	25.70	
			i	17	32.00	
RMQ	15.68	279	iPc	17	25.30	1.7
	1.0s	69.00nm			4.8mb	
CMS	17.43	261	iPd	17	49.00	3.2X
	1.1s	100.00nm			4.9mb	
			i	17	55.60	
TOO	18.59	241	iPc	18	03.30	3.2X
	0.9s	90.00nm			5.0mb	
			iPp	18	08.20	
QLP	19.54	275	eP	18	11.80	0.2
CTA	20.53	295	iPn	18	23.00	0.9
	1.4s	34.88nm			4.5mb	
			i	18	27.50	
			i	18	34.00	
			i(pP)	18	51.00	156kmX
			i	20	37.00	
			e	21	32.00	
			e	22	15.00	
BFD	20.76	244	eP	18	26.20	1.9
	1.4s	111.00nm			5.0mb	
STK	21.04	259	iPc	18	29.10	1.9
			eS	22	54.10	
ADE	23.51	251	eP	18	56.50	4.7X
ASPA	29.34	275	iPc	19	47.20	1.1
	1.0s	13.30nm			4.7mb	
			i	19	53.10um	4.9Msz
WBZ	30.39	282	eP	20	00.60	5.2X
	0.9s	3.30nm			4.2mb	
WRA	30.40	282	P	19	58.80	3.3X
	1.2s	1.40nm			3.7mb X	
SPA	59.99	180	ePc	23	51.50	1.8
	0.8s	29.17nm			5.5mb	
NVL	77.68	188	(P)	25	43.00	4.4X
LOE	77.91	298	eP	25	45.00	4.2X
GYA	80.01	308	P	26	01.20	9.0X
TIA	80.45	322	eP	25	57.80	3.6X
KMI	81.88	305	eP	26	06.50	4.3X
	1.5s	70.00nm			5.5mb	
			pP	26	12.00	17km
XAN	83.60	315	P	26	19.50	8.9X
	1.0s	3.60nm			4.5mb	
CD2	84.82	310	eP	26	22.50	5.7X
LZH	88.07	314	eP	26	38.50	5.7X
	1.4s	39.00nm			5.5mb	
			pP	26	43.50	16km
FBA	101.32	18	(Pd diff)	27	31.60	-1.2
NB2	144.92	339	PKP	33	21.00	1.9
	1.3s	12.60nm				
MLR	145.38	307	ePKP	33	39.00	18.5X
KSP	149.44	321	ePKP	33	38.80	12.2X
OHR	149.92	301	ePKP	33	36.20	8.5X
ZST	150.24	316	ePKP	33	40.80	12.9X
BRG	150.68	323	ePKP	33	38.20	9.7X
			e	33	42.90	
PRU	150.84	321	ePKP	33	43.00	14.3X

KHC	151.83	320	ePKP	33	10.50	
	1.0s	4.30nm		33	41.00	10.7X
			e	33	45.00	
			e	34	27.00	
GEC2	151.91	319	ePKP	33	40.90	10.4X
	1.2s	4.69nm				
			e	33	45.30	
			e	33	49.30	
			e	34	00.20	
S.D. = 1.5 on 23 of 44 obs.						
? APR 16, 1993 10h 45m 32.29±2.87s						
31.101 S ±48.9km 68.871 W ±15.5km						
DEPTH = 100.0km (geophysicist)						
SAN JUAN PROVINCE, ARGENTINA (137)						
RTLL	0.41	124	iPc	45	48.50	0.7
			S	46	00.00	
CFA	0.74	133	ePd	45	51.00	0.6
			S	46	05.00	
RTBS	0.75	222	iPd	45	49.80	-0.5
MRA	2.99	117	ePc	46	18.20	-0.5
			S	46	53.00	
TCA	3.67	95	iP	46	27.60	-0.5
			(S)	47	09.50	
S.D. = 0.9 on 5 of 5 obs.						
* APR 16, 1993 10h 53m 11.37±3.71s						
11.156 S ±17.9km 166.351 E ±14.0km						
DEPTH = 187.6 ±35.3 km						
4.2mb (2 obs.)						
SANTA CRUZ ISLANDS (184)						
DZM	10.85	180	iPd	55	43.00	0.0
			iS	57	45.00	
URZ	28.66	162	eP	58	52.30	-0.3
STK	30.78	224	eP	59	12.20	0.9
LTZ	31.93	172	eP	59	21.20	-0.1
WBZ	31.99	250	eP	59	21.40	-0.7
	0.6s	1.70nm			3.9mb	
WRA	32.00	250	P	59	22.10	-0.1
	0.6s	0.50nm			3.4mb X	
FBA	83.24	18	eP	05	18.00	0.4
	1.0s	9.50nm			4.5mb	
			e	05	56.80	
YKA	94.80	27	eP	06	12.10	-0.3
	0.7s	0.30nm			3.6mb X	
BCAO	147.44	261	iPKPc	12	36.90	4.1X
	0.2s	36.00nm				
S.D. = 0.6 on 8 of 9 obs.						
* APR 16, 1993 11h 31m 54.61±0.63s						
34.391 S ±14.8km 112.338 W ±15.6km						
DEPTH = 10.0km (geophysicist)						
5.0mb (7 obs.)						
SOUTHERN EAST PACIFIC RISE (684)						
CNCB	43.28	78	P	39	59.20	0.3
LPB	43.34	77	P	40	02.00	2.8
ZOBO	43.46	77	P	40	00.20	-0.2
	1.2s	24.32nm			4.9mb	
			S	46	40.00	
			LR	52	06.00	
CCH	44.48	80	eP	40	08.00	-0.3
SIV	49.34	82	P	40	59.00	12.8X
PPD	54.45	94	(P)	41	26.00	1.4
LTX	63.91	8	eP	42	27.00	-2.8
TUC	66.36	1	(P)	42	44.93	-0.7
	1.5s	14.12nm			4.9mb	
			i	42	50.31	
			e	42	50.31	
PLM	67.52	356	eP	42	54.84	1.7
NVL	67.88	163	(P)	42	53.00	-1.8
ALO	69.19	5	P	43	10.00	6.5X
			Z	20s	0.27um	4.5Msz
GSC	69.46	356	eP	43	06.84	1.9
			i	43	10.02	
ISA	69.93	355	P	43	20.00	12.2X
			Z	20s	0.86um	5.0Msz
WMOK	69.93	12	P	43	10.00	2.2
			Z	18s	0.44um	4.7Msz
HON	70.39	315	P	43	30.00	19.2X
			Z	21s	0.49um	4.7Msz
MIAR	70.79	16	P	43	20.00	6.9X
			Z	19s	0.15um	4.3Msz
ARUT	71.82	359	eP	43	19.92	0.6

BONR	72.19	355	eP	43	21.79	0.0
TNP	72.25	356	(P)	43	21.66	-0.3
	1.2s	16.70nm			5.0mb	
CMB	72.45	353	P	43	30.00	7.1X
Z	20s	0.85um			5.0Msz	
MSU	72.54	0	eP	43	23.21	-0.5
GOGA	72.69	25	P	43	30.00	5.6X
Z	19s	0.49um			4.8Msz	
SRU	73.15	1	eP	43	25.79	-1.4
KVN	73.27	355	eP	43	30.09	2.2
MYNC	73.97	24	P	43	30.00	-1.9
Z	19s	0.63um			4.9Msz	
GOL	74.00	6	P	43	40.00	7.7X
Z	20s	0.78um			5.0Msz	
DAU	74.44	1	eP	43	34.00	-0.8
LBFM	75.88	353	eP	43	43.95	1.0
CEH	76.50	27	P	43	50.00	3.7X
Z	22s	0.32um			4.6Msz	
BW06	76.84	2	eP	43	46.85	-1.5
	1.1s	21.44nm			5.1mb	
		e		43	51.69	
RSSD	78.50	6	eP	43	55.63	-1.8
	1.1s	25.36nm			5.2mb	
Z	20s	0.43um			4.8Msz	
LCCM	79.86	0	eP	44	04.40	-0.3
VGB	79.90	354	eP	44	05.95	1.1
BFD	80.44	231	eP	44	08.20	0.1
DPW	82.06	356	eP	44	17.44	1.3
NEW	82.39	357	ePd	44	19.50	1.7
	1.2s	35.71nm			5.4mb	
STK	84.22	235	eP	44	30.20	2.5
HRV	85.15	29	P	44	30.00	-1.9
Z	19s	0.24um			4.6Msz	
RSNY	85.75	26	P	44	40.00	5.1X
Z	21s	0.18um			4.4Msz	
CBM	90.19	29 (P)		44	48.74	-7.3X
Z	20s	0.26um			4.7Msz	
YKA	96.56	359	eP	45	23.30	-1.6
	1.0s	1.60nm			4.5mb	
PMR	100.20	343	Pdiff	45	50.00	8.5X
Z	18s	0.24um			4.7Msz	
JNE	126.65	23	iPd diff	47	45.81	6.9X
KHC	137.95	53	ePKP	51	20.00	-0.9
		e		51	25.00	
GEC2	138.03	53	ePKP	51	24.70	3.5X
	1.3s	2.73nm				
		e		51	38.40	
VAY	144.05	65	ePKP	51	29.00	-2.9
LOE	145.21	250	ePKP	51	37.90	3.4X
NST	145.39	246	ePKP	51	33.20	-1.6
GYA	145.62	267	PKP	51	36.00	0.8
XAN	146.05	281	PKP	51	34.50	-1.1
BTO	146.08	293	ePKP	51	35.80	0.3
MLR	146.49	58	ePKP	51	42.00	5.9X
CHG	148.18	249	ePKPc	51	43.10	3.7X
	1.5s	76.39nm				
KMI	148.31	263	ePKP	51	43.50	3.8X
CD2	149.51	274	ePKP	51	44.60	3.4X
OBN	150.14	37	ePKP	51	44.00	2.8
	1.1s	59.00nm				
		i		51	49.50	
				52	14.00	
LZH	150.50	284	ePKP	51	46.50	3.8X
GTA	153.89	290	ePKP	51	51.00	3.6X
S.D. = 1.6 on 37 of 58 obs.						
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? APR 16, 1993 11h 43m 04.17± 1.48s						
39.179 N ±10.4km 27.367 E ±21.5km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 2.7 (ISK).						
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IZM	0.78	186	iPg	43	19.50	0.0
			iSg	43	31.50	
DST	1.07	66	ePn	43	24.00	-0.3
BNT	1.25	20	ePn	43	26.90	-0.5
KCT	1.31	35	ePn	43	29.20	0.8
S.D. = 1.0 on 4 of 4 obs.						
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% APR 16, 1993 11h 43m 14.46± 0.53s						
11.312 N ± 4.3km 61.284 W ± 5.1km						
DEPTH = 10.0km (geophysicist)						
WINDWARD ISLANDS (95)						
MD 3.2 (TRN).						
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PIG	0.46	109	eP	43	24.11	0.3
			eS	43	30.70	

TPR 0.51 104 eP 43 24.63 -0.2
 BOT 0.57 104 eP 43 25.92 -0.2
 TRN 0.67 190 eP 43 27.32 -0.4
 TCE 0.76 217 eP 43 28.86 -0.5
 GRW 0.92 336 eP 43 32.46 0.4
 TPP 1.00 189 eP 43 34.41 1.0
 SVB 1.95 1 eP 43 48.09 0.2
 SVV 2.00 2 eP 43 48.19 -0.4
 S.D. = 0.6 on 9 of 9 obs.

% APR 16, 1993 12h 23m 01.55±1.02s
 45.455 N ±10.4km 24.697 E ± 8.0km
 DEPTH = 10.0km (geophysicist)
 ROMANIA (358)

CMP 0.30 128 iPd 23 06.00 -1.9
 MTUR 0.34 131 iPd 23 08.50 -0.2
 TNR 0.36 304 ePc 23 08.00 -0.9
 DRA 0.84 202 ePc 23 19.00 1.3
 MLR 0.88 87 iPd 23 19.00 0.5
 ISR 1.34 103 eP 23 30.00 3.7X
 VRI 1.48 73 ePd 23 29.50 1.3
 S.D. = 1.6 on 6 of 7 obs.

% APR 16, 1993 12h 27m 05.96±1.16s
 41.094 N ±12.7km 29.180 E ± 9.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

ISK 0.10 253 iPg 27 08.60 0.0
 HRT 0.46 126 iPg 27 15.20 -0.1
 YLV 0.55 164 iPg 27 17.20 0.2
 CTT 0.57 276 iPg 27 17.30 -0.2
 DMK 1.29 305 iPn 27 30.10 0.2
 S.D. = 0.2 on 5 of 5 obs.

% APR 16, 1993 12h 36m 09.26±0.77s
 38.345 S ± 5.1km 175.827 E ± 5.0km
 DEPTH = 228.3 ± 8.0 km
 NORTH ISLAND, NEW ZEALAND (159)

WLZ 0.51 339 P 36 39.90 0.2
 WHH 0.75 136 P 36 40.10 -0.9
 MOZ 0.82 258 Pc 36 41.50 0.3
 NGZ 0.85 192 P 36 41.50 -0.1
 CNZ 0.88 194 P 36 41.10 -0.6
 URZ 1.01 86 P 36 41.10 -1.2
 PAHZ 1.09 118 P 36 42.70 -0.2
 MOH 1.30 128 P 36 44.60 0.4
 WAHZ 1.41 163 P 36 45.40 0.2
 TTH 1.43 147 P 36 45.40 0.2
 KUZ 1.60 357 P 36 47.10 0.5
 BSZ 1.61 205 P 36 47.30 0.6
 NOZ 1.76 100 P 36 48.40 0.4
 TEHZ 1.81 155 P 36 48.70 0.2
 MAHZ 1.81 118 P 36 49.00 0.5
 PUZ 1.93 83 P 36 49.30 -0.4
 HBZ 2.09 70 P 36 51.20 0.1
 MNG 2.29 187 Pc 36 53.30 0.2
 PGZ 2.30 171 P 36 53.40 0.2
 KIW 2.61 195 P 36 56.70 0.2
 CAW 2.82 192 P 36 58.90 0.1
 MTW 2.82 185 Pc 36 58.60 -0.2
 MRW 3.01 196 P 37 01.00 0.1
 BLW 3.03 185 P 37 01.00 -0.2
 WEL 3.05 195 P 37 01.50 0.2
 TCW 3.10 202 P 37 02.20 0.2
 MOW 3.10 188 P 37 01.80 -0.2
 ORZ 3.55 225 P 37 06.90 -0.4
 THZ 4.09 212 eP 37 13.90 0.2

KHZ 4.43 203 Pc 37 18.40 0.6
 DSZ 4.59 221 P 37 19.50 -0.4
 LTZ 5.19 210 P 37 27.00 -0.4
 MQZ 5.87 203 P 37 35.10 -0.8
 BWZ 7.62 214 eP 37 58.20 -0.1
 ODZ 7.73 208 eP 38 00.10 0.3
 S.D. = 0.4 on 35 of 35 obs.
 % APR 16, 1993 13h 00m 36.49±0.56s
 40.212 S ± 7.2km 173.322 E ± 7.0km
 DEPTH = 200.0km (geophysicist)
 COOK STRAIT, NEW ZEALAND (163)

ORZ 0.86 224 Pc 01 06.90 1.3
 TCW 1.24 144 P 01 09.10 0.9
 BSZ 1.30 72 P 01 09.60 0.8
 KIW 1.38 119 P 01 09.60 0.2
 MRW 1.46 135 Pd 01 10.60 0.4
 WEL 1.54 135 P 01 11.10 0.3
 THZ 1.58 191 Pc 01 11.90 0.6
 CAW 1.60 125 Pd 01 11.80 0.4
 MNG 1.70 105 Pd 01 12.80 0.5
 MOW 1.90 130 P 01 14.30 0.0
 MTW 1.91 120 P 01 14.30 -0.1
 DSZ 1.92 216 Pc 01 15.30 0.8
 CNZ 1.99 60 P 01 15.80 0.4
 BLW 2.00 126 P 01 15.30 -0.1
 NGZ 2.04 60 P 01 16.30 0.4
 KHZ 2.21 176 P 01 17.40 -0.1
 PGZ 2.29 101 P 01 18.40 0.0
 WAHZ 2.39 79 P 01 19.50 -0.1
 TEHZ 2.69 86 P 01 22.70 -0.2
 LTZ 2.69 197 P 01 23.00 0.1
 WHH 2.79 63 P 01 23.70 -0.5
 WVZ 3.46 213 P 01 31.70 -0.3
 MQZ 3.53 188 P 01 32.00 -0.9
 URZ 3.53 58 P 01 32.20 -0.7
 NOZ 3.98 68 P 01 38.00 -0.6
 PUZ 4.39 62 eP 01 42.60 -1.2
 BWZ 5.01 209 eP 01 50.10 -1.5
 ODZ 5.22 201 eP 01 53.40 -0.9
 S.D. = 0.7 on 28 of 28 obs.

? APR 16, 1993 13h 01m 22.88±3.34s
 15.542 N ±38.7km 91.447 W ±11.9km
 DEPTH = 33.0km (normal)
 MEXICO-GUATEMALA BORDER REGION (62)
 MD 4.0 (GCG).

TPX 1.01 231 iP 01 40.60 -0.1
 RDG 1.08 119 ePc 01 40.55 -1.4
 BVA 1.17 138 ePd 01 42.41 -0.8
 IXG 1.66 145 eP 01 51.49 1.2
 MRL 1.76 105 eP 01 52.62 0.9
 YUP 2.08 130 eP 01 59.64 3.4X
 QZG 2.19 114 iPd 02 01.48 3.6X
 S.D. = 1.6 on 5 of 7 obs.

% APR 16, 1993 13h 06m 42.82±0.61s
 26.391 S ± 5.4km 27.406 E ± 6.0km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.3 (PRE). mbLg 3.1 (8UL).

PRY 0.54 174 eP 06 54.00 0.4
 KSR 0.70 319 eP 06 57.00 0.2
 BFS 0.75 228 eP 06 57.30 -0.7
 SLR 1.02 51 eP 07 03.00 0.3
 SEK 1.93 174 eP 07 17.20 0.4
 SWZ 2.02 247 eP 07 18.20 0.1

BFT 2.47 74 eP 07 24.00 -0.7
 BLF 2.91 201 eP 07 35.00 4.1X
 FRS 3.82 208 eP 07 39.00 -4.6X
 BUL 6.32 10 iPn 08 15.50 -3.6X
 CER 9.89 223 e(P) 09 04.50 -4.2X
 MTD 10.32 23 ePn 09 09.30 -5.5X
 S.D. = 0.6 on 7 of 12 obs.

* APR 16, 1993 13h 29m 34.25±1.44s
 51.391 N ±22.7km 168.828 W ±11.7km
 DEPTH = 33.0km (normal)
 3.9mb (4 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.92 279 eP 30 47.00 -0.7
 SLKM 13.81 41 (P) 32 47.72 -2.0
 KLU 16.11 42 eP 33 16.47 -3.2X
 IMA 16.61 22 eP 33 26.99 1.1
 BALM 17.49 46 eP 33 36.48 -0.5
 INK 23.99 32 eP 34 50.00 3.8X
 YKA 30.64 48 eP 35 47.00 -0.2
 MBC 31.33 20 eP 35 54.50 1.4
 BONR 37.61 91 (P) 36 48.22 0.5
 MAT 40.01 269 eP 37 17.00 9.6X
 HFS 68.81 359 eP 40 37.20 0.6
 WRA 86.66 232 P 42 24.40 8.8X
 S.D. = 1.3 on 8 of 12 obs.

APR 16, 1993 14h 08m 38.93±0.08s
 17.778 S ± 2.7km 178.864 W ± 2.8km
 DEPTH = 565.1km (geophysicist)
 6.0mb (70 obs.)

FIJI ISLANDS REGION (181)
 Mw 6.9 (GS), 6.9 (HRV). mb 6.0
 (BRK). Mo=1.0×10¹⁹ Nm (PPT).
 Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=10 Dip=90 Slip=-65
 NP2: 100 25 -180
 Principal Axes:

T P1g=40 Azm=77
 P 40 303
 Comment: The focal mechanism is
 poorly controlled and
 corresponds to normal faulting
 with a moderate strike-slip
 component. The preferred fault
 plane is not determined.

RADIATED ENERGY
 No. of sta: 22 Focal mech. M
 Energy 8.7±1.5×10¹³ Nm
 MOMENT TENSOR SOLUTION
 Dep 566 No. of sta: 28
 Moment Tensor; Scale 10¹⁹ Nm
 Mrr=-0.11 Mtt= 0.36
 Mff=-0.25 Mrt= 0.21
 Mrf=-1.93 Mtf= 1.70

Principal axes:
 T Val= 2.40 P1g=29 Azm=127
 N 0.36 42 7
 P -2.76 34 239
 Best Double Couple:Mo=2.6×10¹⁹
 NP1:Strike=271 Dip=42 Slip=-4
 NP2: 4 87 -132
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 44S, *C M.W.: 35S, 75C
 Centroid Location:
 Origin Time 14:08:46.7 0.1
 Lot 17.54S 0.01 Lon 178.76W 0.01
 Dep 591.7 0.5 Half-duration 6.8
 Moment Tensor; Scale 10¹⁹ Nm
 Mrr=-0.10 0.01 Mtt= 0.55 0.01
 Mff=-0.45 0.01 Mrt=-0.09 0.01
 Mrf=-1.90 0.01 Mtf= 1.72 0.01

16d 14h

Principal Axes:					LMZ 27.74 199 P 13 44.10 -0.2					DHH 43.95 29 eP 15 56.18 -1.9				
T	Val=	2.54	P1g=29	Azm=132	PAE 27.88 94 iPc 13 44.90 -1.0					e	17 42.48	604kmX		
N		0.16	43	10	1.0s 4377.90nm				7.0mb	iScP	20 32.08			
P		-2.70	33	243	PPT 27.90 94 iPc 13 45.10 -0.9					(P)	15 56.86	-1.5		
Best Double Couple: Mo=2.6*10**19					0.9s 4319.20nm				7.1mb X	e	17 35.35	538kmX		
NP1:Strike=276 Dip=44 Slip=-3					28.04 94 iPc 13 46.20 -1.0					eS	21 46.42			
NP2: 8 88 -134					1.0s 3469.00nm				6.9mb	e	24 39.17			
VUN	2.56	264	iPc	09 54.90 1.7	TVO 28.19 95 iPc 13 47.80 -0.8					iPc	15 59.28	-1.3		
SVA	2.57	262	iPd	09 56.00 2.7	0.7s 2.94nm				4.0mb X	e	17 48.55	631kmX		
RAO	11.45	176	iP	11 15.40 3.1X	BWZ 28.30 197 P 13 48.20 -1.0					iPd	15 58.40	-1.9		
			eS	11 55.00	ODZ 28.57 196 P 13 50.80 -0.8					11.30nm		4.4mb X		
PVC	12.22	268	iPd	11 22.50 2.5	MSZ 29.02 200 P 13 55.50 0.1					eP'P'	47 56.20			
			iS	13 44.00	MSZ 29.02 200 P 13 55.60 0.2					ePc	15 58.29	-1.9		
BKM	12.29	269	iPc	11 22.00 1.2	ARMA 29.63 239 iPd 14 01.70 0.6					e	17 36.60	536kmX		
			iS	13 39.50	i	18 46.00				e	17 54.76			
DZM	14.46	250	iPc	11 43.80 1.3	iScP	19 40.70				eScP	20 26.79			
			iS	14 01.50	S	18 18.20				P	15 59.00	-1.4		
			i	18 58.20	PMO 29.82 89 iPc 14 01.80 -0.8					0.9s 108.30nm		5.4mb		
			i	22 41.80	1.2s 7255.30nm				7.2mb X	44.41 254 iPd	16 00.80	-1.0		
RAR	18.32	104	iPc	12 20.25 0.5	VAH 30.03 90 iPc 14 03.40 -1.0					0.6s 9644.80nm		7.5mb X		
			eS	15 20.09	1.1s 3547.90nm				6.9mb	Z 20s 27.20um		6.2Msz		
OUZ	18.62	200	P	12 25.50 2.9	TPT 30.09 89 iPc 14 04.10 -0.8					i	16 03.60			
			e	19 08.10	1.2s 6703.00nm				7.1mb X	epP	17 56.90	699kmX		
WCZ	19.07	197	P	12 29.50 2.8	BCZ 30.24 199 P 14 06.10 0.2					iScP	20 34.50			
			e	19 08.60	RUV 30.28 90 iPc 14 05.60 -0.9					iS	21 56.10			
KUZ	19.49	193	P	12 31.30 0.7	SIZ 30.94 197 P 14 12.50 0.7					iScS	24 59.00			
			S	15 45.20	RMQ 31.15 248 iPd 14 14.30 0.4					eSKKP	44 45.90			
HBZ	19.90	187	P	12 32.40 -2.0	i	15 53.00				eP'P'	46 59.10			
			e	19 10.10	iScP	19 45.00				P	16 23.00	-1.5		
PUZ	20.38	187	eP	12 36.90 -2.0	RIV 31.22 233 iPc- 14 15.10 0.8					0.7s 5063.01nm		7.2mb X		
			e	22 52.70	Z 21s 0.72um				4.3MszX	eS	22 38.00			
WLZ	20.60	193	P	12 41.60 0.7	iScP	19 45.20				eP	16 23.10	-1.9		
			e	15 16.60	CTA 33.04 260 iPd- 14 29.50 -0.3					0.8s 5473.90nm		7.1mb X		
			S	16 00.90	i	14 53.00				PcP	17 43.00			
URZ	20.71	189	eP	12 39.50 -2.3	ipP	16 07.00				pP	18 04.80	549kmX		
			e	19 11.90	iPcPc	16 57.00				SP	19 12.10			
			e	22 49.10	eS	19 00.00				eS	22 37.80			
			e	22 49.60	iScP	19 45.00				Pd	16 26.22	1.2		
TAZ	20.78	190	P	12 44.10 1.6	ePcS	20 43.00				0.8s 5473.90nm		7.1mb X		
NOZ	20.94	187	eP	12 43.20 -0.7	iScS	23 52.00				PcP	17 43.00			
			e	19 13.40	iPd	14 29.76 0.0				pP	18 04.80	525kmX		
PATZ	20.97	191	P	12 44.90 0.6	e	16 01.13 529kmX				SP	19 12.10			
PAHZ	21.30	189	eP	12 46.20 -1.1	iS	19 07.63				iS	22 39.51			
			e	19 13.20	iPc	14 31.60 0.8				eScS	25 20.50			
MOZ	21.38	194	eP	12 48.00 0.0	iScP	19 52.20				eSS	26 10.99			
TTH	22.01	189	P	12 53.50 -0.1	iPd	14 33.50 0.5				eP	16 23.30	-1.7		
			e	19 14.60	epP	14 42.00 29kmX				eP	16 30.00	-2.0		
WAHZ	22.23	190	P	12 53.90 -1.9	e	19 20.80				eS	22 50.00			
			e	19 15.60	iScP	19 52.80				ePc	16 37.30	2.5		
			e	23 00.00	iPd	14 33.20 -0.7				0.8s 58.00nm		5.2mb		
NRZ	22.38	195	P	12 59.10 2.1	e	19 12.00				FORT 49.67 244 eP	16 40.00	-1.4		
TEHZ	22.45	189	eP	12 54.60 -3.1X	iScP	19 52.10				KNA 50.05 264 eP	16 42.50	-1.9		
			e	19 16.60	eP	14 38.00 0.1				WARB 50.92 250 iPd	16 49.20	-1.5		
			e	23 01.80	iPd	14 44.00 0.3				SWI 51.79 283 iPc	16 56.00	-1.1		
BSZ	22.59	193	eP	12 56.60 -2.3	i	19 02.50				COOL 55.62 244 iPd	17 22.10	-2.0		
PGZ	23.15	189	P	13 03.00 -0.9	i	19 57.10				DRV 55.65 199 iP	17 24.50	0.9		
			e	19 18.50	eP	14 47.70 0.9				PP	19 24.00			
MNG	23.28	191	eP	13 01.90 -3.3X	iPd	14 47.10 -0.4				S	24 29.00			
			S	16 39.60	e	19 45.50				MEEK 58.07 249 iPd	17 39.10	-1.8		
			e	19 17.70	e	20 03.00				KLB 58.49 243 iPd	17 41.70	-2.0		
			e	22 59.50	i	21 09.10				NWAO 58.89 242 eP	17 44.00	-2.3		
MTW	23.80	191	eP	13 07.00 -2.8	MDG 36.73 286 eP	15 02.00 1.7				0.4s 104.00nm		5.5mb		
			i	19 20.10	38.32 241 iPd	15 14.00 0.8				RKG 59.03 240 iPc	17 46.50	-0.7		
CAW	23.83	191	P	13 08.00 -2.1	0.5s 1155.00nm				6.7mb	BAL 59.45 245 iPd	17 48.30	-1.7		
BLW	24.01	191	eP	13 09.90 -1.8	iScP	20 11.10				MUN 59.80 243 eP	17 51.00	-1.3		
			i	19 21.10	eS	23 42.80				0.7s 738.00nm		6.1mb		
MRW	24.02	192	P	13 10.10 -1.7	iScS	24 24.30				DAV 60.16 289 eP+	17 54.00	-0.8		
			S	16 46.00	eP	15 16.00				MRWA 60.16 246 iPd	17 53.00	-1.7		
SNZO	24.09	192	eP	13 11.10 -1.3	BFD 38.97 232 iPd	15 19.00 0.5				SBA 60.52 183 iPc	17 57.90	1.6		
MOW	24.10	191	P	13 07.00 -5.5X	MCO 40.43 200 eP	15 30.60 0.6				NANU 61.35 254 iPd	18 01.50	-1.0		
QRZ	24.14	196	P	13 12.70 -0.1	ADE 41.34 237 iPd-	15 37.70 0.1				CTB 61.44 289 ePc	18 03.00	-0.2		
			S	16 54.90	e	15 49.50 43kmX				MKS 61.46 274 iPc	18 03.00	-0.4		
THZ	24.92	195	P	13 19.10 -0.7	HPO 43.21 33 eP	15 50.77 -1.5				PLP 62.46 293 ePd	18 07.80	-1.9		
			S	16 59.10	e	16 15.81 108kmX				PCI 62.47 278 iPd	18 11.50	1.7		
			e	23 07.50	e	17 37.90				RPN 64.24 112 ePc	18 21.25	0.3		
DSZ	25.19	197	P	13 19.20 -3.0X	HON 43.91 29 P	16 01.57 3.8X				PGP 67.02 294 iPc	18 36.00	-2.3		
KHZ	25.40	193	P	13 21.80 -2.1	Z 18s 4.12um				5.4Msz	QVP 67.47 295 eP	18 41.50	0.5		
			S	17 08.50	PcP	17 36.83				MAJO 67.54 324 iPd	18 40.09	-1.0		
			e	19 24.10	e	18 48.45				ipPd	20 32.32	543kmX		
			e	22 00.80	S	21 52.14				ePP	21 16.16			
LTZ	26.04	195	P	13 27.50 -2.1	ScS	24 43.18				iScP	21 33.24			
WVZ	26.72	197	P	13 33.90 -1.6	SS	25 31.86				iS	26 53.25			
			e	15 04.80	ePc	15 56.81 -1.2				iScS	27 51.52			
MQZ	26.83	194	P	13 34.90 -1.5	e	17 41.50 590kmX				e	30 09.67			
EWZ	27.09	197	P	13 37.40 -1.3	e	18 14.95				eSS	31 42.37			
AFR	27.71	94	iPc	13 43.20 -1.1	eScP	20 32.22				MAT 67.54 324 iPd	18 38.50	-2.6		

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
EARTHQUAKE DATA REPORT

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

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

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Bayesian 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 $20^\circ \leq \Delta \leq 160^\circ$, 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 $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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

Hypocenter Symbols

- & Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.
- % Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. Also, if we define η to be the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse, then $\eta \leq 16.0$ km.
- * Indicates a less reliable solution. In general, $8.5 < \eta \leq 16.0$ km.
- ? Indicates a poor solution, published for completeness of the catalog. In general, $\eta > 16.0$ km. This includes poor solutions computed using data reported by a single network.

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

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

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CVP	68.17	298	iS	26	52.30				ePKKP	37	03.09				e	22	18.46						
BCP	68.61	296	ePd	18	45.00	-0.3			eSKKPc	40	38.09				e	25	59.90						
BAG	68.63	296	eP	18	48.00	-0.2			e	42	09.09				e	26	28.57						
			iP-	18	46.60	-1.7			e	48	41.09				S	28	42.83						
			e	20	44.50	576kmX	NTYM	76.77	42	eP	19	33.38	-0.6		SS	34	11.36						
ERM	69.06	331	eS	27	06.00				ePcP	19	46.55			ORV	78.18	42	iPc	19	41.37	-0.2			
			iPd	18	50.28	0.2			pP	21	33.11	565kmX		KDC	78.37	14	ipP	21	41.77	566kmX			
			iS	27	11.11				esP	22	28.92				1.3s	581.83nm	ePc	19	41.24	-0.8			
KUSJ	69.21	332	eScS	27	54.64		ZSP	76.77	43	iPc	19	34.30	0.3				(SKS)	28	54.91	5.0mb			
SZP	69.26	297	eP	18	50.40	-0.6			ipPd	21	34.28	567kmX		PFO	78.40	49	pP	21	39.94	555kmX			
HOOJ	69.29	331	iPd	18	53.00	1.2	PRI	76.81	45	iPc	19	35.00	0.6				ePc	19	42.76	-0.2			
BBP	69.36	301	eP	18	52.20	0.8			ipP	21	34.72	565kmX					ipPc	21	41.29	554kmX			
ADK	69.39	1	ePd	18	50.20	-2.1	PHAM	76.82	45	eP	19	33.56	-0.8				isPd	22	39.89				
	1.6s	1190.57nm	eP	18	49.50	-2.3			epP	21	33.92	569kmX					iS	28	54.91				
			e	22	20.00				e	22	20.00						(SKS)	29	00.05				
			epP	20	48.07	578kmX	MHC	76.83	43	ePc	19	33.79	-0.8				esP	29	36.13				
PIP	69.47	298	ePc	18	52.00	-1.1			ePc	19	33.79	-0.8					ipSKS	31	51.11				
SHK	69.49	319	e(P)d	18	52.00	-0.8			1.3s	720.00nm	6.0mb						esS	32	24.02				
			e	20	49.10	568kmX	LLA	76.88	44	ipP	21	34.49	571kmX				e	33	02.78				
MRRJ	70.37	330	eP	18	58.30	0.5				iPc	19	34.98	0.3				eSS	34	06.93				
SMY	70.48	355	eP	18	56.25	-1.9				ipP	21	34.96	567kmX	MIN	78.57	41	iPc	19	42.91	-0.9			
	0.9s	713.91nm	6.2mb				ARN	76.91	44	ePc	19	33.92	-0.9		1.8s	910.00nm	5.9mb	ipP	21	43.61	567kmX		
			epP	20	53.61	567kmX				epPd	21	34.95	573kmX				esP	22	46.21				
			S	27	36.23		MCO	77.09	298	eP	19	36.70	0.6	MEMM	78.80	44	ePc	19	45.67	0.9			
SAP	70.73	330	sS	31	01.96		FOX	77.20	40	iPc	19	37.08	0.8				pP	21	45.61	562kmX			
ASAJ	70.94	332	eP	19	01.00	1.1				ipP	21	37.13	566kmX				e	22	01.15				
TATO	71.97	305	P	19	01.50	0.4	EKR	77.21	40	iPc	19	36.71	0.4	LBFM	78.97	40	ePd	19	45.79	-0.1			
			iPd	19	06.44	-1.0				ipPd	21	37.02	568kmX				epPc	21	46.07	564kmX			
			ipPd	21	02.65	556kmX	ARC	77.36	39	ePc	19	36.99	-0.1	QIZ	79.00	294	iPd	19	46.83	0.6			
			isPc	22	03.24				ipP	21	37.29	568kmX			1.2s	400.00nm	5.7mb	ipPd	21	45.35	553kmX		
LEM	72.29	268	ePd	19	09.20	-0.6			esP	23	04.34						iS	22	45.27				
Z	24s	11.63um	6.1mszX				FHC	77.37	40	iPc	19	37.92	0.7				iS	29	02.56				
			eS	27	50.50		PAS	77.45	48	Pc	19	38.32	0.5	GSC	79.01	47	iPc	19	45.43	-0.7			
SPA	72.33	180	iPc	19	09.40	0.2			iS	28	42.16						ipPc	21	45.28	561kmX			
	0.7s	597.66nm	6.2mb				NJ2	77.52	310	Pc	19	38.00	-0.2				isPd	22	44.21				
YSS	73.17	334	iPd	19	13.74	-0.1			0.8s	300.00nm	5.8mb						iS	29	00.25				
			ePcP	19	46.51					ipP	21	36.00	553kmX				(SKS)	29	26.57				
			ipPd	21	09.94	553kmX				isP	22	35.00					eS	29	35.51				
			isPc	22	07.88					iS	28	44.00					isS	32	38.30				
QZH	74.24	303	iPd	19	20.50	0.1	GZH	77.68	299	iPc	19	40.00	0.8				eSS	34	15.42				
	0.8s	720.00nm	6.2mb						0.8s	530.00nm	6.0mb			KGM	79.03	276	ePc	19	46.40	-0.1			
			pP	21	19.00	564kmX				pP	21	38.00	553kmX			0.9s	714.60nm	6.1mb					
			sP	22	18.00					sP	22	38.00					e	19	54.00	24kmX			
			iS	28	09.00					S	28	48.00		DL2	79.20	317	iPd	19	47.00	0.2			
SDN	74.48	11	eP	19	19.06	-2.0	SSK	77.82	48	eP	19	39.32	-0.7			0.8s	620.00nm	6.1mb	sP	22	46.00		
	1.5s	1721.36nm	6.3mb							epPd	21	39.77	567kmX				S	29	00.00				
			epP	21	17.54	563kmX	MDJ	77.83	325	iPd	19	40.10	0.5				eP	19	47.24	-0.4			
SSE	75.32	310	iPd	19	25.78	-0.4			1.0s	720.00nm	6.1mb			GLA	79.30	50	epP	21	46.46	557kmX			
	1.0s	440.00nm	5.9mb							ipPd	21	36.30	542kmX				ePc	19	47.64	-0.6			
			ipPd	21	22.64	551kmX				isPc	22	36.89		BONR	79.38	44	ePc	19	48.91	569kmX			
			isPc	22	20.91					iS	28	50.74					epP	21	48.91	569kmX			
			iS	28	20.00					(SKS)	29	12.59		RNO	79.39	37	P	19	48.82	0.9			
GCC	76.42	44	iPc	19	32.28	0.2				isSKS	31	51.17		SNY	79.61	320	iPc	19	50.00	1.1			
			ipP	21	31.91	566kmX				iS	32	23.27			2.0s	1610.00nm	6.1mb	pP	21	48.00	549kmX		
PCC	76.44	43	iPc	19	32.25	0.1	FRI	77.92	45	iPc	19	40.19	0.0				sP	22	48.00				
			ipP	21	32.01	566kmX				ipP	21	40.60	567kmX				iS	29	08.00				
PCC	76.44	43	iPc	19	34.85	2.7	PLM	77.98	49	eP	19	40.52	-0.3				iS	29	08.00				
			ipP	21	34.65	567kmX				ipP	21	40.88	566kmX	CN2	79.65	323	iPd	19	49.00	-0.1			
			esP	22	54.75		PEC	78.04	48	eP	19	40.20	-0.8			1.0s	590.00nm	6.0mb	epP	21	48.00	555kmX	
PRS	76.44	44	iPc	19	32.81	0.5			0.7s	179.05nm	5.6mb						esP	22	46.00				
			ipP	21	32.34	565kmX				epPd	21	40.65	567kmX				S	29	08.00				
STAN	76.52	43	iPc	19	32.95	0.3	ISA	78.04	46	eP	19	39.86	-1.1				eS	32	37.70				
			ipP	21	32.70	566kmX			1.5s	1660.66nm	6.2mb						SS	34	36.00				
SAO	76.63	44	eP	19	33.32	0.0				epP	21	41.46	574kmX				ePc	19	51.74	0.6			
	1.3s	1084.91nm	6.1mb				CMB	78.04	43	ePc	19	39.67	-1.3	COR	80.05	37	ipPc	21	51.25	557kmX			
			epP	21	33.21	567kmX			1.1s	400.00nm	5.8mb						isPd	22	50.52				
			sP	22	33.43					i	20	29.68					eS	29	10.73				
			e	25	23.47					ipPd	21	40.77	571kmX				i	32	08.18				
			S	28	36.44					isPc	22	47.68					iS	32	48.64				
			SP	29	20.67					IPKKPd	25	30.68		KVN	80.10	44	ePd	19	51.79	0.0			
			esS	30	44.90					iS	28	53.68					epP	21	51.63	559kmX			
HKC	76.66	299	eP	19	34.00	0.3				e	30	08.68		TNP	80.17	45	eP	19	50.61	-1.6			
			eS	28	47.00					epSKS	31	49.68					epPc	21	52.40	570kmX			
BCH	76.68	46	eP	19	33.78	0.1				esS	32	31.68		WHN	80.18	306	iPd	19	52.50	0.4			
			ipP	21	32.71	561kmX				i	33	12.68			1.5s	1430.00nm	6.2mb	pP	21	52.00	556kmX		
			e	21	56.04					iSS	34	07.68					sP	22	51.00				
BKS	76.75	43	ePc	19	34.09	0.2				e	37	27.68					iS	29	15.00				
	1.3s	910.00nm	6.0mb							IPKKPd	37	57.68					TPNV	80.24	46	ePc	19	52.15	-0.4
			ipPd	21	34.09	567kmX				eSKKPd	40	54.68						ipPc	21	51.34	554kmX		
			isPd	22	34.09					eP'P'c	46	57.68						isPd	22	51.93			
			iS	28	40.09					e	49	31.68						P	19	53.98	0.0		
			ePKKP	29	25.09					iPc	19	41.12	-0.1	WDC	78.13	40	iPc	19	52.94	-1.9			
			ipSKS	31	28.09					1.7s	1559.15nm	6.2mb					Z	20s	3.60um	6.7msz			
			iS	31	54.09					Z	20s	3.60um	6.7msz										
			i	32	21.09																		

16d 14h

			e	20	51.80		WTV	83.76	36	P	20	09.28	-0.7			pP	22	27.00	557kmX			
			epP	21	54.65	568kmX	AIA	83.78	157	eP	20	12.30	2.6			sP	23	21.00				
			ePcP	22	02.63		BALM	83.82	17	eP	20	07.11	-2.9			SKS	30	00.00				
SVW	80.80	11	ePc	19	53.47	-1.3									sS	33	57.00					
	0.9s	181.80nm					MSU	83.82	46	ePc	20	10.36	-0.3		IIA	86.89	69	(P)	20	25.00	-0.5	
			epP	21	53.72	560kmX								PPM	86.89	69	(P)	20	28.00	1.8		
			ePcP	22	00.58		MAW	83.84	200	P	20	10.50	0.5		HBM	87.04	40	eP	20	25.31	-0.8	
TIA	80.84	313	P	19	56.10	0.6										e	22	28.90	567kmX			
	1.6s	790.00nm					Z	12s	293.33nm				5.9mb		TPMT	87.11	41	eP	20	26.40	-0.1	
			pP	21	56.60	561kmX	ENH	83.84	304	iPd	20	11.25	0.6		BGMT	87.12	41	ePd	20	24.90	-1.5	
			sP	22	55.00											i	22	29.10	571kmX			
			S	29	21.30										LRM	87.15	40	eP	20	26.29	-0.3	
KLM	80.95	276	eP	19	58.00	1.5									BUT	87.18	40	eP	20	26.53	-0.1	
ONR	81.18	35	P	19	57.97	1.0										e	22	29.70	565kmX			
BMW	81.24	35	eP	19	56.89	-0.4									KMI	87.39	297	iPd	20	29.16	1.1	
			epP	21	59.08	570kmX										1.8s	2200.00nm				6.6mb	
			e	22	27.02												PcP	20	32.80			
			ePP	23	10.22												ipPd	22	31.99	562kmX		
VBEM	81.32	37	P	19	57.45	-0.4	SAW	84.07	36	P	20	10.85	-0.6				esPc	23	30.26			
SLKM	81.37	14	eP	19	55.10	-2.6	DUG	84.19	45	eP	20	11.72	-0.6				iSKS	30	03.77			
			epP	21	58.66	578kmX											iS	30	26.39			
VIPM	81.56	38	P	19	58.81	-0.4									LCCM	87.51	40	eP	20	27.50	-0.7	
CP2	81.61	13	eP	19	56.88	-2.2											i	22	32.20	573kmX		
			epP	21	59.92	575kmX									BW06	87.56	44	eP	20	26.74	-1.8	
			eS	29	23.82												0.7s	99.24nm			5.7mb	
SHW	81.62	36	eP	19	59.31	-0.1											pP	22	31.29	572kmX		
			epP	22	01.62	570kmX											sP	24	00.28			
CROR	81.62	37	P	19	58.90	-0.4									BTO	87.82	314	iPd	20	30.50	0.9	
MZX	81.63	62	(P)	20	00.50	0.8											1.0s	140.00nm			5.7mb	
CRP	81.63	13	eP	19	55.66	-3.5X	AGX	84.65	65	(P)	20	17.50	2.8				sP	23	31.00			
			pP	21	59.24	578kmX	DPW	84.84	36	ePc	20	13.94	-1.3		OXX	87.94	71	(P)	20	33.00	2.3	
ASR	81.95	36	P	20	00.90	-0.1									HRV	87.96	39	eP	20	29.30	-0.8	
TUC	81.96	53	iPc	20	02.09	0.7	MRX	84.84	68	(P)	20	17.50	1.9				e	22	34.30	574kmX		
	1.5s	1533.14nm					TIY	84.86	312	eP	20	15.00	-0.5		MEMT	87.96	41	eP	20	29.58	-0.7	
	Z	20s	3.91um			5.8Msz									IISM	87.98	69	(P)	20	33.00	2.4	
			ipPc	22	01.27	551kmX									SXM	88.07	40	eP	20	31.00	0.2	
			isPd	23	01.20												e	22	35.40	570kmX		
			eS	29	34.19		HVU	84.98	43	ePc	20	15.40	-0.8		CHG	88.55	290	ePd	20	32.00	-0.5	
IPM	82.01	277	ePd	20	01.00	-0.8											1.0s	262.50nm			6.1mb	
	0.7s	430.00nm															eS	30	06.80			
STW	82.02	34	P	20	01.77	0.6	ACX	85.04	71	(P)	20	18.50	1.8		CHTO	88.55	290	iPd	20	34.09	0.8	
VGB	82.05	37	eP	20	00.35	-1.1	SRU	85.24	47	eP	20	17.12	-0.4				88.63	303	P	20	34.50	1.0
			epPc	22	02.84	570kmX									CD2			1.3s	510.00nm			6.3mb
GMW	82.13	35	eP	20	01.31	-0.4	DAU	85.34	45	ePc	20	17.37	-0.8				iSKS	30	09.60			
			ipP	22	03.47	568kmX	EMUT	85.36	46	eP	20	18.20	0.0				iS	30	39.00			
LON	82.18	36	iP	20	01.66	-0.4											sS	34	08.00			
			iS	29	28.22		ILT	85.43	0	iPd	20	18.00	0.6		GOL	89.09	48	iPd	20	35.94	0.2	
			esS	33	07.95												ipPd	22	37.11	550kmX		
FMW	82.37	36	P	20	03.17	0.0	EBI	85.47	38	eP	20	17.44	-1.0				isPc	23	36.70			
TTA	82.42	10	eP	20	01.57	-1.4	LOE	85.58	290	iPd	20	21.00	1.7		YAK	89.27	338	iPc+	20	34.80	-0.9	
	1.5s	406.22nm					NEW	85.66	36	eP	20	18.15	-1.0				1.5s	469.00nm				6.2mb
			epP	22	06.60	585kmX											Z	17s	3.90um			5.9MszX
			eS	29	30.56													i	22	36.00		
PGC	82.44	33	eP	20	03.00	-0.2												ipP	22	51.00	638kmX	
	1.3s	403.00nm																iPcP	23	39.00		
			pP	22	05.50	570kmX	IMA	85.72	10	iPc	20	18.24	-0.9				iPP	24	36.00			
JBO	82.56	37	P	20	03.69	-0.3												iPPP	25	48.00		
PMR	82.58	14	eP	20	01.59	-2.0	COL	85.78	13	eP	20	20.02	0.7				iS	30	08.00			
	1.4s	857.26nm					FBA	85.78	13	eP	20	17.17	-2.1				iPS	30	30.00			
	Z	20s	3.28um			5.7Msz											isS	30	44.00			
			epP	22	03.46	566kmX											eScS	32	50.00			
			S	29	34.36												iSS	34	09.00			
			i	33	04.33												iSSS	36	28.00			
ARUT	82.60	47	eP	20	04.78	0.3	XAN	85.84	308	iPd	20	21.11	0.8		PAF	89.60	218	iPd	20	41.00	3.4X	
			epPd	22	06.77	566kmX											iPP	24	03.00			
MCW	82.78	34	eP	20	04.32	-0.7											iS	30	27.00			
			ipPd	22	07.12	571kmX											eSS	35	25.00			
CGX	82.84	67	(P)	20	08.00	1.9									BRW	90.15	7	eP	20	38.33	-1.2	
SIT	82.92	22	eP	20	04.87	-0.6	III	85.90	69	(P)	20	22.00	0.9				pP	22	44.61	578kmX		
	1.2s	142.21nm					HIA	86.01	325	iPd	20	20.81	0.1				iPd	20	43.06	1.1		
	Z	19s	3.01um			5.7Msz											1.4s	970.00nm			6.6mb	
			epPd	22	07.86	572kmX											ipPd	22	46.55	562kmX		
JCW	82.97	34	P	20	05.65	-0.3	CRX	86.07	68	(P)	20	23.50	1.5				isPc	23	44.48			
SNG	83.22	280	eP	20	09.00	1.2	LTX	86.29	58	eP	20	22.25	-0.4				iSKS	30	19.96			
	1.0s	1482.00nm															iS	30	54.58			
			eS	29	36.00		ALO	86.35	52	P	20	30.00	7.0X				SS	37	10.00			
			e	45	28.00																	
KLU	83.26	15	eP	20	05.57	-1.6	ANMO	86.36	52	iPc	20	22.76	-0.2		NVL	91.37	184	iPd	20	44.00	-1.4	
			epP	22	08.11	568kmX											1.4s	389.00nm			6.2mb	
			eS	29	39.70												N	15s	5.00um			
			iS	29	46.07												E	15s	23.00um			
BJI	83.39	316	iPd	20	08.72	0.6												ePP	23	50.00		
	1.5s	1580.00nm																ePPP	25	30.00		
			ipPd	22	08.90	554kmX	MCMT	86.42	41	eP	20	21.60	-1.5				iS	30	52.00			
			isPc	23	08.16												eSS	36	52.00			
			iS	29	46.07												eSSS	40	15.00			
WAH2	83.45	37	P	20	08.20	-0.1	NST	86.44	288	eP	20	23.50	0.1									
LNOR	83.69	38	P	20	09.25	-0.4	UNM	86.48	69	(P)	20	25.00	1.1									
							HHC	86.87	315	Pc	20	25.20	0.0		RSSD							

Z	21s	1.17um	5.3Msz	LPA	103.28	134	ePdiff21	43.00	3.3X				i	28	55.70				
		eP	22	51.56	565kmX		eP	23	48.00		8LF	127.48	208	iPKPc	26	43.00	0.9		
INK	91.88	15 ePc	20	47.20	-0.3		SKS	31	28.00			0.8s	94.00nm						
	1.0s	60.00nm		5.6mb		YJA	103.67	119	ePdiff21	44.50	2.2		i	28	55.70				
SNA	92.11	179 iPc	20	48.70	0.0	GKN	103.72	295	Pdiff	21	41.80	-0.2	SEK	127.49	210	iPKPc	26	42.00	-0.2
	0.8s	640.00nm		6.7mb		ZOBO	103.86	112	ePdiff21	44.76	1.4		1.4s	300.00nm					
WMOK	92.12	54 ePc	20	48.67	-0.8			ePc	23	48.25			i	28	55.00				
	1.1s	84.85nm		5.7mb				eS	24	44.20		SDF	127.79	348	iPKP	26	38.30	-3.0X	
Z	20s	3.00um		5.7Msz				ePP	26	06.78			i	28	58.00				
MEO	92.29	54 iPd	20	49.50	-0.7			eHPP	26	07.44		BFT	128.45	214	iPKPc	26	45.00	0.9	
ACO	92.51	52 iPd	20	55.20	4.0X	GOGA	103.96	59	ePdiff21	42.33	-0.4		0.9s	25.00nm					
FND	93.36	54 iPd	20	55.20	0.1	Z	19s	2.55um		5.8Msz			i	28	53.60				
OCO	93.39	54 iPd	20	55.10	-0.2			pP+	23	47.39		PRY	128.73	211	iPKPd	26	45.00	0.4	
YKA	94.40	25 eP	20	58.50	-0.7			e	26	07.06			i	29	13.00				
	1.4s	73.70nm		5.7mb				PS	28	53.59		SLR	129.32	212	iPKPc	26	45.20	-0.5	
GTA	94.62	310 eP	21	00.00	-0.9	WMO	104.52	312	ePdiff21	44.60	-0.5		1.0s	430.00nm					
	1.0s	120.00nm		6.1mb				iPd	23	49.41		Z	22s	13.20um		6.6Msz			
Z	34s	15.80um		6.2MszX				eSPc	24	46.36			i	29	24.50				
E	16s	3.89um						ePP	26	06.78		POF	129.72	201	iPKPc	26	47.00	0.9	
		pP	23	05.00	568kmX			eHPP	26	07.11			0.7s	200.00nm					
		sP	24	02.00		CCH	105.16	114	ePKP	26	04.00	4.0X		i	29	06.00			
PEL	94.83	127 eP	21	03.50	1.4			e	26	19.20		KSR	129.90	211	iPKPc	26	45.00	-1.8	
UYO	95.31	56 iPc	21	03.50	-0.5	HY8	106.77	283	ePdiff21	56.00	0.4		1.0s	1360.00nm					
IRK	96.08	323 ePd-	21	06.00	-1.0	MCWV	107.95	53	PKP	26	10.00	5.8X		i	29	05.50			
	1.6s	46.00nm		5.5mb		Z	18s	2.67um		5.8Msz		KAF	132.32	344	ePKP	26	34.30	-15.7X	
Z	15s	2.44um		5.8MszX		CEH	107.96	57	PKP	26	10.00	5.7X	BUL	133.66	217	ePKP	26	53.20	-0.9
N	16s	1.22um				Z	20s	2.61um		5.8Msz			iSKP	29	31.80				
E	16s	0.64um				SDV	109.95	87	iPKPd	26	08.00	-0.9	OBN	133.98	332	ePKP	26	52.00	-1.4
		iP	23	11.00	568kmX			SIV	110.13	115	Pdiff	22	24.00	13.4X		1.0s	88.00nm		
		eSP	24	08.00		NDI	110.26	295	ePdiff22	14.00	3.1X	Z	26s	3.50um		6.0MszX			
		ePP	25	04.00		POO	111.38	283	ePKP	26	08.00	-3.3X	N	32s	1.10um				
		ePPP	26	42.00		JAO	111.89	39	ePKP	26	08.00	-3.2X	E	20s	2.20um				
		e	27	36.00				pP	26	57.00									
		e	28	11.00		RSNY	112.39	49	Pdiff+22	22.78	2.9								
		iSKS	30	49.00		Z	19s	1.62um		5.6Msz									
		iS	31	38.00				pPKP+	24	27.62									
		e	33	53.00				SKS	29	01.88									
		e	34	52.00		KSH	112.64	306	PKP	26	10.00	-3.3X		iPPP	32	32.00			
		e	35	22.00		CAR	113.89	86	iPdiff22	28.00	0.6			eSKS	33	20.00			
		e	36	37.00		HRV	114.45	51	Pdiffc22	31.57	2.5			eSKKS	35	20.00			
		eSS	38	10.00				ePP	27	18.07				iSP	38	42.00			
		LR	56	26.00				eHPP	27	18.65		NUR	134.11	344	ePKP	26	42.00	-11.5X	
MIAR	96.12	56 ePc	21	07.04	-0.6			iSKS	32	12.57				iSSS	52	26.00			
	0.9s	13.49nm		5.2mb				iSDIF	34	17.95				ePKP	26	42.00			
Z	21s	1.69um		5.5Msz				epSKS	35	14.69				iSKP	29	31.00			
		iPc	23	11.19	563kmX			iSP	36	10.42				e	30	28.00			
SHL	96.84	295 iPd	21	12.00	0.8	FRB	114.77	27	ePKP	26	16.50	0.1		e	32	36.00			
		iS	30	53.00			0.6s	4.00nm						e	33	36.00			
RTCV	97.02	126 ePc	21	13.00	1.1	PPD	115.19	126	ePKP	26	18.90	0.3	TAB	135.75	307	ePKP	26	46.00	-11.6X
CFA	97.36	126 e(P)	21	14.70	1.2			e	27	29.00				i	29	38.00			
NNA	97.56	105 ePDIFFc21	14	12	-0.5	CBM	116.89	46	ePKP	26	19.75	-1.3	KER	135.92	301	ePKP	26	56.00	-2.0
Z	20s	3.19um		5.8Msz		Z	21s	2.70um		5.8Msz			NB2	136.19	353	PKP	26	46.60	-10.9X
		ePc	23	19.93	574kmX			e	27	48.50				0.8s	12.00nm				
		eHPP	25	18.26		VAO	117.93	129	ePKP	26	23.70	-0.1	UPP	136.31	348	iPKP	26	45.20	-12.5X
		iPP	25	18.59				e	27	28.50				i	29	36.50			
OLY	98.05	55 ePc	21	15.00	-0.6	K8S	118.61	358	ePKP	26	24.20	0.8	HFS	136.74	351	ePKP	26	45.30	-13.2X
		pP	23	20.31	566kmX			e	27	27.00	1.5			0.5s	12.70nm				
LSA	98.59	298 iPd	21	20.67	1.2	LMN	119.24	47	ePKP	26	27.00		Z	19s	1.71um		5.8Msz		
		iPd	23	23.83	558kmX	DAG	120.11	5	ePKP	26	24.20	-2.1			LR	17	10.00		
		iSPc	24	23.42			0.4s	18.64nm					WIN	136.97	202	ePKP	26	49.00	-11.4X
		iPP	25	29.45		ABM	121.25	233	ePKP	26	30.70	0.3		1.5s	520.00nm				
		eHPP	25	30.27		BAO	121.30	122	ePKP	26	29.50	-0.9			i	29	42.00		
		iSKS	31	02.76				i	26	34.00				i	26	51.00	-10.7X		
		eHSKKS31	33	55				i	28	13.00				i	29	15.00			
		eSKKS	31	33.88		AVY	121.47	234	ePKP	26	32.20	1.4			i	30	55.20		
		iS	32	04.41		VTY	121.52	233	ePKP	26	31.00	0.2			e	29	41.32		
		epSKS	34	06.54		OPO	122.22	234	iPKPc	26	32.20	0.0	KONO	137.74	354	ePKP	26	50.15	-10.2X
		i	34	41.30		GRM	123.69	206	iPKPd	26	34.40	-0.1			e	27	00.00	-5.6X	
		SS	39	05.00		MAIO	125.64	302	ePKP	26	38.00	-0.3			ePKP	26	57.30	-7.3X	
CCM	98.92	53 ePDIFFc21	19	09	-1.1			e	28	38.00			NAI	140.10	245	iPKPd	27	00.20	-6.1X
		(pP)	23	23.24	564kmX			e	28	37.00	-0.2			1.0s	4404.00nm				
ULM	99.09	40 eP	21	22.50	1.9			e	32	52.00					iPP	29	50.20		
FVM	99.52	53 eP	21	22.24	-0.6	KEV	125.66	349	ePKP	26	37.00				iPPP	33	20.20		
	1.1s	65.92nm		6.0mb			0.8s	27.90nm						e	38	48.20			
ELC	100.27	54 ePdiff21	26	76	0.5			e	39	36.00				iPKKS	39	14.20			
		pP	23	31.45				e	48	16.00		KPL	140.18	6	ePKP	26	58.40	-6.4X	
MBC	100.31	12 ePdiff21	24	50	-1.0	CER	126.27	199	iPKPc	26	36.40	-3.1X	EDR	140.83	3	ePKP	26	59.80	-6.2X
	0.6s	6.00nm		5.2mb				e	39	36.00				1.3s	32.00nm				
CRZF	101.42	213 iPdiff21	33	00	1.8			e	28	39.00		EDU	141.17	4	ePKP	27	01.30	-5.3X	
		iPP	25	57.00				i	28	39.00			1.2s	47.00nm					
FSA	101.54	122 e(Pdiff21	35	20	3.0X			i	28	39.00									
FCC	102.35	32 ePdiff21	37	00	2.1	TRO	127.01	352	ePKP	26	39.50	-0.2	COP	141.20	350	iPKPc+27	03.00	-3.7X	
GUN	102.62	295 Pdiff	21	37.40	0.0	FRS	127.31	207	iPKPc	26	41.70	0.2		0.9s	100.84nm				
PKI	102.95	295 Pdiff	21	38.60	-0.3			i	27	10.00									
KKN	103.11	295 Pdiff	21	39.80	0.4														
DMN	103.22	295 Pdiff	21	40.00	0.0														

16d 14h

		i	29	25.00				e	32	48.00			e	27	26.70		
ELO	141.20	4 ePKP	27	52.00	-4.2X			e	47	37.00			e	27	31.50		
BSD	141.27	347 iPKPc	27	02.50	2.5			eSS	48	56.00			e	27	40.00		
	0.9s	112.00nm				MTUR	146.12	329 ePKPc	27	19.50	4.0X		e	27	48.60		
EAB	141.43	5 ePKP	27	03.20	-3.9X	FAM	146.13	307 ePKP	27	17.80	2.1		epPKP	29	34.70		
ESY	141.82	3 ePKP	27	03.20	-4.6X	LISJ	146.15	300 PKP	27	15.40	-0.3		e	29	40.20		
EAU	141.84	4 ePKP	27	03.10	-4.7X	VRAC	146.15	342 iPKPc	27	15.90	0.7		e	29	49.50		
EBL	141.94	4 ePKP	27	03.40	-4.6X		1.4s	1959.40nm					e	29	53.20		
KVT	142.13	315 iPKP	27	07.00	-1.8			e	27	17.80			e	29	57.90		
WAR	142.21	340 e(PKP)	27	05.00	-3.5X			e	29	28.20			e	30	55.00		
		e	29	14.00				e	37	52.70			e	30	59.90		
		e	30	00.00		MOX	146.15	348 iPKPc	27	15.70	0.4	GEC2	147.37	345 e(PKP)	27	27.90	10.5X
EKA	142.37	4 PKPd	27	04.20	-4.5X		1.8s	651.00nm					0.3s	3.20nm			
	0.5s	20.30nm						i	29	30.00		GEC2	147.37	345 e(PKP)	27	33.70	16.3X
AAE	142.44	262 PKP	27	08.50	-2.0			i	30	23.00			0.7s	24.60nm			
		PP	30	00.00		BUC	146.17	327 iPKPd	27	18.00	2.6	PVL	147.40	326 ePKP	27	18.00	0.6
GAZ	142.91	309 iPKP	27	07.00	-3.2X	WAJH	146.19	291 ePKPc	27	16.00	0.0	BZS	147.42	333 ePKPc	27	16.50	-0.9
BNN	143.23	312 iPKP	27	07.60	-3.3X	TNR	146.19	330 ePKPc	27	18.00	2.5	PPCY	147.43	308 ePKP	27	20.30	2.5
DMU	143.41	8 iPKPc	27	08.10	-2.4	EYL	146.24	318 ePKP	27	14.60	-1.3	TIM	147.50	333 iPKPd	27	24.00	6.5X
	1.0s	377.00nm				AYN	146.25	296 ePKP	27	16.00	0.0	KCT	147.55	319 ePKP	27	17.10	-0.7
KAS	143.49	317 iPKPd	27	08.80	-2.4	GPA	146.29	318 ePKP	27	15.20	-0.6	BCK	147.57	313 ePKP	27	17.20	-0.8
DCN	143.91	9 iPKPc	27	09.80	-1.6	DHLJ	146.32	299 PKP	27	16.10	0.0	SOP	147.60	340 ePKP	27	16.50	-1.1
	0.9s	528.00nm				SHWJ	146.35	298 PKP	27	15.40	-1.1	DOU	147.64	356 PKPc	27	19.80	2.2
DLF	144.05	8 iPKPc	27	10.30	-1.3	HRT	146.40	319 iPKP	27	17.60	1.6			i	27	21.50	
	1.0s	609.00nm				BNS	146.54	353 iPKPd	27	17.20	1.4			e	27	48.60	
BRNL	144.11	347 ePKP	27	11.00	-0.7		1.0s	390.00nm					e	29	34.30		
		epP	29	21.00				iP	27	18.30			e	29	37.70		
BIR	144.11	328 ePKP	27	15.00	3.0X			i	29	31.60			e	30	30.00		
BRN	144.15	347 ePKP	27	11.50	-0.3			i	30	23.00			i	31	05.00		
PPE	144.15	328 ePKP	27	10.00	-2.1	ISK	146.64	320 iPKP	27	17.60	1.3		e	49	28.00		
PTT	144.25	330 ePKP	27	10.00	-2.2	ITU	146.64	320 iPKPd	27	17.00	0.7	DOMF	147.65	357 PKP	27	18.77	1.1
OJC	144.34	339 ePKP	27	10.20	-2.1	DEV	146.65	332 iPKPc	27	20.00	3.8X	DST	147.75	318 iPKP	27	17.90	-0.3
		i	27	12.40		HSJH	146.65	297 PKP	27	18.70	1.8	BNT	147.75	320 iPKP	27	19.10	1.0
		i	27	14.70		CSS	146.66	307 ePKP	27	16.50	-0.1	UZD	147.85	337 ePKP	27	18.80	0.7
ETA	144.68	8 iPKPc	27	12.40	-0.3	YLV	146.73	319 ePKP	27	17.10	0.5	KHL	147.86	315 ePKP	27	18.00	-0.5
		e	38	04.00		SRO	146.91	339 ePKP	27	15.90	-0.6	WLF	147.94	354 PKP	27	19.00	0.9
UZH	144.74	335 iPKP	27	13.00	0.0			i	27	19.80				i	27	22.75	
VAL	144.75	12 iPKP	27	13.00	0.2			i	28	34.30				i	29	37.00	
	1.1s	6.00nm						i(pPKP	29	32.60				i	31	05.00	
KSP	144.86	343 iPKPd	27	12.00	-1.1	DRA	146.91	329 ePKPc	27	18.00	1.4	KMR	147.99	343 iPKP-	27	18.30	0.0
	1.3s	1037.00nm				BUD	146.93	338 ePKP	27	16.00	-0.6			i	27	23.90	
		id	27	13.20		SRFA	146.94	296 ePKPc	27	17.30	0.2			iP	29	35.40	
		i	29	27.00		UCC	146.96	356 PKP+	27	18.00	1.5	ELL	148.39	312 iPKP	27	19.10	-0.3
		i	30	01.40				e	29	29.00		LANF	148.41	352 PKP	27	19.37	0.5
ANTO	144.88	315 ePKP	27	22.51	8.9X			e	30	29.00		HOFF	148.43	351 PKP	27	20.13	1.3
ECB	144.93	8 iPKPc	27	13.20	0.1	DMK	146.96	322 iPKP	27	16.10	-0.7	PGB	148.48	326 ePKP	27	20.00	0.7
	1.2s	1530.00nm				CTT	146.97	321 iPKP	27	18.60	1.7	ALN	148.54	322 ePKP	27	18.80	-0.5
		e	38	03.00		ZST	146.98	340 ePKP	27	17.20	0.6	FUR	148.58	347 ePKP	27	19.40	0.2
SPC	145.06	338 ePKP	27	13.90	0.1			epPKP	29	31.10		BHG	148.62	345 ePKP	27	19.40	0.1
		i	27	17.00		HQL	146.98	297 iPKPc	27	17.00	-0.2	RDO	148.68	323 ePKP	27	24.50	5.0X
		iP	29	32.10		MEM	147.02	354 iPKPc	27	18.47	1.9	RZN	148.78	325 iPKPc	27	19.00	-0.9
CLL	145.24	347 iPKP	27	12.70	-1.0		0.9s	106.00nm			VTS	148.95	327 iPKPc	27	19.00	-1.1	
	0.7s	16.00nm				ALT	147.08	316 iPKP	27	16.70	-0.5	CDF	149.04	352 PKP	27	20.28	0.3
CLL	145.24	347 iPKP	27	14.80	1.1	SAGI	147.09	298 ePKP	27	17.60	0.2	FLN	149.07	2 ePKP	27	20.20	0.3
	1.9s	1400.00nm				TNS	147.10	351 ePKPc	27	19.90	3.0X	KBA	149.10	344 ePKP	27	19.00	-1.2
		pPKP	29	24.00				epP'd	29	33.60			0.5s	82.90nm			
HCG	145.32	5 ePKP	27	14.30	0.4	KHC	147.14	345 PKPc	27	17.50	0.6			i	27	22.80	
HRI	145.36	303 ePKP	27	14.80	0.1		1.5s	419.50nm					i	27	25.40		
CEI	145.43	334 ePKP	27	18.00	3.9X			e	27	21.40			i	29	38.50		
BRG	145.43	346 iPKP	27	13.10	-1.0			e	27	33.90			i	29	46.00		
	1.4s	700.00nm						e	27	58.60			i	31	00.10		
		i	27	14.80				e	29	28.00			i	31	14.50		
		id	27	17.00				e	29	33.70			i	33	01.10		
		i	27	46.60				e	30	20.00							
ISR	145.44	328 ePKPd	27	16.00	1.7			e	31	09.50		CIN	149.20	315 ePKP	27	21.00	0.6
MLR	145.50	329 ePKPd	27	13.50	-1.0			e	52	40.00		ECH	149.25	352 PKP	27	20.28	0.1
SHMJ	145.50	302 PKP	27	15.40	0.6	GRF	147.14	348 ePKPd	27	17.10	0.2	LDF	149.25	2 ePKP	27	20.30	0.1
PSN	145.54	324 iPKPc	27	15.00	0.6		Z	20s	0.80um	5.5Msz		LIBD	149.25	352 PKP	27	20.90	0.7
WTS	145.56	354 ePKP	27	15.00	0.8			id	27	21.20		WATA	149.30	346 ePKP	27	20.00	-0.5
	0.8s	382.60nm						epPKPd	29	30.40				i	27	24.60	
		epPKP	29	34.00		GRFO	147.14	348 ePKP	27	14.81	-2.1			i	27	25.90	
HTR	145.60	5 ePKP	27	15.10	0.8	VKA	147.16	341 iPKPc	27	17.40	0.5			i	29	40.40	
DBN	145.60	356 ePKP-	27	15.00	0.8		9.5s	6381.00nm				IZM	149.31	317 ePKP	27	20.00	-0.6
		epPKP	29	27.00				i	27	20.40		YER	149.32	314 iPKP	27	26.00	5.3X
		ePPP	34	06.00				iP	29	31.20		WTTA	149.35	346 ePKP	27	20.00	-0.6
		eSS	52	10.00				i	30	23.60			1.5s	398.00nm			
HAE	145.69	4 ePKP	27	15.40	1.0	JMB	147.22	324 iPKPc	27	17.00	-0.2			i	27	25.10	
SALJ	145.77	301 PKP	27	15.20	-0.1	SNF	147.25	356 iPKPc	27	19.68	2.7			i	27	26.10	
MASJ	145.82	301 PKP	27	15.40	0.0	CPZ	147.25	8 ePKP	27	19.00	2.0	PTJ	149.37	339 ePKP	27	14.70	-5.9X
JVI	146.07	301 ePKP	27	16.50	0.7		1.3s	85.00nm			VITF	149.38	354 PKP	27	20.75	0.3	
HGH	146.07	4 ePKP	27	16.40	1.4	CME	147.28	8 ePKP	27	20.90	3.9X	MOTA	149.39	347 ePKP	27	20.00	-0.6
CMP	146.10	329 ePKPc	27	17.00	1.6	WET	147.30	346 iPKPc	27	17.60	0.4		1.5s	291.00nm			
PRU	146.11	344 PKPc	27	15.90	0.7	GEC2	147.37	345 ePKPd	27	18.20	0.8			i	27	24.90	
	1.0s	339.70nm					0.6s	113.24nm						i	27	26.20	
		e	29	30.40				ePKPbc	27	20.50				i	29	40.60	
		e	30	25.00				e	27	22.60		GRR	149.43	3 ePKP	27	21.00	0.6

PRK	149.43	320	ePKP	27	25.20	4.5X	AVF	151.01	357	ePKP	27	23.20	0.4	ESEL	158.03	356	ePKP	27	33.14	0.8
FEL	149.46	351	PKP	27	20.75	0.1	TMA	151.03	349	ePKPd	27	23.00	-0.2	ECHE	158.19	4	ePKP	27	33.22	0.6
SQTA	149.49	346	ePKP	27	20.00	-0.7	LIT	151.09	325	ePKP	27	22.56	-0.7	BCAO	158.41	234	iPKPc	27	32.00	-1.6
	1.8s	540.00nm					SMF	151.13	356	ePKP	27	23.50	0.4		0.8s	144.00nm				
		i		27	25.20		SAL	151.17	346	PKP	27	23.30	0.2			id		28	12.80	
		i		27	26.60		MDI	151.18	347	PKP	27	24.70	1.6			id		31	53.90	
		i		29	41.00		FNA	151.20	327	ePKP	27	26.68	3.3X	EVIA	158.97	8	iPKPc	27	35.67	2.1
		i		29	50.70		MFF	151.24	2	ePKP	27	23.70	0.5	EVAL	159.09	18	iPKPd	27	34.04	0.4
SLE	149.49	350	ePKPc	27	20.70	0.1		0.8s	29.80nm					EHOR	159.26	14	ePKP	27	35.79	2.0
KKB	149.53	327	iPKPc	27	20.00	-0.8	MMK	151.24	350	ePKPc	27	24.50	0.9	TBT	159.43	55	iPKPc	27	36.24	2.0
HAU	149.55	353	ePKP	27	21.00	0.3	OHR	151.26	328	iPKP	27	23.30	-0.2	ELUO	159.73	12	ePKP	27	35.84	1.5
MOF	149.61	352	PKP	27	20.90	0.0		1.5s	120.00nm				EPRU	160.08	15	iPKPd	27	36.95	2.2	
RBL	149.62	343	PKP	27	20.40	-0.5			i		27	29.30		ECOG	160.14	11	ePKP	27	35.31	0.4
BSF	149.67	352	PKP	27	21.13	0.2	BGF	151.27	358	ePKP	27	24.00	0.7	MAL	160.50	13	ePKP	27	36.00	0.9
FVI	149.69	344	PKP	27	20.60	-0.2	VAI	151.28	349	PKP	27	23.30	0.1			i		28	21.00	
LJU	149.70	341	ePKP	27	20.00	-0.9	BDV	151.29	332	iPKPc	27	23.27	-0.2	EJIF	160.50	16	ePKP	27	36.99	1.9
LJU	149.70	341	ePKP	27	26.00	5.1X	DIX	151.30	351	ePKPc	27	25.00	1.3	EGUA	160.57	11	ePKP	27	34.76	-0.4
		ePKP	29	39.50			HCY	151.30	333	iPKPc	27	23.17	-0.3	CPS	161.10	17	ePKP	27	40.00	4.3X
		e(SKKS41		18.00			KZN	151.34	326	ePKP	27	29.70	6.0X	TSY	161.37	18	ePKP	27	40.00	4.0X
LPF	149.77	3	ePKP	27	21.50	0.6	ULC	151.35	331	iPKPc	27	23.47	-0.1	RSA	161.87	19	ePKP	27	40.50	4.0X
ZLA	149.78	350	ePKPc	27	21.50	0.4	EMS	151.38	352	ePKPc	27	24.70	1.0	MBO	162.29	98	ePKP	27	40.20	2.8
SRS	149.78	325	ePKP	27	25.28	4.1X	HVAR	151.55	336	iPKP	27	28.60	4.9X	AVE	162.74	25	iPKP	27	39.50	2.1
OGA	149.86	346	iPKPc	27	22.20	0.8	TCF	151.56	358	ePKP	27	24.30	0.6			i		28	29.50	
VOY	149.90	342	iPKP	27	21.40	0.0	LSF	151.61	359	ePKP	27	24.00	0.2	OUK	164.33	30	ePKP	27	43.00	4.0X
		ePKPbc27		25.70				0.7s	18.30nm				TIO	164.85	29	iPKP	27	41.00	1.3	
		ePKPob27		27.00			MAF	151.61	358	ePKP	27	24.70	0.9			i		28	39.90	
		epP'df29		35.20			ORO	151.65	350	PKP	27	25.40	1.4	LIC	167.03	152	PKP	27	41.70	0.0
BBS	149.93	351	PKP	27	21.58	0.3	ATH	151.79	320	ePKP	27	29.00	4.8X	KIC	167.28	152	PKP	27	42.00	0.2
VBY	149.95	340	iPKP	27	21.90	0.6	AGG	151.92	323	ePKP	27	24.00	-0.5	TIC	167.41	151	PKP	27	42.00	0.1
		iPKPbc27		28.00			LPL	151.95	352	ePKP	27	25.40	0.8	LKO	169.53	141	PKP	27	43.32	0.1
		iPKPab27		33.00				0.8s	10.75nm						S.D. = 1.1	on 585 of 666 obs.				
		ipP'df29		31.50			LPG	151.97	352	ePKP	27	25.70	1.0							
CEY	150.00	341	ePKP	27	20.50	-0.9		0.9s	15.40nm					APR	16, 1993	14h	21m	54.07±3.14s		
CEY	150.00	341	iPKP	27	26.50	5.1X	BOB	152.20	347	PKP	27	25.00	0.2					3.284 N ±37.2km	127.701 E ±13.0km	
		epPKP	29	42.00			RSM	152.24	342	PKP	27	25.80	1.1					DEPTH = 161.9 ± 11.5 km		
OUR	150.10	323	iPKP	27	26.24	4.6X	BNI	152.41	352	PKP	27	26.40	1.3					4.8mb (3 obs.)		
SOH	150.12	325	ePKP	27	26.20	4.4X	SFI	152.41	343	PKP	27	25.80	0.9	TALAUD ISLANDS, INDONESIA				(263)		
KNT	150.13	326	ePKP	27	21.20	-0.5	SSB	152.43	355	PKP	27	25.53	0.5	MNI	3.39	237	ePd	22	47.40	0.0
VAY	150.19	326	iPKP	27	21.00	-0.8	SSB	152.43	355	PKP	27	25.93	0.9			eS		23	34.70	
	1.0s	283.00nm					ARV	152.48	341	PKP	27	25.70	0.6	SWI	5.44	139	iPc	23	14.50	0.2
		i		27	27.40		PGD	152.49	343	PKP	27	25.95	0.6			iS		24	18.50	
PLE	150.20	333	iPKPc	27	22.33	0.4	RJF	152.55	359	ePKP	27	25.70	0.6	MTN	16.38	168	eP	25	36.00	-0.3
OSS	150.23	347	ePKPd	27	21.30	-0.6		0.8s	30.90nm				WB2	23.99	164	iPc	26	55.60	0.4	
TRI	150.23	342	ePKP	27	22.10	0.4	BDI	152.61	345	PKP	27	25.60	0.3		0.3s	65.80nm			5.7mb X	
		e		29	36.00		CRE	152.66	343	PKP	27	25.30	-0.2	ASPA	27.46	168	iPc	27	26.60	-0.4
		e		30	36.00		IGT	152.66	326	ePKP	27	32.20	6.7X		0.6s	48.50nm			5.4mb X	
		e		31	24.00		FIR	152.71	344	ePKP	27	26.00	0.7	WAR8	29.31	182	eP	27	44.00	0.5
		e		34	00.00		CKI	152.76	349	PKP	27	22.90	-2.5	CTA	29.52	143	eP	27	48.00	2.6X
		e		35	28.00		KEK	152.81	327	ePKP	27	32.00	6.4X	RMQ	35.93	147	iPc	28	48.80	8.1X
		e		47	56.00		DOI	152.87	350	PKP	27	32.10	6.4X		0.3s	7.00nm			4.8mb	
		e		53	12.00		LFF	152.92	1	ePKP	27	26.50	0.9	STK	37.38	160	eP	28	52.50	-0.3
LLS	150.27	349	ePKPc	27	22.20	0.2	CAF	152.92	359	ePKP	27	26.50	0.8		0.5s	20.90nm			5.1mb X	
SKO	150.30	329	iPKPc	27	21.00	-1.0	SURF	152.95	351	PKP	27	27.15	1.2	ARMA	40.57	147	eP	29	18.80	-0.5
	1.0s	283.00nm					ASS	152.96	341	PKP	27	26.50	0.7		0.6s	13.00nm			4.7mb	
		i		27	27.40		VLI	153.06	319	ePKP	27	33.00	6.9X	BWA	42.28	154	iPd	29	34.10	0.9
SKO	150.30	329	iPKPc	27	21.00	-0.4	BRT	153.14	332	PKP	27	27.43	1.3	BFD	42.56	162	eP	29	35.40	0.0
	1.7s	124.00nm					LPO	153.18	360	ePKP	27	26.70	0.7		0.8s	28.00nm			4.9mb	
Z	20s	2.29um			6.0Msz		SAOF	153.32	350	PKP	27	26.52	0.3	CAN	43.29	154	eP	29	41.00	-0.4
		i		27	28.60		AUTN	153.33	350	PKP	27	27.08	0.5	TOO	43.88	159	iPd	29	37.50	-8.6X
		i		29	35.00		AQU	153.36	339	PKP	27	27.39	1.0		0.9s	38.00nm			5.0mb X	
		i		29	43.60		SBF	153.46	350	PKP	27	26.04	-0.5			i		29	47.00	
		i		30	38.50		VLS	153.49	324	ePKP	27	36.00	9.4X			S.D. = 0.5	on 11 of 14 obs.			
		i		32	09.50		DUI	153.60	337	PKP	27	27.00	0.2							
		i		33	06.50		STS	153.65	16	iPKPd	27	26.31	-0.4							
		i		33	56.00		CALN	153.65	351	PKP	27	26.97	0.1							
		i		37	26.00		SDI	153.80	338	PKP	27	27.60	0.6							
		i		41	14.50		ORI	154.14	332	PKP	27	27.70	0.3							
		i		45	25.00		SGO	154.22	335	PKP	27	27.30	-0.2							
IVA	150.34	331	iPKPc	27	22.52	0.4	EZAM	154.30	17	ePKP	27	27.93	0.3							
VVI	150.35	344	PKP	27	22.40	0.5	PGF	154.42	346	PKP	27	25.71	-2.2	LEEWARD ISLANDS					(92)	
RIY	150.37	341	iPKPc	27	22.00	0.1	MGR	154.47	334	PKP	27	27.30	-0.6							
		i		29	41.50		MMN	154.48	333	PKP	27	24.50	-3.3X	SFG	0.96	296	ePd	24	47.98	-0.6
THE	150.46	325	ePKP	27	27.56	5.4X	ROI	154.49	331	PKP	27	28.60	0.6			S		25	02.30	
CTI	150.49	345	PKP	27	22.40	0.1	TDS	154.52	332	PKP	27	28.30	0.3	MGG	0.99	275	ePd	24	48.69	-0.2
LOR	150.51	356	ePKP	27	22.60	0.5	EPF	154.82	1	ePKP	27	29.40	1.1	DPMT	1.19	242	eP	24	52.50	0.1
	0.6s	15.80nm					ECRI	155.06	6	iPKPd	27	27.60	-1.1			eS		25	12.00	
PVY	150.52	331	iPKPc	27	22.68	0.2	GR1	155.16	331	PKP	27	29.54	0.6	CRM	1.22	209	iPd	24	53.48	0.5
GRG	150.54	326	ePKP	27	21.92	-0.5	EGRA	155.63	3	ePKP	27	27.75	-1.6			S		25	09.50	
PAIG																				

16d 14h

SPA	1.93	309	eS	25	27.73	
MGH	2.05	296	eP	25	04.13	0.7
SLB	2.12	200	eP	25	05.78	-0.3
			eS	25	31.48	-0.4
NEV	2.54	301	eP	25	11.55	-0.6
SOA	2.57	199	eP	25	12.87	0.2
SVV	2.65	200	eP	25	13.84	0.1
			eS	25	45.87	
SVB	2.70	200	eP	25	13.98	-0.6
FCV	2.81	199	eP	25	15.34	-0.7
			eS	25	50.75	
TRN	5.26	192	eP	25	54.00	3.2X
			eS	26	26.00	
TCE	5.29	196	eP	25	51.13	-0.1
YKA	59.95	334	eP	34	43.40	4.7X
	0.9s			1.60nm		4.1mb
	S.D. = 0.7			on 20 of 22 obs.		

& APR 16, 1993 14h 35m 22.51s
 34.004 N 116.321 W
 DEPTH = 5.6km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.1 (PAS), 3.0 (GS).
 Felt (III) at Palm Springs. Also
 felt at White Water.

PEC	0.71	261	iPc	35	35.47	-1.2
			S	35	44.04	
PLM	0.79	215	ePd	35	37.22	-1.2
			S	35	46.30	
SSK	1.16	281	ePc	35	43.52	-1.2
			S	35	59.62	
GSC	1.35	343	eP	35	46.41	-1.6
GLA	1.57	127	ePhd	35	48.55	-2.5
			ePg	35	51.40	
8CH	3.32	292	(P)	36	14.03	-2.2
BONR	4.26	338	(P)	36	28.43	-1.2
ARUT	4.44	31	(P)	36	38.20	6.0
	8 obs.					associated

% APR 16, 1993 14h 46m 13.75±0.57s
 26.385 S ± 4.9km 27.357 E ± 5.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.0 (PRE).

PRY	0.55	169	eP	46	24.00	-0.8
			S	46	30.50	
KSR	0.66	321	eP	46	26.70	-0.3
			S	46	34.50	
BFS	0.72	225	eP	46	28.30	0.1
			S	46	36.90	
SLR	1.05	52	eP	46	34.50	0.3
			S	46	48.50	
SEK	1.95	173	eP	46	48.40	0.5
			S	47	11.50	
SWZ	1.98	246	eP	46	48.50	0.1
			S	47	11.90	
BFT	2.52	75	eP	46	56.00	-0.2
BLF	2.90	201	eP	47	02.00	0.4
			S	47	35.00	
FRS	3.80	208	eP	47	21.00	6.7X
			S	47	53.00	
	S.D. = 0.5			on 8 of 9 obs.		

& APR 16, 1993 14h 47m 27.65s
 38.840 N 122.814 W
 DEPTH = 2.8km
 NORTHERN CALIFORNIA (36)
 <GM-P>. MD 2.9 (GM).

NTYM	0.47	165	ePd	47	37.27	0.3
ORV	1.25	55	eP	47	50.79	-0.7
ARN	1.80	145	eP	47	58.83	-1.0
CMB	2.07	112	eP	48	01.90	-1.9
FHC	2.16	336	(P)	48	11.77	6.7
MEMM	3.27	110	eP	48	22.38	1.6
KVN	3.68	85	(P)	48	26.06	-0.9
	7 obs.					associated

APR 16, 1993 15h 12m 28.25±0.24s
 1.667 S ± 3.4km 135.434 E ± 5.5km
 DEPTH = 30.1km (4 depth phases)
 5.2mb (35 obs.)
 IRIAN JAYA REGION, INDONESIA (196)

SWI	4.25	281	ePd	13	32.50	0.0
			iS	14	43.00	
TLE	4.77	214	ePd	13	44.80	4.9X
AAI	7.50	254	eP	14	18.00	-0.4
MNI	11.03	286	eP	15	09.50	2.3
MTN	11.90	201	eP	15	17.30	-1.6
	0.4s			200.00nm		6.7mb X
			e	15	35.00	
			eS	17	25.00	
DAV	13.13	312	eP	15	39.00	3.6X
CTB	14.26	308	ePc	16	03.00	12.8X
KNA	15.46	205	eP	16	04.50	-1.4
MKS	16.32	257	ePc	16	24.00	7.1X
PLP	16.45	321	ePd	16	18.50	-0.1
WB2	18.20	183	iPd	16	37.60	-2.9
	0.6s			39.20nm		4.7mb
			iS	19	50.50	
WRA	18.20	183	P	16	38.00	-2.5
KKM	20.66	292	ePd	17	09.00	0.5
	1.3s			178.90nm		5.3mb
PGP	20.82	317	iPc	17	11.00	1.0
KKH	20.83	251	ePc	17	08.70	-1.3
			e	19	43.50	
CTA	21.14	151	P	17	15.39	2.1
CTA	21.14	151	iPc	17	12.00	-1.3
	0.5s			10.56nm		4.5mb
			i	17	19.00	26km
			e(S)	21	18.00	

ASPA	21.92	184	iPd	17	21.60	0.5
	1.0s			272.20nm		5.6mb
			eS	21	21.00	
BCP	23.18	321	eP	17	37.20	3.5X
BAG	23.19	321	eP	17	34.00	0.2
	2.0s			470.59nm		5.7mb
CVP	23.46	326	eP	17	37.00	0.8
WARB	25.80	198	eP	17	59.00	0.4
QLP	26.18	162	iPc	18	02.90	0.9
RMQ	27.80	154	eP	18	19.30	2.4
LEM	28.20	259	iPd	18	27.00	6.2X
NANU	28.38	221	eP	18	22.00	-0.1
	0.6s			23.00nm		5.1mb
FORT	29.79	193	iPc	18	35.00	0.3
	0.9s			69.00nm		5.4mb
BRS	30.50	149	iPc	18	42.00	0.9
			i	18	49.00	24km
STK	30.61	170	iPc	18	41.10	-0.9
	0.7s			8.30nm		4.7mb
CMS	31.24	163	iPc	18	47.40	-0.1
COOL	32.05	204	eP	18	54.40	-0.3
OIZ	32.49	310	eP	18	58.40	-0.2
MRWA	33.07	212	eP	19	03.40	-0.1
ADE	33.27	175	e(P)	19	06.00	0.7
BAL	33.82	210	eP	19	10.00	0.0
BWA	34.77	161	eP	19	19.30	1.0
SSE	35.29	339	Pd	19	22.40	-0.2
	1.0s			32.00nm		5.2mb
TKSJ	35.48	358	P	19	23.30	-0.9
CAN	35.78	161	eP	19	27.20	0.4
SNG	35.83	285	eP	19	28.00	0.5
CNB	35.90	160	eP	19	29.00	1.1
	1.1s			35.00nm		5.2mb
BFD	35.94	170	eP	19	28.50	0.4
	1.0s			22.00nm		5.0mb
YONJ	36.71	357	P	19	33.80	-0.8
TOO	36.91	167	eP	19	37.30	1.0
	1.0s			30.00nm		5.1mb
NJ2	37.03	336	eP	19	36.00	-1.3
WHN	37.81	330	P	19	45.50	1.7
	1.5s			120.00nm		5.5mb
LOE	38.24	301	eP	19	48.00	0.3
NST	38.91	298	eP	19	53.00	-0.3
GYA	39.41	317	iPc	19	58.20	0.7
	1.2s			35.00nm		5.0mb
			PcP	22	06.00	
CHG	41.24	301	iPd	20	13.00	0.5
	1.2s			79.30nm		5.3mb
KMI	41.38	312	Pd	20	15.00	1.2
	1.5s			170.00nm		5.6mb
			pP	20	25.50	36km
XAN	43.39	327	P	20	30.00	0.0
	1.1s			40.00nm		5.1mb
CD2	44.24	320	P	20	37.00	0.1
	1.2s			75.00nm		5.4mb
TIY	44.59	334	eP	20	39.50	-0.2
BJI	45.09	339	eP	20	43.00	-0.5
	1.5s			140.00nm		5.7mb
CN2	46.14	350	eP	20	51.80	0.0

	0.5s			1.90nm		4.3mb
				eP	21	02.00
MDJ	46.37	354	eP	20	52.70	-0.9
	0.7s			22.00nm		5.2mb
HHC	47.58	335	Pc	21	03.80	0.5
	1.4s			80.00nm		5.5mb
LZH	47.72	325	eP	21	05.00	0.4
	1.5s			110.00nm		5.7mb
BTO	48.03	334	eP	21	06.50	-0.4
GTA	52.32	325	eP	21	39.50	-0.2
	1.2s			150.00nm		5.8mb
LSA	52.53	310	eP	21	42.40	0.6
	1.0s			20.00nm		5.0mb
GUN	55.92	306	P	22	05.80	-0.7
PKI	56.17	305	P	22	07.60	-0.7
KKN	56.36	305	P	22	08.80	-0.7
DMN	56.43	305	P	22	09.60	-0.5
GKN	56.96	305	P	22	13.20	-0.6
HYB	59.15	291	eP	22	20.80	-8.2X
	1.0s			50.00nm		5.6mb
GBA	59.45	287	Pd	22	31.00	-0.1
IRK	59.80	338	ePc	22	32.30	-0.7
	1.5s			40.00nm		5.3mb
WMO	62.18	323	iPd	22	49.80	0.4
	1.0s			91.00nm		5.9mb
				PcP	23	30.80
YAK	63.66	357	iPd	22	57.30	-1.3
	0.7s			269.00nm		6.5mb X
KSH	67.97	314	P	23	28.50	1.5
QUE	72.36	302	iP	23	55.10	1.2
TTA	81.86	25	eP	24	46.09	0.1
	1.2s			12.32nm		4.8mb
MAW	81.87	202	P	24	48.40	2.7X
IMA	83.85	23	eP	24	53.23	-3.0

S.D. = 0.3 on 4 of 4 obs.
 APR 16, 1993 16h 47m 46.14±0.90s
 38.061 S ± 8.4km 176.810 E ± 8.4km
 DEPTH = 117.9 ± 10.9 km
 NORTH ISLAND, NEW ZEALAND (159)

TAZ	0.29	234	P	48	04.00	1.2
URZ	0.31	130	P	48	03.00	0.1
			S	48	16.70	
PATZ	0.54	233	eP	48	05.20	0.7
PAHZ	0.82	167	P	48	07.40	0.8
WHH	0.86	197	P	48	07.50	0.5
MOH	1.10	166	P	48	10.10	0.8
NOZ	1.11	120	P	48	09.90	0.5
PUZ	1.14	91	P	48	09.00	-0.8
			eS	48	27.00	
HBZ	1.27	69	P	48	10.40	-0.7
MAHZ	1.40	144	P	48	13.30	0.6
NGZ	1.46	220	P	48	13.70	0.2
THH	1.48	180	P	48	14.00	0.5
CNZ	1.51	221	P	48	14.65	0.6
MOZ	1.64	254	eP	48	15.50	0.4
WAHZ	1.67	192	P	48	15.50	-0.0
TEHZ	1.93	180	P	48	18.40	-0.6
PGZ	2.59	189	P	48	25.70	-1.8
MNG	2.75	202	P	48	27.40	-2.4
			eS	49	00.40	
WCZ	2.89	316	eP	48	29.40	-2.2
MTW	3.26	198	P	48	33.10	-3.4X
CAW	3.33	203	P	48	33.90	-3.5X
BLW	3.46	197	P	48	35.70	-3.5X
MRW	3.56	207	eP	48	36.90	-3.7X
			S	49	18.10	
WRA	40.89	284	P	55	20.50	2.4
	1.5s			0.30nm		2.8mb
	S.D. = 1.3	on 20	of 24	obs.		

* APR 16, 1993 18h 15m 56.03±0.94s
 34.617 N ± 13.0km 91.499 E ± 10.8km
 DEPTH = 33.0km (normal)
 3.6mb (1 obs.)

QINGHAI, CHINA (325)

GUN	8.23	217	P	17	56.20	-0.3
KKN	8.64	220	P	18	02.00	0.1
	0.6s			16.00nm		5.3mb X
PKI	8.75	218	P	18	03.00	-0.6
	0.6s			15.00nm		5.3mb X
GKN	8.82	224	P	18	03.60	-0.8
	0.6s			15.00nm		5.3mb X
DMN	8.88	220	P	18	05.60	0.4
SHL	9.03	178	eP	18	07.50	0.3
LZH	10.19	78	eP	18	22.00	-1.3
	N 10s			0.84um		
NST	20.40	155	eP	20	34.00	1.1
YKA	80.97	12	eP	28	09.30	1.0
	0.9s			0.60nm		3.6mb
	S.D. = 0.9	on 9	of 9	obs.		

* APR 16, 1993 18h 41m 26.63±0.78s
 7.479 S ± 9.6km 128.517 E ± 25.8km
 DEPTH = 176.1 ± 12.9 km
 4.4mb (2 obs.)

BANDA SEA (280)

AAI	3.78	355	iPd	42	27.50	2.1
TLE	4.59	67	ePd	42	44.70	8.9X
MTN	5.92	154	eP	42	53.70	0.3
	0.3s			171.00nm		5.8mb X
			eS	43	58.00	
KNA	8.22	178	iPd	43	21.80	-2.1
	0.2s			85.00nm		5.8mb X
			eS	44	47.00	
WB2	13.62	156	iPc	44	32.30	-1.6
			eS	46	54.40	
ASPA	16.91	163	iPd	45	15.60	1.1
			eS	48	13.40	
WARB	18.69	185	iPd	45	35.10	1.0
	0.4s			12.00nm		4.7mb
NANU	19.53	218	iPc	45	42.10	-0.6
	0.4s			4.00nm		4.2mb
			eS	49	13.00	
MEEK	21.25	205	eP	46	01.00	1.0
MRWA	24.63	207	eP	46	34.00	1.6
			e	46	56.00	

BAL 25.53 204 eP 46 42.00 1.3
 GUN 54.17 312 P 50 35.80 -0.8
 PKI 54.33 312 P 50 36.80 -0.9
 KKN 54.55 312 P 50 38.40 -0.7
 DMN 54.58 312 P 50 38.80 -0.6
 GKN 55.14 312 P 50 42.80 -0.5
 YKA 108.82 26 ePKP 59 37.80 1.8
 0.4s 0.30nm
 S.D. = 1.4 on 16 of 17 obs.

? APR 16, 1993 18h 59m 24.36±1.09s
 45.577 N ± 31.9km 26.323 E ± 33.1km
 DEPTH = 130.0km (geophysicist)
 ROMANIA (358)

MLR	0.28	252	iPc	59	42.50	0.3
			e	26	09.00	
			e	29	21.00	
VR1	0.41	44	iPc	59	42.50	-0.7
ISR	0.47	160	ePc	59	43.50	0.0
PPE	1.11	54	eP	59	49.00	0.4
	S.D. = 0.9	on 4	of 4	obs.		

APR 16, 1993 19h 14m 21.64±0.44s
 49.183 N ± 7.6km 156.022 E ± 8.2km
 DEPTH = 32.0km (2 depth phases)
 4.7mb (25 obs.)

KURIL ISLANDS (221)

KUSJ	9.93	236	eP	16	41.60	-3.5X
			eS	18	27.40	
ASAJ	10.50	246	eP	16	54.80	1.9
NI1J	17.17	232	eP	18	16.20	-4.3X
CH1J	18.09	230	eP	18	32.60	0.6
MAT	18.11	232	(P)	18	31.00	-1.3
	1.0s			9.00nm		3.9mb
MTMJ	18.29	233	eP	18	43.50	8.9X
MDJ	18.59	266	eP	18	36.50	-1.5
YAK	19.46	321	eP	18	45.80	-2.5
	1.0s			35.00nm		4.6mb
Z	16s			0.20um		4.7msz
TSRJ	20.05	235	eP	18	54.00	-0.7
WKYJ	21.26	233	P	19	07.30	0.0
YONJ	21.68	238	P	19	11.50	0.0
TKSJ	22.26	235	P	19	17.60	0.4
FBA	33.04	41	(P)	20	54.88	-0.8
WHN	36.44	255	ePc	21	24.80	-0.4
INK	38.54	34	eP	21	43.50	1.1
	1.0s			3.00nm		4.1mb
MBC	41.63	21	eP	22	08.00	0.2
GYA	44.15	258	iPd	22	29.20	0.2
	1.0s			12.00nm		4.7mb
KMI	47.60	260	Pd	22	57.00	0.4
	1.5s			40.00nm		5.2mb
YKA	47.80	39	eP	22	56.10	-1.3
	0.8s			1.00nm		3.9mb
CHG	54.57	257	eP	23	49.20	0.1
KKN	57.20	276	P	24	08.80	0.6
PKI	57.26	275	P	24	09.00	0.2
DMN	57.44	276	P	24	09.40	-0.5
GKN	57.48	276	P	24	09.80	-0.3
NB2	66.53	342	P	25	08.20	-1.9
	1.0s			3.20nm		4.4mb
WRA	71.47	202	P	25	39.80	-1.1
	0.7s			1.00nm		4.0mb
GBA	72.38	270	P	25	47.00	0.5
LTX	74.62	63	eP	25	58.55	-0.9
PRU	75.82	336	eP	26	05.50	-0.4
MOX	75.98	338	eP	26	06.30	-0.5
SRO	76.69	332	eP	26	10.90	0.2
ZST	76.71	333	e(P)	26	10.90	0.0
KHC	76.86	336	eP	26	12.20	0.4
	0.9s			5.90nm		4.6mb
			e	26	23.50	37km
GRF	76.96	337	iPc	26	12.90	0.6
	0.9s			19.00nm		5.1mb
GEC2	77.09	336	ePc	26	12.80	-0.3
	0.7s			2.38nm		4.3mb
			e	26	21.20	27km
			e	26	26.30	
			e	26	29.60	
KBA	78.80	335	iPc	26	23.00	0.3
	0.9s			22.60nm		5.2mb
			i	26	23.60	2kmX
WTTA	79.09	336	iPc	26	24.70	0.4

CDF	0.8s			16.40nm		5.1mb
	79.11	339	eP	26	24.20	0.0
	1.0s			11.20nm		4.8mb
MOTA	79.16	337	iPc	26	24.50	-0.1
	0.9s			17.80nm		5.0mb
VBY	79.68	333	eP	26	27.00	-0.2
HAU	79.70	340	eP	26	27.30	0.0
	0.8s			4.85nm		4.6mb
BSF	79.76	339	eP	26	27.50	-0.3
FLN	80.35	344	eP	26	30.90	0.2
	0.9s			9.50nm		4.8mb
LDF	80.45	344	eP	26	31.30	0.0
	1.0s			8.40nm		4.7mb
GRR	80.78	345	eP	26	33.50	0.5
	1.0s			20.60nm		5.1mb
LOR	80.94	341	eP	26	34.00	0.1
	0.9s			6.90nm		4.7mb
LPF	81.15	345	eP	26	35.50	0.5
	1.0s			12.20nm		4.9mb
AVF	81.50	341	eP	26	37.30	0.5
	1.0s			6.00nm		4.6mb
SMF	81.54	341	eP	26	37.50	0.5
LPL	81.96	339	eP	26	40.50	1.0
	0.9s			5.90nm		4.6mb
LPG	81.97	339	eP	26	40.80	1.1
	0.8s			5.90nm		4.7mb
MAF	82.21	342	eP	26	41.60	1.0
	0.7s			3.40nm		4.5mb
TCF	82.22	342	eP	26	41.30	0.7
LSF	82.39	342	eP	26	42.30	0.8
	S.D. = 0.8	on 51	of 54	obs.		

* APR 16, 1993 19h 54m 26.63±0.70s
 12.111 S ± 7.0km 166.406 E ± 11.5km
 DEPTH = 70.8km (2 depth phases)
 5.2mb (17 obs.)

SANTA CRUZ ISLANDS (184)

HNR	6.88	292	eP	56	09.50	2.4
			eS	57	27.50	
DZM	9.90	180	iPc	56	48.20	-0.5
			iS	58	39.40	
PMG	19.10	276	eP	58	47.00	0.3
	1.6s			320.00nm		5.3mb
BRS	19.86	218	iPd	58	56.50	1.8
	1.2s			6.00nm		3.8mb X
			i	59	20.00	
CTA	20.91	245	iPc	59	06.00	0.5
	1.1s			41.14nm		4.7mb
			i	59	09.00	
			e	59	24.00	
RMQ	21.92	227	iPc	59	17.70	2.1
	0.6s			150.00nm		5.6mb
ARMA	22.79	215	iPc	59	26.70	2.5
	1.1s			118.00nm		5.2mb
OLP	25.33	232	iPc	59	48.70	0.1
CMS	27.05	221	iPc	00	04.50	0.2
	0.5s			42.00nm		5.2mb
BWA	27.59	213	eP	00	07.30	-1.9
CNB	27.79	211	eP	00	10.70	-0.3
	0.8s			12.00nm		4.6mb
CAN	27.98	211	eP	00	12.70	0.0
STK	30.14	225	iPc	00	32.20	0.1
	0.7s			13.80nm		4.8mb
TOO	31.52	213	iPd	00	44.60	0.5
	0.5s			15.00nm		5.0mb
WB2	31.73	252	iPd	00	45.20	-1.0
	0.9s			22.00nm		5.0mb
WRA	31.74	252	P	00	45.30	-1.0
	0.9s			7.50nm		4.5mb
BFD	32.88	217	eP	00	56.10	0.2
ASPA	32.92	245	iPc	00	55.00	-1.5
	0.7s			49.60nm		5.5mb
ADE	33.89	223	iPc	01	05.30	0.5
WARB	39.91					

16d 20h

SSE 61.06 316 Pd 04 34.00 -1.5
1.0s 21.00nm 5.2mb
KGM 64.21 278 ePd 04 57.00 0.3
IPM 67.07 280 ePc 05 14.40 -0.7
SNG 68.15 283 eP 05 22.20 0.3
BJI 69.71 321 eP 05 59.00 28.1X
NST 71.15 291 eP 05 39.50 -0.6
KMI 72.23 301 Pc+ 05 47.00 0.3
1.5s 130.00nm 5.6mb
PP 06 07.50

CHG 73.25 294 iPc 05 52.40 -0.1
1.3s 45.19nm 5.2mb
LZH 75.95 312 eP 06 07.70 -0.3
1.2s 41.00nm 5.2mb
pP 06 27.50 74km

SHL 81.59 298 iPc 06 38.50 -0.3
ORV 84.25 48 (P) 06 46.48 -5.4X
pP 07 12.02 96kmX

HVU 91.24 48 (P) 07 27.75 2.1
pP 07 46.85 68km
YKA 95.62 27 eP 08 03.20 18.1X
0.8s 0.60nm

GEC2 136.94 334 ePKP 13 42.40 -0.8
0.7s 0.50nm
e 13 55.70

VBY 138.65 329 ePKP 13 56.40 10.1X
BCAO 147.33 259 iPKPc 14 03.00 0.7
0.2s 96.00nm

id 14 23.40
id 14 55.00

S.D. = 1.1 on 41 of 45 obs.

* APR 16, 1993 19h 56m 44.67 ± 1.70s
45.580 N ± 10.6km 26.369 E ± 10.7km
DEPTH = 141.4 ± 18.9 km

ROMANIA (358)

MLR 0.31 254 iPc 57 04.00 0.0
VRI 0.38 41 iPc 57 05.00 0.9
ISR 0.46 164 iPd 57 04.50 -0.6
MTUR 0.99 249 iPc 57 09.00 0.1
CMP 0.99 252 iPc 57 08.00 -0.8
PPE 1.08 53 iPc 57 11.50 1.9
BIR 1.11 52 eP 57 12.00 2.1X
PTT 1.36 1 iPc 57 10.00 -2.4
TNR 1.47 274 ePc 57 18.00 4.3X
DRA 1.75 240 ePc 57 35.00 18.3X
PSN 2.30 145 iPc 57 23.00 -0.3
PVL 2.48 198 iPc 57 27.00 1.5
JMB 3.12 177 eP 57 33.00 -0.8
BZS 3.34 272 eP 57 38.00 1.4
VTS 3.76 218 eP 57 42.00 -0.3
RZN 4.07 198 eP 57 46.00 -0.6
KKB 4.41 214 iPc 57 51.00 0.1
CZI 9.88 234 P 59 23.00 19.6X
SOI 10.74 229 P 59 19.20 3.6X

S.D. = 1.3 on 14 of 19 obs.

* APR 16, 1993 20h 50m 19.38 ± 0.22s
1.641 S ± 3.2km 135.474 E ± 4.9km
DEPTH = 19.0km (3 depth phases)
5.2mb (35 obs.) 4.6Msz (8 obs.)

IRIAN JAYA REGION, INDONESIA (196)

SWI 4.28 280 ePd 51 25.00 -0.1
eS 52 38.50
TLE 4.81 214 iPc 51 39.80 7.2X
AAI 7.55 254 eP 52 10.60 -0.6
MNI 11.07 286 ePc 53 02.20 2.4
MTN 11.94 201 eP 53 10.00 -1.6
0.4s 142.00nm 6.6mb X
DAV 13.14 311 eP 53 32.00 4.2X
KNA 15.50 205 eP 53 57.50 -1.2
MKS 16.36 257 ePd 54 17.00 7.2X
PLP 16.46 321 ePd 54 11.50 0.5
W82 18.22 183 iPc 54 29.40 -3.7X
e 54 34.00
iS 57 43.10

KKM 20.69 292 ePd 55 02.50 1.3
1.3s 186.90nm 5.3mb
KHKI 20.88 251 ePc 55 01.30 -1.7
e 57 13.50

CTA 21.15 151 iPd 55 07.00 1.2
0.7s 5.14nm 4.0mb X
eS 59 10.00
e(ScS) 07 16.00

ASPA 21.95 184 iPc 55 14.00 0.1

1.0s 233.30nm 5.6mb
Z 20s 1.60um 4.4Msz

BCP 23.18 321 eP 55 28.20 2.0
BAG 23.20 321 ePd- 55 26.90 0.5
1.8s 454.55nm 5.7mb

CVP 23.46 326 eP 55 30.00 1.3
WARB 25.84 198 eP 55 52.00 0.5
QLP 26.19 162 eP 55 54.20 -0.5
RMQ 27.81 154 eP 56 14.10 4.6X

LEM 28.24 259 iPd 56 18.00 4.2X
NANU 28.43 221 eP 56 15.00 -0.1
0.7s 27.00nm 5.1mb

FORT 29.82 193 iPc 56 27.50 -0.1
0.6s 15.00nm 5.0mb
BRS 30.50 149 iPc 56 34.50 0.8
0.9s 13.00nm 4.8mb

e 01 48.00
STK 30.63 170 iPc 56 33.80 -0.9
0.6s 9.50nm 4.8mb

COOL 32.09 204 eP 56 47.00 -0.7
ARMA 32.47 153 eP 56 55.00 4.0X
0.8s 23.00nm 5.2mb

QIZ 32.50 310 eP 56 51.00 -0.3
MRWA 33.11 212 eP 56 56.00 -0.5
ADE 33.29 175 eP 56 59.00 1.0

BAL 33.86 210 eP 57 03.00 0.0
IPM 34.97 280 ePc 57 12.90 0.1
0.5s 53.30nm 5.7mb

SSE 35.28 338 Pc 57 14.50 -0.6
0.7s 17.00nm 5.1mb
Z 20s 0.92um 4.5Msz

E 12s 0.30um
S 02 40.00

TKSJ 35.46 358 P 57 15.80 -0.8
WKYJ 35.67 0 P 57 18.00 -0.5
CAN 35.79 161 eP 57 19.20 -0.3
i 57 23.40 14km

SNG 35.87 285 eP 57 21.00 0.6
CNB 35.91 160 eP 57 21.00 0.5
BFD 35.96 170 eP 57 21.30 0.5
1.1s 27.00nm 5.1mb

YONJ 36.69 357 P 57 26.10 -0.9
TOO 36.93 167 eP 57 25.20 -3.8X
0.4s 9.00nm 4.9mb

NJ2 37.03 336 Pc 57 30.00 0.1
0.8s 7.50nm 4.5mb
Z 18s 0.65um 4.5Msz

WHN 37.81 330 Pd 57 37.60 1.2
1.5s 110.00nm 5.4mb
MAT 38.07 4 (P) 57 37.00 -1.6
eS 03 34.00

LOE 38.27 301 eP 57 40.60 0.1
NST 38.94 298 iPc 57 46.20 0.1
GYA 39.42 317 P 57 51.00 0.8
1.2s 27.00nm 4.8mb

CHG 41.26 301 iPd 58 05.60 0.3
1.3s 93.75nm 5.4mb
TIA 41.36 337 eP 58 05.70 -0.2
Z 26s 1.21um 4.7MszX

KMI 41.39 312 Pd 58 07.50 0.9
1.5s 180.00nm 5.6mb
pP 58 20.00 46kmX

XAN 43.39 327 Pd 58 22.50 -0.1
1.1s 39.00nm 5.1mb
Z 20s 0.61um 4.5Msz

CD2 44.25 320 Pc 58 30.00 0.4
1.2s 66.00nm 5.4mb
TIY 44.59 334 Pc 58 32.00 -0.2
Z 16s 1.19um 4.9MszX

SNY 44.59 347 Pc 58 31.80 -0.3
BJI 45.08 339 eP 58 35.50 -0.6
1.5s 140.00nm 5.7mb
Z 22s 0.92um 4.7Msz

eS 05 16.00
eSS 08 30.00
CN2 46.12 350 eP 58 43.00 -1.3
0.8s 6.70nm 4.7mb

MDJ 46.35 354 eP 58 45.50 -0.5
0.7s 22.00nm 5.3mb
HHC 47.57 335 Pd 58 56.20 0.3
1.4s 87.00nm 5.6mb

Z 22s 0.90um 4.7Msz
N 16s 0.36um
E 15s 0.92um

sP 59 09.00
LZH 47.72 325 Pd 58 58.00 0.8

1.5s 110.00nm 5.7mb
pP 59 06.00 27km
BTO 48.02 334 eP 58 59.00 -0.5
N 11s 0.65um

E 11s 0.48um
SHL 50.08 306 iP 59 15.20 -0.4
GTA 52.32 325 iPd 59 32.20 -0.2
1.2s 64.00nm 5.4mb

Z 16s 0.57um 4.7MszX
E 10s 0.22um

sS 07 04.00
LSA 52.54 310 P 59 35.00 0.4
1.0s 12.00nm 4.8mb

GUN 55.93 306 P 59 58.40 -0.9
PKI 56.19 305 P 00 00.00 -1.1
KKN 56.37 305 P 00 01.60 -0.7

DMN 56.45 305 P 00 02.20 -0.7
GKN 56.98 305 P 00 06.00 -0.6
HYB 59.18 291 ePd 00 20.50 -1.4
1.0s 50.00nm 5.6mb

GBA 59.48 287 Pd 00 23.00 -1.0
IRK 59.79 338 eP 00 24.00 -1.6
1.6s 46.00nm 5.4mb

Z 18s 0.53um 4.7Msz
E 18s 0.44um

e 00 45.20 83kmX
e 01 17.50
LR 22 31.00

WMQ 62.19 323 iPd 00 42.40 0.3
1.0s 91.00nm 5.9mb
Z 16s 0.36um 4.6MszX

pP 00 47.40 16km
sP 00 51.90

YAK 63.64 357 iPd 00 49.20 -2.0
1.5s 193.00nm 6.0mb
Z 20s 0.70um 4.8Msz

N 20s 0.40um
E 18s 0.50um

KSH 67.98 314 P 01 21.40 1.7
Z 28s 0.75um 4.8MszX
eS 10 19.00

QUE 72.38 302 iPd 01 48.00 1.2
IMA 83.81 23 ePc 02 49.43 0.7
1.5s 16.50nm 5.0mb

BRW 84.55 17 ePd 02 53.11 0.9
FBA 85.86 25 ePc 02 58.28 -0.6
1.5s 19.08nm 5.1mb

BALM 87.63 29 (P) 03 08.25 0.6
SPA 88.37 180 iPc 03 11.90 0.7
INK 91.89 22 eP 03 27.00 -0.3
1.4s 14.00nm 5.2mb

MBC 95.18 13 ePc 03 41.00 -0.6
0.9s 7.00nm 5.1mb
OBN 96.43 325 eP 03 45.00 -3.4X
LR 45 20.00

YKA 100.56 26 ePd diff 04 06.30 -0.6
1.0s 1.00nm 4.3mb
HVU 107.21 47 ePd diff 04 31.52 -5.8X

GEC2 111.66 323 ePKPd 08 54.30 -0.3
1.0s 0.89nm

e 08 56.80
e 09 02.20

BCAO 116.98 274 iPKPd 09 05.20 -0.6
0.8s 11.00nm

id 09 08.90
SSF 118.54 325 ePKP 09 10.20 2.5X
0.9s 4.90nm

LPO 121.19 323 ePKP 09 13.30 0.5
LFF 121.31 324 ePKP 09 15.80 2.8X
0.7s 4.85nm

LKO 140.50 283 PKP 09 44.82 -5.6X
FSA 145.49 144 iPKP 10 00.20 1.6
YJA 148.70 140 ePKPc 10 06.50 1.9

CNCB 150.47 129 PKP 10 10.00 2.5X
i 10 15.00
LPB 150.54 129 PKP 10 15.20 7.8X

ZOBO 150.68 128 PKP 10 09.30 1.5
1.0s 22.50nm
CCH 151.52 132 PKP 10 15.50 6.7X

SDV 153.04 74 ePKP 10 11.20 0.3
S.D. = 0.9 on 82 of 98 obs.

* APR 16, 1993 20h 55m 36.71 ± 0.75s
1.690 S ± 13.4km 135.457 E ± 15.1km
DEPTH = 33.0km (normol)
4.9mb (6 obs.)

IRIAN JAYA REGION, INDONESIA (196)

SWI	4.28	281	eP	56	43.00	1.9	YKA	83.95	23	eP	22	43.00	-0.2
			eS	57	50.50			0.7s	0.70nm			4.0mb	
ASPA	21.90	184	iPc	00	29.90	0.9	SDV	146.14	21	ePKP	29	54.00	-0.1
	1.2s		35.90nm		4.7mb			S.D. = 1.5	on 25 of 29 obs.				
STK	30.58	170	eP	04	31.00								
	0.6s		2.70nm		4.2mb		& APR 16, 1993	22h 33m 09.38s					
LZH	47.75	325	eP	04	13.00	0.1		61.838 N		150.565 W			
	1.0s		17.00nm		5.0mb			DEPTH = 56.4km					
GUN	55.95	306	P	05	14.00	-0.8		<AEIC>. ML 2.7 (AEIC), 3.1					
	0.8s		31.00nm		5.4mb			(PMR).					
PKI	56.20	305	P	05	15.60	-1.0	PWA	0.38	120	P	33	19.80	-0.1
KKN	56.39	305	P	05	17.00	-0.8	SUA	0.39	193	iP	33	20.25	0.1
	0.8s		19.00nm		5.2mb				eS	33	29.06		
DMN	56.46	305	P	05	17.80	-0.6	SKT	0.48	288	eP	33	20.32	-0.6
GKN	57.00	305	P	05	21.20	-0.9			eS	33	29.34		
GBA	59.48	287	P	05	33.00	-6.3X	PLRM	0.73	109	eP	33	23.12	-0.7
IMA	83.86	23	eP	08	06.80	2.5			eS	33	35.07		
INK	91.94	22	eP	08	43.00	0.2	PMR	0.73	109	iPd	33	22.74	-1.1
MBC	95.23	13	eP	08	57.50	-0.4			eS	33	34.25		
	1.0s		4.00nm		4.8mb		PMS	0.77	141	P	33	23.70	-0.7
CNCB	150.45	129	PKP	15	30.10	7.4X	GHO	0.78	94	eP	33	24.17	-0.5
LFB	150.53	129	PKP	15	35.00	12.4X			eS	33	36.65		
ZOBO	150.66	128	PKP	15	28.00	5.0X	CGLM	0.87	233	eP	33	25.30	-0.5
			LR	04	40.00		CRP	0.95	234	iPd	33	25.64	-1.3
									eS	33	39.32		
S.D. = 1.3	on 12 of 16 obs.						CPAM	0.96	233	iP	33	26.28	-0.7
APR 16, 1993	21h 10m 11.90±0.58s						SPU	0.97	228	iP	33	26.42	-0.7
	23.244 N ± 7.2km								eS	33	39.96		
	120.867 E ± 9.4km						CP2	0.99	235	ePd	33	26.42	-1.1
	DEPTH = 10.0km (geophysicist)						CKN	0.99	232	iP	33	26.82	-0.5
	4.2mb (9 obs.)						CKT	1.01	232	iP	33	26.87	-0.8
TAIWAN						(244)			eS	33	41.01		
	ML 4.3 (BJI).						BGL	1.05	237	eP	33	27.36	-0.8
QZH	2.68	310	iPnc	10	54.50	-1.4	SML	1.06	91	eP	33	27.50	-0.8
			Pg	11	02.00				eS	33	42.39		
			Sn	11	26.00		CKL	1.07	234	eP	33	27.59	-0.9
			Sg	11	35.00		NKA	1.15	197	eP	33	30.12	0.7
BBP	2.97	160	ePd	11	00.50	0.6	HUR	1.22	20	eP	33	29.68	-0.8
CVP	5.58	171	eP	11	36.80	-0.3			eS	33	46.33		
HKC	6.25	263	eP	11	44.20	-2.2	PTE	1.23	142	eP	33	29.44	-1.1
			eS	13	28.30		SLKM	1.35	173	eP	33	30.83	-1.4
MCO	6.84	262	eP	11	59.30	4.5X	MPA	1.47	156	eP	33	32.68	-1.3
SSE	7.83	2	P	12	07.00	-1.5	SCM	1.54	89	eP	33	33.89	-1.0
									eS	33	53.71		
Z	12s		1.80um				DFR	1.62	220	eP	33	34.97	-1.1
NJ2	8.95	349	Pc	12	22.00	-2.2	TRF	1.62	4	eP	33	34.86	-1.4
			S	14	03.00		RDN	1.70	220	eP	33	36.21	-1.1
WHN	9.31	323	P	12	26.50	-2.6	REF	1.70	218	eP	33	36.52	-0.8
									eS	33	58.59		
Z	12s		0.60um				NCT	1.72	223	eP	33	36.38	-1.1
N	10s		0.68um				RDW	1.74	220	iP	33	36.97	-0.9
			S	14	11.00		RS2	1.74	219	eP	33	36.99	-0.9
QIZ	11.11	250	eP	12	54.10	0.2	RSO	1.74	219	iP	33	36.93	-1.0
GYA	13.29	287	eP	13	24.00	0.7	RS1	1.74	219	iP	33	37.03	-0.9
							RND	1.76	26	eP	33	36.95	-1.1
N	12s		0.85um				SEW	1.82	162	eP	33	38.48	-0.3
E	12s		0.41um				MCK	2.04	21	eP	33	40.92	-1.1
XAN	15.01	318	P	13	46.50	0.7	VLZ	2.15	107	eP	33	41.11	-2.3
TIY	16.14	335	eP	13	59.80	-0.6			eS	34	07.40		
							INE	2.16	215	eP	33	42.86	-0.9
KMI	16.65	280	Pd	14	13.50	6.3X	INW	2.17	216	eP	33	43.07	-0.8
	1.5s		40.00nm		4.3mb		KLU	2.24	97	eP	33	42.88	-1.9
							CNPM	2.34	188	eP	33	45.90	-0.3
							HIN	2.45	124	eP	33	44.83	-2.8
CD2	17.03	300	eP	14	13.80	2.0	SDG	2.45	71	eP	33	47.16	-0.6
BJI	17.21	348	eP	14	17.00	3.1X	SVW	2.53	255	eP	33	46.36	-2.5
							PAX	2.63	62	eP	33	49.17	-1.1
E	12s		0.59um				CVA	2.67	117	eP	33	47.59	-3.1
HHC	19.22	338	eP	14	40.60	1.7	PDB	2.72	222	eP	33	49.44	-2.0
BTO	19.57	335	eP	14	47.00	4.0X	TTA	2.76	296	ePc	33	49.49	-2.7
MAT	20.00	45	eP	14	49.00	1.5	WRH	2.87	22	eP	33	51.50	-2.2
GTA	24.06	317	eP	15	28.50	0.2	SGAM	2.92	115	eP	33	50.95	-3.5
	1.0s		9.00nm		4.3mb		HDA	3.06	31	eP	33	54.23	-2.1
LSA	27.32	290	P	16	01.40	2.0	CCB	3.08	23	eP	33	54.26	-2.4
WRA	44.89	162	P	18	25.60	-2.8	MLY	3.21	359	eP	33	55.80	-2.7
	0.6s		1.40nm		4.1mb		GLB	3.25	94	eP	33	56.40	-2.7
WB2	44.90	162	eP	18	27.60	-1.0	FBA	3.32	21	eP	33	57.33	-2.7
	0.8s		3.30nm		4.3mb		GLM	3.47	23	eP	33	59.73	-2.4
MAIO	54.04	299	eP	19	40.00	1.2	CROM	3.74	104	eP	34	05.27	-0.9
TOO	64.78	159	eP	20	54.00	1.1	TGL	3.89	103	eP	34	05.84	-2.2
	0.8s		11.00nm		5.1mb		8ALM	4.03	98	eP	34	06.98	-3.1
HFS	78.24	331	eP	22	15.10	2.0	IMA	4.46	343	eP	34	12.78	-3.4
	0.5s		1.10nm		4.2mb		YKA	16.67	72	eP	36	54.40	-5.9
NB2	78.92	332	P	22	17.60	0.7							
	0.9s		2.20nm		4.2mb			0.8s	0.30nm			2.5mb	
GEC2	83.38	321	eP	22	40.90	0.2		60 obs. associated					
	0.7s		0.70nm		4.0mb								
			e	22	49.80								
			e	22	52.10								

% APR 16, 1993	22h 51m 56.61±0.93s					
	10.780 N ±12.7km					62.052 W ± 8.9km
	DEPTH = 33.0km (normal)					
NEAR COAST OF VENEZUELA						(97)
	MD 3.1 (TRN).					
TCE	0.31	106	eP	52	05.21	0.8
			eS	52	10.68	
TRN	0.65	102	eP	52	08.45	-0.9
			eS	52	17.32	
TPP	0.75	128	eP	52	11.85	1.1
			eS	52	21.19	
T8H	1.01	107	eP	52	13.40	-1.1
			eS	52	27.67	
CRUV	1.17	265	eP	52	16.40	-0.3
GRW	1.42	16	eP	52	20.84	0.4
			eS	52	38.55	
S.D. = 1.2	on 6 of 6 obs.					
APR 16, 1993	22h 57m 15.15±1.50s					
	33.777 S ± 8.1km					70.217 W ± 8.7km
	DEPTH = 107.3 ± 17.3 km					
CHILE-ARGENTINA BORDER REGION						(127)
	MD 3.8 (SAN).					
PCH	0.29	302	iP	57	31.17	0.2
			iS	57	43.05	
CHCH	0.39	247	iPc	57	31.65	0.3
			iS	57	44.47	
FCH	0.45	352	iPd	57	32.05	0.0
			iS	57	44.47	
SAN	0.49	311	iP	57	31.51	-0.4
			iS	57	44.25	
TACH	0.61	281	iP	57	32.87	0.1
			iS	57	46.30	
PEL	0.74	328	iPd	57	33.95	0.0
			iS	57	47.80	
LVN	1.01	260	iPc	57	36.48	0.0
			iS	57	52.11	
JACH	1.14	344	iP	57	37.70	-0.3
			iS	57	54.82	
LCCH	1.17	285	iPc	57	38.22	0.0
			iS	57	55.72	
RFA	1.76	125	eP	57	45.30	-0.2
			S	58	08.30	
RTBS	2.21	17	ePd	57	51.50	0.3
S.D. = 0.3	on 11 of 11 obs.					
APR 16, 1993	23h 03m 12.40±0.42s					
	49.178 N ± 3.4km					6.956 E ± 4.9km
	DEPTH = 10.0km (geophysicist)					
GERMANY						(543)
	ML 2.6 (STR). MD 2.4 (UCC).					
RUP	0.53	7	ePg	03	22.64	-0.5
LANF	0.59	109	Pg	03	24.38	0.0
HOFF	0.70	109	Pg	03	26.85	0.6
WLF	0.72	313	iPd	03	25.74	-0.7
			iS	03	35.12	
CDF	0.79	164	Pg	03	26.85	-1.1
			Sg	03	38.83	
ABH	0.80	28	ePg	03	27.29	-0.7
WLS	0.81	161	Pg	03	27.53	-0.6
			Sg	03	40.03	
ECH	0.97	172	Pg	03	30.76	-0.1
			Sg	03	44.97	
VITF	1.16	214	Pg	03	33.41	-0.6
MOF	1.33	175	Pg	03	37.23	0.2
			Sg	03	36.12	
BSF	1.35	185	Pg	03	37.74	0.4
TNS	1.43	42	ePnd	03	39.80	1.4
		</				

16d 23h

GEC2 4.45 92 Pn 04 20.90 -0.7
Sg 05 37.50
S.D. = 0.9 on 18 of 19 obs.

APR 16, 1993 23h 37m 48.61±0.30s
41.231 N ± 3.6km 19.478 E ± 3.0km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)
MD 3.3 (ATH). ML 3.1 (TTG).

ULC 0.75 347 iPg 38 02.68 -0.6
iSg 38 13.39

OHR 1.00 96 iPg 38 06.00 -1.7
0.7s 90.00nm
iSg 38 21.50
Lg 38 25.00

BDV 1.16 335 iPg 38 10.28 0.0
iSg 38 26.89

TTG 1.21 352 iPg 38 11.10 0.0
iSg 38 28.40

PVY 1.41 15 iPg 38 14.94 0.5
iSg 38 34.98

HCY 1.42 329 iPg 38 14.34 -0.1
iSg 38 35.30

LCI 1.46 233 P 38 14.20 -0.8
eSn 38 39.10

FNA 1.50 107 ePb 38 16.30 0.6
eSb 38 36.18

KEK 1.54 171 ePb 38 18.00 1.9
NKY 1.62 347 iPg 38 18.38 1.0
iSg 38 40.60

SKO 1.65 63 iPnc 38 17.50 -0.2
0.7s 64.00nm
iSn 38 39.40
Lg 38 42.00

IVA 1.67 11 iPnd 38 19.10 1.0
iSn 38 41.97

BRT 1.76 259 P 38 20.10 0.8
BRY 1.81 338 iPnd 38 20.93 0.8
iSn 38 45.48

IGT 1.82 159 iPn 38 21.26 1.1
eSn 38 47.86

KZN 1.97 117 ePn 38 24.00 1.5
eSn 38 49.00

PLE 2.10 358 iPnc 38 25.12 0.8
iSn 38 52.53

GRG 2.23 96 iPn 38 25.78 -0.4
eSn 38 54.10

VAY 2.33 87 ePn 38 26.80 -0.8
KNT 2.58 90 ePn 38 30.34 -0.8

ORI 2.58 244 P 38 30.90 -0.3
THE 2.71 102 ePn 38 32.82 -0.1

TDS 2.87 238 P 38 34.80 -0.4
SOH 2.96 97 ePn 38 35.90 -0.7

SRS 3.11 91 ePn 38 37.46 -1.1
MGR 3.18 251 P 38 40.00 0.4

SGO 3.23 259 P 38 40.70 0.4
PAIG 3.45 111 ePn 38 44.34 0.8

SOI 4.12 221 P 38 51.30 -1.5
SDI 4.28 278 P 38 55.30 0.0

ARV 5.35 297 P 39 08.30 -2.1
S.D. = 1.0 on 31 of 31 obs.

* APR 16, 1993 23h 38m 23.60±0.72s
23.640 S ± 8.4km 66.732 W ± 10.2km
DEPTH = 229.6 ± 10.7 km

JUJUY PROVINCE, ARGENTINA (128)

SLA 1.57 134 iPc 39 01.50 0.5
S 39 29.80

YJA 1.85 38 iPd 39 03.00 -0.8
S 39 33.50

FSA 2.52 165 iP 39 10.30 0.4
ANT 3.38 268 iP+ 39 19.00 -0.6
iS 39 58.80

CCH 6.25 5 eP 40 07.00 11.5X
CNCB 6.89 350 P 40 04.50 0.5
S 41 22.20

LPB 7.19 349 P 40 08.10 0.5
ZOBO 7.45 350 P 40 10.80 -0.3
S 41 34.00

PPD 14.31 87 eP 41 40.40 2.9X
VAO 18.17 92 eP 42 21.30 -0.4
e 42 22.30
e 42 24.40

BAO 19.35 69 iPd 42 34.00 0.1
S.D. = 0.7 on 9 of 11 obs.

% APR 16, 1993 23h 47m 02.24±0.89s
40.458 N ± 7.2km 23.491 E ± 11.2km
DEPTH = 10.0km (geophysicist)

GREECE (364)

SOH 0.38 344 iPg 47 10.22 0.2
eSg 47 16.38

OUR 0.39 108 ePg 47 10.50 0.2
eSg 47 16.18

PAIG 0.55 165 ePg 47 13.22 -0.1
SRS 0.66 7 ePg 47 15.06 -0.4
eSg 47 26.34

KNT 0.84 328 ePg 47 18.50 0.1
eSg 47 30.74
S.D. = 0.4 on 5 of 5 obs.

APR 17, 1993 00h 24m 35.10±1.01s
38.514 N ± 6.5km 20.451 E ± 11.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 3.1 (ATH).

VLS 0.35 162 ePg 24 42.50 0.1
eSg 24 49.20

IGT 1.02 355 ePg 24 53.34 -1.1
eSg 25 09.14

KEK 1.30 337 ePg 24 59.20 0.0
AGG 1.55 70 iPb 25 01.70 -1.2
eSb 25 24.62

KZN 2.06 29 ePn 25 11.00 0.7
LIT 2.24 44 ePn 25 13.82 1.0
eSn 25 43.34

OHR 2.61 6 ePn 25 18.70 0.7
VLI 2.67 131 ePg 25 28.00 9.1X

SOH 3.21 43 ePn 25 26.62 0.0
eSn 26 08.58

KNT 3.25 35 ePn 25 26.74 -0.3
S.D. = 0.9 on 9 of 10 obs.

% APR 17, 1993 01h 36m 36.50±0.79s
37.532 N ± 7.8km 15.228 E ± 8.3km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MEU 0.49 209 Pd 36 46.60 0.1
eSg 36 54.10

MNO 0.58 313 P 36 48.80 0.4
eSg 36 57.60

ATN 0.65 16 P 36 50.50 0.9
eSg 37 00.30

SOI 0.85 50 Pd 36 53.60 0.8
FAI 1.26 259 P 36 59.80 -0.1

CZI 1.83 23 P 37 07.00 -1.2
ROI 2.29 27 P 37 14.70 -0.3

CSI 2.39 20 P 37 15.70 -0.6
S.D. = 0.8 on 8 of 8 obs.

* APR 17, 1993 01h 53m 40.14±0.61s
2.461 S ± 11.8km 80.005 W ± 19.0km
DEPTH = 33.0km (normal)

4.5mb (8 obs.) 4.9Msz (1 obs.)

NEAR COAST OF ECUADOR (105)

NNA 9.97 162 iPc 56 07.20 2.9
0.8s 14.93nm 5.3mb

SDV 14.64 40 eP 57 08.50 1.5
ZOBO 18.03 140 P 57 48.70 -1.8
LR 59 28.00

LPB 18.24 141 P 57 52.90 -0.1
CCH 20.14 138 P 58 09.50 -5.3X

MEO 40.95 336 iPd 01 22.30 0.9
WMOK 40.99 336 ePd 01 22.30 0.5
0.8s 9.55nm 4.6mb

ACO 42.84 337 iPd 01 37.80 0.9
ALQ 44.72 329 iPc 01 53.80 1.4
0.9s 25.32nm 5.1mb

SRU 50.00 329 eP 02 34.50 0.9
RSSD 51.13 338 eP 02 42.32 0.1
0.8s 6.55nm 4.6mb

BW06 52.33 333 ePc 02 50.97 -0.4
0.6s 2.02nm 4.3mb

ULM 54.25 348 eP 03 05.00 0.0
FCC 62.05 352 eP 03 59.50 -0.1

YKA 69.88 344 eP 04 46.60 -2.9

0.7s 3.00nm 4.5mb
INK 79.56 342 eP 05 45.00 0.0
1.0s 4.00nm 4.4mb

MBC 81.75 351 eP 05 55.00 -1.5
1.0s 5.00nm 4.5mb

SSE 145.19 327 PKPc 13 14.50 -2.1
Z 20s 0.20um 4.9Msz

LZH 146.35 354 ePKP 13 18.50 -0.2
XAN 147.50 346 PKP 13 20.60 0.2

S.D. = 1.4 on 19 of 20 obs.

* APR 17, 1993 02h 34m 10.20±0.44s
1.741 S ± 5.6km 135.369 E ± 11.5km
DEPTH = 33.0km (normal)

5.0mb (19 obs.)

IRIAN JAYA REGION, INDONESIA (196)

MTN 11.81 201 eP 36 59.00 -0.3
KNA 15.37 205 eP 37 47.00 0.6
0.6s 23.00nm 4.6mb

WB2 18.12 183 iPd 38 18.50 -2.7
0.6s 14.00nm 4.3mb

CTA 21.11 150 iPd 38 59.00 4.5X
ASPA 21.84 184 iPd 39 03.40 1.5
1.0s 39.00nm 4.8mb

Z 21s 0.20um 3.5Msz
eS 43 01.60

BRS 30.47 148 iPd 40 24.00 1.6
STK 30.55 170 eP 40 23.20 0.2
0.6s 3.00nm 4.3mb

SSE 35.33 339 eP 41 05.50 1.0
GYA 39.42 317 P 41 40.00 0.9

CHG 41.22 301 eP 41 54.40 0.5
KMI 41.38 312 Pd 41 46.50 -8.9X

1.5s 60.00nm 5.1mb
KMI 41.38 312 Pd 41 56.50 1.1
1.5s 60.00nm 5.1mb

XAN 43.42 327 P 42 12.00 0.3
1.0s 11.00nm 4.6mb

CD2 44.26 320 eP 42 18.60 0.0
TIY 44.63 334 eP 42 17.20 -4.3X

BJI 45.14 339 eP 42 25.50 0.1
1.2s 16.00nm 4.8mb

MDJ 46.44 354 eP 42 35.00 -0.6
HHC 47.62 336 eP 42 44.00 -1.2
1.1s 17.00nm 5.0mb

LZH 47.74 325 eP 42 47.50 1.2
1.2s 30.00nm 5.2mb

GTA 52.34 325 eP 43 21.80 0.4
1.0s 19.00nm 5.0mb

GUN 55.91 306 P 43 47.50 -0.5
0.8s 39.00nm 5.5mb

PKI 56.16 305 P 43 49.20 -0.6
0.6s 12.00nm 5.1mb

KKN 56.35 305 P 43 50.20 -0.8
0.8s 28.00nm 5.3mb

DMN 56.42 305 P 43 51.20 -0.4
0.8s 32.00nm 5.4mb

GKN 56.95 305 P 43 55.00 -0.3
0.7s 32.00nm 5.5mb

GBA 59.41 287 P 44 12.00 -0.3
WMQ 62.20 323 P 44 31.60 0.6
1.0s 35.00nm 5.4mb

YAK 63.73 357 iPd 44 38.80 -1.8
1.0s 80.00nm 5.8mb

IMA 83.94 23 (P) 46 39.10 0.9
FBA 86.00 25 (P) 46 47.00 -1.3

INK 92.02 22 eP 47 17.50 0.8
MBC 95.30 13 eP 47 31.00 -0.7
0.7s 2.00nm 4.7mb

CNCB 150.49 130 PKP 54 03.90 7.7X
LPB 150.56 129 PKP 54 03.50 7.4X

ZOBO 150.70 129 PKP 54 03.70 7.2X
S.D. = 1.0 on 29 of 35 obs.

APR 17, 1993 03h 43m 23.35±0.51s
42.850 N ± 9.0km 147.313 E ± 7.1km
DEPTH = 38.0km (2 depth phases)

4.5mb (21 obs.) 4.4Msz (1 obs.)

OFF COAST OF HOKKAIDO, JAPAN (225)

KUSJ 1.93 278 iP+ 43 53.20 -1.1
eS 44 18.40

HOOJ 3.01 262 iPd 44 11.70 2.0
eS 44 49.10

ASAJ 3.63 292 P 44 19.90 1.4
 MRRJ 4.62 267 iPd 44 33.60 1.0
 eS 45 27.50
 AOMJ 5.68 249 eP 44 48.30 0.9
 OFUJ 5.70 230 P 44 46.90 -0.8
 NIJJ 8.48 231 P 45 24.70 -2.0
 KAKJ 8.63 222 P 45 26.60 -2.0
 S 46 58.90
 CHJJ 9.35 226 P 45 37.30 -1.4
 S 47 17.50
 MAT 9.43 231 (P) 45 39.00 -0.7
 0.6s 4.67nm 4.8mb
 (S) 47 19.00
 MDJ 12.94 284 eP 46 24.60 -2.7
 CN2 15.94 281 eP 47 08.40 2.1
 Z 16s 0.65um
 KUMJ 16.59 237 P 47 20.80 6.1X
 SNY 17.57 275 Pc 47 27.90 1.1
 0.8s 13.00nm 4.1mb
 BJI 23.44 274 eP 48 29.50 -0.4
 N 14s 0.41um
 TIA 24.13 264 eP 48 37.50 0.9
 NJ2 24.92 254 Pd 48 48.00 3.8X
 0.8s 7.50nm 4.3mb
 HHC 26.58 278 eP 49 00.80 1.0
 1.2s 22.00nm 4.6mb
 TIY 26.97 271 eP 49 05.60 2.3
 Z 16s 0.48um 4.2mszX
 BTO 27.78 278 eP 49 12.00 1.3
 XAN 31.11 267 P 49 44.50 4.1X
 1.2s 10.00nm 4.5mb
 CD2 36.44 266 P 50 26.70 0.3
 GYA 36.82 257 P 50 30.00 0.3
 Z 20s 0.63um 4.4msz
 IMA 39.36 33 eP 50 50.46 -0.1
 0.7s 3.76nm 4.3mb
 FBA 41.76 35 eP 51 11.69 1.6
 0.9s 6.37nm 4.4mb
 WMO 42.54 293 P 51 15.60 -1.3
 1.0s 14.00nm 4.6mb
 Z 17s 0.52um 4.5mszX
 eS 57 38.80
 GUN 51.19 274 P 52 25.40 0.0
 KKN 51.70 274 P 52 28.00 -1.1
 PKI 51.73 274 P 52 29.00 -0.5
 DMN 51.93 274 P 52 30.80 -0.1
 GKN 52.05 275 P 52 31.60 -0.1
 YKA 56.49 33 eP 53 01.90 -1.6
 0.7s 0.90nm 3.9mb
 WB2 63.61 194 eP 53 54.40 1.8
 0.8s 3.50nm 4.5mb
 WRA 63.61 194 P 53 54.30 1.7
 0.7s 1.40nm 4.2mb
 KAF 65.17 334 eP 54 00.00 -2.3
 0.5s 2.90nm 4.6mb
 OBN 66.11 324 iPd 54 06.00 -2.4
 1.2s 27.00nm 5.2mb
 e 54 18.00 41km
 GBA 66.15 267 P 54 10.00 0.8
 FCC 66.74 30 eP 54 14.00 1.6
 NUR 66.89 333 iP 54 11.50 -1.8
 0.3s 3.80nm 5.0mb
 BGMT 67.45 49 eP 54 17.70 0.2
 FRB 70.01 16 eP 54 31.00 -1.6
 BW06 70.40 50 eP 54 37.00 1.4
 0.5s 0.65nm 3.9mb
 NB2 70.49 339 P 54 33.90 -1.7
 0.5s 4.40nm 4.7mb
 HFS 70.57 337 eP 54 34.20 -1.8
 0.4s 11.80nm 5.3mb
 Z 17s 0.06um 3.9mszX
 LR 21 17.00
 SRU 72.23 53 eP 54 46.70 0.0
 RSSD 72.50 46 eP 54 47.80 -0.4
 0.6s 1.69nm 4.2mb
 EKA 79.02 343 P 55 25.00 0.4
 0.8s 4.30nm 4.5mb
 GEC2 80.00 331 ePc 55 29.40 -0.7
 0.5s 0.45nm 3.7mb
 e 55 40.40 36km
 LTX 83.05 56 eP 55 46.51 0.1
 SMF 85.18 336 eP 55 59.40 2.7
 LPL 85.27 333 eP 55 57.70 0.2
 MAF 85.95 336 eP 56 01.10 0.5
 0.8s 4.55nm 4.8mb
 LSF 86.22 337 eP 56 02.90 1.0
 BAO 149.87 30 (PKP) 03 15.00 8.7X

S.D. = 1.4 on 50 of 54 obs.
 % APR 17, 1993 04h 05m 09.64±0.31s
 39.186 S ± 3.1km 174.668 E ± 3.6km
 DEPTH = 29.1 ± 3.7 km
 NORTH ISLAND, NEW ZEALAND (159)
 ML 4.0 (WEL).
 NRZ 0.59 255 P 05 22.90 1.4
 BSZ 0.65 162 Pd 05 21.90 -0.5
 S 05 29.10
 CNZ 0.68 91 P 05 22.30 -0.8
 MOZ 0.69 9 Pd 05 23.70 0.6
 S 05 33.30
 NGZ 0.72 90 P 05 23.10 -0.7
 WAHZ 1.40 112 P 05 33.20 -0.3
 WHH 1.45 79 P 05 34.30 0.1
 PATZ 1.48 58 eP 05 35.50 0.9
 WLZ 1.50 29 P 05 35.60 0.7
 eS 05 54.70
 UTU 1.56 50 eP 05 35.90 0.2
 MNG 1.56 157 P 05 36.00 0.3
 KIW 1.69 174 P 05 37.70 0.2
 TEHZ 1.84 117 P 05 40.90 1.1
 PGZ 1.89 140 P 05 41.00 0.5
 CAW 1.95 171 P 05 41.70 0.4
 MRW 2.04 179 P 05 43.50 0.8
 S 06 07.70
 TCW 2.05 188 P 05 42.80 0.1
 MTW 2.07 162 P 05 44.00 0.9
 URZ 2.12 65 eP 05 44.10 0.3
 BLW 2.27 164 eP 05 46.40 0.6
 ORZ 2.32 224 P 05 46.00 -0.6
 S 06 12.70
 KUZ 2.57 19 P 05 49.60 -0.6
 S 06 19.90
 THZ 2.91 207 P 05 55.30 0.4
 eS 06 30.20
 WCZ 3.25 355 eP 05 59.70 -0.1
 KHZ 3.34 194 P 06 01.40 0.3
 eS 06 37.80
 DSZ 3.36 220 P 06 00.60 -0.9
 LTZ 4.03 206 eP 06 10.70 -0.2
 S 06 54.70
 WVZ 4.89 216 eP 06 21.90 -1.1
 S.D. = 0.7 on 28 of 28 obs.
 APR 17, 1993 04h 45m 00.20±0.68s
 38.722 N ± 5.5km 16.695 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)
 CZI 0.66 319 P 45 14.10 0.8
 ACI 0.74 329 P 45 15.60 1.0
 SOI 0.82 218 P 45 17.90 1.8
 eSg 45 29.70
 ROI 0.85 353 P 45 17.70 1.0
 TDS 0.98 344 P 45 19.60 0.9
 CSI 1.10 343 P 45 21.80 1.0
 ATN 1.12 240 P 45 20.70 -0.5
 eSg 45 34.00
 MMN 1.29 335 P 45 23.40 -0.6
 eSg 45 39.20
 ORI 1.35 352 P 45 26.20 1.1
 MGR 1.67 328 P 45 27.70 -1.8
 eSg 45 47.20
 MNO 1.76 244 P 45 31.00 -0.1
 LCI 1.88 31 P 45 32.60 0.0
 eSn 45 54.50
 SGO 2.12 330 P 45 34.70 -1.4
 MEU 2.14 221 P 45 35.20 -1.3
 BRT 2.19 10 P 45 35.00 -2.1
 eSn 46 00.00
 IGT 2.94 73 iP 45 47.14 -0.7
 eS 46 20.18
 OHR 3.96 52 ePg 46 33.70 31.4X
 eSg 46 45.50
 AGG 4.41 84 eP 46 09.78 1.1
 eS 46 57.62
 S.D. = 1.3 on 17 of 18 obs.
 ? APR 17, 1993 05h 13m 52.40±4.09s
 29.193 S ± 21.3km 68.627 W ± 21.6km
 DEPTH = 140.1 ± 54.7 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 RTLL 2.13 176 iPc 14 28.50 -0.5

RTPR 2.15 122 S 14 55.50
 ePd 14 29.40 0.3
 S 14 56.90
 CFA 2.43 172 ePc 14 32.80 0.1
 S 15 03.00
 RTBS 2.56 196 ePd 14 34.50 0.2
 S 15 06.40
 CYA 2.60 74 ePc 14 34.80 0.0
 (S) 14 45.60
 MRA 4.07 143 iPc 14 54.50 0.4
 S 15 40.70
 TCA 4.09 122 eP 14 54.00 -0.5
 (S) 15 40.10
 S.D. = 0.5 on 7 of 7 obs.
 ? APR 17, 1993 05h 29m 49.26±7.78s
 36.282 S ± 70.0km 176.727 E ± 24.6km
 DEPTH = 150.0km (geophysicist)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
 HBZ 1.82 137 P 30 22.60 0.0
 URZ 2.00 171 P 30 26.60 1.9
 S 30 48.60
 PUZ 2.17 146 P 30 26.00 -0.7
 S 30 47.60
 NOZ 2.55 156 P 30 30.90 -0.6
 PAHZ 2.59 174 P 30 33.40 1.5
 MOH 2.86 173 eP 30 36.10 0.7
 MAHZ 3.04 163 eP 30 37.00 -0.7
 WAHZ 3.42 185 eP 30 43.20 0.5
 TEHZ 3.70 179 eP 30 45.60 -0.7
 MNG 4.44 192 eP 30 56.00 0.0
 S 31 40.70
 KIW 4.79 197 P 31 00.90 0.2
 MTW 4.96 191 eP 31 01.70 -1.3
 CAW 4.99 195 P 31 02.80 -0.6
 MRW 5.19 197 eP 31 05.70 -0.3
 eS 31 58.70
 S.D. = 1.0 on 14 of 14 obs.
 & APR 17, 1993 06h 07m 51.82s
 62.947 N 150.956 W
 DEPTH = 109.1km
 2.5mb (1 obs.)
 CENTRAL ALASKA (1)
 <AEIC>.
 TRF 0.59 31 iPd 08 09.32 -0.3
 eS 08 22.82
 HUR 0.60 86 ePc 08 09.23 -0.3
 eS 08 22.37
 SKT 1.01 196 iPd 08 13.00 -0.3
 eS 08 28.67
 RND 1.06 63 iPd 08 13.48 -0.5
 eS 08 29.60
 MCK 1.21 48 ePd 08 15.13 -0.4
 PWA 1.40 158 P 08 17.70 0.0
 SUA 1.49 176 ePc 08 18.81 -0.2
 GHO 1.51 140 ePc 08 18.86 -0.3
 S 08 39.47
 PLRM 1.61 147 ePc 08 19.47 -0.7
 PMR 1.61 147 eP 08 19.10 -1.1
 S 08 37.84
 SML 1.67 132 iPc 08 20.48 -0.7
 eS 08 42.67
 CRP 1.78 199 eP 08 21.05 -1.5
 CPAM 1.79 199 ePd 08 21.98 -0.7
 CP2 1.79 200 eP 08 22.00 -0.8
 BGL 1.82 202 eP 08 22.99 -0.1
 KKN 1.82 199 eP 08 23.16 0.1
 PMS 1.83 158 P 08 22.30 -0.8
 NEA 1.84 26 iPd 08 22.34 -0.8
 SPU 1.85 197 eP 08 22.65 -0.7
 CKT 1.85 199 eP 08 22.90 -0.5
 CKL 1.87 201 ePc 08 23.34 -0.4
 WRH 1.99 39 ePd 08 24.31 -0.8
 SCM 2.03 122 ePc 08 24.51 -1.2
 MLY 2.09 3 iPd 08 25.84 -0.7
 CCB 2.21 38 ePd 08 26.94 -1.0
 NKA 2.22 184 eP 08 29.70 1.7
 PTE 2.28 156 eP 08 27.55 -1.3
 eS 08 55.22
 HDA 2.31 49 ePd 08 28.24 -1.0
 TTA 2.31 272 ePc 08 28.42 -1.0
 S 08 54.03
 MDM 2.35 30 ePd 08 28.98 -0.9
 THY 2.41 76 eP 08 30.80 0.2

VDL	0.9s	9.50nm	5.0mb	
TMA	85.62 331 ePc	16 02.40	0.8	
EEO	86.17 331 ePc	16 04.60	0.3	
DIX	86.23 28 eP	16 06.00	1.7	
EMS	86.74 331 ePc	16 08.00	0.8	
LOR	86.93 332 ePc	16 08.60	0.6	
	86.98 334 eP	16 08.40	0.4	
	1.0s	22.20nm	5.3mb	
FLN	87.05 337 eP	16 08.40	0.1	
	0.7s	6.50nm	5.0mb	
LDF	87.09 337 eP	16 09.10	0.6	
	0.6s	3.25nm	4.7mb	
L8F	87.19 334 iPd	16 09.40	0.3	
	1.0s	12.80nm	5.1mb	
SSF	87.28 334 iPd	16 09.90	0.5	
HYF	87.39 335 eP	16 11.00	1.0	
LPL	87.47 332 eP	16 11.20	0.5	
	0.9s	5.90nm	4.8mb	
LPG	87.48 332 eP	16 11.50	0.7	
GRR	87.49 338 eP	16 10.90	0.5	
	1.0s	16.20nm	5.2mb	
SMF	87.53 334 eP	16 11.30	0.6	
	0.8s	12.75nm	5.2mb	
AVF	87.57 334 iPd	16 11.50	0.7	
	0.9s	25.90nm	5.5mb	
LPF	87.87 337 eP	16 12.90	0.7	
	1.0s	14.40nm	5.2mb	
BGF	87.94 334 eP	16 13.20	0.6	
MAF	88.33 334 eP	16 15.50	1.0	
	1.0s	18.40nm	5.3mb	
TCF	88.39 335 iPd	16 15.50	0.7	
	1.0s	8.40nm	5.0mb	
LSF	88.65 335 iPd	16 16.60	0.6	
	0.8s	12.20nm	5.3mb	
MFF	88.87 336 eP	16 17.60	0.5	
	0.7s	5.30nm	5.0mb	
RJF	89.49 335 eP	16 20.60	0.6	
CAF	89.64 334 eP	16 21.90	1.1	
	0.9s	9.65nm	5.1mb	
LFF	90.07 335 eP	16 23.70	1.0	
	0.4s	3.50nm	5.0mb	

S.D. = 1.1 on 115 of 118 obs.

% APR 17, 1993 07h 32m 56.49 ± 0.95s
 39.293 N ± 7.8km 27.660 E ± 13.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

DST	0.81 67 ePg	33 12.00	-0.3
IZM	0.95 199 ePg	33 14.60	0.0
	iSg	33 29.00	
EDC	1.06 8 ePn	33 16.00	-0.5
BNT	1.08 11 ePn	33 16.90	0.1
KCT	1.10 29 ePn	33 17.70	0.6

S.D. = 0.6 on 5 of 5 obs.

% APR 17, 1993 09h 00m 20.88 ± 0.96s
 39.154 N ± 8.1km 27.536 E ± 15.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

IZM	0.78 196 iPg	00 36.20	0.0
	iSg	00 48.70	
DST	0.96 62 ePn	00 39.00	-0.2
EDC	1.22 12 ePn	00 43.50	0.0
BNT	1.24 14 ePn	00 43.60	-0.3
KCT	1.26 30 ePn	00 44.80	0.4

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

? APR 17, 1993 09h 23m 38.68 ± 1.04s
 39.134 N ± 8.8km 27.548 E ± 16.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

IZM	0.77 197 iPg	23 53.70	0.0
	iSg	24 05.70	
DST	0.96 60 iPn	23 57.00	0.0
EDC	1.24 11 ePn	24 02.00	0.4
BNT	1.25 13 ePn	24 01.60	-0.4

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

? APR 17, 1993 09h 53m 45.46 ± 4.25s
 39.508 N ± 30.9km 29.578 E ± 19.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

DST	0.74 278 ePg	54 00.00	0.0
	eSg	54 15.00	
YLV	1.07 352 ePn	54 05.60	0.0
EYL	1.15 23 ePn	54 07.00	0.0
KCT	1.20 309 iPn	54 07.80	0.0

S.D. = 0.1 on 4 of 4 obs.

& APR 17, 1993 11h 19m 10.80s
 59.623 N 152.682 W

DEPTH = 81.9km
 2.9mb (1 obs.)

SOUTHERN ALASKA (2)
 <AEIC>.

AUE	0.44 233 iPd	19 23.97	-0.4
AUL	0.45 238 iPd	19 24.18	-0.4
AUI	0.48 233 iPd	19 24.17	-0.5
	eS	19 34.07	
INE	0.48 337 eP	19 24.20	-0.7
	eS	19 34.87	
INW	0.50 333 ePc	19 24.31	-0.7
	eS	19 35.91	
XLV	0.52 109 eP	19 24.74	-0.3
CNPM	0.74 97 iPc	19 26.44	-0.9
	iS	19 38.51	
PDB	0.78 283 iPd	19 26.67	-1.0
	eS	19 39.30	
RS1	0.84 357 iPc	19 27.81	-0.8
	eS	19 41.73	
RSO	0.84 358 iPc	19 27.82	-0.8
	eS	19 41.46	
RS2	0.84 357 iPc	19 27.84	-0.8
	eS	19 41.07	
CDD	0.85 216 iPd	19 27.41	-1.1
	eS	19 41.31	
RDW	0.86 356 iPc	19 28.05	-0.8
BRLK	0.92 80 eP	19 28.20	-1.1
	eS	19 41.50	
NCT	0.95 353 ePc	19 28.78	-1.0
	eS	19 43.26	
MCNL	0.95 243 iPd	19 28.48	-1.2
	eS	19 42.82	
RDT	0.96 8 eP	19 28.90	-1.0
DFR	0.97 360 iPc	19 29.17	-0.8
	eS	19 44.04	
SYI	1.03 171 ePd	19 30.01	-0.5
	eS	19 44.48	
NKA	1.34 32 eP	19 35.25	0.8
SLKM	1.52 53 eP	19 35.68	-1.2
CKL	1.59 6 ePd	19 36.97	-0.9
SPU	1.59 11 iPd	19 36.94	-1.0
	eS	19 57.54	
CKT	1.60 8 ePd	19 37.04	-1.0
CKN	1.63 9 eP	19 37.53	-0.8
BGL	1.65 5 eP	19 37.94	-0.8
CPAM	1.66 9 eP	19 37.92	-0.9
CP2	1.66 7 eP	19 37.84	-1.1
	S	19 54.57	
CRP	1.67 9 eP	19 37.50	-1.5
	S	19 56.27	
SEW	1.70 72 eP	19 38.56	-0.7
MPA	1.88 61 eP	19 40.54	-1.1
KDC	1.88 177 (P)	19 39.38	-2.3
	(S)	20 01.91	
SUA	2.08 27 ePd	19 43.73	-0.8
SVW	2.09 317 P	19 43.70	-0.8
PTE	2.21 54 eP	19 44.47	-1.6
PMS	2.25 42 P	19 45.70	-1.0
SKT	2.43 13 eP	19 47.88	-1.3
PWA	2.46 33 P	19 48.90	-0.6
PLRM	2.64 40 eP	19 50.01	-2.0
PMR	2.64 40 eP	19 49.14	-2.9
GHO	2.84 39 eP	19 53.24	-1.7
SML	3.06 42 eP	19 55.89	-2.0
HIN	3.20 73 eP	19 56.79	-3.0
SCM	3.44 48 eP	20 01.19	-2.0
VLZ	3.50 62 eP	20 01.28	-2.6
CVA	3.59 72 eP	20 02.69	-2.6
KLU	3.83 58 eP	20 05.32	-3.3
YKA	18.46 65 eP	23 18.80	-3.4
	0.4s	0.30nm	2.9mb

48 obs. associated

? APR 17, 1993 11h 30m 08.09 ± 1.04s

39.134 N ± 9.9km 27.595 E ± 17.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

IZM	0.78 200 iPg	30 23.30	0.0
	iSg	30 37.30	
DST	0.93 59 iPn	30 25.90	0.0
EDC	1.23 10 ePn	30 31.00	0.1
KCT	1.26 28 iPn	30 31.40	-0.1

S.D. = 0.1 on 4 of 4 obs.

% APR 17, 1993 12h 04m 47.61 ± 0.74s
 43.082 N ± 8.0km 0.910 W ± 5.7km

DEPTH = 5.0km (geophysicist)
 PYRENEES (378)

ML 1.0 (STR).

BOH	0.08 285 Pg	04 49.60	0.1
	Sg	04 51.22	
MADF	0.09 46 Pg	04 49.62	-0.1
	Sg	04 51.42	
ISSF	0.10 123 Pg	04 49.84	0.0
	Sg	04 51.57	
ELYF	0.11 326 Pg	04 49.86	-0.1
	Sg	04 51.74	
ATE	0.15 89 Pg	04 50.98	0.2
	Sg	04 52.91	
LHE	0.27 129 Pg	04 53.04	-0.1
	Sg	04 56.47	

S.D. = 0.1 on 6 of 6 obs.

* APR 17, 1993 12h 06m 50.57 ± 0.99s
 3.183 N ± 12.2km 124.272 E ± 19.5km

DEPTH = 366.7 ± 16.0 km
 4.6mb (6 obs.)

CELEBES SEA (262)

CTB	3.99 359 ePd	08 02.00	1.1
PLP	7.96 5 ePc	08 44.00	-1.3
MTN	17.32 157 eP	10 30.20	-0.9
	0.4s	79.00nm	5.4mb
WB2	25.03 157 iPd	11 43.10	-1.6
	0.5s	50.70nm	5.1mb
ASPA	28.29 161 iPd	12 12.90	-0.9
	0.4s	9.20nm	4.5mb
WARB	29.28 176 eP	12 22.00	-0.5
MRWA	33.18 193 eP	12 55.60	-0.4
LZH	37.79 333 eP	13 35.50	0.8
	1.2s	22.00nm	4.4mb
STK	38.56 156 iPd	13 41.80	0.9
	0.5s	8.00nm	4.3mb
ADE	40.30 162 iPc	13 56.50	1.4
BFD	43.60 159 eP	14 22.70	1.1
GUN	44.09 308 P	14 26.00	0.0
PKI	44.31 307 P	14 28.00	0.2
KKN	44.51 307 P	14 29.20	0.0
DMN	44.57 307 P	14 30.20	0.5
TOO	45.08 156 iPc	14 34.70	1.4
	0.3s	12.00nm	4.6mb
GKN	45.11 307 P	14 34.00	0.1
HYB	47.00 291 ePc	14 48.50	0.0
GBA	47.39 285 P	14 51.00	-0.4
KAF	90.94 332 eP	19 13.10	-1.3

S.D. = 1.0 on 20 of 20 obs.

& APR 17, 1993 12h 43m 03.06s
 34.096 N 116.440 W

DEPTH = 10.7km
 SOUTHERN CALIFORNIA (43)

<PAS>P>. ML 3.7 (PAS), 3.5 (GS).
 Felt.

PEC	0.63 251 ePc	43 14.64	-1.1
PLM	0.82 206 ePd	43 18.32	-0.7
	S	43 29.41	
SSK	1.05 277 ePc	43 22.25	-0.6
	S	43 36.25	
GSC	1.24 346 ePd	43 25.13	-1.0
GLA	1.70 127 eP	43 30.48	-2.4
ISA	2.29 314 ePn	43 39.52	-1.9
	ePg	43 44.44	
TPNV	2.85 3 (P)	43 48.12	-1.4
BCH	3.19 291 ePn	43 52.54	-1.8
PHAM	3.69 299 ePn	44 00.05	-1.2
TNP	4.03 351 ePn	44 04.54	-1.7
BONR	4.14 339 ePn	44 06.50	-1.3

17d 12h

ARUT 4.42 33 ePg 44 19.81
TUC 5.06 109 ePc 44 09.19 -2.5
0.3s 2.11nm 4.2mb
MSU 5.59 37 eP 44 26.93 -1.5
DUG 6.74 24 (P) 44 42.45 -2.1
15 obs. associated

& APR 17, 1993 12h 55m 45.42s
34.097 N 116.439 W
DEPTH = 9.4km
SOUTHERN CALIFORNIA (43)
<PAS>P>. ML 3.0 (PAS). Felt.

PEC 0.63 251 iPc 55 57.02 -1.1
PLM 0.82 206 ePd 56 00.64 -0.9
SSK 1.05 277 iPc 56 04.63 -0.7
GSC 1.24 346 ePd 56 07.44 -1.1
GLA 1.70 127 eP 56 13.16 -2.3
ISA 2.29 314 ePn 56 21.81 -2.1
BCH 3.20 291 (Pn) 56 34.97 -1.9
TNP 4.03 351 (P) 56 46.86 -1.8
BONR 4.14 339 ePg 57 02.86 12.5
9 obs. associated

APR 17, 1993 13h 18m 07.38± 0.60s
26.327 S ± 5.6km 27.389 E ± 7.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.4 (PRE). mblg 3.3 (BUL).

PRY 0.60 173 eP 18 18.50 -1.0
KSR 0.64 316 eP 18 20.50 0.3
BFS 0.79 223 eP 18 23.90 0.7
SLR 1.00 54 iPd 18 28.60 1.8
SEK 2.00 174 iPd 18 43.70 1.4
SWZ 2.03 245 eP 18 43.90 1.1
BFT 2.47 76 eP 18 50.00 0.8
BLF 2.97 201 iPd 18 55.30 -0.9
FRS 3.87 208 eP 19 07.50 -1.3
BUL 6.26 11 iPn 19 43.00 0.2
CIR 6.54 37 iPn 19 45.10 -1.5
WIN 10.09 290 e(P) 20 32.00 -4.3X
MTD 10.27 23 iPn 20 36.90 -1.7
S.D. = 1.3 on 12 of 13 obs.

APR 17, 1993 13h 29m 05.69± 0.28s
40.378 N ± 3.2km 25.928 E ± 2.6km
DEPTH = 14.0 ± 2.0 km
AEGEAN SEA (365)
MD 3.5 (ISK), 3.4 (ATH).

ALN 0.53 10 ePg 29 16.24 0.1
RDO 0.82 339 ePg 29 21.80 0.6
PRK 1.16 167 ePb 29 27.50 0.5
KDZ 1.33 343 iPg 29 30.00 0.2
EDC 1.48 91 iPn 29 32.00 0.2
OUR 1.49 269 ePb 29 32.00 0.1
BNT 1.52 90 iPn 29 31.50 -1.0
RZN 1.60 325 iPd 29 34.00 0.3
DIM 1.70 350 eP 29 36.00 1.0
PAIG 1.78 256 iPb 29 36.28 0.1
eSb 29 59.80

KCT 1.86 93 ePn 29 38.00 0.6
SRS 1.92 293 iPb 29 38.30 0.0
DMK 2.00 43 iPn 29 38.60 -0.8
SOH 2.01 284 ePn 29 39.80 0.2
CTT 2.05 67 iPn 29 38.50 -1.6
MMB 2.06 307 iP 29 39.00 -1.3
JMB 2.14 13 iP 29 41.00 -0.5
DST 2.21 110 iPn 29 42.80 0.3
IZM 2.23 152 iPn 29 43.30 0.5
THE 2.27 277 ePn 29 48.24 4.9X
KNT 2.43 290 ePn 29 46.04 0.5
KKB 2.61 306 iPc 29 47.00 -1.2
LIT 2.65 265 ePn 29 48.56 -0.1
VAY 2.72 291 iPn 29 57.20 7.5X
GRG 2.74 283 ePn 29 51.52 1.4
PVL 2.87 351 eP 29 52.00 0.2
VTS 3.01 318 iPc 29 57.00 3.1X
AGG 3.09 245 ePn 29 55.24 0.3
KZN 3.18 270 ePn 29 56.00 -0.3
KZN 3.18 270 ePb 30 05.50 9.2X
ALT 3.49 111 ePn 30 01.20 0.6
FNA 3.49 278 ePn 30 00.24 -0.4
SKO 3.74 297 ePn 30 17.60 13.3X
OHR 3.97 282 eP 30 18.00 10.6X
IGT 4.38 261 ePn 30 12.40 -0.9
MLR 5.11 0 eP 30 25.00 1.3
VRI 5.52 6 eP 30 30.00 0.6
BZS 6.12 330 ePc 30 38.00 0.3
S.D. = 0.8 on 32 of 38 obs.

* APR 17, 1993 13h 47m 15.67± 0.86s
51.745 N ± 12.4km 104.660 E ± 8.2km
DEPTH = 33.0km (normal)
3.5mb (1 obs.)
LAKE BAYKAL REGION, RUSSIA (327)

IRK 0.57 338 iPgct 47 26.20 -1.1
0.6s 4.25nm
KAB 1.27 75 ePg 47 38.50 1.3
ARS 1.41 277 ePg 47 39.00 -0.3
TRG 1.46 43 iPd 47 42.00 2.0
ZAK 1.62 213 ePg 47 42.30 0.1
MOY 2.29 270 eP 47 53.00 1.2
ORL 3.09 286 ePg 48 07.30 3.9X
CIT 5.55 84 eP 48 36.00 -2.1
KMO 5.68 41 eP 48 40.10 0.2
YKA 61.95 19 eP 57 32.70 -1.4
0.7s 0.30nm 3.5mb
S.D. = 1.6 on 9 of 10 obs.

? APR 17, 1993 14h 23m 00.67± 1.19s
29.803 S ± 9.8km 26.698 E ± 12.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.9 (PRE).

BLF 0.82 327 iPc 23 18.30 1.1
FRS 1.20 272 eP 23 22.50 -0.9
SEK 1.68 29 iPc 23 30.30 -0.7
PRY 2.94 14 eP 23 55.00 5.9X
GRM 3.50 182 eP 23 57.40 0.5
KSR 3.93 3 e(P) 24 11.00 7.9X
SLR 4.29 19 e(P) 24 04.50 -3.7X

S.D. = 1.7 on 4 of 7 obs.

APR 17, 1993 14h 38m 41.62± 0.14s
18.816 S ± 3.8km 174.246 W ± 4.0km
DEPTH = 63.1km (12 depth phases)
5.3mb (55 obs.)

TONGA ISLANDS (173)
Mw 5.3 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 30C
Centroid Location:
Origin Time 14:38:47.4 0.6
Lat 18.59S 0.09 Lon 174.10W 0.08
Dep 42.2 7.9 Half-duration 1.1
Moment Tensor: Scale 10**17 Nm
Mrr= 0.06 0.04 Mtt= 0.00 0.07
Mff=-0.06 0.06 Mrt=-0.14 0.06
Mrf=-1.09 0.16 Mtf=-0.20 0.04
Principal Axes:
T Val= 1.09 Plg=46 Azm= 88
N 0.05 9 188
P -1.14 42 286
Best Double Couple: Mo=1.1*10**17
NP1:Strike= 86 Dip=10 Slip= 169
NP2: 187 88 81

SVA 6.96 275 iP 40 31.00 7.7X
BKM 16.67 271 iPc 42 41.00 8.3X
DZM 18.38 257 iPc 42 56.30 2.4
OUZ 19.57 211 P 43 09.70 2.5
WCZ 19.81 208 P 43 10.50 0.8
HBZ 19.82 198 eP 43 12.20 2.4
KUZ 19.92 204 P 43 12.70 1.8
0.6s 119.00nm 5.4mb
URZ 20.79 199 eP 43 18.60 -1.1
NOZ 20.84 197 eP 43 21.80 1.5
WLZ 20.96 203 eP 43 22.80 1.3
0.4s 36.00nm 5.1mb
TAZ 20.96 201 P 43 23.50 2.0
PATZ 21.18 201 P 43 24.40 0.6
PAHZ 21.35 199 P 43 25.40 -0.1
MAHZ 21.42 197 eP 43 29.50 3.4X
MOZ 21.81 204 P 43 32.00 2.0
0.6s 119.00nm 5.5mb
NGZ 22.12 201 P 43 32.40 -0.9
WAHZ 22.34 199 eP 43 34.00 -1.3
PGZ 23.21 199 P 43 45.20 1.5
AFR 23.28 91 iPd 43 43.10 -1.4
1.4s 0.34nm 2.6mb X
PAE 23.45 91 iPd 43 44.80 -1.4
1.4s 281.40nm 5.5mb
MNG 23.45 200 P 43 45.60 -0.5
PPT 23.47 91 iPd 43 45.20 -1.2
1.7s 870.50nm 5.9mb
PPN 23.61 91 iPd 43 46.30 -1.4
1.5s 374.00nm 5.6mb
TVO 23.75 92 iPd 43 47.90 -1.3
1.1s 886.90nm 6.1mb
MTW 23.94 199 P 43 51.30 0.5
CAW 24.03 200 P 43 51.50 -0.2
BLW 24.14 199 P 43 55.80 3.1X
MOW 24.25 199 P 43 54.70 0.8
MRW 24.26 201 P 43 53.60 -0.3
ORZ 24.70 205 P 43 58.70 0.6
THZ 25.36 203 P 44 04.00 -0.5
PMO 25.48 85 iPd 44 03.30 -2.4
1.2s 389.20nm 5.8mb
VAH 25.69 86 iPd 44 05.00 -2.6
1.0s 201.60nm 5.6mb
KHZ 25.71 201 P 44 07.50 -0.1
TPT 25.75 86 iPd 44 05.70 -2.5
1.1s 423.90nm 5.9mb
DSZ 25.77 205 P 44 07.30 -0.9
RUV 25.93 86 iPd 44 07.20 -2.6
0.9s 357.70nm 5.9mb
LTZ 26.48 203 P 44 13.30 -1.5
0.5s 29.00nm 5.1mb
WVZ 27.31 204 P 44 21.80 -0.4
8WZ 28.87 204 P 44 35.00 -1.3
TUZ 30.17 203 P 44 48.80 0.9
BRS 31.44 248 iPc 44 59.00 -0.3
0.8s 13.00nm 4.8mb
i(pP)c 45 05.00 21kmX
ARMA 32.98 243 iPc 45 12.70 -0.1
0.6s 37.00nm 5.4mb
e 48 25.40

RMQ	34.90	251	iPd	45	29.10	-0.2	KVN	77.89	41	eP	50	34.15	-0.4	NVL	90.55	182	eP	51	38.00	0.4	
	0.5s	42.00nm			5.6mb		TUC	79.17	50	ePc	50	42.18	0.6	PEL	90.68	125	iP+	51	40.80	1.7	
		i		48	02.70			0.7s	9.65nm			4.8mb		BRW	90.69	6	eP	51	40.30	2.3	
CAN	36.38	236	iPd	45	40.80	-0.9		epP	50	58.86	60km			HHC	90.75	313	P	51	40.00	0.9	
BWA	36.59	237	iPd	45	40.50	-3.0	SSE	79.39	308	P	50	42.00	-0.6		1.0s	37.00nm			5.7mb		
CTA	37.21	261	iPc	45	48.00	-0.8		1.0s	15.00nm			4.9mb		BTO	91.72	312	eP	51	45.10	1.5	
	1.0s	67.50nm			5.5mb		Z	20s	0.50um			4.9msz		INK	91.76	14	eP	51	44.00	1.0	
CMS	38.08	243	iPc	45	55.20	-0.8	CROR	79.85	35	P	50	45.90	1.0		0.9s	4.00nm			4.8mb		
	0.6s	47.00nm			5.6mb		SHW	79.96	34	(P)	50	45.53	0.0	KMI	91.77	296	Pd	51	46.00	1.7	
PMG	38.51	279	eP	46	01.00	1.3	ARUT	80.19	45	eP	50	46.73	-0.3		2.0s	50.00nm			5.6mb		
QLP	38.94	251	iPd	46	02.10	-1.2		pP	51	03.52	60km			YAK	91.90	337	iPd	51	42.50	-1.3	
		i		48	14.70		LMW	80.24	33	P	50	48.24	1.3		0.8s	73.00nm			6.2mb		
TOO	39.74	233	iPd	46	09.10	-0.7	ASR	80.27	34	P	50	48.32	1.2			e		55	52.00		
	0.8s	61.00nm			5.5mb		WPW	80.65	34	P	50	49.96	0.8			i		56	20.00		
MDG	41.23	284	eP	46	23.20	0.9	JBO	80.78	35	P	50	49.69	-0.1			e		58	11.00		
STK	41.71	243	iPd	46	25.40	-0.6	GSM	80.84	33	P	50	51.18	1.0	BDT	92.47	287	ePd	51	45.00	-2.3	
	0.6s	24.40nm			5.2mb		SVW	81.04	9	eP	50	50.43	-0.4		0.8s	26.00nm			5.7mb		
		ePcP		48	23.10			0.7s	8.51nm			4.8mb		CD2	92.90	302	eP	51	50.00	0.8	
		eS		52	14.30			e	51	09.19	68km		CHG	93.03	289	ePd	51	51.30	1.4		
BFD	41.90	235	eP	46	26.60	-0.9	PATW	81.08	35	P	50	52.80	1.5		1.2s	19.53nm			5.4mb		
ADE	44.52	239	eP	46	48.20	-0.7	MDJ	81.24	323	eP	50	51.70	-0.4	YKA	93.53	24	eP	51	50.30	-1.0	
WB2	48.35	260	iPc	47	17.30	-1.9	MCW	81.29	32	(P)	50	53.09	0.8		0.7s	1.50nm			4.5mb		
	0.4s	189.50nm			6.4mb X		EBG	81.30	34	P	50	54.70	2.2	LZH	94.59	306	eP	51	58.00	1.0	
		eS		54	06.80		PRW	81.33	35	P	50	53.59	1.0		1.5s	27.00nm			5.5mb		
WRA	48.36	260	P	47	17.50	-1.8	SLKM	81.40	12	eP	50	51.21	-1.5	Z	30s	0.53um			4.8mszX		
	0.8s	26.30nm			5.3mb		MSU	81.42	45	ePc	50	54.11	0.6			pP		52	17.50	70km	
ASPA	48.36	255	iPd	47	18.00	-1.3	RSW	81.50	35	P	50	54.86	1.3	OLY	95.06	54	eP	51	59.94	1.0	
	1.1s	128.50nm			5.8mb		MDW	81.54	35	P	50	54.87	1.2	GTA	98.67	309	eP	52	16.50	1.1	
Z	23s	0.30um			4.2mszX		NJ2	81.59	308	Pd	50	55.00	0.8		1.5s	8.00nm			5.0mb		
		i		47	38.40	83kmX	GBL	81.69	35	P	50	54.96	0.5	MBC	100.42	11	ePd	52	23.00	0.6	
		ePcP		48	45.10		CP2	81.73	11	eP	50	53.38	-1.2	RSNY	109.78	49	PKP	57	20.00	12.8X	
		iPcS		52	39.60		CRP	81.75	11	eP	50	53.06	-1.6	Z	21s	0.10um			4.3msz		
		eS		54	11.50			epP	51	10.93	65km		QUE	123.75	294	ePKP	57	36.00	1.4		
		eScS		57	09.80		ETW	81.86	34	P	50	55.96	0.5	KEV	127.43	351	ePKP	57	34.00	-6.2X	
MTN	52.72	268	eP	47	50.30	-2.2	WTV	82.12	34	P	50	57.26	0.5	MAIO	129.91	302	iPKPc	57	46.50	0.4	
	0.6s	192.00nm			6.3mb		PMS	82.21	12	eP	50	58.70	1.8	KAF	134.42	347	iPKP	57	53.00	-0.7	
FORT	53.21	245	eP	47	53.80	-2.1	SAW	82.41	34	P	50	58.76	0.5		0.4s	6.10nm					
WARB	54.72	251	iPd	48	05.00	-2.1	PMR	82.61	12	eP	50	57.76	-1.1	NUR	136.22	347	iPKP	57	58.20	1.1	
	0.5s	36.00nm			5.7mb			1.0s	16.45nm			5.0mb			0.4s	7.50nm					
COOL	59.14	245	eP	48	36.00	-2.4	TTA	82.73	8	eP	51	02.50	2.9X	OBN	136.86	334	ePKP	57	49.00	-9.5X	
MEEK	61.81	249	eP	48	54.20	-2.5	HVU	82.79	41	eP	51	00.87	0.4			e		58	21.00		
KLB	61.97	244	eP	48	55.40	-2.2	SRU	82.83	45	eP	51	00.81	0.0	N82	137.64	356	PKP	57	58.60	-1.3	
RKG	62.33	240	eP	48	59.00	-0.9	EMUT	83.00	44	eP	51	01.68	0.0		0.9s	3.20nm					
BAL	62.97	245	eP	49	02.00	-2.2	DAU	83.02	43	eP	51	02.57	0.7	HFS	138.34	354	ePKP	57	48.40	-12.8X	
MUN	63.24	243	eP	49	04.00	-2.0	DPW	83.15	34	eP	51	02.20	0.1		0.4s	1.60nm					
MRWA	63.76	246	eP	49	07.40	-2.1		pP	51	18.64	58km		NAI	143.54	240	iPKPd	58	14.00	1.9		
NANU	65.26	253	iPd	49	18.20	-1.0	LTX	83.18	56	ePc	51	02.30	-0.4		1.0s	3914.00nm					
	0.6s	44.00nm			5.6mb		KLU	83.18	13	eP	51	01.02	-0.9	DMU	143.64	13	ePKP	58	08.90	-1.8	
CSY	66.99	205	eP	49	30.40	0.9	CN2	83.19	321	P	51	02.60	0.4	DCN	144.09	13	ePKP	58	09.30	-2.2	
	0.5s	30.40nm			5.5mb			0.8s	15.00nm			5.0mb		DLF	144.29	13	ePKP	58	11.00	-0.8	
CHJJ	70.24	321	P	49	49.40	-0.7	Z	24s	0.39um			4.7mszX		QASM	144.44	289	PKP	58	11.70	-1.3	
ADK	70.43	358	eP	49	48.35	-2.4	SNY	83.26	318	P	51	03.40	0.8	ETA	144.92	13	ePKP	58	12.50	-0.4	
	0.7s	30.52nm			5.3mb			1.6s	43.00nm			5.2mb		ABHA	144.96	275	PKP	58	15.40	1.0	
OFUJ	70.83	325	eP	49	52.40	-1.2	KGM	83.49	274	eP	51	04.00	-0.4	ECB	145.11	13	ePKP	58	12.40	-0.8	
MAT	71.04	321	eP	49	54.00	-1.0	ALO	83.60	50	eP	51	05.19	0.4	HCG	145.76	10	ePKP	58	14.80	0.4	
	0.8s	14.93nm			5.0mb			1.2s	10.86nm			4.7mb		KVT	145.91	317	ePKP	58	16.00	0.9	
		eS		58	25.00			pP	51	21.80	59km		HTR	146.06	10	ePKP	58	15.80	0.9		
YAMJ	71.10	323	eP	49	54.20	-1.0	BALM	83.60	15	eP	51	03.26	-0.9	HAE	146.21	9	ePKP	58	16.30	1.2	
WKYJ	71.13	318	P	49	54.90	-0.7		pP	51	19.96	59km		HGH	146.56	10	ePKP	58	17.40	1.7		
SPA	71.30	180	iPd	49	57.80	1.5	MAW	84.32	199	P	51	10.00	2.4	OJC	146.72	343	ePKP	58	17.90	1.9	
	0.7s	17.58nm			5.1mb		WHN	84.35	305	eP	51	10.00	1.6	GAZ	146.96	310	iPKP	58	19.70	2.9X	
MTMJ	71.31	321	P	49	55.80	-0.9	TIA	84.80	311	eP	51	10.70	0.2	KSP	146.96	348	ePKP	58	16.80	0.4	
TSRJ	71.73	319	P	49	58.90	-0.2	BW06	85.34	42	eP	51	13.28	-0.1		1.0s	93.00nm					
TKSJ	71.98	317	eP	50	00.20	-0.4		0.7s	4.61nm			4.7mb		KAS	147.19	319	iPKPd	58	20.30	3.1X	
KUSJ	72.24	330	eP	50	00.70	-1.2		epP	51	30.01	59km		BRG	147.36	350	iPKPd	58	19.90	2.9X		
KAGJ	72.42	313	P	50	03.20	-0.1	LCCM	85.53	38	eP	51	14.30	0.1			i		58	40.00		
KKM	72.80	283	ePd	50	06.00	0.1	FBA	85.88	11	iPd	51	14.22	-1.1	SPC	147.53	342	ePKP	58	20.80	3.2X	
KUMJ	73.25	314	P	50	07.70	-0.4		0.6s	51.12nm			5.8mb		MOX	147.90	353	iPKPd	58	21.30	3.4X	
PIP	73.85	296	iPd	50	12.00	0.2	IMA	86.04	8	ePd	51	15.53	-0.7		1.3s	47.00nm					
ASAJ	74.00	329	eP	50	12.50	0.4		0.8s	7.06nm			4.8mb		BNS	147.90	358	iPKPd	58	21.60	3.7X	
BCH	74.31	44	eP	50	14.60	0.3		e	51	35.50	73km		VR1	147.92	332	ePKPd	58	21.50	3.4X		
		e		50	32.87	67km	IPM	86.48	276	ePd	51	20.10	0.7	UCC	148.07	2	PKP	58	22.00	3.9X	
ARN	74.71	41	eP	50	16.40	-0.1		0.7s	63.40nm			5.9mb		PRU	148.11	349	PKP	58	22.00	3.7X	
PEC	75.51	46	ePd	50	20.72	-0.4	BJI	87.23	314	eP	51	23.00	0.6		1.1s	16.50nm					
	0.8s	9.17nm			4.8mb			1.7s	82.00nm			5.6mb				e		58	42.00		
ISA	75.65	44	ePd	50	22.09	0.1	Z	24s	0.32um			4.6mszX		ENN	148.12	360	ePKP	58	22.00	3.8X	
	0.9s	16.32nm			5.0mb			87.71	278	eP	51	27.50	2.3		0.7s	20.50nm					
CMB	75.85	41																			

GRF	148.89	353	iPKPd	58	24.40	4.9X	VOY	152.04	348	iPKPd	58	30.80	6.3X	BCAO	89.29	275	iPd	01	25.00	16.3X			
Z	20s		0.10um			4.6msz				e	58	39.50			0.8s	14.00nm							
KHC	149.11	350	PKP	58	28.40	5.1X	CEY	152.21	347	ePKP	58	31.50	6.9X	MLR	89.30	316	eP	01	10.00	1.8			
			e	58	25.00		VDL	152.23	354	ePKPd	58	32.30	7.4X	WMOK	143.92	38	ePKPc	07	47.13	-0.3			
CMP	149.13	333	ePKPd	58	28.00	7.9X	VBY	152.24	346	ePKP	58	23.70	-0.9				e	08	02.94				
TNR	149.15	334	ePKPc	58	27.00	6.9X	ELL	152.27	315	ePKP	58	32.20	7.0X	MEO	144.01	38	iPKPd	07	47.40	-0.2			
WLF	149.22	359	iPKPd	58	25.29	5.3X	TRI	152.37	348	ePKP	58	31.70	6.9X	FVM	145.78	25	ePKP	07	53.38	2.9			
	1.4s	21.50nm					CTI	152.41	351	PKP	58	31.90	6.9X				e	08	18.59				
ZST	149.27	345	e(PKP)	58	25.20	5.1X	TCF	152.45	5	ePKP	58	25.70	0.7	BAO	146.31	227	iPKPc	07	52.00	-0.1			
SRO	149.32	343	iPKP	58	25.30	5.1X	TMA	152.66	355	iPKPd	58	32.80	7.3X				e	08	13.00				
GEC2	149.36	350	e(PKP)	58	25.20	4.8X	AGO	152.75	4	PKP	58	33.00	7.7X	MIAR	147.04	33	ePKP	07	56.40	3.8X			
	0.6s	10.50nm					DIX	152.78	357	ePKPd	58	34.10	8.4X	OLY	147.36	29	ePKP	07	57.44	4.4X			
GEC2	149.36	350	e(PKP)	58	30.60	10.2X	MMK	152.78	357	iPKPd	58	33.90	8.2X	GBTN	150.16	19	(PKP)	08	02.22	4.8X			
	1.0s	11.10nm					EMS	152.80	358	ePKPd	58	33.70	8.0X				S.D. = 1.4	on 17 of 23 obs.					
GEC2	149.36	350	ePKP	58	20.60	0.2	PLDF	152.86	3	PKP	58	33.60	8.0X				? APR 17, 1993	16h 19m	07.15± 7.16s				
	0.6s	10.80nm					VAI	152.91	355	PKP	58	32.90	7.4X				15.394 N ±60.4km	99.044 W ±21.9km					
			ed	58	25.20		CIN	152.96	318	ePKP	58	34.00	8.1X				DEPTH = 33.0km (normal)						
			e	58	27.60		PYM	153.04	4	PKP	58	34.06	8.2X				OFF COAST OF GUERRERO, MEXICO	(65)					
			e	58	43.00		EMON	153.09	21	iPKPc	58	39.00	13.0X	ACX	1.66	332	iP	19	35.00	0.6			
			e	58	45.00		STS	153.12	24	ePKP	58	33.20	7.2X				iS	19	55.50				
			e	58	47.30		RSL	153.19	359	PKP	58	34.56	8.4X	OXX	2.79	53	iP	19	50.50	-0.2			
			e	58	48.90		ORO	153.20	357	PKP	58	33.70	7.6X				(S)	20	20.00				
BUD	149.42	342	ePKP	58	24.00	3.6X	SKO	153.33	333	iPKPc	58	34.50	8.2X				(S)	19	53.20	-0.4			
BHL	149.42	305	PKP	58	25.00	4.0X				i	58	38.50		PPM	3.67	6	iP	20	04.00	0.5			
HRI	149.59	304	ePKP	58	21.20	0.0	VAY	153.36	331	ePKP	58	33.60	7.3X				(S)	20	45.00				
FLN	149.70	8	ePKP	58	21.30	0.6	LBL	153.58	4	PKP	58	35.62	9.0X	IIA	3.75	6	(P)	20	05.00	0.9			
	0.7s	7.30nm					SSB	153.59	2	PKP	58	35.42	8.8X				(S)	20	44.00				
EYL	149.86	321	ePKP	58	20.00	-1.4	BNI	153.83	359	PKP	58	36.60	9.5X	UNM	3.92	358	(P)	20	12.50	5.7X			
LANF	149.86	357	PKP	58	26.55	5.5X	BOB	153.94	354	PKP	58	35.60	8.4X	CRX	4.04	351	(P)	20	07.00	-1.5			
SOP	149.89	345	ePKP	58	26.70	5.6X	ERUA	154.07	22	ePKP	58	34.50	7.2X				(S)	20	58.00				
LDF	149.92	8	ePKP	58	21.70	0.6	ORH	154.32	333	iPKP	58	35.30	7.6X	MRX	4.75	335	iP	20	24.50	6.2X			
	0.7s	4.95nm					SURF	154.40	358	PKP	58	37.49	9.6X				(S)	21	13.00				
GRR	150.02	9	ePKP	58	22.00	0.8	BCAO	161.02	223	iPKPc	58	38.90	2.4				S.D. = 1.1	on 6 of 8 obs.					
	0.5s	4.45nm								0.5s	25.00nm						* APR 17, 1993	17h 06m	20.09± 0.88s				
BZS	150.21	337	ePKP	58	22.50	0.9				ic	59	20.00					10.194 N ±15.6km	62.156 W ± 7.2km					
FAM	150.24	308	e(PKP)	58	27.50	5.5X	LIC	163.66	139	PKP	58	39.70	0.6				DEPTH = 10.0km (geophysicist)						
LPF	150.34	9	ePKP	58	22.30	0.6	KIC	163.94	139	PKP	58	40.00	0.6				NEAR COAST OF VENEZUELA	(97)					
JVI	150.35	302	ePKP	58	22.90	0.6	TIC	163.99	138	PKP	58	40.10	0.7				MD 3.4 (TRN).						
UZD	150.35	342	ePKP	58	27.00	5.2X	LKO	165.66	128	PKP	58	41.26	0.4										
FUR	150.38	353	ePKP	58	27.90	6.1X				S.D. = 1.2	on 214 of 304 obs.						TCE	0.64	38	iP	06	31.88	-1.0
	0.8s	90.00nm																eS	06	40.41			
WLS	150.45	358	PKP	58	27.74	5.8X	? APR 17, 1993	14h 54m	28.61± 1.32s								TPP	0.70	80	eP	06	34.49	0.5
CDF	150.45	358	PKP	58	27.74	5.7X			39.148 N ± 9.6km									eS	06	48.17			
BHG	150.59	350	ePKP	58	28.00	5.9X			27.385 E ±19.9km									eP	06	35.45	-1.3		
ECH	150.65	358	PKP	58	28.00	5.8X			DEPTH = 10.0km (geophysicist)									eS	06	49.08			
AYN	150.66	296	PKP	58	29.10	6.3X	TURKEY			(366)								eP	06	41.62	0.7		
WAJH	150.66	290	PKP	58	29.00	6.1X			MD 2.7 (ISK).									eS	07	01.78			
VITF	150.67	360	PKP	58	28.59	6.3X												eP	06	49.84	0.2		
LIBD	150.70	357	PKP	58	28.25	6.0X	IZM	0.75	187	iPg	54	43.40	0.0	TPR	1.68	54	eP	06	14.56				
CSS	150.75	309	ePKP	58	28.50	5.7X				iSg	54	56.90						eS	07	14.56			
FEL	150.96	357	PKP	58	28.84	6.0X	DST	1.07	64	ePn	54	48.80	0.1	GRW	2.01	14	eP	06	55.68	1.1			
MOF	151.02	358	PKP	58	28.93	6.0X	EDC	1.25	17	ePn	54	52.00	0.1				eS	07	18.41				
SLE	151.04	356	ePKPd	58	29.00	6.2X	KCT	1.33	34	ePn	54	53.00	-0.2	SVB	3.18	16	eP	07	14.84	3.6X			
BSF	151.05	359	PKP	58	29.10	6.1X				S.D. = 0.2	on 4 of 4 obs.			SVV	3.24	16	eP	07	16.23	4.3X			
KBA	151.13	349	iPKPc	58	22.90	-0.3	? APR 17, 1993	15h 48m	22.64± 2.26s					OLLA	4.58	268	eP	07	32.40	1.3			
	0.5s	19.50nm							7.594 S ±28.5km					CEOS	6.20	260	eP	07	53.80	-0.2			
WATA	151.16	352	iPKPc	58	23.40	0.2			107.235 E ±26.8km					SDV	8.46	262	eP	08	24.50	-1.3			
			i	58	29.20				DEPTH = 108.0 ± 17.3 km								S.D. = 1.2	on 9 of 11 obs.					
MOTA	151.21	352	iPKPc	58	23.10	-0.2			4.6mb (5 obs.)					& APR 17, 1993	17h 26m	36.28s							
	0.9s	44.60nm					JAWA, INDONESIA			(277)						62.666 N	151.204 W						
			i	58	29.30		LEM	0.85	26	ePd	48	43.30	0.7				DEPTH = 86.2km						
			i	58	37.40					eS	49	02.00					CENTRAL ALASKA	(1)					
WTTA	151.22	352	iPKPc	58	23.50	0.2	KGM	10.31	338	eP	50	44.50	-4.6X				<AEIC>.						
	0.6s	71.70nm					IPM	13.59	333	eP	51	36.60	4.5X	SKT	0.70	193	iP	26	52.55	-0.2			
			i	58	29.70		WB2	29.00	118	iPd	54	12.90	-1.6				iS	27	05.14				
SQTA	151.32	352	iPKPc	58	23.80	0.4			0.5s	5.50nm				HUR	0.78	66	eP	26	53.55	0.8			
	0.6s	27.20nm					ASPA	30.15	125	iPd	54	24.10	-0.6				eS	27	07.02				
			i	58	29.70				0.5s	6.00nm							eS	27	07.02				
ZLA	151.33	356	ePKPd	58	29.80	6.5X	Z	23s	0.10um					TRF	0.89	28	eP	26	54.54	-0.4			
SRFA	151.33	296	PKP	58	31.20	7.4X								PWA	1.19	148	P	26	58.70	0.4			
MBH	151.38	298	ePKP	58	25.40	1.4	GBA	36.32	305	Pc	55	18.00	0.2				S	27	18.00				
PPCY	151.51	310	e(PKP)	58	30.30	6.4X	HYB	37.70	311	eP	55	29.00	-0.5	SUA	1.23	170	eP	26	59.20	0.3			
LOMF	151.53	358	PKP	58	30.47	6.8X				e	55	43.50		RND	1.30	54	eP	26	58.95	-0.9			
LOR	151.58	3	ePKP	58	24.50	0.8	STK	40.07	132	iPd	55	48.60	-0.4				eS	27	16.59				
	0.5s	2.75nm							0.6s	3.60nm				GHO	1.39	129	eP	27	01.32	0.3			
FVI	151.70	350	PKP	58	29.50	5.7X	GUN	40.89	331	P	55	54.60	-1.6	PLRM	1.45	137	eP	27	00.97	-0.6			
PTJ	151.70	345	ePKP	58	24.60	0.6	KKN	41.09	330	P	55	56.20	-1.4	PMR	1.45	137	eP	27	01.12	-0.5			
RBL	151.71	349	PKP	58	29.70	5.8X	GKN	41.59	329	P	56	00.20	-1.4	CRP	1.47	198	eP	27	00.53	-1.6			
SSF	151.77	3	ePKP	58	24.80	0.9	BRS	47.35	120	iPc	56	48.50	0.7	CPAM	1.48	198	eP	27	01.35	-0.8			
LBF	151.87	3	ePKP	58	25.00	0.9	YAK	71.56	11	iPc	59	33											

CKT	1.55	198	eP	27	24.04	-0.7
CKL	1.57	200	eP	27	02.83	-0.4
SML	1.60	121	eP	27	03.65	0.1
PMS	1.62	151	P	27	03.70	-0.2
SCM	2.00	113	eP	27	08.27	-0.7
PTE	2.08	149	eP	27	08.90	-1.1
DFR	2.20	199	eP	27	10.81	-0.9
SLKM	2.22	167	eP	27	11.39	-0.5
TTA	2.22	279	eP	27	06.65	-5.4
NCT	2.27	202	eP	27	11.91	-0.7
RDW	2.32	200	eP	27	13.05	-0.4
RS2	2.33	199	eP	27	13.89	0.3
RSO	2.33	199	eP	27	13.13	-0.5
RS1	2.34	199	eP	27	13.87	0.2
MPA	2.36	157	eP	27	12.42	-1.3
CCB	2.50	36	eP	27	14.11	-1.6
HDA	2.58	46	eP	27	15.66	-1.2
SVW	2.61	235	eP	27	15.41	-1.9
MDM	2.65	28	eP	27	16.32	-1.5
FBA	2.71	33	eP	27	16.52	-2.0
KLU	2.75	113	eP	27	17.78	-1.4
VLZ	2.77	122	eP	27	17.73	-1.7
GLM	2.88	34	eP	27	19.49	-1.5
CNPM	3.15	180	eP	27	24.38	-0.3
HIN	3.20	133	eP	27	23.16	-2.2
PDB	3.23	208	eP	27	24.65	-1.1
IMA	3.58	344 (P)		27	28.64	-2.1
GLB	3.69	106	P	27	28.00	-4.2

43 obs. associated

? APR 17, 1993 17h 52m 27.63±1.46s
 27.744 N ±26.6km 53.385 E ±10.8km
 DEPTH = 33.0km (normal)
 4.4mb (7 obs.)

SOUTHERN IRAN (353)

MAIO	9.98	30	eP	54	53.00	1.1
GEC2	37.04	316	ePd	59	34.60	-1.6
	0.5s	0.68nm			3.7mb	
			e	59	47.70	
			e	02	00.30	
GRF	38.85	316	iPd	59	50.90	-0.4
	1.0s	11.00nm			4.6mb	
SBF	40.05	306	eP	00	02.10	0.7
LPG	40.78	308	eP	00	08.50	0.8
LPL	40.80	309	eP	00	08.70	1.0
HFS	42.08	332	eP	00	13.80	-3.9X
	0.3s	5.30nm			4.7mb	
SMF	42.96	310	eP	00	25.00	-0.1
SSF	43.25	310	eP	00	27.30	-0.2
	1.1s	8.30nm			4.4mb	
AVF	43.31	310	eP	00	28.00	0.0
	1.3s	7.95nm			4.3mb	
NB2	43.59	332	P	00	26.20	-3.9X
	0.8s	5.60nm			4.4mb	
CAF	43.99	307	eP	00	35.30	1.7
TCF	44.03	309	eP	00	34.10	0.2
KMI	44.04	82	Pd	00	35.00	0.6
RJF	44.41	308	eP	00	38.10	1.1
LPO	44.60	307	eP	00	39.80	1.4
LFF	44.93	307	eP	00	42.40	1.3
MFF	45.68	309	eP	00	46.90	-0.1
LDF	45.87	312	eP	00	47.80	-0.7
FLN	46.13	312	eP	00	49.10	-1.4
GRR	46.34	312	eP	00	51.00	-1.2
LPF	46.42	311	eP	00	51.60	-1.2
MBC	76.16	358	eP	04	11.50	-2.0
IMA	84.21	11	eP	04	56.00	-0.9
YKA	89.56	354	eP	05	15.70	-7.1X
	1.1s	2.80nm			4.5mb	

S.D. = 1.1 on 22 of 25 obs.

? APR 17, 1993 17h 53m 53.60±1.58s
 23.472 S ±16.2km 179.511 W ±21.4km
 DEPTH = 500.0km (geophysicist)
 4.7mb (9 obs.)

SOUTH OF FIJI ISLANDS (171)

URZ	15.02	190	eP	57	03.80	-0.4
MNG	17.61	193	eP	57	29.40	-0.4
ORZ	18.56	199	eP	57	41.40	2.4
KHZ	19.76	195	eP	57	51.40	0.9
ARMA	26.59	249	eP	58	53.40	0.6
	0.5s	8.00nm			4.5mb	
RMQ	28.88	257	iPd	59	14.10	1.4

CNB	29.45	239	eP	59	18.40	0.7
CAN	29.74	239	iPd	59	20.10	-0.1
BWA	29.99	241	iPd	59	20.10	-2.3
CTA	31.92	269	iPd	59	41.00	2.1
	0.7s	20.55nm			4.8mb	
QLP	32.93	257	eP	59	47.80	0.6
TOO	33.06	237	iPc	59	48.30	0.0
	0.3s	13.00nm			4.9mb	
BFD	35.25	238	eP	00	05.30	-1.3
STK	35.30	248	iPd	00	07.40	0.3
	0.4s	2.60nm			4.1mb	
ASPA	42.55	260	iPd	01	06.40	0.3
	0.6s	21.40nm			4.9mb	
		eS	06	45.80		
WB2	42.87	266	iPc	01	08.90	0.2
	0.5s	59.70nm			5.4mb	
WRA	42.88	266	P	01	09.20	0.5
	0.7s	14.80nm			4.6mb	
WARB	48.66	255	eP	01	52.20	-1.0
KNA	49.11	269	iPd	01	57.50	0.8
COOL	52.79	248	eP	02	22.00	-1.5
KLB	55.56	247	eP	02	42.00	-1.1
BAL	56.61	248	eP	02	49.20	-1.1
MUN	56.81	246	eP	02	51.00	-0.7
MRWA	57.45	249	eP	02	55.00	-1.2
NANU	59.31	257	iPd	03	09.20	0.4
	0.4s	13.00nm			4.7mb	
HFS	142.21	349	ePKP	12	29.50	0.1
	0.4s	3.10nm				

S.D. = 1.1 on 26 of 26 obs.

? APR 17, 1993 18h 10m 11.70±4.76s
 20.387 S ±31.0km 168.478 E ±66.1km
 DEPTH = 33.0km (normal)
 4.2mb (3 obs.)

LOYALTY ISLANDS (188)

DZM	2.53	228	iPc	10	51.80	0.3
			iS	11	20.10	
PVC	2.64	357	iP	10	53.00	0.1
			iS	11	22.00	
BKM	2.71	355	iPc	10	54.00	0.1
			iS	11	24.00	
ARMA	18.19	233	eP	14	30.00	6.5X
CTA	20.85	267	eP	14	54.00	0.7
STK	26.64	239	eP	16	02.70	13.4X
	0.7s	3.30nm				
WB2	32.00	265	eP	16	36.30	-1.1
	0.6s	2.10nm			4.2mb	
WRA	32.02	265	P	16	37.20	-0.3
	0.5s	0.60nm			3.7mb	
ASPA	32.17	258	iPd	16	39.10	0.2
	0.6s	7.60nm			4.8mb	
		iPp	16	49.30	37kmX	
GEC2	145.15	330	ePKP	30	01.80	14.3X
	0.7s	0.88nm				
BCAO	146.74	246	ePKPd	30	06.70	15.7X
	0.6s	6.00nm				

S.D. = 0.7 on 7 of 11 obs.

? APR 17, 1993 18h 25m 18.71±1.33s
 39.028 N ±13.4km 22.048 E ±7.0km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

AGG	0.22	91	ePg	25	23.62	0.1
			eSg	25	28.86	
LIT	1.12	18	ePb	25	40.02	0.2
			eSb	25	58.30	
IGT	1.42	291	ePb	25	44.62	0.0
			eSb	26	04.98	
PAIG	1.55	54	ePb	25	46.34	0.0
FNA	1.83	344	iPb	25	50.42	0.0
			eSb	26	15.62	
OUR	1.98	48	ePn	25	52.30	-0.3

S.D. = 0.2 on 6 of 6 obs.

* APR 17, 1993 18h 37m 44.85±0.44s
 56.844 S ±11.7km 25.154 W ±15.3km
 DEPTH = 33.0km (normal)
 4.8mb (3 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA	16.73	153	e(P)	41	38.70	0.9
	0.7s	25.00nm			4.5mb	
NVL	20.97	146	eP	42	26.00	-1.0

SPA	33.34	180	iPc	44	21.50	-0.1
	0.6s	8.94nm			4.9mb	
PPD	39.71	320	eP	45	16.20	0.6
BAO	44.63	328	iPd	45	57.00	1.1
CCH	49.89	305	eP	46	36.00	-1.4
CNCB	51.23	303	iPc	46	48.00	0.2
LPB	51.53	303	iPc	46	49.80	-0.1
	0.9s	84.03nm			5.7mb X	
ZOBO	51.77	304	iPc	46	51.50	-0.5
	1.1s	145.01nm			5.9mb X	
BCAO	70.61	47	ePd	48	58.00	-0.7
	0.6s	6.00nm			4.8mb	
SDV	75.37	313	eP	49	26.80	-0.1
FRB	124.80	338	ePKP	56	41.50	0.4
YKA	137.52	317	ePKP	56	59.40	-6.1X
	0.8s	2.00nm				
MBC	145.17	335	ePKP	57	19.00	0.4
	0.6s	5.00nm				
SSE	145.26	123	PKPc	57	20.50	0.4
	1.0s	13.00nm				
INK	147.14	319	ePKP	57	25.50	3.5X
	0.9s	4.00nm				
BJI	149.85	107	ePKP	57	32.00	4.8X
FBA	151.90	310	ePKP	57	36.00	6.5X
		e		57	46.00	

S.D. = 0.8 on 14 of 18 obs.

? APR 17, 1993 20h 12m 03.91±0.88s
 37.077 N ±5.1km 9.788 W ±8.9km
 DEPTH = 10.0km (geophysicist)

PORTUGAL (376)

mblg 3.1 (MDD).

EVAL	2.48	77	eP	12	45.50	0.6
			eS	13	11.00	
EJIF	3.52	99	eP	13	01.10	1.3
			eS	13	40.00	
EPRU	3.65	90	eP	13	02.20	0.6
			eS	13	41.20	
EHOR	3.69	77	eP	13	02.00	-0.2
			eS	13	41.00	
EPLA	4.16	43	eP	13	08.70	-0.2
			eS	13	52.50	
AVE	4.24	152	iPn	13	11.50	1.5
			iSn	13	49.00	
ELUQ	4.43	82	eP	13	13.40	0.7
			eS	13	59.80	
PAB	4.94	58	ePn	14	10.00	50.0X
ECOG	4.97	86	eP	13	21.00	0.5
			eS	14	13.60	
EGUA	4.99	91	eP	13	20.90	0.3
			eS	14	14.10	
EZAM	5.13	9	eP	13	23.60	0.9
			eS	14	18.10	
GUD	5.66	49	eP	13	29.50	-0.7
			eS	14	27.90	
ERUA	5.69	20	eP	13	30.50	0.0
			eS	14	31.00	
EHUE	5.77	81	eP	13	31.00	-0.8
			eS	14	32.10	
STS	5.88	9	eP	13	34.10	1.0
			eS	14	36.20	
EVIA	5.97	73	eP	13	33.20	-1.4
			eS	14	36.50	
TIO	6.48	160	iPn	13	41.00	-0.9
			i	14	39.50	
			iSn	14	41.50	

17d 20h

ZOBO 4.45 74 iPc 31 55.10 -0.6
 CNCB 4.45 81 iPc 31 56.00 0.3
 CCH 6.15 89 P 32 22.50 3.4X
 ANT 6.44 162 eP 32 22.50 -0.1
 NNA 6.91 323 eP 32 29.50 0.2

0.7s 17.12nm 4.7mb X
 i 32 31.70
 eS 33 40.20

PPD 20.49 106 (P) 35 23.00 0.6
 BAO 23.63 89 eP 35 53.20 -0.4
 ALO 61.34 329 (P) 40 58.00 -0.5

0.9s 3.15nm 4.4mb
 pP 41 11.00 46kmX
 YKA 86.37 342 eP 43 23.00 0.3

0.8s 1.00nm 3.9mb
 GBA 150.86 93 PKP 50 38.00 9.7X
 S.D. = 0.5 on 9 of 11 obs.

APR 17, 1993 20h 32m 44.51±0.15s
 16.595 S ± 5.1km 177.397 W ± 4.3km
 DEPTH = 9.7km (10 depth phases)
 5.8mb (52 obs.) 6.0Msz (51 obs.)

FIJI ISLANDS REGION (181)

Mw 6.3 (GS), 6.3 (HRV).

FAULT PLANE SOLUTION: P-Waves

NP1:Strike=325 Dip=88 Slip=-173

NP2: 235 83 -2

Principal Axes:

T Plg= 4 Azm=100

P 6 190

Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined.

RADIATED ENERGY

No. of sta: 7 Focal mech. F

Energy 2.4±0.7*10**14 Nm

MOMENT TENSOR SOLUTION

Dep 13 No. of sta: 18

Moment Tensor: Scale 10**18 Nm

Mrr= 0.22 Mtt=-2.81

Mff= 2.59 Mrt=-0.35

Mrf= 0.51 Mtf= 0.21

Principal axes:

T Vol= 2.69 Plg=11 Azm=271

N 0.17 77 124

P -2.86 7 3

Best Double Couple:Mo=2.8*10**18

NP1:Strike= 47 Dip=77 Slip= 3

NP2: 317 87 167

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 40S, **C M.W.: 29S, 61C

Centroid Location:

Origin Time 20:32:52.4 0.1

Lat 16.40S 0.01 Lon 177.31W 0.01

Dep 15.0 FIX Half-duration 3.4

Moment Tensor: Scale 10**18 Nm

Mrr=-0.16 0.02 Mtt=-2.73 0.02

Mff= 2.88 0.02 Mrt= 0.11 0.06

Mrf= 0.27 0.07 Mtf= 0.31 0.02

Principal Axes:

T Vol= 2.93 Plg= 5 Azm=273

N -0.18 84 70

P -2.75 2 183

Best Double Couple:Mo=2.8*10**18

NP1:Strike=318 Dip=85 Slip= 178

NP2: 48 88 5

SVA 4.24 248 eP 33 48.30 -2.3

eS 34 34.50

DZM 16.19 248 iPc 36 34.10 0.2

RAR 17.29 108 eP 36 49.15 1.4

RAR 17.29 108 ePc 36 44.93 -2.8

OUZ 20.22 202 eP 37 24.00 1.5

WCZ 20.62 199 eP 37 27.80 1.1

KUZ 20.98 196 P 37 32.60 2.3X

WLZ 22.07 195 eP 37 42.60 1.2

1.0s 80.00nm 5.1mb

URZ 22.12 192 eP 37 40.70 -1.1

MOZ 22.88 196 eP 37 50.40 1.1

HNR 23.18 285 P 37 53.00 0.6

WAZ 23.66 192 eP 37 55.70 -1.3

SNZO 25.56 194 eP 38 12.68 -2.4

QRZ 25.67 198 eP 38 17.30 1.0

1.0s 186.00nm 5.7mb

PAE 26.60 96 iPd 38 23.90 -1.1

1.9s 569.70nm 5.9mb

TVO 26.91 97 iPd 38 27.10 -0.8

1.6s 766.20nm 6.1mb

LTZ 27.55 197 eP 38 31.00 -2.6

PMO 28.42 91 iPd 38 38.70 -2.9

2.3s 1457.00nm 6.4mb

VAH 28.65 92 iPd 38 40.50 -3.1

2.3s 851.10nm 6.1mb

TPT 28.69 91 iPd 38 41.20 -2.8

2.3s 1688.10nm 6.4mb

RUV 28.89 91 iPd 38 42.60 -3.2

2.3s 1407.90nm 6.3mb

ARMA 31.44 238 eP 39 09.80 1.2

0.7s 17.00nm 5.1mb

RAB 32.31 289 eP 39 15.00 -1.2

iS 44 36.00

RMO 32.90 247 iPd 39 20.80 -0.4

0.6s 41.00nm 5.5mb

RIV 33.04 233 eP 39 23.40 1.1

eS 44 32.00

CTA 34.63 259 iPc 39 34.00 -2.3

1.3s 264.42nm 6.0mb

eS 45 06.00

CTAO 34.63 259 ePc 39 34.26 -2.0

ec 39 36.66 8km

ed 39 39.31

iPP 40 52.14

eS 45 06.73

iSS 47 19.82

PMG 35.22 277 eP 39 41.00 -0.4

CAN 35.27 232 eP 39 41.60 0.0

BWA 35.37 233 eP 39 40.60 -1.9

CMS 36.52 239 eP 39 50.50 -1.7

1.1s 52.00nm 5.3mb

QLP 36.91 248 eP 39 54.00 -1.5

MDG 37.00 283 eP 40 03.30 0.2

TOO 38.75 230 iPd 40 11.00 0.1

0.9s 57.00nm 5.3mb

STK 40.12 240 eP 40 21.70 -0.6

1.7s 17.50nm 4.5mb X

HON 42.21 27 (P) 40 38.09 -1.4

Z 20s 14.33um 5.8Msz

KIP 42.29 27 Pd 40 42.59 2.5X

eS 47 08.03

eSS 50 05.49

ADE 43.16 236 eP 40 48.50 1.2

WB2 45.82 258 eP 41 03.00 -5.8X

0.9s 4.00nm 4.4mb X

i 41 07.70 16km

WRA 45.83 258 P 41 04.00 -4.9X

1.4s 3.30nm 4.1mb X

ASPA 46.09 253 iPc 41 08.10 -2.8

0.9s 138.00nm 6.0mb

Z 23s 63.90um 6.5MszX

e 44 51.80

eS 47 56.20

eScS 51 11.10

GUA 47.78 307 eP 41 23.20 -1.1

1.5s 422.22nm 6.3mb

Z 20s 9.90um 5.8Msz

GUMO 47.85 307 ePc 41 22.95 -1.8

1.4s 204.10nm 6.0mb

ec 41 25.02 7km

ed 41 27.91

eS 48 13.81

PJG 47.85 307 eP 41 25.00 0.2

MTN 49.82 267 eP 41 38.00 -2.0

WARB 52.64 250 eP 41 59.00 -2.3

DRV 57.21 199 eP 42 35.30 1.3

S 50 20.00

DAV 61.11 288 eP- 43 01.00 -0.7

CTB 62.41 288 ePc 43 10.00 -0.4

PLP 63.30 292 ePd 43 15.00 -1.3

MAJO 67.45 322 (P) 43 41.77 -1.0

ec 43 44.17 8km

iS 52 39.58

MAT 67.45 322 eP 43 40.00 -2.7

1.7s 165.38nm 5.9mb

Z 20s 3.55um 5.6Msz

eS 52 34.00

WKYJ 67.49 319 eP 43 43.40 0.3

WKYJ 67.49 319 P 43 43.60 0.5

CSY 67.73 205 eP 43 44.50 0.4

0.7s 39.50nm 5.7mb

TGY 68.11 293 ePc 43 46.00 -1.3

ADK 68.19 0 e(P) 43 48.70 1.8

QVP 68.27 294 eP 43 49.00 0.8

TKSJ 68.32 318 eP 43 37.20 -11.0X

KAGJ 68.72 314 eP 43 52.10 1.3

CVP 68.88 297 ePc 43 53.60 1.6

KKM 69.37 283 ePc 43 53.50 -1.7

1.3s 152.20nm 6.0mb

BAG 69.39 295 eP+ 43 53.00 -2.3

eS 53 07.00

SMY 69.43 354 P 44 00.00 5.4X

Z 20s 46.35um 6.7Msz

YONJ 69.45 319 eP 43 55.80 0.6

KUMJ 69.56 315 eP 43 53.70 -2.2

ASAJ 70.58 331 eP 44 03.40 1.5

TATO 72.47 304 (P) 44 12.19 -1.4

ed 44 16.16 13km

YSS 72.76 333 (P) 44 12.41 -2.4

SPA 73.51 180 iPd 44 19.20 0.0

0.9s 60.45nm 5.7mb

Z 20s 7.12um 5.9Msz

i 45 15.40 239kmX

i 08 00.50

QZH 74.79 302 eP 44 27.50 0.4

Z 30s 4.52um 5.6MszX

N 16s 2.40um

SAO 74.81 44 P 44 40.00 13.0X

Z 19s 7.78um 6.0Msz

BCH 74.85 46 eP 44 26.34 -1.1

SSE 75.66 309 ePc 44 31.98 0.0

2.0s 140.00nm 5.7mb

Z 22s 4.10um 5.7Msz

N 20s 2.90um

E 20s 2.40um

SSE 75.66 309 Pc 44 33.97 6km

2.0s 140.00nm 5.7mb

Z 22s 4.10um 5.7Msz

N 20s 2.90um

E 20s 2.40um

ISA 76.21 46 eP 44 33.20 -1.9

1.8s 76.40nm 5.5mb

Z 20s 6.85um 6.0Msz

CMB 76.23 43 ePc 44 36.33 1.2

1.7s 63.08nm 5.4mb

Z 19s 4.22um 5.8Msz

iS 54 23.05

eSS 58 57.82

WDC 76.32 40 P 44 40.00 4.5X

Z 19s 11.63um 6.2Msz

ORV 76.37 41 eP 44 35.23 -0.6

PFO 76.57 49 (P) 44 39.30 2.1X

iS 54 26.37

eSS 59 14.12

LBFM 77.17 40 eP 44 39.69 -0.8

GSC 77.18 47 eP 44 39.56 -1.0

HKC 77.33 298 eP 44 44.00 2.5X

eS 54 39.00

BONR 77.56 44 eP 44 42.66 -0.2

MDJ 77.68 324 eP 44 42.10 -0.9

2.0s 230.00nm 5.9mb

Z 20s 5.66um 5.9Msz

N 14s 2.35um

E 14s 1.43um

SNY	79.62	319	Pd	44	53.20	-0.4	N 19s	1.18um	IRK	95.99	323	ePc+	46	13.20	0.2								
	1.8s	300.00nm	6.0mb	E 19s	2.06um	2.2s		37.00nm		5.5mb													
	Z 22s	3.93um	5.7MsZ			Z 20s		2.54um		5.7MsZ													
	N 13s	1.20um				N 20s		0.75um															
			SS	00	00.00							1.89um											
QIZ	79.81	293	eP	44	55.00	-0.1	GOL	87.27	47	eP	45	34.02	0.9	e	46	25.80	41kmX						
E 25s	8.07um													e	46	31.00							
SLKM	79.90	13	(P)	44	53.76	-1.0			2.0s	78.64nm	5.6mb			e	48	24.00							
TUC	80.14	52	eP	44	56.47	-0.3		Z 18s	5.34um	6.0MsZ				e	49	26.00							
	1.8s	97.37nm	5.5mb	BTO	88.02	313	P	45	37.00	0.5			eSKS	56	53.00								
Z 20s	7.32um	6.0MsZ				1.8s	240.00nm	6.2mb			eS	57	34.00										
CRP	80.18	12	eP		44	54.08	-2.4	N 18s	1.88um				e	58	04.00								
VGB	80.26	37	eP		44	57.59	0.5	E 17s	2.05um				ePS	58	50.00								
KGM	80.31	275	ePc	44	58.00	0.0		eSKS	56	04.50			ePPS	59	54.00								
GMW	80.36	34	eP	44	58.17	0.6		S	56	20.00			e	01	04.00								
WHN	80.62	306	eP	44	58.00	-1.2		eSS	02	06.50			eSS	03	34.00								
	1.7s	1210.00nm	6.6mb	KMI	88.10	297	ePc	45	37.53	0.2			eSSS	06	43.00								
Z 24s	4.71um	5.8MsZ				2.0s	250.00nm	6.2mb			e	08	00.00										
N 16s	1.50um					Z 22s	8.10um	6.1MsZ			e	09	34.00										
E 16s	1.15um					N 15s	1.00um				e	11	00.00										
PGC	80.69	33	eP	44	58.50	-0.6	E 17s	2.00um				LR	18	49.00									
PMS	80.70	13	e(P)	45	00.20	1.1		ec	45	39.60	6km		OLY	96.23	55	eP	46	14.79	0.3				
	2.5s	361.10nm	5.9mb				S	56	13.00				CCM	97.09	53	eP	46	17.01	-1.3				
TIA	81.09	312	eP	45	01.00	-0.6		sS	56	29.00			ULM	97.29	40	eP	46	23.50	4.6X				
	Z 27s	5.07um	5.7MsZ	YAK	88.70	338	eP	45	37.00	-2.1			FVM	97.70	53	P	46	16.34	-4.7X				
N 15s	1.97um					1.8s	77.00nm	5.7mb			Z 19s	24.51um	6.7MsZ										
	pP	45	06.00		16km							e	47	17.13	250kmX								
PMR	81.11	13	(P)		44	59.71	-1.4	Z 18s	3.40um	5.8MsZ			e	49	03.62								
	Z 20s	6.47um	6.0MsZ				N 19s	2.90um				e	58	37.94									
SIT	81.30	22	(P)	45	10.34	8.1X	E 18s	2.40um					SLM	98.01	52	P	46	30.00	7.6X				
	Z 19s	16.84um	6.4MsZ					ePP	48	20.00			Z 19s			4.10um	5.9MsZ						
MSU	82.00	46	eP	45	06.00	-0.6		ePPP	50	00.00			MBC	98.86	12	eP	46	26.50	1.0				
DUG	82.37	44	eP	45	07.78	-0.6		eS	56	12.00			LSA	99.27	298	ePDI	46	30.77	1.9				
	1.2s	11.59nm	4.9mb				eScS	56	19.00				Z 30s			4.68um	5.8MsZ						
	Z 20s	3.92um	5.8MsZ				ePS	56	36.00							ePP	50	24.98					
DPW	83.06	36	eP	45	10.73	-1.0		eSS	01	16.00			GOGA	102.15	59	Pd	46	44.55	3.3X				
HVU	83.17	43	eP	45	11.73	-0.8		eSSS	08	34.00			Z 21s			4.49um	5.9MsZ						
IPM	83.25	277	ePc	45	13.10	-0.2	BDT	88.94	288	eP	45	38.00	-3.1				e	49	08.46				
SRU	83.41	46	eP	45	12.67	-1.2	CD2	89.18	303	eP	45	44.80	2.7X				e	51	48.20				
EMUT	83.54	45	eP	45	15.60	1.0		2.0s	310.00nm	6.2mb						e	59	59.70					
BJI	83.54	315	ePc	45	13.25	-0.9		Z 24s	4.46um	5.8MsZ						e	05	43.75					
	2.0s	500.00nm	6.4mb				N 15s	2.64um					WMQ	104.79	312	Pd	46	54.20	1.3				
	Z 24s	3.82um	5.7MsZ	CHG	89.47	290	ePc	45	45.00	1.3			MCWV	106.12	53	PKP	51	20.00	9.1X				
N 18s	2.42um					2.0s	180.88nm	6.0mb			Z 18s	4.06um	6.0MsZ										
	ePP	48	32.00									e	51	24.00	13.0X								
PV09	84.11	47	eP		45	16.70	-0.8		eS	56	17.90			CEH	106.15	57	PKP	51	24.00	13.0X			
	pP	45	20.20	11km				iSKS	56	18.19			Z 21s			4.10um	5.9MsZ						
IMA	84.32	9	eP	45	15.45	-2.3	CHTO	89.47	290	ePc	45	43.01	-0.6	CEH	106.15	57	(PKP)	51	09.20	-1.8			
	2.4s	221.42nm	6.0mb					ec	45	45.00	6km		Z 21s			4.10um	5.9MsZ						
COL	84.32	12	eP	45	16.97	-0.7		iS	56	41.85			HYB	107.86	283	ePKP	51	14.50	-0.3				
FBA	84.32	12	eP	45	15.17	-2.5		iS	56	41.85			RSNY	110.56	48	(PKP)	51	25.91	6.8X				
	1.8s	155.62nm	5.9mb				RSSD	89.95	44	eP	45	44.17	-1.5										
AIA	84.33	157	e(P)	45	19.00	1.2		2.0s	94.25nm	5.7mb			NDI	111.04	295	e(PKP)	51	07.00	-13.5X				
ENH	84.34	304	ePc	45	17.79	-0.7		Z 20s	4.91um	5.9MsZ			HRV	112.62	50	(PKP)	51	24.26	1.2				
	iSKS	55	45.23					1.4s	17.52nm	5.1mb			Z 22s			6.27um	6.2MsZ						
	eS	55	47.30					Z 18s	8.98um	6.2MsZ			KSH	113.08	306	PKP	51	21.00	-3.2X				
SNG	84.41	279	eP	45	20.50	1.4	INK	90.37	15	eP	45	48.00	1.2										
	eS	55	51.50				LZH	90.86	307	eP	45	51.66	1.7										
ALQ	84.52	51	eP	45	18.77	-0.8		1.8s	150.00nm	6.0mb						pP	51	33.00					
	1.7s	68.69nm	5.6mb					pP	46	02.00	32kmX		CBM	115.06	46	(PKP)	51	28.25	0.6				
Z 21s	7.43um	6.0MsZ						sP	46	05.50			Z 18s			8.81um	6.4MsZ						
ANMO	84.53	51	(P)	45	18.51	-1.0	NVL	92.63	183	eP	45	56.00	-1.4				ePP	51	39.50	1.5			
	iS	55	51.29					Z 17s	11.50um	6.4MsZ			QUE	120.09	296	ePKP	51	38.25					
	eSP	56	38.05					N 17s	9.00um				LBTB	132.96	209	(Pd	48	56.14	-2.6				
TIY	85.12	312	eP	45	21.40	-0.9		E 17s	2.50um				OBN	133.56	334	ePKPd	52	02.00	-0.7				
	Z 23s	7.91um	6.0MsZ						e	46	12.00	55kmX				1.8s	144.00nm						
	N 22s	6.44um							ePP	49	32.00					Z 20s	7.10um	6.4MsZ					
		SS	01	28.00					e	50	46.00					N 20s	4.40um						
GYA	85.24	299	P	45	23.00	-0.2			ePPP	51	36.00					E 20s	1.10um						
	1.4s	57.00nm	5.6mb					eSKS	56	23.00							e	52	40.00				
	Z 36s	6.07um	5.7MsZ					eS	56	56.00							ePP	54	27.00				
	N 20s	3.63um						ePS	58	10.00							iPKS	55	36.00				
	E 20s	2.90um						eSS	03	34.00							ePPP	57	00.00				
		S	55	54.00				eSSS	07	07.00							(SKS)	58	50.00				
LCCM	85.71	40	eP	45	23.90	-1.3	YKA	92.74	24	eP	45	57.70	-0.1				eSKKS	01	30.00				
BW06	85.74	43	eP	45	23.90	-1.6		1.5s	8.70nm	4.9mb							(PKKS)	05	48.00				
	2.9s	259.25nm	5.9mb				MIAR	94.30	55	(P)	46	06.53	0.9				ePPS	06	28.00				
HIA	85.87	324	(P)	45	24.37	-1.3		Z 18s	4.06um	5.9MsZ							ISS	12	10.00				
XAN	86.24	307	ePc	45	26.77	-1.2	GTA	94.95	310	eP	46	08.00	-0.7				eP*SKS	17	06.00				
	2.0s	240.00nm	6.0mb					2.0s	67.00nm	5.7mb							LO	29	30.00				
	Z 20s	4.61um	5.9MsZ					Z 26s	6.22um	6.0MsZ							LR	39	35.00				
	N 18s	2.04um						E 18s	2.44um								TAB	136.16	308	ePKP	52	10.00	1.6
		pP	45	36.50	31kmX				pP	46	16.50	27kmX		KONO	136.71	355	(PKP)	52	06.38	-2.2			
LOE	86.51	289	eP	45	32.00	2.5X			sP	46	21.00			NAI	141.87	246	ePKP	52	18.00	-1.7			
HHC	87.05	314	Pd	45	32.20	0.4			SKS	56	44.00			Z 24s			2.98um	6.0MsZ					
	1.8s	250.00nm	6.1mb						eS	57	24.00			GAZ	143.24	311	iPKP	52	19.00	-2.0			
	Z 30s	4.20um	5.7MsZ						SS	03	50.00			BRNL	143.25	349	ePKPc	52	21.50	1.0			

17d	20h																			
KSP	144.11	345	ePKP	52	19.20	-2.9	ITU	146.60	322	iPKPd	52	32.00	5.4X							
SPC	144.46	340	ePKP	52	18.80	-4.2X	JVI	146.63	303	ePKP	52	27.00	0.0	VVI	149.57	346	PKP	52	36.84	5.7X
DBN	144.52	357	ePKP	52	43.00	20.3X	WLF	146.89	356	iPKPc	52	28.64	1.9	SRS	149.58	328	ePKP	52	35.88	4.6X
	Z	20s	2.50um			6.0Msz			e	55	22.60		SSF	149.61	359	ePKP	52	32.20	1.0	
			ePP	55	28.00		CTT	146.92	323	ePKP	52	29.80	2.7X		1.9s	525.40nm				
WTS	144.52	356	ePKP	52	21.00	-1.7	BZS	146.98	335	ePKP	52	26.50	-0.5	VDL	149.65	351	ePKPc	52	33.10	1.6
	2.0s	344.40nm					AYN	146.98	298	ePKP	52	28.00	0.5	LBF	149.68	358	ePKP	52	32.10	0.8
VR1	144.54	331	ePKP	52	22.00	-1.0	SHWJ	146.99	301	PKP	52	27.80	0.0		2.0s	389.50nm				
BRG	144.61	348	iPKPd	52	21.30	-1.7	CSS	147.02	310	ePKP	52	28.50	1.0	CTI	149.68	347	PKP	52	32.80	1.4
	2.6s	200.00nm					TIM	147.04	336	iPKPd	52	30.00	2.9X	PLE	149.76	335	iPKPc	52	32.89	1.2
	Z	18s	5.00um			6.3Msz	WAJH	147.06	293	ePKP	52	28.30	0.6	AVF	149.89	359	ePKP	52	32.50	0.9
	N	20s	3.00um				PVL	147.16	329	iPKPc	52	29.00	1.6		2.1s	291.40nm				
	E	20s	2.00um				KMR	147.22	346	iPKP-	52	29.50	2.1X	KNT	149.90	329	ePKP	52	37.00	5.2X
			e	52	48.00				i	52	32.40		IVA	149.94	334	iPKPc	52	33.57	1.7	
ANTO	145.00	318	ePKP	52	32.80	8.7X	UZD	147.27	339	ePKP	52	28.00	0.5	VAY	149.94	329	iPKP	52	32.30	0.5
ISR	145.16	330	ePKP	52	23.00	-1.2	LANF	147.42	354	PKP	52	28.74	1.1			i	52	36.60		
MLR	145.19	331	ePKP	52	22.00	-2.3	HQL	147.68	299	ePKP	52	30.00	1.3	OUR	149.94	326	ePKP	52	37.48	5.6X
MOX	145.27	350	iPKPc	52	22.80	-1.3	SAGI	147.73	301	ePKP	52	29.50	0.7	SKO	149.98	331	iPKPc	52	33.20	1.3
	2.1s	184.00nm					BCK	147.75	316	ePKP	52	28.50	-0.2		1.8s	416.00nm				
	Z	20s	3.20um			6.1Msz	PCPY	147.78	310	e(PKP)	52	31.00	2.3X		Z	20s	5.20um			6.3Msz
			e	53	18.30		FLN	147.82	4	ePKP	52	26.80	-1.5			i	52	37.80		
PRU	145.32	346	PKPd	52	22.50	-1.7		1.7s	204.40nm							i	53	44.50		
	2.0s	372.40nm					Z	21s	7.97um			6.5Msz				i	54	36.40		
	Z	28s	7.40um			6.3MszX	STR	147.82	354	PKP	52	28.99	0.7	MFF	149.99	4	ePKP	52	32.70	1.0
	N	26s	4.50um				BHG	147.82	347	iPKPc	52	31.60	3.2X		2.0s	404.65nm				
	E	23s	1.90um				KHL	147.97	318	ePKP	52	31.00	2.0	SMF	150.02	358	ePKP	52		

CRE	151.91	345	PKP	52	36.00	1.1	40.778 N \pm 6.3km	28.655 E \pm 4.9km	PKI	90.23	298	P	43	45.40	-0.3				
FIR	151.93	347	ePKP	52	37.00	2.3X	DEPTH = 10.0km	(geophysicist)	KKN	90.40	299	P	43	45.40	-1.0				
EMON	151.94	15	ePKP	52	30.70	-4.1X	TURKEY	(366)	DMN	90.50	298	P	43	46.40	-0.5				
LPO	151.97	2	ePKP	52	37.60	2.8X	MD 2.7 (ISK).		WMQ	93.34	314	P	44	00.00	0.6				
	1.9s	202.30nm							YKA	97.92	27	eP	44	18.30	-1.4				
SURF	151.97	354	PKP	52	37.48	2.4X	CTT	0.41 335 iPg	39	59.80	0.3		0.7s	0.60nm	4.2mb				
STS	152.12	18	iPKPd	52	38.00	3.0X	ISK	0.42 47 iPg	39	59.30	-0.4	KAF	125.84	339	ePKP	49	43.50	-2.0	
ASS	152.25	344	PKP	52	33.50	-1.8		iSg	40	04.30		NB2	131.25	345	PKP	49	55.40	-0.5	
SAOF	152.37	352	PKP	52	37.10	1.7	YLV	0.59 111 iPg	40	03.30	0.2		0.7s	2.60nm					
AUTN	152.38	352	PKP	52	37.71	2.0		iSg	40	11.80		CLL	138.70	336	e(PKP)	50	12.00	1.9	
TOUF	152.39	353	PKP	52	39.90	4.2X	EDC	0.74 235 iPg	40	05.50	-0.2	GEC2	140.29	333	ePKPc	50	13.00	-0.3	
IGT	152.41	329	ePKP	52	43.40	7.8X	HRT	0.77 86 iPg	40	06.30	0.1		0.7s	1.29nm					
AURF	152.50	353	PKP	52	37.58	1.9		eSg	40	16.80				e	50	18.80			
SBF	152.51	352	PKP	52	37.71	2.1X	EYL	1.16 100 ePn	40	13.00	0.0			e	50	25.60			
CALN	152.69	353	PKP	52	39.66	3.6X	DMK	1.24 327 ePn	40	14.20	0.0	SKO	140.56	319	e(PKP)	50	13.70	-0.1	
AQU	152.71	342	PKP	52	39.30	3.3X	S.D. = 0.3	on 7 of 7 obs.				GRF	140.67	336	ePKP	50	10.90	-2.9	
FRF	152.90	354	ePKP	52	39.50	3.4X						LANF	142.55	338	PKP	50	15.59	-1.6	
	1.8s	160.55nm					% APR 17, 1993	21h 52m 03.12 \pm 1.04s				CDF	143.22	338	ePKP	50	15.10	-3.3X	
DUI	153.02	340	PKP	52	45.40	8.9X	39.337 N \pm 6.2km	16.308 E \pm 16.8km					0.8s	7.80nm					
DUI	153.02	340	PKP	52	56.22	19.8X	DEPTH = 10.0km	(geophysicist)				CTI	143.31	332	PKP	50	15.50	-3.2X	
LRG	153.04	354	ePKP	52	40.00	3.7X	SOUTHERN ITALY	(390)				OSS	143.49	334	ePKPc	50	16.90	-2.1	
	2.0s	1994.75nm										LLS	143.82	335	ePKPc	50	17.80	-1.8	
LMR	153.14	354	ePKP	52	40.10	3.7X	TDS	0.32 4 P	52	09.50	-0.3	VITF	143.84	339	PKP	50	17.20	-2.2	
	1.7s	116.15nm						eSg	52	15.30		BSF	143.88	338	ePKP	50	17.10	-2.5	
SDI	153.18	341	PKP	52	37.60	1.0	ORI	0.73 8 P	52	17.80	0.3		0.8s	8.85nm					
RMP	153.41	343	PKP	52	47.02	10.1X	MGR	0.99 324 P	52	21.90	0.0	HAU	143.89	338	iPKPc	50	17.40	-2.1	
RDP	153.46	343	PKP	52	47.60	10.6X		eSg	52	35.40			0.8s	16.40nm					
RFI	153.49	341	PKP	52	48.49	11.5X	SOI	1.28 189 P	52	26.80	0.0	VDL	143.93	334	ePKPc	50	17.90	-1.9	
PGF	153.56	349	ePKP	52	40.70	3.5X	SGO	1.44 328 P	52	29.20	0.0	LOMF	144.27	337	PKP	50	18.75	-1.5	
	1.9s	237.55nm					S.D. = 0.3	on 5 of 5 obs.				TMA	144.48	334	iPKPc	50	19.50	-1.2	
EPF	153.58	4	ePKP	52	41.20	4.0X	* APR 17, 1993	22h 30m 57.01 \pm 1.59s				ARV	144.53	327	PKPc	50	20.00	-0.7	
	2.1s	94.00nm					15.307 S \pm 13.0km	167.571 E \pm 10.7km				VAI	144.72	334	PKPc	50	19.80	-1.0	
SGO	153.70	338	PKP	52	46.40	9.1X	DEPTH = 122.1 \pm 14.8 km				SFI	144.78	329	PKP	50	21.20	0.2		
ECRI	153.71	9	ePKP	52	40.50	3.1X	4.7mb (15 obs.)				PGD	144.88	329	PKPc	50	21.50	0.0		
TDS	154.09	335	PKP	52	39.80	1.9	VANUATU ISLANDS	(186)			MMK	144.90	335	iPKPc	50	21.50	0.0		
EGRA	154.36	5	ePKP	52	38.00	-0.1					TDS	145.06	320	PKP	50	21.50	-0.2		
GRI	154.77	334	PKP	52	56.88	18.0X	BKM	2.43 165 iP	31	36.20	-0.4	DIX	145.10	336	iPKPc	50	22.20	0.3	
GUD	155.33	12	ePKP	52	42.80	3.1X		iS	32	04.00		FLN	145.22	346	iPKPc	50	21.40	-0.3	
ETOR	155.53	9	ePKP	52	38.20	-1.7	PVC	2.52 164 iP	31	39.50	1.8		0.7s	45.40nm					
PAB	156.34	13	(PKP)	52	41.07	0.0		iS	32	10.00		ORO	145.24	335	PKP	50	21.20	-0.8	
GIO	156.37	335	PKP	52	57.02	16.0X	DZM	6.81 189 iPd	32	33.80	-2.1	BOB	145.29	332	PKP	50	22.20	0.2	
BCAO	160.24	234	iPKPc	52	47.20	1.0		iS	33	51.10		BBI	145.29	330	PKP	50	20.90	-1.1	
	1.0s	50.00nm					BRS	18.27 226 iPd	35	05.10	1.1	LDF	145.30	346	iPKPc	50	21.80	0.0	
LIC	167.27	143	PKP	52	53.90	1.3	RMQ	20.77 235 iPc	35	30.60	0.5		0.7s	33.40nm					
	Z 20s	4.50um						0.6s	44.00nm	5.0mb	EMS	145.30	336	ePKPc	50	22.40	0.2		
KIC	167.55	144	PKP	52	53.70	0.9					LOR	145.38	340	iPKPc	50	22.50	0.5		
TIC	167.61	142	PKP	52	54.10	1.2	CTA	20.85 254 iP	35	32.00	1.1		1.0s	43.80nm					
LKO	169.38	130	PKP	52	55.32	1.4	ARMA	20.99 221 eP	35	37.10	4.8X	LBF	145.59	340	ePKP	50	23.40	1.0	
	S.D. = 1.4	on 282 of 384 obs.						1.0s	26.00nm	4.6mb		1.1s	60.30nm						
* APR 17, 1993	20h 33m 11.40 \pm 0.65s						BWA	25.69 219 eP	36	15.10	-2.3	GRR	145.66	346	iPKPc	50	23.20	0.8	
26.426 S \pm 6.0km	27.342 E \pm 8.2km							i	36	45.20			0.6s	27.05nm					
DEPTH = 5.0km	(geophysicist)						CAN	25.97 216 e(P)	36	21.90	1.9	SSF	145.67	341	iPKPc	50	23.50	1.0	
REPUBLIC OF SOUTH AFRICA	(584)							e	36	48.70			0.6s	23.25nm					
ML 3.5 (PRE). mbLg 3.3 (BUL).							STK	28.85 231 eP	36	46.30	0.2	RSL	145.74	336	PKP	50	23.49	0.6	
								0.6s	2.30nm	4.0mb	HYF	145.76	342	iPKPc	50	23.90	1.3		
PRY	0.51	167	eP	33	21.50	-0.2	WB2	31.96 257 eP	36	59.10	-14.4X	LPL	145.84	336	ePKP	50	24.40	1.3	
		S	33	28.00				0.6s	1.40nm				0.6s	9.40nm					
BFS	0.68	227	eP	33	26.30	1.2			e	37	11.40	LPG	145.84	336	iPKPc	50	24.50	1.3	
		S	33	27.80			WRA	31.97 257 P	37	12.40	-1.2		0.6s	11.80nm					
KSR	0.69	324	eP	33	24.20	-1.0		0.4s	0.80nm	3.8mb	SMF	145.93	340	ePKP	50	24.00	1.0		
		S	33	31.00			ASPA	32.75 250 iPc	37	18.70	-1.7		0.8s	22.45nm					
SLR	1.09	51	iPd	33	32.60	0.1		1.0s	10.60nm	4.6mb	AVF	145.96	340	ePKP	50	23.90	0.9		
		S	33	45.00			MAT	58.55 332 eP	40	42.00	-1.0		0.6s	14.50nm					
SEK	1.91	172	iPd	33	46.10	1.1		0.8s	6.72nm	4.7mb	LPF	146.04	346	iPKPc	50	24.40	1.4		
		S	34	10.00			MDJ	68.92 332 eP	41	50.60	0.0		0.7s	32.50nm					
SWZ	1.95	247	eP	33	47.20	1.5		1.0s	18.00nm	4.9mb	CKI	146.07	333	PKP	50	23.40	0.2		
BFT	2.54	74	eP	33	54.20	0.0		0.7s	8.40nm	4.7mb	SOI	146.15	317	PKP	50	24.70	1.2		
		S	34	23.50			CN2	70.29 329 eP	41	58.50	-0.4	BNI	146.24	335	PKP	50	25.20	1.5	
BLF	2.86	201	iPc	33	57.50	-1.2		72.89 321 eP	42	14.50	0.0	BGF	146.33	341	iPKPc	50	25.20	1.6	
		S	34	35.00				1.0s	11.00nm	4.6mb		0.6s	24.25nm						
FRS	3.76	208	eP	34	09.20	-2.1		Z 18s	1.00um	5.1msz	GRN	146.45	337	PKP	50	25.98	2.0X		
		S	34	51.70				73.88 317 eP	42	20.70	0.3	MAF	146.72	341	iPKPc	50	26.50	2.3X	
BUL	6.36	11	iPn	34	47.40	-0.9		XAN	74.29 313 P	42	23.00	0.2		0.9s	18.65nm				
		iSn	35	56.00				0.8s	7.60nm	4.5mb	SAOF	146.74	333	PKP	50	25.60	1.2		
		iSg	36	30.10			KMI	74.86 302 Pc	42	27.50	1.0	TCF	146.77	341	iPKPc	50	26.50	2.2X	
CIR	6.64	37	iPn	34	51.00	-1.1		1.4s	40.00nm	5.0mb		0.7s	13.45nm						
		iSn	36	00.50			HHC	76.21 320 eP	42	34.60	0.9	AUTN	146.79	333	PKP	50	26.47	1.8	
		iSg	36	31.00				1.0s	14.00nm	4.7mb	TOUF	146.85	334	PKP	50	26.17	1.4		
SUR	8.22	222	eP	35	19.00	4.6X		CD2	76.59 308 eP	42	36.40	0.5	SSB	146.87	338	PKP	50	27.93	3.4X
MTD	10.38	23	iPn	35	46.70	2.6		LZH	78.92 312 eP	42	50.00	1.2	SBF	146.89	333	ePKP	50	26.40	1.7
		iSn	37	40.10				1.5s	43.00nm	5.0mb		0.9s	37.35nm						
		iSg	38	46.00				Z 20s	1.19um	5.2msz	LSF	147.01	342	iPKPc	50	27.00	2.3X		
	S.D. = 1.5	on 12 of 13 obs.					GTA	83.27 314 Pc	43	12.50	1.0		0.6s	23.55nm					
% APR 17, 1993																			

17d 22h

FRF 147.47 334 ePKP 50 27.30 1.8
0.8s 9.80nm
LRG 147.68 334 iPKPc 50 28.90 3.1X
0.8s 12.20nm
BCAO 147.69 254 iPKPc 50 28.20 1.4
0.7s 24.00nm
ic 50 53.00
LMR 147.71 334 iPKPc 50 28.80 2.9X
1.0s 14.40nm
RJF 147.87 341 iPKPc 50 29.60 3.5X
0.8s 14.50nm
CAF 148.03 340 ePKP 50 30.30 3.9X
1.2s 22.30nm
LFF 148.43 342 iPKPc 50 31.10 4.1X
0.7s 12.80nm
LPO 148.53 341 iPKPc 50 31.30 4.1X
0.8s 13.95nm
EPF 150.28 341 ePKP 50 36.00 6.1X
1.0s 9.40nm

S.D. = 1.3 on 79 of 96 obs.

? APR 18, 1993 00h 14m 54.86± 4.03s
10.899 N ±19.2km 62.156 W ±53.1km
DEPTH = 80.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.0 (TRN).

TCE 0.44 117 eP 15 07.66 -0.6
eS 15 19.10
TRN 0.78 109 eP 15 11.33 -0.2
eS 15 25.13
TPP 0.90 130 eP 15 13.72 0.7
eS 15 28.21
T8H 1.15 111 eP 15 15.97 0.0
eS 15 35.32
GRW 1.34 21 eP 15 18.79 0.2
eS 15 38.46

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

& APR 18, 1993 00h 18m 39.15s
65.572 N 144.262 W
DEPTH = 15.4km
NORTHERN ALASKA (676)
<AEIC>. ML 4.3 (PMR), 4.1 (PGC),
3.8 (AEIC). Felt (IV) at Central
and Circle; (I) at Delta
Junction.

PRP 0.53 265 iPc 18 49.42 -0.2
eS 18 57.64
FYU 1.07 339 iPd 18 58.71 -0.1
GLM 1.44 247 iPc 19 04.72 0.1
eS 19 24.38
FBA 1.63 247 iPc 19 06.92 -0.4
HDA 1.64 226 iPc 19 07.25 -0.2
CCB 1.76 240 iPc 19 08.73 -0.5
MDM 1.78 252 iPc 19 09.04 -0.5
DOT 1.93 177 iPd 19 11.61 -0.2
eS 19 38.28
WRH 1.97 238 iPc 19 11.67 -0.5
THY 2.26 197 eP 19 18.15 1.7
NEA 2.27 246 ePc 19 15.53 -1.1
TMW 2.32 166 eP 19 18.09 0.7
DWY 2.57 124 P 19 19.00 -1.8
PAX 2.66 192 iPd 19 22.32 0.0
MCK 2.73 230 ePc 19 22.76 -0.4
MLY 2.77 262 iPc 19 22.08 -1.7
RND 2.95 225 iPc 19 26.19 0.0
SDG 3.11 191 iPd 19 28.58 0.1
TRF 3.36 233 ePc 19 31.48 -0.8
HUR 3.50 224 ePc 19 34.28 0.2
TZL 3.58 189 eP 19 35.64 0.5
IMA 3.91 282 ePd 19 37.59 -2.3
SCM 3.99 201 ePd 19 41.94 0.9
GLB 4.15 177 eP 19 42.89 -0.4
KLU 4.16 191 ePd 19 44.47 1.0
SML 4.19 207 ePd 19 44.54 0.7
GHO 4.34 211 eP 19 46.22 0.2
PLRM 4.55 211 eP 19 50.06 1.2
PMR 4.55 211 ePc 19 49.30 0.4
VLZ 4.55 193 ePc 19 49.45 0.5
BALM 4.64 168 iPd 19 49.82 -0.5
PWA 4.67 215 P 19 50.20 -0.4
CTGM 4.81 163 ePd 19 51.76 -1.0
SKT 4.83 225 iPc 19 52.13 -0.9
CROM 4.86 173 eP 19 53.82 0.3
TGL 4.88 172 eP 19 53.72 0.0

PMS 4.95 211 P 19 55.50 0.9
INK 5.04 52 P 19 53.50 -2.2
0.5s 34.00nm 5.2mb X
SUA 5.04 218 eP 19 55.63 -0.3
CVA 5.09 188 eP 19 57.08 0.6
SGAM 5.11 185 iPd 19 56.82 0.0
PTE 5.19 207 eP 19 57.91 0.0
RAGM 5.21 182 eP 19 58.96 0.7
HIN 5.29 192 P 19 55.50 -4.0
YAH 5.35 166 iPd 20 00.82 0.3
CRP 5.59 223 eP 20 02.89 -0.8
CPAM 5.59 223 eP 20 03.54 -0.2
MPA 5.60 207 eP 20 05.19 1.4
CP2 5.61 223 eP 20 02.75 -1.4
S 21 29.48
SPU 5.63 222 eP 20 04.91 0.7
CKN 5.63 223 eP 20 05.36 1.1
CKT 5.65 223 eP 20 05.13 0.5
BGL 5.66 224 eP 20 04.70 0.0
HYT 5.66 144 P 20 02.90 -1.8
CKL 5.69 223 eP 20 05.60 0.4
SLKM 5.76 211 eP 20 06.97 1.0
TTA 5.77 248 ePn 20 03.44 -2.7
ePg 21 23.73
S 21 39.59
SEW 5.98 206 P 20 10.60 1.6
RDT 6.23 220 eP 20 13.65 1.0
DFR 6.29 221 eP 20 14.18 0.6
WHC 6.38 135 P 20 12.55 -2.3
NCT 6.38 222 eP 20 15.48 0.6
RDW 6.41 221 eP 20 16.24 0.8
RS2 6.42 221 eP 20 16.42 0.9
RSD 6.42 221 eP 20 16.31 0.8
RS1 6.42 221 eP 20 16.06 0.5
SVW 6.79 234 eP 20 18.18 -2.4
BRW 7.35 327 ePd 20 24.74 -3.6
PDB 7.38 223 eP 20 29.10 0.4
YKR1 13.14 90 P 21 40.85 -6.6
MBC 13.28 26 eP 21 45.00 -4.2
YKA 13.28 90 eP 21 48.90 -0.4
0.7s 3.10nm 4.5mb X
72 obs. associated

* APR 18, 1993 01h 24m 12.23± 4.01s
23.774 S ±17.9km 175.265 W ±18.6km
DEPTH = 89.6 ± 30.7 km
5.0mb (16 obs.)

TONGA ISLANDS REGION (174)
SVA 8.13 313 ePd 26 10.90 1.4
DZM 16.94 272 iPc 28 05.20 0.1
RMO 32.62 258 eP 30 37.60 0.1
CNB 32.69 241 iPd 30 40.00 1.9
CAN 32.98 241 eP 30 37.80 -2.9
BWA 33.30 243 eP 30 41.20 -2.2
e 30 55.90
CTA 35.81 268 eP 31 03.00 -2.0
TOO 36.18 238 iPd 31 09.10 1.2
1.0s 27.00nm 5.1mb
BFD 38.43 240 eP 31 28.00 1.2
1.0s 5.00nm 4.4mb
ASPA 46.33 259 iPd 32 31.50 0.4
1.0s 11.80nm 4.7mb
Z 19s 0.70um 4.6msz
W82 46.73 264 eP 32 31.40 -2.9
0.6s 17.00nm 5.1mb
WRA 46.74 264 P 32 33.00 -1.4
0.9s 6.50nm 4.5mb
KUSJ 76.06 331 eP 35 49.60 -1.8
ASAJ 77.79 330 eP 36 00.70 -0.3
NJ2 83.90 309 eP 36 33.80 0.3
MDJ 84.64 324 eP 36 37.00 0.1
MSU 85.60 45 (P) 36 42.72 0.5
CN2 86.43 321 eP 36 45.40 -0.4
1.2s 26.00nm 5.2mb
CP2 86.76 11 eP 36 45.51 -1.8
SRU 87.00 45 (P) 36 48.81 -0.1
TIA 87.34 312 eP 36 50.00 -0.4
TTA 87.75 9 eP 36 50.61 -1.2
1.2s 9.13nm 4.7mb
DPW 87.76 34 eP 36 51.25 -1.0
GSI 87.92 272 ePd 36 55.50 1.9
e 37 20.00
BW06 89.64 42 eP 37 01.37 -0.1
0.8s 2.00nm 4.3mb
BJI 89.99 314 eP 37 02.50 -0.3
1.8s 48.00nm 5.4mb

GYA 90.45 299 P 37 06.40 1.0
1.0s 14.00nm 5.1mb
FBA 90.91 11 eP 37 04.65 -1.9
1.2s 9.68nm 4.9mb
IMA 91.06 9 eP 37 08.10 0.7
1.5s 11.49nm 4.9mb
TIY 91.33 311 eP 37 09.80 0.6
Z 24s 0.54um 4.9msz
XAN 92.12 306 Pd 37 14.00 1.2
1.0s 27.00nm 5.6mb
KMI 93.07 296 Pd 37 20.00 2.4
1.0s 60.00nm 5.9mb
HHC 93.44 313 eP 37 19.80 1.0
RSSD 93.77 43 eP 37 19.81 -0.6
1.0s 8.38nm 5.1mb
BTO 94.36 313 eP 37 24.00 0.9
LZH 96.75 306 eP 37 35.00 0.8
1.0s 25.00nm 5.7mb
MAIO 131.55 298 ePKP 43 18.00 1.6
KAS 150.09 313 ePKP 43 55.50 6.7X
HRI 151.25 296 ePKP 43 58.00 7.1X
KSP 151.53 345 ePKP 43 57.00 6.4X
DSI 151.84 293 ePKP 43 59.10 7.4X
SPC 151.85 338 e(PKP) 43 50.10 -1.3
BRG 152.02 348 iPKP 43 58.00 6.7X
1.1s 18.00nm
e 44 05.60
MLR 152.34 327 ePKP 44 00.00 7.9X
MBH 152.48 289 ePKP 44 00.70 8.0X
MOX 152.65 350 ePKP 43 59.20 7.0X
PRU 152.73 346 ePKP 44 00.00 7.7X
CSS 152.79 301 ePKP 44 01.00 8.1X
GRF 153.64 350 ePKP 44 03.80 10.2X
Z 19s 0.10um 4.7msz
e 44 13.90
e 44 26.00
SRO 153.68 339 ePKP 44 13.10 19.4X
ZST 153.72 341 ePKP 44 14.10 20.3X
KHC 153.75 347 ePKP 44 02.00 8.1X
e 44 12.00
e 45 20.50
GEC2 153.99 346 ePKP 44 02.60 8.3X
1.1s 1.95nm
e 44 08.40
e 44 15.30
e 44 20.00
BCAO 156.61 217 ePKPc 44 03.00 4.3X
1.0s 25.00nm
id 44 30.00
VBY 156.70 341 e(PKP) 44 19.80 21.9X
LKO 162.75 143 PKP 44 08.56 3.2
S.D. = 1.5 on 39 of 56 obs.

% APR 18, 1993 01h 34m 42.38± 1.26s
17.879 N ±12.0km 101.544 W ± 9.0km
DEPTH = 14.0 ± 4.4 km
NEAR COAST OF GUERRERO, MEXICO (58)

MRX 1.85 10 iP 35 13.50 -0.3
iS 35 39.00
ACX 1.90 122 iP 35 14.50 -0.1
iS 35 37.00
III 2.04 76 eP 35 17.05 0.2
iS 35 43.50
CRX 2.33 49 (P) 35 23.50 2.3X
CGX 2.57 315 iP 35 25.00 0.6
(S) 35 59.00
UNM 2.66 57 iP 35 27.00 1.1
(S) 35 58.00
PPM 3.01 66 iP 35 31.00 0.0
(S) 36 06.00
IIA 3.02 65 (P) 35 25.66 -4.9X
IIT 3.28 69 iP 35 34.75 0.2
AGX 4.04 350 eP 35 44.50 -0.6
IISM 4.11 74 iP 35 45.80 -0.3
OXX 4.67 99 (P) 35 57.00 2.7X
S.D. = 0.6 on 9 of 12 obs.

APR 18, 1993 02h 03m 21.37± 0.54s
45.508 N ± 4.4km 26.336 E ± 5.3km
DEPTH = 143.4 ± 6.9 km
3.7mb (1 obs.)
ROMANIA (358)

MLR 0.28 267 iPc 03 40.60 -0.2
ISR 0.40 158 iPc 03 41.50 0.3
VRI 0.45 37 iPc 03 41.00 -1.0

MTUR 0.94 253 iPc 03 45.00 -0.4
 CMP 0.95 256 iPc 03 45.00 -0.4
 BIR 1.18 49 eP 03 48.00 0.6
 PTT 1.43 1 eP 04 01.00 11.0X
 TNR 1.46 276 ePc 03 50.00 -0.3
 IAS 1.89 26 iPc 03 56.00 0.9
 PSN 2.25 143 iPd 04 00.00 0.4
 PVL 2.40 198 iPd 04 03.00 1.6
 DEV 2.43 280 ePc 04 02.50 0.7
 JMB 3.05 177 iPd 04 09.00 -0.6
 BZS 3.32 274 eP 04 12.50 -0.6
 PGB 3.35 209 iP 04 13.00 -0.6
 VTS 3.69 219 iP 04 18.00 -0.2
 DMK 3.83 164 iPn 04 13.20 -6.7X
 KDZ 3.91 190 iPd 04 21.00 -0.1
 RZN 4.00 198 iP 04 22.00 -0.3
 KKB 4.34 214 eP 04 27.00 0.3
 MMB 4.35 207 iPc 04 27.00 0.1
 CTT 4.62 160 ePn 04 29.70 -0.7
 VAY 5.00 215 ePn 04 27.00 1.4
 HRT 5.28 151 ePn 04 38.70 -0.6
 NB2 17.92 336 P 07 22.20 -0.4
 0.7s 2.60nm 3.7mb
 S.D. = 0.7 on 23 of 25 obs.

? APR 18, 1993 02h 16m 02.74± 1.47s
 37.689 N ±15.9km 21.247 E ±17.3km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 MD 3.1 (ATH).

VLS 0.71 313 ePb 16 17.00 0.2
 VLI 1.66 125 ePb 16 32.00 0.0
 KZN 2.65 9 ePn 16 47.00 0.7
 OHR 3.44 354 ePn 16 56.50 -0.9
 S.D. = 1.2 on 4 of 4 obs.

% APR 18, 1993 02h 16m 37.13± 3.19s
 11.151 N ±11.5km 61.984 W ±17.1km
 DEPTH = 108.1 ± 34.9 km
 WINDWARD ISLANDS (95)
 MD 3.3 (TRN).

TCE 0.50 153 eP 16 53.67 -0.4
 TRN 0.76 131 eP 16 55.98 -0.1
 TPP 0.98 148 eP 16 58.41 0.3
 GRW 1.05 17 eP 16 59.42 0.3
 TBH 1.12 126 eP 16 59.75 0.0
 PIG 1.12 89 eP 16 59.97 0.2
 TPR 1.18 88 eP 17 00.48 0.0
 BOT 1.24 89 eP 17 00.84 -0.3
 SVB 2.23 19 eP 17 13.09 -0.4
 SVV 2.28 19 eP 17 14.40 0.2
 0.5s 17 44.71
 S.D. = 0.3 on 10 of 10 obs.

? APR 18, 1993 02h 46m 17.68± 1.64s
 31.609 S ±15.5km 179.867 W ±19.1km
 DEPTH = 496.3 ± 16.5 km
 4.4mb (6 obs.)
 KERMADEC ISLANDS REGION (177)

HBZ 6.16 194 eP 47 56.50 0.2
 KUZ 6.30 214 P 47 59.60 2.0
 WCZ 6.47 227 P 48 01.10 1.7
 OUZ 6.55 235 P 48 01.10 1.0
 URZ 7.08 200 eP 48 04.90 -0.7
 4.9s 49 32.00
 NOZ 7.20 193 eP 48 09.60 2.8X
 WLZ 7.28 210 eP 48 10.30 2.7X
 PAHZ 7.66 198 eP 48 12.20 0.6
 MOZ 8.15 211 eP 48 16.70 0.1
 NGZ 8.41 205 P 48 21.10 1.5
 WAHZ 8.64 200 eP 48 19.80 -2.1
 4.3mb (3 obs.)
 PGZ 9.52 198 eP 48 30.60 -0.5
 MNG 9.74 201 P 48 32.40 -1.1
 5.6s 56 21.80

KIW 10.15 203 P 48 36.90 -0.9
 MTW 10.23 200 eP 48 38.50 -0.1
 MOW 10.55 200 eP 48 41.70 -0.2
 MRW 10.55 203 eP 48 40.90 -1.0
 SNZO 10.62 203 P 48 45.00 2.4X
 5.0s 50 37.80
 TCW 10.68 205 eP 48 41.90 -1.4
 THZ 11.67 208 P 48 54.00 0.1
 5.0s 51 00.80
 KHZ 12.00 204 P 48 57.50 0.2
 5.0s 51 07.50
 DSZ 12.12 211 eP 48 58.50 -0.1
 DZM 15.46 305 iPc 49 29.90 -3.1
 CAN 26.18 253 eP 51 15.40 2.1X
 BWA 26.69 255 eP 51 17.30 -0.4
 TOO 29.02 249 eP 51 40.00 1.9
 0.7s 12.00nm 4.5mb
 STK 32.66 259 iPc 52 10.90 1.7
 0.5s 9.90nm 4.6mb
 ASPA 41.47 269 iPd 53 21.40 -0.4
 0.7s 4.70nm 4.1mb
 WB2 42.55 274 iPd 53 29.60 -0.8
 0.3s 7.50nm 4.7mb
 WRA 42.56 274 P 53 30.40 -0.1
 0.5s 1.10nm 3.6mb
 SPA 58.56 180 iPc 55 34.00 6.3X
 0.7s 12.50nm 4.4mb
 KLU 96.78 16 eP 58 56.06 1.3
 KAF 145.12 339 iPKP 04 59.10 0.6
 0.3s 2.30nm
 NUR 146.86 338 iPKP 05 04.70 3.4X
 0.2s 2.00nm
 NB2 149.67 349 PKP 05 11.50 5.7X
 0.5s 0.70nm
 S.D. = 1.3 on 28 of 35 obs.

APR 18, 1993 02h 58m 29.85± 0.54s
 28.105 S ±5.1km 26.885 E ±6.5km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 3.9 (BUL). ML 3.7 (PRE).

SEK 0.69 109 iPd 58 44.20 0.6
 5.0s 58 53.00
 BLF 1.17 211 iPd 58 52.80 0.5
 5.0s 59 08.50
 BFS 1.21 356 eP 58 52.90 0.0
 5.0s 59 07.10
 PRY 1.28 24 eP 58 53.50 -0.7
 5.0s 59 10.50
 SWZ 1.66 303 eP 59 01.10 1.2
 FRS 2.14 220 iPc 59 07.80 1.2
 5.0s 59 33.20
 KSR 2.23 0 iPd 59 07.90 -0.3
 5.0s 59 34.00
 SLR 2.67 28 iPd 59 14.40 0.0
 5.0s 59 44.50
 BFT 3.71 50 iPc 59 29.50 0.2
 5.0s 00 12.00
 GRM 5.20 183 eP 59 49.50 -0.7
 5.0s 00 51.70
 POF 6.22 257 eP 00 24.00 19.5X
 5.0s 01 35.00
 SUR 6.76 229 eP 00 15.00 2.6X
 5.0s 01 32.00
 SUR 6.76 229 eP 00 10.50 -1.9
 5.0s 01 27.00
 BUL 8.08 12 iPn 00 36.10 5.3X
 5.0s 01 55.50
 5.0s 02 36.00
 CER 8.37 229 eP 00 28.50 -6.3X
 5.0s 01 59.00
 WIN 10.43 300 eP 00 58.10 -5.2X
 5.0s 02 34.60
 MTD 12.08 22 iPn 01 39.40 13.7X
 5.0s 03 47.10
 5.0s 04 59.50
 S.D. = 1.0 on 11 of 17 obs.

* APR 18, 1993 02h 59m 43.43± 1.04s
 11.113 N ±13.9km 144.051 E ±18.5km
 DEPTH = 33.0km (normol)
 4.3mb (3 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUA 2.55 19 Pg 00 23.10 -0.3

GUMO 2.59 18 Pg 00 23.70 -0.2
 5.0s 00 48.00
 PJG 2.59 18 Pn 00 22.50 -1.4
 5.0s 00 23.80
 DZM 39.63 146 iPc 07 12.74 -1.3
 TOO 48.44 178 iPc 08 36.40 11.7X
 0.6s 6.00nm
 GUN 56.82 296 P 09 26.40 -1.4
 KKN 57.34 296 P 09 31.00 -0.3
 GKN 57.92 296 P 09 36.00 0.7
 GBA 64.94 280 P 10 27.00 4.4X
 INK 76.95 22 eP 11 37.00 3.0X
 1.0s 3.00nm 4.3mb
 MBC 80.85 14 eP 11 57.00 1.9
 0.5s 1.00nm 4.1mb
 YKA 85.41 27 eP 12 20.90 2.3
 0.5s 1.20nm 4.4mb
 LPB 148.35 103 ePKP 19 38.00 12.1X
 ZOBO 148.35 103 PKP 19 38.20 12.1X
 S.D. = 1.6 on 9 of 14 obs.

* APR 18, 1993 03h 33m 29.40± 0.58s
 13.060 N ±10.3km 95.193 E ±7.8km
 DEPTH = 27.1km (6 depth phases)
 4.9mb (31 obs.)
 ANDAMAN ISLANDS, INDIA (703)

KMI 13.95 30 eP 36 57.00 9.2X
 2.0s 70.00nm 5.1mb
 Z 12s 1.90um 4.9msz
 N 10s 1.20um
 E 10s 1.30um
 OIZ 15.28 65 P 37 10.40 5.4X
 HYB 16.63 287 eP 37 14.50 -7.9X
 1.4s 125.00nm 4.9mb
 1.4s e 37 19.00
 LSA 16.98 348 P 37 31.80 4.7X
 PKI 17.09 329 P 37 29.20 0.8
 GYA 17.14 37 iPc 37 31.60 2.8X
 1.0s 12.00nm 4.0mb
 Z 14s 1.10um 4.4msz
 N 14s 1.25um
 E 14s 1.42um

pP 37 40.00
 sP 37 48.00
 GUN 17.14 331 P 37 28.60 -0.5
 DMN 17.28 328 P 37 31.00 0.3
 GBA 17.29 274 P 37 24.00 -6.6X
 4.0s 40 28.00
 CD2 19.44 23 eP 37 56.00 -0.9
 1.0s 81.00nm 5.0mb
 Z 10s 1.43um 4.6msz
 E 10s 2.17um
 epP 38 07.10 46kmX
 eS 41 44.80
 GZH 19.91 57 eP 38 09.00 7.1X
 POO 21.24 288 eP 38 06.50 -9.3X
 KKM 21.86 107 eP 38 15.50 -6.6X
 NDI 22.84 316 eP 38 30.50 -1.1
 LEM 23.30 147 ePc 38 19.50 -16.8X
 LZH 24.21 17 eP 38 45.00 -0.1
 1.8s 45.00nm 4.7mb
 Z 14s 0.78um 4.3mszX
 pP 38 55.00 37km
 sP 38 58.50
 WHN 24.81 42 eP 38 54.00 3.3X
 Z 10s 1.27um 4.7mszX
 E 10s 0.61um

GTA 26.56 8 eP 39 07.00 -0.2
 2.0s 37.00nm 4.7mb
 Z 10s 0.64um 4.5mszX
 pP 39 15.00 28km
 sP 39 18.50
 NJ2 28.78 45 eP 39 26.00 -1.1
 Z 10s 0.70um 4.6mszX
 E 10s 0.80um
 TIY 28.97 29 eP 39 36.00 7.1X
 Z 12s 1.93um 4.9mszX
 N 11s 1.14um
 E 11s 0.98um
 BTO 30.36 23 eP 39 40.50 -0.9
 N 11s 0.44um
 E 11s 0.29um
 QUE 31.17 308 eP 39 44.80 -3.9X
 HHC 31.18 24 eP 39 50.50 1.9X
 1.4s 25.00nm 4.9mb
 Z 13s 0.95um 4.6mszX

18d 03h

KSH	N	11s	0.61um			BRW	83.39	18	eP	45	51.30	-3.9X	Best Double Couple: Mo=6.9*10**16 NP1: Strike=194 Dip=48 Slip=-143 NP2: 77 63 -48	
	E	10s	0.37um						e	45	58.78	24km		
	31.29	331	P	39	50.00	0.4	RJF	83.40	315	eP	45	56.20	0.5	
	1.2s	30.00nm			5.0mb		LPO	83.75	314	eP	45	58.00	0.5	
WMO	Z	24s	1.35um			4.5MszX			0.8s	5.10nm		4.8mb	IPM	
			PP	41	00.00		LFF	84.01	315	eP	45	59.40	0.6	
	31.32	350	P	39	53.70	3.9X	EKA	84.07	325	Pc	46	15.10	16.2X	
	1.0s	28.00nm			5.1mb		MFF	84.25	316	eP	46	00.30	0.3	
BJI	Z	28s	0.62um			4.1MszX			1.1s	13.45nm		5.1mb	KMI	
			pP	40	02.00	29km	LPF	84.52	318	eP	46	02.00	0.7	
			sP	40	06.50		IMA	86.46	22	eP	46	05.74	-5.1X	
	32.61	31	eP	40	01.50	0.6			0.9s	9.43nm		5.0mb		
SNY	Z	14s	0.59um			4.4MszX							QIZ	
	E	10s	0.43um											
			eS	45	28.00		MBC	88.51	8	eP	46	13.49	24km	
	37.82	35	eP	40	45.00	-0.4	INK	91.75	16	eP	46	23.00	2.6X	
MAIO	Z	13s	0.65um			4.6MszX							GBA	
							YKA	101.17	14	ePd	47	20.20		1.8
	39.50	312	eP	40	57.00	-2.6			0.8s	0.40nm		4.0mb		
	40.15	34	eP	41	06.20	1.4	BAO	144.27	261	(PKP)	53	05.00	-0.7	
CN2	Z	11s	0.50um			4.6MszX							PPD	
	50.59	130	P	42	48.00	19.8X			S.D. = 0.9	on 52 of 79 obs.				
	0.9s	1.60nm					%	APR 18, 1993	04h 02m	52.75±1.62s				
ASPA	Z	23s	0.20um			4.1MszX							GYA	
			eS	49	46.40				43.257 N ±11.3km	18.922 E ± 8.0km				
	52.58	134	eP	42	34.30	-9.0X			DEPTH = 10.0km (geophysicist)					
	1.3s	5.60nm			4.3mb				NORTHWESTERN BALKAN REGION	(383)				
YAK	Z	10s	0.40um			4.8MszX							GUN	
	N	16s	0.40um						ML 1.8 (TTG).					
							PLE	0.35	78	iPgc	02	59.53	-0.5	
	54.78	19	eP	42	55.30	-3.6X								
VRI	Z	10s	0.40um			4.8MszX							DMN	
	N	16s	0.40um											
							NKY	0.45	173	iPgc	03	04.75		-0.5
	65.76	315	eP	44	12.00	-2.2								
MLR	Z	10s	0.40um			4.8MszX							KKN	
	N	16s	0.40um											
	66.27	314	eP	44	13.00	-4.6X								
SRO	Z	10s	0.40um			4.8MszX							GKN	
	N	16s	0.40um											
	71.64	316	eP	44	51.10	0.5								
ZST	Z	10s	0.40um			4.8MszX							CD2	
	N	16s	0.40um											
	72.46	317	eP	44	55.00	-0.4								
KSP	Z	10s	0.40um			4.8MszX							IVA	
	N	16s	0.40um											
	72.99	319	eP	45	00.40	1.9								
VBY	Z	10s	0.40um			4.8MszX							TTG	
	N	16s	0.40um											
	73.78	314	e(P)	45	03.50	0.3								
PRU	Z	10s	0.40um			4.8MszX							HCY	
	N	16s	0.40um											
	74.12	319	eP	45	06.50	1.4								
LJU	Z	10s	0.40um			4.8MszX							BDV	
	N	16s	0.40um											
	74.26	314	e(P)	45	06.00	0.0								
CEY	Z	10s	0.40um			4.8MszX							PVY	
	N	16s	0.40um											
	74.35	314	e(P)	45	06.50	-0.1								
BRG	Z	10s	0.40um			4.8MszX							ULC	
	N	16s	0.40um											
	74.47	319	eP	45	05.30	-1.8								
HFS	Z	10s	0.40um			4.8MszX							BOM	
	N	16s	0.40um											
	74.54	329	eP	45	00.90	-6.4X								
GEC2	Z	10s	0.40um			4.8MszX							BAG	
	N	16s	0.40um											
	74.70	317	ePc	45	01.50	-7.2X								
VOY	Z	10s	0.40um			4.8MszX							LZH	
	N	16s	0.40um											
	74.71	314	e(P)	45	08.00	-0.7								
KHC	Z	10s	0.40um			4.8MszX							POD	
	N	16s	0.40um											
	74.77	318	eP	45	09.50	0.5								
N82	Z	10s	0.40um			4.8MszX							KKM	
	N	16s	0.40um											
	75.76	330	P	45	25.00	10.6X								
MOX	Z	10s	0.40um			4.8MszX							BOM	
	N	16s	0.40um											
	75.96	319	ePd	45	16.90	1.2								
GRF	Z	10s	0.40um			4.8MszX							BAG	
	N	16s	0.40um											
	76.28	318	eP	45	12.30	-5.2X								
CDF	Z	10s	0.40um			4.8MszX							LZH	
	N	16s	0.40um											
	78.99	317	eP	45	32.30	-0.3								
SBF	Z	10s	0.40um			4.8MszX							POD	
	N	16s	0.40um											
	79.48	313	eP	45	34.90	-0.4								
HAU	Z	10s	0.40um			4.8MszX							KKM	
	N	16s	0.40um											
	79.66	317	eP	45	36.10	0.0								
LPG	Z	10s	0.40um			4.8MszX							BOM	
	N	16s	0.40um											
	79.73	314	eP	45	37.10	0.2								
LPL	Z	10s	0.40um			4.8MszX							BAG	
	N	16s	0.40um											
	79.74	314	eP	45	37.10	0.2								
FRF	Z	10s	0.40um			4.8MszX							LZH	
	N	16s	0.40um											
	80.09	312	eP	45	38.40	-0.1								
LRG	Z	10s	0.40um			4.8MszX							POD	
	N	16s	0.40um											
	80.31	312	eP	45	39.90	0.3								
LBF	Z	10s	0.40um			4.8MszX							KKM	
	N	16s	0.40um											
	81.40	316	eP	45	45.30	-0.1								
LOR	Z	10s	0.40um			4.8MszX							CTB	
	N	16s	0.40um											
	81.43	316	eP	45	45.50	0.0								
SMF	Z	10s	0.40um			4.8MszX							NJ2	
	N	16s	0.40um											
	81.55	316	eP	45	46.10	0.0								
SSF	Z	10s	0.40um			4.8MszX							TIY	
	N	16s	0.40um											
	81.71	316	eP	45	47.10	0.2								
AVF	Z	10s	0.40um			4.8MszX							SSE	
	N	16s	0.40um											
	81.86	316	eP	45	47.70	0.0								
8GF	Z	10s	0.40um			4.8MszX							TIA	
	N	16s	0.40um											
	82.24	316	eP	45	50.00	0.3								
HYF	Z	10s	0.40um			4.8MszX								

	N	14s	0.84um			ADE	62.40	140	eP	07 32.00			e	08 20.50	119kmX		
BTO	E	14s	1.19um			RMQ	64.71	127	iPc	06 03.70	0.2	HAU	80.32	317	eP	07 50.20	-0.5
		31.40	22 eP	02 00.50	-1.0					06 19.20	0.4		0.8s	12.35nm			5.0mb
	N	11s	1.09um			BFD	66.20	140	eP	06 35.00	6.9X	LPG	80.36	315	eP	07 51.20	-0.1
QUE	E	10s	1.24um			VRI	66.39	315	eP	06 29.50	0.2	LPL	80.37	315	eP	07 51.20	-0.1
KSH		31.70	309 eP	02 05.20	0.8	MLR	66.89	314	eP	06 32.00	-0.7		0.8s	18.95nm			5.2mb
		32.14	332 P	02 08.50	0.4	BRS	68.30	126	iPc	06 43.00	1.3	BNI	80.47	314	P	07 53.10	1.4
		1.0s	30.00nm		5.2mb				i	06 50.00	22km	FRF	80.68	313	eP	07 52.50	-0.2
Z		22s	2.15um		4.8Msz	TOO	68.32	139	iPc	06 42.60	1.0		0.7s	15.30nm			5.1mb
N		10s	0.68um				0.5s	17.00nm			5.4mb	LMR	80.81	312	eP	07 53.00	-0.4
			pP	02 15.50	24km			i		06 50.00	24km		0.7s	10.35nm			5.0mb
			sP	02 20.00		BWA	68.52	135	eP	06 43.80	0.9	LRG	80.90	312	eP	07 53.90	0.0
			PP	03 18.00				i		06 50.80	22km		0.8s	22.45nm			5.2mb
			PcP	04 54.00		ARMA	68.83	129	eP	06 50.00	5.0X	DOU	81.19	319	P	07 56.00	0.0
			S	07 22.00			1.0s	33.00nm			5.4mb		e			08 03.60	24km
			sS	07 39.00		CAN	69.41	135	eP	06 50.40	2.1		e	10 52.70			
			PcS	08 40.00		KAF	69.56	332	eP	06 55.30	16km	UCC	81.23	320	eP	08 03.00	7.6X
			SS	09 16.00		SDF	70.84	338	iP	06 50.10	1.4	SNF	81.32	320	Pc	07 56.20	0.3
HHC	Z	32.21	24 P	02 08.00	-0.6	SPC	71.07	318	eP	07 00.70	2.2		e			08 03.40	23km
		13s	2.50um		5.1MszX	OJC	71.43	319	eP	07 00.70	0.3	LBF	82.05	316	eP	07 59.50	-0.4
	N	11s	1.22um					e		07 02.00	4kmX		0.8s	16.00nm			5.1mb
	E	11s	1.19um			SRO	72.29	316	eP	07 04.70	-0.9	LOR	82.09	317	eP	07 59.60	-0.4
			sP	02 16.00		BUL	72.71	244	iPd	07 08.20	-0.5		0.7s	8.50nm			4.9mb
WMO		32.33	350 P	02 10.70	1.0	ZST	73.11	317	eP	07 09.00	-1.4	SMF	82.20	316	eP	08 00.10	-0.5
		1.0s	28.00nm		5.1mb	UPP	73.38	329	iP	07 11.50	-0.1		0.7s	10.15nm			5.0mb
Z		26s	0.89um		4.3MszX	KSP	73.68	320	eP	07 13.30	-0.4	SSF	82.36	316	eP	08 01.20	-0.2
			pP	02 14.70	14km			e		07 20.30	22km		0.9s	7.70nm			4.8mb
			sP	02 17.70		VBY	74.39	314	eP	07 11.80	-6.1X	AVF	82.51	316	eP	08 01.80	-0.4
			PP	03 11.60		PRU	74.80	319	P	07 20.10	0.0		1.1s	18.30nm			5.1mb
			eS	07 25.20				e		07 27.							

18d 04h

4.7mb (35 obs.) NEAR COAST OF OAXACA, MEXICO (66)						0.9s 7.70nm 4.8mb						EVIA 2.91 19 ePn 44 08.49 1.3					
TPX	1.79	93	iP	58 53.31	1.1	BGF	0.8s	44 eP	10 50.80	0.0		EVAL	2.95	306	ePn	44 08.40	-1.2
SCX	2.22	40	iP	59 04.46	6.2X	AVF	0.8s	10.90nm	10 51.90	-0.3		PAB	3.67	353	ePn	44 18.00	-0.1
OXX	3.24	310	iP	59 12.21	-0.8	NB2	0.8s	3.35nm	10 53.30	1.3		AVE	3.99	231	ePb	44 27.00	
BVA	3.38	96	eP	59 15.68	0.7	SSF	0.8s	4.40nm	10 52.30	0.0					iSg	45 27.50	
RDG	3.52	90	eP	59 17.76	0.8	LOR	1.0s	8.40nm	10 53.30	0.1					iPn	44 22.00	-0.5
IXG	3.64	103	eP	59 19.06	0.4	LBF	84.42	43 eP	10 53.30	0.1					iSn	45 05.00	
MRL	4.27	89	eP	59 27.64	0.0	SMF	84.57	43 eP	10 54.50	0.5					i	45 08.50	
IISM	5.03	322	iP	59 39.32	1.1	ENN	84.58	43 eP	10 53.90	-0.1		GUD	4.75	356	iPnc	44 31.59	-1.8
ACX	5.82	289	(P)	59 50.94	1.5		84.72	39 e(P)	10 55.50	0.9					eSn	45 27.10	
PPM	5.90	314	eP	59 51.00	0.0		0.8s	8.90nm	11 07.00	37km		TIO	5.77	212	iPn	44 47.00	-0.8
			(S)	01 14.00		APD	85.65	28 eP	10 59.10	0.0					i	45 43.50	
IIA	5.98	314	(P)	59 53.00	1.4	HAU	85.81	41 eP	11 00.50	0.3					iSn	45 46.50	
III	6.12	304	iP	59 52.97	-0.8		0.9s	12.50nm	11 00.50	0.3		ANTZ	9.04	217	iPn	45 32.50	-0.9
UNM	6.47	312	(P)	59 57.00	-1.7	BSF	86.15	42 eP	11 02.00	0.0		YKA	67.50	332	eP	54 21.20	3.4X
CRX	6.88	310	(P)	00 05.00	0.5		0.8s	5.90nm	11 02.00	4.9mb					0.5s	0.10nm	3.3mb
MRX	8.21	306	(P)	00 22.00	-0.8	CDF	86.28	41 eP	11 02.90	0.3					S.D. = 1.1	on 19 of 21 obs.	
UYO	19.07	359	iPc	02 43.40	-1.8	KIC	86.77	84 (P)	11 10.10	-0.2							
MIAR	19.45	1	iPd	02 48.20	-1.4	GEC2	90.11	39 ePd	11 21.30	0.4							
	0.7s		8.42nm		4.1mb		0.8s	0.91nm		4.1mb							
WMOK	20.08	349	eP	02 55.00	-1.4				11 26.10	15kmX							
	1.0s		13.03nm		4.2mb	GBA	150.36	17 PKP	18 12.00	4.4X							
MEO	20.09	349	iPc	02 55.40	-1.0							EMEL	0.87	134	iPg	48 00.11	1.1
FNO	20.37	352	iPd	02 59.10	-0.2										eSg	48 10.30	
OLY	20.53	6	eP	02 59.24	-1.8	% APR 18, 1993 05h 12m 21.42±1.42s						EGUA	0.92	8	iPg	47 59.89	0.0
OCO	20.64	352	iPd	03 03.40	1.3	36.963 N ± 9.2km 141.112 E ± 14.4km									eSg	48 13.20	
GOGA	20.70	26	eP	03 03.59	0.9	DEPTH = 33.0km (normol)						MAL	0.98	326	iPnc	48 01.00	0.1
	0.8s		6.13nm		4.0mb	NEAR EAST COAST OF HONSHU, JAPAN(22B)						ECOG	1.36	5	iPnd	48 07.68	0.3
ACO	22.05	349	iPd	03 18.30	1.9	KAKJ	1.07	225 iPd	12 40.60	0.5					eSn	48 25.00	
ALQ	22.73	333	iPc	03 24.30	0.9			S	12 54.50			NKM	1.45	252	iPn	48 09.50	0.9
	0.8s		6.88nm		4.2mb	YAMJ	1.48	325 iPd	12 46.50	0.5					iSn	48 26.50	
TUC	22.95	321	eP	03 26.79	1.4			eS	13 05.70						i	48 31.50	
	1.0s		9.30nm		4.2mb	NIJ	1.71	280 P	12 49.40	0.1					i	48 33.00	
SDV	23.75	102	eP	03 31.30	-2.1			S	13 12.80			CPS	1.51	266	iP	48 16.00	6.6X
GOL	26.49	340	ePd	03 59.40	0.2	CHJJ	1.93	242 P	12 51.90	-0.7					iS	48 36.50	
	0.9s		10.67nm		4.4mb			S	13 12.60			EJIF	1.51	291	ePn	48 08.79	-0.6
SRU	28.00	332	eP	04 12.97	0.1	OFUJ	2.16	12 iP+	12 55.50	-0.2					eSn	48 28.20	
EMUT	28.71	333	eP	04 19.75	0.5			S	13 20.70			ENIJ	1.61	49	ePn	48 09.91	-0.9
BW06	30.68	337	eP	04 36.31	-0.6	MAT	2.37	261 iPc	12 58.50	-0.3					eSn	48 30.40	
	0.9s		2.69nm		4.0mb			eS	13 19.00			ELUO	1.70	345	iPnd	48 12.91	0.8
HVU	31.17	332	eP	04 41.40	0.3	MTMJ	2.68	263 P	13 03.10	-0.2					eSn	48 35.70	
LCCM	34.16	338	eP	05 07.40	0.3	IIDJ	2.98	241 P	13 07.90	0.4		RSA	2.00	240	iP	48 18.50	2.0
ULM	35.17	358	eP	05 17.00	1.6			S	13 42.40						iS	48 40.50	
YKA	49.58	348	eP	07 11.10	-1.3	AOMJ	3.64	351 eP	13 16.70	0.0		EBAN	2.25	359	eP	48 20.02	0.0
	0.7s		4.20nm		4.6mb							IFR	2.66	206	iPn	48 25.50	-0.6
FRB	51.81	14	eP	07 28.00	-1.3										i	48 50.00	
	1.0s		13.00nm		4.9mb										iSn	48 52.50	
BAO	54.81	122	iPc	07 49.50	-2.8	APR 18, 1993 05h 43m 19.93±0.50s									i	48 55.00	
INK	58.89	344	eP	08 20.50	0.0	35.899 N ± 4.5km 3.734 W ± 6.1km									i	48 56.50	
	1.0s		4.00nm		4.5mb	DEPTH = 10.0km (geophysicist)						EALH	2.68	43	ePn	48 26.13	0.0
			pP	08 53.00	136kmX	STRAIT OF GIBRALTAR (385)						EVIA	2.89	19	eP	48 29.30	0.1
PMR	60.59	333	e(P)	08 30.90	-1.2	mbLg 4.0 (MDD).									eS	49 03.50	
	0.8s		20.90nm		5.3mb	EMEL	0.87	133 iPgc	43 35.90	-0.8		EVAL	2.95	305	ePn	48 29.62	-0.4
DAG	72.13	14	eP	09 44.40	-1.0			eSg	43 46.50			PAB	3.66	352	iPn	48 40.50	0.3
	0.8s		6.72nm		4.7mb	EGUA	0.94	8 iPgd	43 37.49	-0.4					ePb	48 50.00	
LPF	81.02	43	eP	10 35.70	0.1			eSg	43 52.40						eSn	49 36.00	
	0.9s		11.95nm		4.9mb	MAL	0.99	327 iPnd	43 38.20	-0.5					eSg	49 46.50	
GRR	81.06	42	eP	10 36.20	0.3			iSg	43 48.00			AVE	4.01	230	iPn	48 44.00	-1.1
	0.8s		13.45nm		5.0mb	ECOG	1.38	6 ePn	43 45.18	-0.2					i	49 22.00	
FLN	81.22	42	eP	10 37.10	0.4			eSn	44 04.90						iSn	49 26.00	
	0.8s		10.75nm		4.9mb	EJIF	1.51	292 ePn	43 46.54	-0.5					i	49 30.00	
LDF	81.49	42	eP	10 38.50	0.4			eSn	44 05.80			EPLA	4.54	336	eP	48 52.50	-0.1
	0.9s		12.30nm		4.9mb	ENIJ	1.63	49 ePn	43 48.40	-0.4					eS	49 42.60	
MFF	81.93	44	eP	10 40.50	0.1			eSn	44 11.50			GUD	4.73	356	eP	48 55.10	-0.4
	0.9s		5.10nm		4.5mb	ELUO	1.71	346 ePn	43 50.98	1.0					eS	49 47.90	
LFF	82.92	45	eP	10 45.90	0.3			eSn	44 12.40			TIO	5.79	212	iPn	49 09.00	-1.4
	1.0s		10.60nm		4.9mb	TSY	1.90	255 iP	43 56.00	3.4X					i	50 04.50	
EPF	83.10	47	eP	10 47.00	0.3			iS	45 21.00						i	50 06.00	
	1.1s		8.80nm		4.8mb	RSA	1.98	240 iP	43 56.30	2.4					iSn	50 08.50	
LSF	83.14	44	eP	10 46.50	-0.2			iS	45 22.00						i	50 11.50	
	0.8s		4.45nm		4.6mb	EHUE	2.12	25 ePn	43 57.45	1.5					S.D. = 0.9	on 19 of 20 obs.	
LPO	83.29	46	eP	10 47.60	0.0			eSn	44 23.00								
	0.9s		3.60nm		4.5mb	EHOR	2.27	328 ePn	43 58.66	0.6					? APR 18, 1993 05h 49m 25.00±7.00s		
RJF	83.37	45	eP	10 48.00	0.1			eSn	44 26.70						39.015 N ± 46.0km 23.808 E ± 41.9km		
	0.9s		7.35nm		4.8mb	IFR	2.64	206 iPn	44 04.50	1.0					DEPTH = 10.0km (geophysicist)		
TCF	83.59	44	eP	10 49.10	0.0			iSn	44 30.50						AEGEAN SEA (365)		
	0.7s		3.40nm		4.6mb			i	44 34.50			PAIG	0.92	354	ePg	49 42.74	0.2
CAF	83.84	45	eP	10 50.40	0.0			i	44 35.00						eSg	49 53.62	
	0.9s		3.75nm		4.5mb	EALH	2.70	43 ePn	44 04.06	-0.1		AGG	1.15	271	iPg	49 46.56	0.0
MAF	83.84	44	eP	10 50.40	0.1			eSn	44 38.80								

OUR 1.32 6 eSg 50 00.90
ePb 49 49.82 0.4
eSb 50 05.98
LIT 1.49 317 ePb 49 52.02 0.2
eSb 50 08.62
SRS 2.11 356 ePn 50 00.30 -0.4
KNT 2.26 342 iPn 50 02.34 -0.6
S.D. = 0.5 on 6 of 6 obs.

APR 18, 1993 06h 10m 38.08±0.60s
35.973 N ± 5.4km 3.665 W ± 5.8km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.0 (MDD).

EGUA 0.86 5 iPg 10 55.10 0.4
eSg 11 07.70
EMEL 0.89 139 iPg 10 55.05 0.0
eSg 11 05.80
MAL 0.96 322 ePn 10 58.00 1.6
iSg 11 10.00
ECOG 1.30 3 ePn 11 02.93 0.6
eSn 11 19.40
NKM 1.51 250 ePg 11 06.00 0.8
i 11 06.50
iSg 11 15.50
i 11 19.00
EJIF 1.53 289 ePn 11 04.39 -1.1
eSn 11 23.00
ENIJ 1.54 49 ePn 11 04.84 -0.8
eSn 11 25.10
EPRU 1.60 309 ePn 11 06.79 0.2
eSn 11 24.70
ELUO 1.66 343 ePn 11 07.55 0.2
eSn 11 28.60
EHUE 2.03 25 ePn 11 14.10 1.3
eSn 11 39.40
EHOR 2.24 326 ePn 11 15.43 -0.3
eSn 11 42.00
EALH 2.60 43 ePn 11 20.44 -0.5
IFR 2.73 207 iPn 11 23.50 0.6
iSn 11 49.50
i 11 52.50
i 11 53.00
EVIA 2.82 19 ePn 11 23.23 -0.9
eSn 11 56.50
EVAL 2.95 304 ePn 11 23.76 -2.1
eSn 11 57.20
S.D. = 1.1 on 15 of 15 obs.

? APR 18, 1993 06h 21m 46.65±4.69s
41.252 N ± 51.4km 28.691 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

CTT 0.22 242 iPg 21 51.40 -0.1
eSg 21 55.00
ISK 0.33 124 iPg 21 53.00 -0.6
iSg 21 57.00
HRT 0.86 120 iPg 22 03.50 0.3
YLV 0.86 143 iPg 22 03.50 0.3
S.D. = 0.7 on 4 of 4 obs.

& APR 18, 1993 06h 54m 04.04s
59.854 N 153.512 W
DEPTH = 141.5km
SOUTHERN ALASKA (2)
<AEIC>.

INW 0.29 42 iPc 54 22.96 0.6
INE 0.31 47 iPc 54 23.23 0.8
PDB 0.35 259 ePd 54 22.93 0.5
eS 54 37.99
AUL 0.48 175 eP 54 24.20 -0.3
AUI 0.52 175 eP 54 24.26 -0.5
RS1 0.72 31 ePc 54 25.37 -0.9
RS2 0.72 31 eP 54 25.43 -0.9
RSO 0.72 32 eP 54 25.43 -0.8
RDW 0.72 29 iPc 54 25.25 -1.0
NCT 0.77 22 iPc 54 25.55 -1.0
eS 54 42.09
MCNL 0.79 212 iPd 54 25.63 -0.9
eS 54 42.44
DFR 0.85 29 iPc 54 26.15 -1.0
eS 54 43.43
CNPM 1.20 105 iPc 54 29.12 -1.1

BRK 1.33 93 eS 54 48.29
ePc 54 30.46 -1.1
eS 54 50.36
SYI 1.37 155 eP 54 30.75 -1.2
eS 54 51.84
CKL 1.47 23 eP 54 32.06 -1.0
eS 54 54.20
CKT 1.50 25 iPd 54 32.26 -1.1
SPU 1.51 28 iPd 54 32.32 -1.2
eS 54 54.64
BGL 1.52 21 iPd 54 32.83 -0.8
CKN 1.52 25 ePd 54 32.73 -0.9
CP2 1.55 23 ePd 54 33.30 -0.8
CPAM 1.56 25 iPd 54 33.16 -0.9
eS 54 58.34
CRP 1.57 25 eP 54 32.25 -2.0
SVW 1.64 321 P 54 33.70 -1.2
SLKM 1.77 67 eP 54 34.90 -1.5
SEW 2.06 81 iPc 54 38.24 -1.5
eS 55 04.48
SUA 2.11 39 ePd 54 39.01 -1.6
eS 55 06.53
MPA 2.17 71 eP 54 39.92 -1.2
KDC 2.18 165 (P) 54 35.11 -6.1
SKT 2.34 24 eP 54 41.68 -1.6
PMS 2.40 53 P 54 42.00 -2.0
PTE 2.45 64 eP 54 42.29 -2.3
PWA 2.54 43 P 54 45.20 -0.5
GHO 2.96 47 iPc 54 48.34 -2.8
SCM 3.62 54 eP 54 58.45 -1.4
VLZ 3.78 67 eP 55 00.40 -1.4
TRF 3.92 22 eP 55 01.59 -2.4
KLU 4.08 63 eP 55 04.13 -1.8
38 obs. associated

APR 18, 1993 07h 14m 47.34±0.51s
6.772 N ± 6.8km 72.929 W ± 7.6km
DEPTH = 167.0 ± 7.4 km
4.5mb (5 obs.)

NORTHERN COLOMBIA (99)
FUO 1.52 212 iP 15 18.00 -1.2
BOG 2.42 208 eP 15 29.00 -0.1
iS 16 01.00
SDV 3.10 47 iPnd 15 38.30 1.0
iSn 16 16.50
TOV 4.31 46 iPd 15 53.30 0.4
iPP 15 53.80
CEOS 5.07 63 iPc 16 02.40 -0.5
MORO 6.11 48 iPd 16 15.80 -0.9
GUAC 6.55 58 iPc 16 22.40 -0.1
PSO 7.07 219 eP 16 29.50 -0.2
LLAV 7.08 58 iPd 16 28.70 -0.9
PCJ 11.66 340 iPd 17 30.80 1.0
GWJ 11.83 342 iPd 17 33.04 0.9
STH 11.86 342 iPd 17 32.82 0.4
S 19 31.76
BBJ 12.29 340 iPd 17 39.51 1.5
CNCB 23.94 168 P 19 51.00 2.9
i 20 24.30
GBTN 30.57 342 eP 20 47.72 0.4
GBT 33.01 335 (P) 21 08.25 -0.3
FVM 34.89 335 eP 21 24.18 -0.4
0.4s 22.07nm 5.2mb
WMOK 36.63 323 iPc 21 37.47 -1.8
0.6s 5.18nm 4.4mb
GOL 43.85 323 iPd 22 38.91 0.0
0.6s 7.90nm 4.5mb
SRU 46.70 319 eP 23 00.96 -0.5
ULM 47.40 340 ePc 23 07.90 1.5
MSU 47.47 318 iPc 23 07.45 0.0
LCCM 51.41 326 eP 23 36.40 -1.0
FRB 56.95 2 eP 24 15.50 -1.5
YKA 63.37 340 eP 24 59.20 -1.5
0.5s 6.10nm 4.8mb
INK 73.14 340 eP 26 01.50 0.6
MBC 73.89 350 eP 26 05.50 0.4
0.6s 3.00nm 4.2mb
WB2 150.47 241 ePKP 34 20.80 5.1X
0.4s 4.80nm
WRA 150.48 241 PKP 34 21.50 5.7X
0.4s 1.00nm
S.D. = 1.1 on 27 of 29 obs.

? APR 18, 1993 07h 27m 51.92±2.37s
14.742 N ± 38.7km 91.148 W ± 15.4km
DEPTH = 33.0km (normol)

3.8mb (1 obs.)
GUATEMALA (70)
TPX 1.09 279 iP 28 11.00 0.1
IS 28 25.00
SCX 2.45 324 eP 28 41.00 10.6X
OXX 5.85 294 iP 29 20.00 1.2
(S) 30 20.00
IISM 7.31 306 iP 29 42.50 3.4X
III 8.76 296 (P) 29 57.50 -2.0
MRX 10.79 299 (P) 30 35.50 8.3X
ALQ 24.38 328 eP 33 10.00 1.4
1.0s 3.00nm 3.8mb
JAO 40.82 14 eP 35 31.00 -0.9
GBA 149.65 22 PKP 47 36.00 0.2
S.D. = 1.7 on 6 of 9 obs.

* APR 18, 1993 07h 44m 59.45±1.10s
41.113 N ± 10.1km 123.498 E ± 12.8km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
NORTHEASTERN CHINA (658)
ML 4.2 (BJI).

SNY 0.72 5 iPg 45 12.60 -0.9
Sg 45 21.60
DL2 2.63 214 Pg 45 46.00 3.3X
Pgc 46 20.80
CN2 3.05 28 ePn 45 49.70 1.1
ePg 45 55.20
eSn 46 24.00
eSg 46 35.00
BJI 5.68 262 ePn 46 25.00 -0.9
eSg 47 56.00
MDJ 5.68 50 Pg 46 43.50 17.5X
TIA 6.99 228 ePn 46 42.40 -1.9
eSn 48 03.00
HHC 9.03 272 P 47 12.80 -0.1
TIY 9.21 252 eP 47 16.10 0.7
Z 16s 0.71um
N 13s 0.51um
NJ2 9.78 204 eP 47 24.00 0.9
BTO 10.23 272 eP 47 30.90 1.5
LZH 16.16 258 eP 48 50.00 1.7
GTA 18.15 272 eP 49 12.50 -0.7
2.0s 27.00nm 4.0mb
GYA 20.18 229 eP 49 36.40 -0.6
YAK 21.27 B eP 49 51.00 3.2X
e(S) 56 17.00
KMI 23.50 234 eP 50 15.00 4.5X
1.5s 50.00nm 4.9mb
NB2 64.36 330 P 55 36.50 -0.8
0.9s 3.70nm 4.6mb
S.D. = 1.3 on 12 of 16 obs.

& APR 18, 1993 08h 10m 54.19s
59.895 N 153.443 W
DEPTH = 126.3km
SOUTHERN ALASKA (2)
<AEIC>.

INW 0.23 42 iPc 11 11.15 0.7
eS 11 25.01
INE 0.25 49 iPc 11 11.37 0.8
PDB 0.39 254 iPc 11 11.54 -1.0
eS 11 25.09
AUL 0.51 180 eP 11 12.78 -0.4
RS1 0.66 31 ePc 11 13.54 -0.9
RS2 0.67 31 iPc 11 13.65 -0.8
RSO 0.67 31 iPc 11 13.50 -0.9
RDW 0.67 28 iPc 11 13.48 -1.0
RDN 0.71 28 eP 11 13.81 -0.9
NCT 0.72 21 iPc 11 13.81 -0.9
DFR 0.79 28 iPc 11 14.34 -1.0
MCNL 0.85 213 iPd 11 14.74 -0.9
CNPM 1.18 107 iPc 11 17.69 -1.2
eS 11 36.33
BRK 1.30 95 ePd 11 19.12 -1.0
NKA 1.39 51 eP 11 22.02 0.9
SYI 1.40 157 eP 11 20.39 -0.8
CKL 1.42 22 iPc 11 20.82 -0.7
CKT 1.45 24 ePc 11 20.90 -1.0
SPU 1.46 27 iPc 11 21.04 -1.0
BGL 1.47 20 iPc 11 21.90 -0.2
CKN 1.47 25 iPc 11 22.33 0.2
CP2 1.50 23 eP 11 21.74 -0.8
CRP 1.52 24 eP 11 21.37 -1.4

18d 08h

SLKM 1.72 68 eP 11 23.55 -1.5
 SEW 2.02 82 eP 11 27.18 -1.4
 SUA 2.06 39 iPd 11 28.35 -0.9
 MPA 2.12 72 iPc 11 28.57 -1.4
 KDC 2.21 167 eP 11 28.18 -2.8
 SKT 2.29 23 ePc 11 31.25 -0.9
 PMS 2.35 53 P 11 31.30 -1.5
 PTE 2.40 64 eP 11 31.75 -1.7
 PWA 2.48 43 P 11 33.70 -0.8
 GHO 2.91 48 eP 11 37.81 -2.3
 SML 3.15 50 eP 11 41.09 -2.3

34 obs. associated

APR 18, 1993 08h 28m 47.51±0.25s
 18.353 S ± 4.5km 69.440 W ± 6.0km
 DEPTH = 125.8km (11 depth phases)
 5.1mb (36 obs.)

NORTHERN CHILE

(123)

CNCB 2.07 42 P 29 25.20 2.0
 LPB 2.22 35 iPd 29 27.00 2.1
 ZOBO 2.42 31 iPd 29 29.10 1.4
 CCH 3.29 73 iPd 29 39.50 0.6
 YJA 5.30 136 ePc 30 08.50 2.4
 ANT 5.40 190 iP 30 06.80 -0.2
 HJA 6.13 143 iPd 30 19.40 2.3

SLA 7.33 151 ePd 30 34.90 1.4
 FSA 8.32 158 iP 30 47.50 0.8
 NNA 9.54 311 iPd 31 01.50 -1.7
 0.5s 10.56nm 4.8mb

CYA 10.59 162 ePd 31 32.80 15.8X
 CFA 13.24 176 ePd 31 50.20 -1.6
 RTCV 13.47 177 ePc 31 52.50 -2.3
 MRA 14.40 167 ePc 32 04.00 -2.5
 PEL 14.77 184 iPd 32 13.00 1.7
 RFA 16.38 177 ePd 32 29.80 -1.6
 PPD 17.40 185 eP 32 43.40 -0.6

BAO 20.69 86 iPd 33 17.20 -2.4
 33 20.10 11kmX
 33 51.00
 VAO 21.52 186 eP 33 25.70 -2.1
 33 39.30 58kmX
 33 44.30

CDCB 23.40 99 eP 33 44.10 -2.1
 33 45.70 6kmX
 33 46.30
 SDV 27.09 357 iPc 34 17.80 -2.8
 TOV 27.96 359 eP 34 21.30 -7.0X
 SGS 52.33 348 eP 37 47.06 -1.4
 GOGA 53.19 345 ePc 37 53.02 -1.7
 0.5s 11.85nm 5.1mb

JSC 53.53 348 eP 37 55.88 -1.3
 PRM 53.58 347 eP 37 56.54 -1.0
 38 26.86 129km
 GBTN 55.52 345 ePd 38 10.04 -1.6
 NAV 56.39 349 ePc 38 16.94 -1.1
 38 51.16 146kmX
 CVL 56.67 351 ePc 38 18.47 -1.4
 38 49.25 130km
 PpP 39 14.63

MIAR 57.40 336 ePc 38 24.35 -0.7
 0.5s 13.81nm 5.2mb
 UYO 57.41 335 iPc 38 24.90 -0.2
 OLY 57.49 339 ePc 38 24.19 -1.5
 38 54.39 126km
 GRT 57.52 341 eP 38 24.30 -1.5
 ELC 58.40 342 iPc 38 30.56 -1.4
 TBR 59.35 356 eP 38 37.76 -0.7
 FVM 59.41 341 ePc 38 37.85 -1.1
 0.6s 128.13nm 6.1mb X

MEO 59.66 332 iPd 38 39.10 -1.7
 WMOK 59.71 332 ePd 38 40.02 -1.1
 0.5s 4.55nm 4.8mb
 OCO 59.81 334 iPd 38 42.80 1.0
 ACO 61.52 333 e(P) 38 53.50 0.1
 TYNO 61.89 351 P 38 54.41 -1.2
 STCO 61.90 352 P 38 54.61 -1.1
 ACTO 62.42 351 P 38 58.42 -0.7
 WLVO 62.51 353 P 38 58.66 -1.0
 RSNY 62.77 356 ePd 39 00.24 -1.2
 0.7s 37.62nm 5.4mb

EMM 62.81 2 ePc 39 00.42 -1.2

ALO 63.60 326 eP 39 07.79 0.4
 0.5s 1.88nm 4.3mb
 GAC 63.98 355 ePc 39 09.50 0.2
 LMN 64.03 4 ePc 39 11.00 1.3
 HNME 64.22 1 P 39 15.52 4.7X
 EEO 65.27 353 ePc 39 19.20 1.6
 GOL 66.78 330 eP 39 27.58 -0.2
 0.9s 7.70nm 4.6mb

LIC 68.03 75 P 39 34.20 -1.5
 TIC 68.20 75 P 39 35.60 -1.2
 KIC 68.35 75 P 39 36.40 -1.3
 0.6s 282.00nm 6.3mb X
 LKO 68.82 72 P 39 39.42 -1.2
 0.7s 165.50nm 6.0mb

SRU 68.88 327 eP 39 41.28 0.5
 MSU 69.32 325 eP 39 45.18 1.7
 40 15.55 122km
 ARUT 69.49 324 ePd 39 46.56 2.1
 GSC 69.75 320 (P) 39 48.28 2.3
 RSSD 69.76 334 ePd 39 46.43 0.4
 0.4s 3.84nm 4.6mb

SPA 71.77 180 iPc 40 31.30 33.5X
 0.9s 19.55nm
 HVU 72.00 327 eP 39 59.56 0.0
 JAO 72.06 356 eP 39 57.00 -2.4
 ULM 72.18 343 ePc 40 02.40 2.2
 40 35.00 131km

LCCM 74.56 331 eP 40 15.40 1.1
 NTYM 75.33 319 eP 40 20.76 2.2
 ORV 75.35 321 eP 40 20.94 2.2
 40 52.06 123km
 LBFM 76.71 322 eP 40 28.48 1.8
 40 59.08 121km
 NEW 78.79 330 eP 40 38.12 0.5
 1.0s 6.34nm 4.4mb

DPW 79.04 329 eP 40 40.85 1.8
 FCC 79.47 347 eP 40 44.50 3.5X
 BMW 80.70 326 eP 40 49.92 2.0
 EVAL 81.02 46 eP 40 50.50 0.8
 EPRU 81.74 47 eP 40 55.20 1.7
 FRB 81.83 0 eP 40 53.00 -0.2
 ECOG 83.05 47 eP 41 01.00 0.6
 ERUA 83.29 41 iPd 41 02.10 0.7
 PAB 83.64 45 iPc 41 04.00 0.7
 1.0s 50.00nm 5.3mb

EMON 83.73 40 iPc 41 03.80 0.2
 EHUE 83.99 47 iPd 41 04.90 -0.2
 GUD 84.31 44 eP 41 07.50 0.8
 EVIA 84.45 46 eP 41 08.00 0.6
 ETOR 85.79 45 eP 41 14.50 0.5
 ECRU 86.35 43 iPc 41 17.50 0.8
 EGRA 87.59 44 iPd 41 25.10 2.6
 YKA 88.07 341 eP 41 25.50 1.1
 0.6s 17.00nm 5.3mb

EPF 88.40 44 iPc 41 26.90 0.4
 0.5s 7.75nm 5.0mb
 SALF 88.84 44 P 41 29.33 0.7
 LESF 89.02 44 P 41 29.56 0.2
 BCOA 89.46 85 iPd 41 32.00 -0.1
 0.8s 11.00nm 5.0mb

LFF 89.52 42 eP 41 31.70 0.1
 0.6s 51.95nm 5.8mb
 VDCF 89.54 45 P 41 32.19 0.3
 LPO 89.69 42 eP 41 32.40 -0.1
 0.7s 22.60nm 5.4mb

MFF 89.72 40 iPc 41 32.30 -0.2
 1.0s 17.60nm 5.1mb
 MTHF 89.80 44 P 41 32.74 -0.3
 LPF 89.85 39 iPc 41 32.40 -0.7
 0.6s 11.65nm 5.1mb

GRR 90.12 38 iPc 41 33.70 -0.6
 0.6s 26.80nm 5.5mb
 RJF 90.17 42 iPc 41 34.40 -0.3
 0.6s 10.10nm 5.1mb
 CAF 90.36 42 iPc 41 35.50 -0.1
 0.6s 11.45nm 5.2mb

FLN 90.52 38 iPc 41 35.60 -0.5
 0.9s 29.15nm 5.4mb
 LSF 90.60 41 eP 41 36.20 -0.4
 0.7s 8.05nm 5.0mb
 LDF 90.65 38 iPc 41 36.30 -0.5
 0.7s 23.90nm 5.4mb
 TCF 91.04 41 eP 41 38.20 -0.5
 1.1s 10.75nm 4.9mb

MAF 91.23 41 eP 41 39.30 -0.2
 BGF 91.55 41 eP 41 40.70 -0.3
 AVF 91.97 41 eP 41 42.30 -0.6
 0.7s 3.75nm 4.7mb
 SSB 92.10 43 P 41 43.92 0.3
 SSF 92.18 41 iPc 41 43.00 -0.8
 0.8s 7.50nm 5.0mb

SMF 92.21 41 iPc 41 43.80 -0.2
 1.0s 13.80nm 5.1mb
 LOR 92.48 41 eP 41 44.30 -1.0
 0.6s 3.50nm 4.8mb
 RSL 93.61 43 P 41 50.83 0.2
 LPL 93.61 43 eP 41 51.40 0.6
 0.6s 6.05nm 5.1mb

LPG 93.61 43 eP 41 51.50 0.6
 0.9s 9.50nm 5.1mb
 HAU 94.32 41 eP 41 53.30 -0.4
 0.6s 6.75nm 5.2mb
 BSF 94.53 41 eP 41 54.10 -0.7
 0.6s 4.70nm 5.0mb

CDF 95.05 41 eP 41 56.60 -0.5
 0.6s 4.70nm 5.0mb
 INK 97.83 340 eP 42 11.00 1.9
 GRF 97.93 40 iPc 42 10.50 0.5
 0.8s 9.00nm 5.3mb
 MBC 99.06 349 eP 42 16.00 1.4
 GEC2 99.21 42 ePd 42 15.90 -0.1
 0.7s 1.58nm 4.7mb

KLU 99.68 332 (P) 42 21.72 3.9X
 WB2 135.35 213 ePKP 47 55.50 0.7
 0.4s 3.50nm
 IRK 145.80 7 ePKPc 48 14.00 1.5
 1.3s 50.00nm
 e 48 48.50

GBA 147.84 94 PKPc 48 21.00 4.2X
 WMO 148.15 32 iPKPc 48 21.00 4.3X
 HYB 149.54 87 ePKP 48 21.50 2.0
 1.0s 40.00nm
 e 48 39.00
 e 49 05.50

CN2 151.70 337 ePKP 48 29.00 7.1X
 S.D. = 1.3 on 119 of 128 obs.
 * APR 18, 1993 08h 34m 58.86±1.73s
 14.843 N ± 23.7km 93.201 W ± 11.9km
 DEPTH = 77.1 ± 11.3 km
 NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 0.91 86 iP 35 17.00 0.1
 IS 35 29.00
 SCX 1.96 16 iP 35 30.50 -0.2
 IS 35 52.00
 OXX 4.05 304 iP 35 59.50 -0.5
 IISM 5.74 316 (P) 36 24.00 0.6
 INK 59.31 344 eP 44 55.00 0.4
 MBC 62.94 353 eP 45 18.50 -0.5
 S.D. = 0.7 on 6 of 6 obs.

% APR 18, 1993 08h 55m 10.12±0.65s
 39.250 N ± 5.0km 28.057 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

DST 0.57 51 iPg 55 20.80 -0.9
 eSg 55 28.80
 KCT 1.02 13 iPg 55 30.00 0.5
 eSg 55 43.00
 IZM 1.05 216 iPg 55 29.90 -0.1
 ISg 55 44.90

EDC 1.11 352 iPg 55 31.50 0.6
 BNT 1.11 355 iPg 55 30.00 -0.9
 KHL 1.47 128 ePn 55 36.80 0.0
 ALT 1.61 96 ePn 55 39.10 0.4
 YLV 1.66 37 ePn 55 40.50 1.1
 CTT 1.92 8 ePn 55 42.90 -0.2
 HRT 2.00 38 iPn 55 44.50 0.2
 EYL 2.08 50 ePn 55 45.00 -0.6
 S.D. = 0.7 on 11 of 11 obs.

APR 18, 1993 09h 16m 23.22±0.11s
 11.652 S ± 2.3km 76.530 W ± 2.5km
 DEPTH = 106.3km (geophysicist)
 6.0mb (120 obs.)
 CENTRAL PERU (116)
 Mw 6.3 (GS), 6.3 (HRV), mb 5.8
 (BRK). Six people killed,

including 3 killed by earthquake-induced landslides at Lima. Thirty houses destroyed (VI) at Lima. Felt (V) at Chimbote and Huacho; (IV) at Ica and Trujillo; (III) at Huancayo and Huaraz; (II) at Chiclayo. Depth from broadband displacement seismograms. FAULT PLANE SOLUTION: P-Waves NP1:Strike= 35 Dip=70 Slip=-33 NP2: 138 59 -157 Principal Axes: T Plg= 7 Azm= 88 P 37 353 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: 10 Facal mech. F Energy 4.8±1.0*10**12 Nm MOMENT TENSOR SOLUTION Dep 107 No. of sta: 18 Moment Tensor; Scale 10**18 Nm Mrr=-1.85 Mtt=-0.40 Mff= 2.25 Mrt=-1.65 Mrf=-0.38 Mtf= 0.56 Principal axes: T Val= 2.50 Plg=11 Azm=107 N 0.43 31 204 P -2.93 57 360 Best Double Couple:Mo=2.7*10**18 NP1:Strike=165 Dip=43 Slip=-138 NP2: 42 63 -55 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 44S, **C M.W.: 35S, 62C Centroid Location: Origin Time 09:16:29.7 0.1 Lat 11.67S 0.01 Lan 76.58W 0.01 Dep 113.4 0.7 Half-duration 3.4 Moment Tensor; Scale 10**18 Nm Mrr=-1.11 0.03 Mtt=-1.70 0.02 Mff= 2.81 0.03 Mrt=-1.33 0.02 Mrf= 0.35 0.02 Mtf= 0.17 0.03 Principal Axes: T Val= 2.84 Plg= 5 Azm=271 N -0.05 51 175 P -2.79 39 5 Best Double Couple:Mo=2.8*10**18 NP1:Strike= 40 Dip=60 Slip=-26 NP2: 144 67 -147

NNA 0.45 222 ePnc 16 37.58 -2.0
ZOBO 9.36 120 (Pn) 18 34.87 -2.6
LPB 9.51 122 iPc 18 37.20 -2.1
1.0s 1460.00nm 6.8mb
S 20 12.00
LR 21 17.00

CNCB 9.75 123 iPc 18 40.20 -2.4
VC1 11.10 350 P 19 00.50 -0.1
ANTI 11.24 352 P 19 01.01 -1.5
CCH 11.56 121 P 19 03.50 -3.1X
GGP 11.59 350 P 19 06.90 -0.2
CAYA 11.74 353 P 19 08.17 -1.0
ANT 13.32 155 eP 19 24.00 -5.3X
YJA 14.85 136 ePd 19 46.50 -2.9
HJA 15.64 139 eP 19 59.30 0.4
BOG 16.35 9 iPd 20 12.00 3.7X
iS 23 24.00
SLA 16.69 143 eP 20 11.00 -1.2
i 20 12.90

FUO 17.23 9 eP 20 24.00 4.9X
FSA 17.45 147 iP 20 21.00 -0.4
CYA 19.49 151 ePd 21 01.20 16.7X
RTPR 20.76 155 ePd 20 56.70 -0.7
RTBS 20.96 163 e(P)d 21 01.50 2.1
SDV 21.23 16 iPd 21 03.10 0.6
CFA 21.28 160 ePd 21 01.90 -0.8
S 21 27.00

RTCV 21.42 161 ePd 21 03.50 -0.6
PEL 22.05 167 eP+ 21 11.00 0.7
CEOS 22.10 22 iPc 21 12.20 1.2
MDZ 22.28 163 eP 21 15.30 2.7X

TOV 22.33 18 iPd 21 14.20 1.1
PLAV 23.19 23 iPc 21 23.20 1.5
GUAC 23.57 23 iPd 21 27.10 1.8
MORO 23.82 20 iPc 21 28.40 0.7
CAR 23.99 24 eP 21 30.70 1.3
LLAV 24.01 24 iPd 21 30.50 1.0
RFA 24.16 164 ePd 21 31.30 0.5
i 21 55.30
PPD 26.21 116 eP 21 50.30 0.3
e 22 16.80
e 22 37.70
e 26 15.50

TCE 26.62 34 eP 21 54.91 1.2
TRN 26.77 35 eP 21 55.73 0.7
TBH 26.83 36 eP 21 57.06 1.5
PIG 27.51 35 eP 22 03.71 2.0
TPR 27.56 35 eP 22 03.36 1.1
BOT 27.58 35 eP 22 03.69 1.3
GRW 27.88 32 eP 22 04.93 -0.3
BAO 28.00 101 eP 22 05.50 -0.9
e 22 36.80
i 26 42.00
iLR 33 15.00

BDF 28.09 101 ePc 22 06.74 -0.4
YUP 28.86 333 ePd 22 15.43 1.3
FCV 28.94 32 eP 22 12.89 -1.8
SVB 29.03 32 eP 22 13.51 -2.0
IXG 29.14 331 ePc 22 18.08 1.5
PCJ 29.21 359 iPd 22 18.35 1.3
HOJ 29.46 360 iPd 22 21.35 2.1
GCG 29.53 332 ePc 22 22.09 2.0
GWJ 29.54 360 iPd 22 21.41 1.3
STH 29.54 359 iPd 22 21.10 1.1
SLB 29.61 32 eP 22 18.52 -2.1
BVA 29.65 332 ePd 22 22.89 1.6
SLW 29.83 32 eP 22 20.71 -1.8
BBJ 29.85 359 iPd 22 24.16 1.4
BIM 30.18 31 eP 22 24.70 -0.9
MVM 30.30 31 iPc 22 25.93 -0.8
FDF 30.32 31 eP 22 25.99 -0.9
VAO 30.33 116 eP 22 25.90 -1.1
e 22 32.00
e 22 53.50

CRM 30.46 31 eP 22 27.03 -1.0
TPX 30.64 329 (P) 22 31.50 1.8
DPMT 30.66 30 eP 22 28.06 -1.7
MDN 30.70 30 eP 22 28.56 -1.6
MGP 30.91 18 iP 22 32.00 0.0
PNP 31.08 18 iP 22 33.20 -0.3
PORP 31.09 18 iP 22 33.10 -0.5
PAG 31.18 28 eP 22 32.00 -2.5
LRS 31.25 18 iP 22 34.80 -0.3
MGG 31.26 29 eP 22 33.00 -2.1
SJJ 31.30 19 iP 22 35.00 -0.5
CPD 31.31 20 iP 22 34.80 -0.7
APR 31.44 18 iP 22 36.00 -0.6
MGH 31.54 27 eP 22 37.00 -0.6
LPR 31.57 20 iP 22 37.00 -0.9
DEG 31.72 29 eP 22 36.00 -3.2X
BPA 31.99 27 eP 22 40.00 -1.5
CPB 32.53 27 eP 22 44.07 -2.0
OXX 34.83 325 (P) 23 07.00 0.7
ACX 36.54 320 (P) 23 22.50 2.1
IISM 36.73 326 (P) 23 25.00 3.0X
III 37.45 323 (P) 23 30.50 2.2
PPM 37.50 324 (P) 23 31.50 2.4X
IIA 37.58 324 (P) 23 32.50 3.4X
UNM 38.03 324 (P) 23 35.00 1.8
CRX 38.38 323 (P) 23 39.50 3.3X
MRX 39.51 322 (P) 23 48.00 2.8X
CGX 40.92 319 (P) 24 00.00 3.0X
AGX 41.83 323 (P) 24 07.50 3.3X
HBF 44.48 355 ePd 24 23.46 -2.1
epP 24 54.17 136kmX
SGS 44.75 355 eP 24 26.76 -0.9
epP 24 56.13 129kmX
GOGA 45.29 352 iPd 24 31.16 -0.9
1.0s 504.00nm 6.3mb
Z 19s 4.32um 5.4msz
epP 24 59.02 121kmX
isPc 25 07.74
S 31 07.19

PRM 45.82 353 ePd 24 35.45 -0.7
JSC 45.90 355 ePd 24 35.92 -0.8
LHS 46.05 355 eP 24 36.46 -1.5
CEH 47.34 357 iPd 24 47.24 -0.9

1.1s 696.11nm 6.4mb
isPc 25 24.81
ePP 26 38.88
TKL 47.55 352 ePd 24 48.12 -1.7
GBTN 47.62 352 ePd 24 48.84 -1.5
e 25 22.39
UYO 48.65 340 iPd 24 57.80 -0.5
MIAR 48.71 341 iPd 24 58.73 0.0
1.0s 695.06nm 6.5mb
epP 25 26.57 119kmX
isPc 25 35.48
iPP 26 57.07
isPP 27 31.01
BLA 48.74 356 ePd 24 58.45 -0.5
1.0s 315.22nm 6.2mb
NAV 48.87 355 ePd 24 59.09 -0.9
OLY 48.98 344 ePd 24 59.54 -1.3
GRT 49.18 346 eP 25 00.58 -1.8
CVL 49.40 358 eP 25 03.72 -0.3
NA2 49.53 359 eP 25 04.98 0.1
pP 25 33.66 123kmX
sP 25 44.37

CBN 49.60 359 eP 25 05.10 -0.4
ELC 50.12 347 ePd 25 07.42 -2.0
FNO 50.67 338 iPd 25 13.50 -0.2
MEO 50.70 336 iPc 25 12.60 -1.4
WMOK 50.73 336 P 25 13.02 -1.2
1.3s 468.86nm 6.3mb
OCO 50.93 338 iPc 25 16.80 1.1
FVM 51.06 346 ePd 25 14.74 -1.9
1.0s 481.98nm 6.4mb
Z 18s 5.93um 5.6msz
pP 25 41.64 114kmX
MCWV 51.14 357 ePd 25 16.32 -0.9
0.8s 246.96nm 6.3mb
esPc 25 52.74
CCM 51.33 345 ePd 25 16.60 -2.1
isPc 25 53.51
SLM 51.64 346 P- 25 19.42 -1.6
PP 27 22.02
e 33 37.63

GMTN 52.31 2 iP 25 26.10 0.1
PNJ 52.34 2 iP 25 26.17 0.0
i 25 50.35
GPD 52.44 2 ePd 25 26.23 -0.7
e 25 52.62
PcP 26 35.02
PAL 52.44 3 ePd 25 25.79 -1.2
TBR 52.57 2 eP 25 27.81 -0.1
pP 25 55.65 117kmX
PcP 26 35.98
ACO 52.60 337 iPc 25 27.10 -1.1
CRNY 52.77 3 ePc 25 28.98 -0.3
pP 25 52.11 95kmX
HRV 54.08 5 eP 25 37.92 -1.1
1.3s 698.45nm 6.5mb
Z 22s 2.57um 5.2msz
pP 26 04.38 110kmX
esPc 26 15.33
ePP 27 43.38
eS 33 10.73
e 33 56.75

AIA 54.20 174 e(P) 25 48.00 8.5X
ALQ 54.33 330 P 25 40.41 -0.8
1.2s 412.34nm 6.3mb
Z 22s 4.04um 5.4msz
S 33 13.99
ANMO 54.33 330 iPd 25 40.84 -0.4
iS 33 11.43
iScS 35 18.06
eSS 37 00.26

DLA 54.44 355 P 25 39.40 -2.2
TYNO 54.56 357 P 25 41.02 -1.5
LDN 54.59 356 P 25 40.60 -2.1
TUC 54.62 324 iPd 25 42.45 -0.8
2.1s 1009.09nm 6.5mb
Z 19s 1.44um 5.1msz
e 26 02.48
pP 26 06.46 98kmX
isPc 26 19.36
ePcP 26 41.71

STCO 54.64 358 P 25 41.79 -1.3
ELF 54.75 356 P 25 41.80 -2.1
ACTO 55.09 357 P 25 44.70 -1.6
WLVO 55.33 358 P 25 46.91 -1.1
RSNY 55.96 2 ePc 25 52.02 -0.5
1.0s 338.80nm 6.3mb

Z	21s	2.04um	33	38.72	5.2Msz	SAO	64.05	321	eP	26	48.14	0.2	CROR	69.21	328	P	27	21.18	0.7
		S	25	53.92			2.1s	854.39nm				6.3mb	PMO	69.26	258	iPd	27	21.50	0.3
BNH	56.18	5 ePd	25	53.92	-0.2			e	33	53.25				1.3s	501.10nm				6.2mb
EMM	56.72	8 eP	25	57.88	-0.1			S	35	26.08			TBT	69.36	53	ePd	27	20.93	-0.7
MIM	57.03	6 eP	26	00.17	0.0			e	40	37.57						ePc	27	48.91	111kmX
GAC	57.09	1 ePd	26	00.50	0.0	CMB	64.23	323 (P)	26	49.43	0.3					iS	36	22.75	
GLA	57.53	322 eP	26	03.80	-0.2		1.4s	190.00nm			5.8mb					eSKS	37	04.96	
		sP	26	39.75				ed	27	07.97						e	40	32.02	
GOL	57.70	334 P	26	04.09	-1.2			iSPc	27	24.35			VGB	69.47	328	iPd	27	22.43	0.4
	1.1s	166.44nm			6.0mb			ePcPd	27	33.68			VBEM	69.58	328	P	27	23.35	0.5
Z	20s	1.89um			5.2Msz			iS	35	21.09			NEW	69.65	332	ePd	27	22.70	-0.3
HNME	58.05	7 iPd	26	12.42	5.1X			eS	35	58.68				0.9s	316.49nm				6.1mb
EEO	58.07	358 ePd	26	08.50	1.1			iScS	36	31.17			WAH2	69.72	330	P	27	23.66	0.2
		pP	26	40.50	134kmX			e	37	29.68			DPW	69.86	332	ePd	27	24.21	-0.2
LMN	58.20	10 eP	26	10.50	2.1			eSS	39	48.68						sP	28	02.39	
		pP	26	34.50	97kmX			eLO	43	11.68			COR	70.18	326	ePd	27	26.76	0.5
CBM	58.80	7 iPd	26	11.95	-0.5	MBO	64.46	68	iPc	26	52.30	1.4				eSPc	28	04.00	
	1.0s	394.55nm			6.5mb			iS	35	25.50						eS	36	31.75	
Z	19s	1.38um			5.1Msz	ARN	64.48	321	ePd	26	50.98	0.2				eSKS	37	10.98	
		eSPc	26	50.03				sP	27	27.37						e	37	15.78	
		ePP	28	21.89		TPMT	64.51	333	ePd	26	52.90	1.8	TVO	70.24	255	iPd	27	27.70	0.5
		eScP	30	55.50				e	27	30.08				1.5s	735.40nm				6.3mb
PFO	58.91	321 (P)	26	13.43	-0.2	MHC	64.54	321	ePd	26	51.74	0.5	SAW	70.30	331	P	27	27.53	0.5
		iSPc	26	50.51			2.3s	1450.00nm			6.5mb	ASR	70.32	328	P	27	27.79	0.5	
		iS	34	15.30				e	27	19.89		PAE	70.56	255	iPd	27	29.40	0.3	
		iScS	35	52.97				iPP	27	29.14	157kmX			1.7s	697.00nm				6.2mb
PLM	58.98	321 iPd	26	14.35	0.1	GCC	64.56	321	iPd	26	51.28	0.1	PPT	70.57	255	iPd	27	29.70	0.5
		sP	26	53.50				iPP	27	27.98	154kmX			1.7s	611.70nm				6.2mb
PEC	59.53	321 iPd	26	17.71	-0.1	MEMT	64.89	334	ePd	26	52.83	-0.7	WTV	70.57	331	P	27	28.78	0.1
	1.2s	235.96nm			6.2mb			e	27	31.75		SHW	70.68	328	eP	27	29.35	-0.1	
		sP	26	54.89		STAN	64.91	321	ePd	26	53.95	0.5	AFR	70.76	255	iPd	27	30.80	0.5
SRU	59.61	330 iPd	26	17.62	-0.8		2.3s	2550.00nm			6.7mb			0.8s	276.20nm				6.1mb
		sP	26	55.02				i	27	21.55		LON	70.83	329	ePd	27	29.79	-0.5	
MSU	59.99	328 iPd	26	20.74	-0.4	BGMT	65.07	333	ePd	26	54.07	-0.6			S	36	59.91		
SSK	60.07	321 iPd	26	21.87	0.2	PCC	65.10	321	iPd	26	54.83	0.2	KMOR	70.96	327	P	27	31.79	0.6
		sP	26	58.35		MCMT	65.12	332	ePd	26	54.78	-0.2	BMW	71.38	328	iPd	27	33.90	0.3
VTV	60.09	322 iPd	26	20.10	-1.4			e	27	33.59				sP	28	11.36			
		eSP	26	56.19		JAO	65.20	1 ePd	26	52.40	-2.6	FCC	71.61	350	ePd	27	36.10	1.5	
		ePP	28	23.08		BKS	65.25	321	ePd	26	56.09	0.5	GMW	71.86	329	iPd	27	36.09	-0.3
		iS	34	29.09			1.0s	210.00nm			6.0mb			sP	28	14.01			
		eScS	35	58.20				ed	27	24.79		JCW	71.87	330	P	27	35.90	-0.5	
		eSS	37	44.65				iPP	27	32.98	154kmX		ONR	71.92	328	P	27	37.43	0.7
ARUT	60.12	327 iPd	26	22.13	0.2			iS	35	36.09		MCW	72.64	330	iPd	27	41.62	0.6	
		sP	26	59.26				i	36	49.09				sP	28	19.15			
GSC	60.27	322 ePd	26	23.08	0.2			eSS	40	01.09		STW	72.71	329	P	27	42.10	0.8	
		ePd	26	49.40	107kmX	ZSP	65.30	321	iPd	26	55.87	-0.1	PGC	72.93	330	iPc	27	43.50	1.0
		iSPc	26	59.99		SXM	65.43	334	ePd	26	56.48	-0.4			1.0s	229.00nm			5.9mb
		iS	34	33.00				e	27	34.86		LIC	73.30	80	Pd	27	44.20	-1.2	
		iScS	36	03.50		LCCM	65.47	334	ePd	26	56.40	-0.7		Z	20s	7.00um			5.9Msz
EMUT	60.30	330 iPd	26	22.58	-0.6			e	27	36.03				73.41	79	P	27	45.00	-1.1
		sP	27	00.22		LRM	65.71	333	ePd	26	47.17	-11.6X	LKO	73.59	76	Pd	27	46.20	-0.9
RSSD	60.88	338 eP	26	26.39	-0.7	HBMT	65.76	333	ePd	26	58.50	-0.6		0.7s	128.00nm				5.8mb
	0.9s	133.35nm			6.0mb			e	27	37.41		KIC	73.61	80	Pd	27	46.40	-0.8	
		pP	26	53.62	111kmX	NTYM	65.83	322	ePd	26	59.25	-0.1		0.7s	345.00nm				6.3mb
DAU	60.97	330 ePd	26	27.32	-0.6			sP	27	36.85				S	37	04.00			
		sP	27	05.58		ORV	65.89	323	iPd	27	00.17	0.5	SNA	73.79	160	e(P)	27	46.70	-0.6
TPNV	61.08	324 eP	26	28.88	0.4	BUT	65.91	333	ePd	26	59.33	-0.6		0.7s	26.00nm				5.2mb
	0.8s	164.27nm			6.1mb			e	27	37.71		FRB	75.42	4	ePd	27	55.50	-1.1	
		eSPc	27	05.63		HRY	66.14	334	ePd	27	00.70	-0.6		0.7s	86.00nm				5.7mb
SBC	61.48	320 eP	26	31.74	0.7			e	27	37.72		OUK	78.34	55	iPc	28	16.20	2.7X	
		iSPc	27	08.16		MIN	66.46	324	ePd	27	02.26	-1.3	SPA	78.43	180	iPd	28	14.50	0.9
ISA	61.52	322 ePd	26	31.24	-0.1		2.0s	400.00nm			6.0mb			0.9s	131.36nm				5.8mb
	1.5s	672.25nm			6.4mb	WDC	67.16	324 P-	27	07.97	0.2			i	28	40.70			
Z	20s	1.39um			5.1Msz		Z	19s	1.53um			5.2Msz			iPP	28	40.00	102kmX	
		iSPc	27	06.50				S	36	02.30				ePP	31	12.00			
DUG	61.58	329 iP	26	31.60	-0.2	LBFM	67.28	324	iPd	27	08.29	-0.5			ePPP	32	26.00		
	1.6s	909.39nm			6.5mb			sP	27	45.87				eS	37	54.00			
		eSP	27	09.04		FOX	67.97	323	iPd	27	13.10	0.3			eSS	38	36.00		
BCH	62.19	320 ePd	26	35.92	0.0			iPP	27	52.72	165kmX			eSSS	42	34.00			
		sP	27	12.14		FHC	68.14	323	iPd	27	13.85	-0.1	TIO	78.73	55	iPd	28	17.20	1.3
TNP	62.42	325 ePd	26	37.63	0.2			iPP	27	51.69	157kmX			i	28	49.00			
	0.9s	114.06nm			5.9mb	ARC	68.24	323	ePd	27	13.84	-0.7	AVE	79.47	53	iP	28	20.00	0.4
		sP	27	14.51			1.6s	930.00nm			6.4mb			i	28	48.00			
HVU	62.76	330 ePd	26	38.57	-1.0			e	27	43.59				i	29	19.50			
PHAM	62.81	321 ePd	26	39.94	0.1			ePd	27	51.34	156kmX		YKA	79.61	343	eP	28	19.40	-0.4
BONR	62.96	324 eP	26	41.79	0.7	VIPM	68.70	328	P	27	17.85	0.4		0.9s	143.00nm				5.8mb
MEMM	63.13	323 iPc	26	42.94	1.1	RUV	68.75	258	iPd	27	18.20	0.1	RAR	79.65	250	(P)	28	20.87	0.1
FRI	63.14	322 iPd	26	40.76	-1.2		1.7s	605.80nm			6.2mb		RSA	81.26	52	iPc	28	31.50	2.4X
PRI	63.17	321 iPd	26	42.30	0.0	CHIE	68.90	54	iP	27	19.00	0.2	TSY	81.33	51	iPc	28	32.50	3.1X
KVN	63.59	325 ePd	26	44.85	-0.3	JBO	68.95	329	P	27	19.43	0.6	IFR	81.33	53	iPc	28	32.00	2.3X
LLA	63.65	321 iPd	26	45.07	-0.3	VAH	68.98	258	iPd	27	19.50	0.0	EVAL	81.54	49	iPc	28	32.81	2.3X
PRS	63.73	321 iPd	26	45.81	-0.1		1.1s	215.90nm			5.9mb		CPS	81.77	51	iPc	28	34.00	2.3X
		iPP	27	23.12	157kmX	TPT	69.00	258	iPd	27	19.80	0.2	EZAM	81.91	44	iPd	28	32.84	0.5
ULM	63.92	346 ePd	26	48.00	1.1		1.2s	373.70nm			6.1mb	EJIF	82.09	50	iPc	28	36.28	2.9X	

STS	82.30	43	iPc	28	35.33	1.0	RJF	89.94	44	eP	29	11.30	-0.4	1.0s	62.40nm	5.9mb				
EPRU	82.45	50	iPc	28	37.74	2.5X		1.1s	103.55nm				5.9mb	LPG	93.56	44	eP	29	29.30	0.6
EHOR	82.74	49	iPd	28	37.82	1.2	Z	22s	1.73um				5.4MsZ		1.1s	99.65nm			6.1mb	
EPLA	82.94	47	iPc	28	39.51	1.8	ETER	90.04	47	iPc	29	12.87	0.6	TOUF	93.57	46	P	29	29.67	0.9
MAL	82.98	50	iPd	28	40.00	2.1	PERF	90.10	47	P	29	12.97	0.4	AURF	93.60	46	P	29	29.45	0.7
			iS	38	54.00		CAF	90.21	44	eP	29	12.80	-0.2	VITF	93.66	42	P	29	28.34	-0.4
ERUA	83.07	44	iPd	28	39.17	0.9		0.9s	55.55nm				5.7mb	SBF	93.67	46	eP	29	29.10	0.1
EMON	83.34	43	iPd	28	40.45	0.8	LSF	90.22	43	eP	29	12.60	-0.4		0.7s	42.55nm			5.9mb	
ELUQ	83.38	50	iPd	28	41.61	1.6		1.0s	69.60nm				5.8mb	DOI	93.68	45	P	29	30.20	1.1
EGUA	83.66	51	iPc	28	42.32	0.9	ESK	90.23	33	(P)	29	13.06	0.3	AUTN	93.70	46	P	29	29.67	0.3
SIT	83.73	332	e(P)	28	41.90	0.7		0.9s	108.00nm				6.0mb	SAOF	93.78	46	P	29	29.37	-0.1
ECOG	83.80	50	eP	28	43.30	1.0			eS	39	56.38			EMS	93.81	44	ePd	29	30.00	0.3
EBAN	83.94	49	iPc	28	44.28	1.5			i	40	54.15			HAU	93.85	42	eP	29	29.20	-0.5
PAB	84.00	48	iPd	28	44.08	0.9	EKA	90.26	33	Pc	29	13.30	0.4		Z	23s	1.33um			5.3MsZ
			ePPc	29	14.21	116kmX		1.0s	96.60nm				5.9mb	LOMF	94.02	43	P	29	30.47	-0.1
			eHPP	31	52.52		EAU	90.28	33	ePc	29	13.70	0.7	DBN	94.06	38	eP	29	30.00	-0.4
			ePP	31	53.02			1.2s	48.00nm				5.5mb	WLF	94.10	40	iPc	29	31.48	0.8
			eSKS	38	55.45		ELO	90.36	32	ePc	29	14.20	0.8		2.4s	80.50nm			5.7mb	
			iS	39	03.81		EBH	90.39	32	ePc	29	14.30	0.8	BSF	94.10	42	eP	29	30.50	-0.4
			iSP	39	49.25		EDI	90.45	33	eP	29	14.20	0.5		1.6s	123.15nm			6.1mb	
SBA	84.10	191	iPd	28	44.50	1.6	EBL	90.47	33	ePc	29	14.20	0.3	DIX	94.13	44	ePd	29	32.00	0.7
KKH	84.18	291	eP	28	45.17	0.9	KLU	90.61	333	eP	29	14.06	-0.5	ENN	94.20	39	iPd	29	31.00	-0.2
MHA	84.21	292	eP	28	45.21	0.8	TCF	90.68	43	eP	29	14.60	-0.5		1.0s	68.00nm			6.0mb	
GUD	84.52	47	iPd	28	46.82	1.0		1.0s	57.20nm				5.7mb			e	30	12.00		
EHUE	84.71	50	eP	28	47.35	0.6	ESY	90.75	33	ePc	29	15.70	0.5	DAG	94.29	11	iPc	29	30.50	-0.6
ENIJ	84.73	51	eP	28	46.98	0.2	EDU	90.75	32	ePc	29	16.10	0.9		1.2s	90.63nm			6.1mb	
EVIA	85.05	49	iPd	28	49.10	0.7		1.2s	235.00nm				6.3mb	MOF	94.33	42	P	29	31.49	-0.5
VAL	85.05	35	iP	28	49.30	1.4	MAF	90.90	43	eP	29	15.90	-0.2	FRS	94.35	121	iPd	29	32.00	-0.4
	1.4s		1.80nm			3.8mb X		1.1s	89.15nm				5.9mb		1.5s	300.00nm			6.5mb	
			S	39	14.00		PYM	91.07	44	P	29	17.05	0.0	CKI	94.39	46	P	29	32.30	0.1
EALH	85.61	50	eP	28	51.68	0.6	LBL	91.10	44	P	29	17.28	0.1	ECH	94.42	42	P	29	32.00	-0.3
REY	86.08	21	iP	28	54.50	1.7	EDR	91.12	32	ePc	29	17.60	0.7	BBS	94.50	43	P	29	32.42	-0.3
ETOR	86.08	47	iPc	28	54.93	1.4	BGF	91.18	43	eP	29	17.10	-0.3	MMK	94.51	44	iPd	29	33.80	0.8
ECRI	86.34	45	eP	28	55.76	1.0		0.9s	96.95nm				6.0mb	PGF	94.52	48	eP	29	33.00	0.0
HON	86.39	292	P	29	07.40	12.2X	AGO	91.24	43	P	29	17.28	-0.4		1.7s	101.45nm			6.0mb	
			PP	32	44.47		HYF	91.24	42	eP	29	17.60	0.0	CDF	94.54	42	P	29	32.42	-0.5
			SKS	39	50.20			0.9s	161.85nm				6.3mb	WLS	94.59	42	P	29	32.68	-0.4
KIP	86.43	293	eP	28	58.11	2.7X	MBC	91.31	351	eP	29	17.50	0.1	LIBD	94.70	42	P	29	33.62	0.1
ECHE	86.48	49	iPc	28	56.66	1.2		1.0s	77.00nm				5.9mb	SVW	94.90	331	ePd	29	33.43	-0.8
ACU	86.56	50	iPc	28	56.37	0.5	COLF	91.48	44	P	29	19.31	0.5		1.7s	163.31nm			6.2mb	
CPZ	87.01	38	ePc	28	58.30	0.6	PLDF	91.54	43	P	29	18.84	-0.3	FEL	94.91	42	P	29	34.30	-0.4
ECB	87.17	35	eP	28	57.20	-1.1	AVF	91.58	43	eP	29	18.60	-0.6	LANF	95.01	41	P	29	34.89	-0.1
			e	29	40.00			1.2s	66.05nm				5.8mb	VAI	95.02	44	P	29	34.20	-0.8
ELIZ	87.21	45	iPd	28	59.32	0.5	SSF	91.75	42	eP	29	19.30	-0.7	BNS	95.02	39	iPd	29	35.70	0.8
DCN	87.28	34	eP	28	59.30	0.4		1.0s	41.20nm				5.7mb	ZLA	95.08	43	ePd	29	35.30	-0.1
ETA	87.62	35	eP	29	01.30	0.8	SMF	91.87	43	eP	29	20.20	-0.4	HOFF	95.10	41	P	29	36.00	0.7
			e	29	41.00			1.0s	81.20nm				6.0mb	TMA	95.14	44	ePd	29	35.40	-0.4
DLF	87.67	34	eP	29	01.30	0.6	SS8	91.99	44	P	29	21.70	0.5	SLE	95.21	42	ePd	29	35.90	0.0
DMU	87.70	34	eP	29	01.30	0.4	LOR	92.04	42	eP	29	20.70	-0.6	BLF	95.26	121	iPc	29	36.50	-0.3
EGRA	87.75	46	iPc	29	04.51	3.1X		1.1s	44.70nm				5.7mb		0.8s	26.00nm			5.7mb	
ERQO	87.86	48	iPc	29	02.75	0.8		Z	21s	1.17um			5.3MsZ	BOB	95.27	46	P	29	36.50	0.1
AKU	88.30	21	iPc	29	05.20	1.7	LBF	92.04	43	eP	29	20.80	-0.6	LLS	95.37	43	ePd	29	36.80	-0.1
	1.8s		709.09nm			6.4mb		1.1s	32.50nm				5.5mb	IMA	95.41	336	ePd	29	35.53	-1.1
EPF	88.47	46	eP	29	05.30	0.4	PMR	92.07	333	P	29	21.63	0.5		1.0s	18.67nm			5.5mb	
	1.5s		200.05nm			6.0mb		Z	20s				5.6MsZ			pP	30	02.93	102kmX	
CER	88.47	124	eP	29	18.50	13.3X				PP	32	50.22		TTA	95.54	333	eP	29	36.15	-1.1
	1.0s		80.00nm							SKS	39	45.27			1.1s	10.54nm			5.2mb	
BALM	88.85	334	eP	29	06.17	-0.3				PKKP	46	58.56		VDL	95.61	44	ePd	29	38.00	-0.1
WIN	88.90	113	eP	29	07.00	-0.6				P'P'	54	32.37		MDI	95.65	45	P	29	37.50	-0.4
	1.2s		54.00nm			5.5mb	PMS	92.14	332	eP	29	21.30	-0.2	TNS	95.67	40	ePc	29	38.90	0.9
HCG	88.93	36	eP	29	06.90	0.0		1.2s	180.90nm				6.3mb	MAW	95.72	165	eP	29	39.00	1.0
SALF	88.98	46	P	29	07.49	0.1	SLKM	92.19	332	iPd	29	20.95	-0.8		1.0s	33.33nm			5.8mb	
HTR	89.07	36	eP	29	07.60	0.1	COL	92.71	336	eP	29	15.02	-9.0X	BCAO	95.83	87	iPc	29	39.60	0.1
LPF	89.08	41	eP	29	07.20	-0.4	FBA	92.71	336	ePd	29	22.95	-1.1		0.6s	36.00nm			6.0mb	
	1.2s		165.40nm			6.0mb		1.1s	97.16nm				6.0mb			iD	30	11.00		
HGH	89.19	37	ePc	29	08.20	0.2				pP	29	51.16	106kmX							
MFF	89.22	42	eP	29	08.00	-0.3				sP	30	03.57		BDI	95.95	46	P	29	39.20	-0.3
	0.9s		92.70nm			5.9mb	GRN	92.81	45	P	29	26.28	1.3	SNZ0	96.05	226	(P)	29	43.26	3.3X
INK	89.30	342	eP	29	09.50	1.2	LRG	92.82	46	eP	29	25.20	0.2		96.11	44	ePd	29	40.40	0.1
	1.0s		90.00nm			5.8mb		1.2s	99.10nm				6.0mb	SAL	96.18	45	P	29	40.90	0.6
LFF	89.31	44	eP	29	08.70	-0.1	LMR	92.90	46	eP	29	25.50	0.2	FIR	96.37	47	eP	29	43.00	1.8
	1.1s		154.35nm			6.0mb		1.0s	72.80nm				5.9mb	SEK	96.69	121	iPc	29	42.10	-1.3
GRR	89.31	40	eP	29	08.30	-0.4	FRF	93.05	46	eP	29	26.20	0.2		1.3s	50.00nm			5.9mb	
	1.0s		79.60nm			5.8mb		1.0s	96.40nm				6.1mb	PGD	96.72	47	P	29	42.50	-0.5
ESEL	89.39	49	iPc	29	09.87	0.6	SNF	93.13	39	iPc	29	26.59	0.4		1.2s	44.40nm			5.9mb	
TRGS	89.46	46	P	29	10.56	0.8	DOU	93.22	40	Pc	29	27.20	0.5	OGA	96.74	44	iPc	29	44.00	0.9
HAE	89.47	36	ePc	29	09.60	0.2				S	39	55.00			2.0s	270.00nm			6.4mb	
LPO	89.54	44	eP	29	09.70	-0.2				e	40	30.00		KSR	96.77	118	iPc	29	44.00	0.2
	1.1s		1																	

			i	29	44.40	
			i	29	52.60	
PRY	96.97	119	eP	29	44.00	-0.6
	1.0s		40.00nm			5.9mb
CTI	97.03	45	P	29	44.60	0.3
RMP	97.09	49	P	29	45.81	1.2
	1.2s		176.80nm			6.5mb
RDP	97.09	49	P	29	45.70	1.1
FAI	97.11	54	P	29	46.90	2.2
FUR	97.12	42	eP	29	45.10	0.5
WATA	97.19	43	iPd	29	44.90	-0.2
			i	29	45.50	
WTTA	97.21	43	iPd	29	45.30	0.1
	1.1s		84.70nm			6.2mb
			i	29	45.90	
			i	33	11.30	
			i	33	31.30	
MUD	97.25	34	iPd	29	47.20	2.4X
	0.8s		50.50nm			6.1mb
RSM	97.25	47	P	29	45.40	0.2
ASS	97.26	48	P	29	44.60	-0.8
GRFO	97.33	41	ePd	29	45.20	-0.3
GRF	97.33	41	ePd	29	46.20	0.7
	1.5s		72.00nm			6.0mb
Z	20s		1.00um			5.3Msz
			e(pP)	30	13.30	101kmX
ARV	97.53	47	P	29	46.10	-0.4
VVI	97.55	45	P	29	47.86	1.3
	1.6s		101.10nm			6.1mb
AQU	97.69	48	P	29	48.20	0.9
MOX	97.73	40	iPc	29	48.30	1.0
	1.9s		104.00nm			6.0mb
Z	18s		1.10um			5.4Msz
			eP	30	17.30	110kmX
			eSKS	40	23.00	
			eS	41	14.00	
BRW	97.83	341	eP	29	46.75	-0.5
SDI	97.90	49	P	29	49.00	0.7
RFI	97.96	50	P	29	51.40	3.0X
	1.6s		146.40nm			6.3mb
SLR	98.00	118	eP	29	50.50	1.2
Z	18s		10.10um			6.4Msz
KONO	98.01	31	(P)	29	48.20	0.0
BHG	98.12	43	iPc	29	49.80	0.7
	1.3s		59.00nm			6.0mb
WET	98.32	42	iPc	29	51.00	1.0
	1.5s		98.00nm			6.1mb
KBA	98.34	44	iPd	29	49.90	-0.4
	1.1s		50.00nm			6.0mb
			i	29	50.70	
			i	33	11.20	
			i	33	27.80	
RBL	98.40	44	P	29	50.90	0.5
TRI	98.43	45	e(P)	29	50.80	0.3
			e(PP)	33	52.00	
			e(S)	41	20.00	
			e(SPP)	43	36.00	
			eLR	02	52.00	
VOY	98.57	45	iPd	29	51.50	0.3
			ePP	30	20.50	
KHC	98.77	42	PDIFc	29	53.10	1.1
	1.4s		33.00nm			5.7mb
Z	18s		1.60um			5.6Msz
N	18s		0.80um			
E	18s		1.00um			
			pP	30	24.50	120kmX
			e	40	22.00	
GEC2	98.82	42	ePd	29	52.10	-0.2
	1.1s		19.22nm			5.6mb
			e	29	54.60	
			e	32	52.90	
			e	32	58.90	
			e	33	05.00	
			e	33	07.60	
			eP'P'	54	35.50	
			e	54	44.80	
RIY	98.82	46	iPc	29	53.50	1.3
SGO	98.85	50	P	29	53.30	0.8
CEY	98.90	45	ePDIF	29	51.00	-1.7
MGR	98.98	51	P	29	53.50	0.4
NB2	9					

BRG	99.23 1.7s	40	epSKS iPc 80.00nm	41 29	24.00 55.00	1.0 6.1mb
			epP eSKS eP'P'	30 40 54	22.80 26.00 35.00	104kmX
VBY	99.45	45	iPDIF ePP	29 33	55.80 55.40	0.7
PRU	99.50 1.4s	41	ePDIF 19.40nm	29	56.00	0.7 5.5mb
	Z 21s		1.00um			5.3Msz
			epP e e e e e	30 33 40 41 48 49	33.50 14.50 30.00 27.00 16.00 06.00	146kmX
TDS	99.52	51	P	29	55.90	0.3
ORI	99.66 0.7s	51	P 51.30nm	29	56.04	-0.2 6.3mb
BUL	99.89	113	eP iP iPP	29 30 34	56.60 25.90 26.00	-1.3 111kmX
HVAR	100.02	48	ePdiff	29	58.60	0.7
HFS	100.12 1.3s	31	ePdiff 76.80nm	29	57.90	0.0 6.2mb
	Z 19s		1.08um			5.4Msz
			LR	02	41.00	
VKA	100.48	43	e(Pdiff	30	00.00	0.2
KSP	100.71 1.1s	40	iPdiff 29.00nm	30	01.90	1.1 5.8mb
			e e	30 33	30.30 31.50	
VRAC	100.76 2.6s	42	ePdiff 899.40nm	30	02.10	1.1 6.9mb
ZST	100.99	43	ePdiff e e	30 33 34	02.30 27.20 03.30	0.2
SRO	101.77	43	ePdiff e e e(PP)	30 33 33 34	06.40 30.70 30.70 14.80	0.9
UZD	101.86	45	ePdiff	30	06.50	0.5
OJC	102.89	41	ePdiff	30	11.40	0.9
OHR	103.05	50	ePdiff e e	30 33 33	08.50 22.50 22.50	-3.0X
SPC	103.14	42	ePdiff	30	14.00	2.2
SKO	103.59 Z 17s	49	iPdiff 1.02um	30	14.80	1.0 5.4MszX
			iPSP iPP i iSP i LR	34 34 35 43 44 26	21.00 46.00 45.00 49.00 30.00 38.00	
BZS	103.91	46	ePdiff	30	15.00	-0.1
ADK	105.34 1.4s	321	e(Pdiff 195.50nm	30	22.40	1.1 6.9mb
SDF	105.65	23	iPKP	34	35.00	0.0
ANTO	112.19	52	ePKP	34	52.22	9.9X
OBN	112.67 1.5s	35	ePKP 60.00nm	34	48.00	-0.6
	Z 22s		1.60um			5.6Msz
	N 20s		1.10um			
	E 24s		1.10um			
			e ePP e ePS eSS e eSSS LO	35 35 36 45 51 52 55 04	05.00 36.00 04.00 05.00 13.00 00.00 24.00 20.00	
CSS	112.82	57	ePKP	34	49.20	-0.4
MBH	114.21	63	ePKP	34	51.60	-0.9
DSI	114.62	61	ePKP	34	50.90	-2.2
HRI	114.87	59	ePKP	34	52.90	-0.8
CAN	116.47	221	ePKP	34	56.80	0.2
TOO	117.16 0.7s	217	iPKPd 7.00nm	34	58.60	0.7
CMS	120.94	222	iPKPc	35	05.00	-0.2
RMO	121.92 0.8s	229	iPKPc 21.00nm	35	08.10	0.9
STK	123.38 0.9s	219	ePKP 13.20nm	35	09.20	-0.6
RYD	124.79	68	iPKPc	35	12.80	0.0
QLP	125.11	226	ePKP e	35 35	13.80 41.00	0.5

CTA	127.39	233	iPKPd	35	18.00	0.1
	1.0s	20.00nm				
		i	35	45.50		
		eSKP	38	27.00		
		e	54	20.00		
CTAO	127.39	233	ePKP	35	18.52	0.6
		epPKP	35	45.55		
DHR	127.85	66	ePKP	35	18.00	-0.6
MAIO	133.46	51	ePKP	35	20.00	-9.1X
	1.8s	88.03nm				
		i	35	29.00		
ASPA	133.98	220	iPKPc	35	21.60	-8.8X
ASPA	133.98	220	ePKP	35	29.40	-1.0
WB2	136.30	224	iPKP	35	34.80	-0.1
		iSKP	36	02.10		
		e	47	18.60		
WRA	136.30	224	PKP	35	36.50	1.6
	1.1s	14.80nm				
IRK	139.49	359	ePKPc	35	29.20	-10.6X
	1.4s	18.00nm				
Z	22s	0.83um				5.4Msz
		e	35	39.00		
		e	36	08.00		
		epPKP	36	36.00		
		ePP	38	30.00		
		ePKS	39	04.30		
		e	39	56.00		
		ePPP	41	40.00		
		e	42	00.00		
		LR	31	28.00		
GUMO	139.59	277	ePKP	35	39.48	-1.5
PJG	139.59	277	PKP	35	39.70	-1.3
CHJJ	139.79	313	PKP	35	34.70	-6.2X
MAJO	140.11	314	ePKP	35	31.94	-9.5X
MAT	140.11	314	ePKP	35	32.00	-9.4X
Z	20s	1.06um				5.6Msz
MDJ	140.23	331	ePKP	35	36.00	-5.4X
		PP	38	36.00		
		SS	56	50.00		
MTMJ	140.37	315	PKP	35	34.40	-7.6X
CN2	142.77	333	ePKP	35	41.00	-4.9X
Z	20s	1.16um				5.6Msz
N	20s	0.50um				
E	20s	0.68um				
		epPKP	36	13.00		
		esPKP	36	25.00		
		ePP	38	52.00		
		eSS	57	21.00		
KNA	143.01	223	ePKP	35	42.50	-4.5X
	0.6s	35.00nm				
KSH	143.11	37	PKP	35	45.00	-1.8
Z	18s	2.56um				6.0Msz
E	18s	2.17um				
		pPKP	36	11.00		
		sPKP	36	19.00		
		SKS	42	36.00		
WKYJ	143.11	313	PKP	35	42.10	-4.7X
WKYJ	143.11	313	PKP	35	42.50	-4.3X
MTN	143.31	229	ePKP	35	43.00	-4.6X
NANU	144.00	199	ePKP	35	46.30	-2.3
	0.6s	12.00nm				
YONJ	144.10	316	PKP	35	43.40	-5.0X
TKSJ	144.34	314	PKP	35	46.90	-1.9
TKSJ	144.34	314	PKP	35	47.00	-1.8
SHK	145.00	315	ePKPd	35	48.90	-1.1
WMO	145.17	20	iPKPd	35	49.83	-0.3
Z	20s	1.87um				5.9Msz
		ePP	39	04.90		
		SKS	42	46.00		
		SKKS	45	50.00		
SNY	145.17	333	iPKPd	35	48.00	-2.0
Z	27s	1.51um				5.6MszX
		pPKP	36	18.00		
		PP	39	06.00		
		SKKS	45	47.00		
		SS	57	48.00		
SHNJ	146.31	316	ePKP	35	52.00	-0.1

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18d 10h

CROM	0.27	295	iPd	56 28.29	-0.8
			eS	56 26.75	
BALM	0.42	20	iPc	56 31.23	0.7
			iS	56 37.74	
SNH	0.47	192	iPc	56 31.17	-0.4
			S	56 38.23	
YAH	0.53	122	iPd	56 32.84	0.2
			eS	56 40.68	
CYK	0.57	172	eP	56 32.84	-0.6
			eS	56 42.85	
CTGM	0.72	63	iPc	56 36.14	-0.3
			iS	56 46.82	
GLB	0.98	325	iPd	56 39.31	-2.0
			eS	56 52.10	
RAGM	1.04	257	ePc	56 41.30	-0.9
			eS	56 56.37	
KAIM	1.14	232	eP	56 43.38	-0.5
SGAM	1.27	265	ePc	56 45.19	-1.0
			eS	57 02.21	
CVA	1.53	268	iPc	56 49.57	-0.7
			eS	57 08.40	
KLU	1.81	300	eP	56 52.67	-1.6
VLZ	1.87	287	eP	56 54.30	-0.7
			eS	57 18.80	
			eS	57 19.47	
HIN	1.92	264	iPc	56 54.18	-1.7
TZL	1.94	318	eP	56 55.85	-0.3
MID	2.22	238	P	56 59.70	-0.4
SDG	2.34	325	eP	57 00.60	-1.4
HYT	2.53	84	P	57 06.50	1.7
SCM	2.56	300	eP	57 05.05	0.0
PAX	2.69	331	eP	57 04.57	-2.5
SML	2.99	295	eP	57 11.16	0.0
PTE	3.14	277	eP	57 11.59	-1.6
GHO	3.24	293	eP	57 13.49	-1.3
PMR	3.29	290	eP	57 15.67	0.3
MPA	3.32	270	ePc	57 13.61	-2.2
SEW	3.42	264	eP	57 14.59	-2.6
PMS	3.43	283	P	57 17.50	0.1
SLKM	3.74	271	eP	57 19.34	-2.5
FBA	4.88	333 (P)		57 38.92	0.9

30 obs. associated

% APR 18, 1993 13h 36m 53.42±0.67s
 43.027 N ± 5.9km 19.149 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.9 (TTG).

NKY	0.24	207	iPg	36 59.35	0.7
			iSg	37 03.59	
PLE	0.35	31	iPg	37 00.78	0.1
			iSg	37 06.63	
BRY	0.46	254	iPg	37 02.74	-0.1
			iSg	37 09.72	
IVA	0.57	105	iPg	37 05.13	0.1
			iSg	37 13.98	
TTG	0.60	172	iPg	37 05.40	-0.2
			iSg	37 14.65	
PVY	0.74	125	iPg	37 07.98	-0.1
			iSg	37 19.30	
HCY	0.75	220	iPg	37 07.77	-0.4
			iSg	37 19.30	
BDV	0.78	198	iPg	37 08.50	-0.1
			iSg	37 20.44	

S.D. = 0.4 on 8 of 8 obs.

APR 18, 1993 13h 37m 35.27±0.50s
 42.991 N ± 4.4km 19.154 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.9 (TIR), 2.7 (TTG).

NKY	0.21	213	iPg	37 40.38	0.4
			iSg	37 44.40	
PLE	0.38	27	iPg	37 42.64	-0.5
			iSg	37 48.47	
BRY	0.46	259	iPg	37 43.70	-0.9
			iSg	37 50.80	
IVA	0.56	102	iPg	37 46.68	0.0
			iSg	37 55.58	
TTG	0.57	172	iPg	37 46.35	-0.4
			iSg	37 55.94	
PVY	0.72	123	iPg	37 49.77	0.2
			iSg	38 01.14	
HCY	0.73	222	iPg	37 49.04	-0.5

BDV	0.75	199	iPg	37 49.77	-0.1
			iSg	38 01.47	
SDA	0.97	165	ePg	37 57.70	4.0X
			iSg	38 11.50	
ULC	1.03	176	iPg	37 55.19	0.4
			iSg	38 11.12	
LACI	1.42	163	ePn	38 04.60	3.6X
			iSn	38 28.00	
TIR	1.73	162	ePn	38 12.00	6.5X
			iSn	38 37.00	
SKO	1.97	120	eP	38 13.40	4.3X
HVAR	1.99	276	e(Pn)	38 10.30	1.0
			iSn	38 37.60	
OHR	2.24	146	ePn	38 18.30	5.2X
KBN	2.66	152	ePn	38 26.30	7.3X
PTJ	3.70	323	eP	38 45.00	11.2X
VBV	3.76	313	ePn	38 35.00	0.4

S.D. = 0.6 on 11 of 18 obs.

? APR 18, 1993 13h 42m 08.53±0.85s
 5.531 S ± 10.8km 131.854 E ± 14.7km
 DEPTH = 102.7 ± 11.7 km
 BANDA SEA (280)

TLE	0.90	97	iPc	42 28.00	-0.3
			iS	42 49.20	
SLKI	2.50	193	iPd	43 03.00	14.7X
AAI	4.08	297	ePd	43 10.50	0.6
			eS	43 52.60	
MTN	7.30	186	eP	43 58.00	3.7X
			0.3s	108.00nm	5.9mb
			eS	45 12.00	
KNA	10.60	196	iPd	44 37.60	-1.3
			0.3s	9.00nm	5.1mb
			eS	46 24.00	
WB2	14.53	171	eP	45 31.90	1.5
			i	45 34.70	
			eS	48 05.50	
ASPA	18.14	174	iPc	46 20.10	4.8X
			eS	49 31.00	
GUN	55.41	309	P	51 35.00	-0.1
KKN	55.82	309	P	51 37.60	-0.3
DMN	55.87	309	P	51 38.20	-0.1
GKN	56.42	309	P	51 42.20	0.1

S.D. = 1.0 on 8 of 11 obs.

? APR 18, 1993 13h 55m 48.15±5.39s
 39.413 N ± 38.0km 29.635 E ± 22.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

DST	0.80	284	ePg	56 03.60	-0.2
			eSg	56 14.60	
YLV	1.17	350	ePn	56 09.80	-0.2
EYL	1.22	19	ePn	56 11.00	0.1
KCT	1.29	311	iPn	56 12.30	0.2

S.D. = 0.4 on 4 of 4 obs.

APR 18, 1993 14h 10m 38.42±0.23s
 53.958 S ± 7.6km 133.868 W ± 6.2km
 DEPTH = 10.0km (geophysicist)
 5.6mb (31 obs.) 6.1msz (38 obs.)
 PACIFIC-ANTARCTIC RIDGE (691)
 Mw 6.3 (HRV), Ms 6.2 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 42S, **C M.W.: 38S, 77C
 Centroid Location:
 Origin Time 14:10:48.0 0.1
 Lat 54.01S 0.01 Lon 133.88W 0.01
 Dep 15.0 FIX Half-duration 3.0
 Moment Tensor: Scale 10**18 Nm
 Mrr=-0.01 0.02 Mtt= 1.44 0.02
 Mff=-1.43 0.02 Mrt= 0.35 0.07
 Mrr= 1.30 0.07 Mtf= 1.94 0.02
 Principal Axes:
 T Vol= 2.74 Plg=19 Azm=329
 N 0.05 61 200
 P -2.79 21 67
 Best Double Couple: Mo=2.8*10**18
 NP1: Strike=108 Dip=61 Slip= -1
 NP2: 198 89 -151

SBA	31.55	200	iPd	17 06.90	4.5X
AIA	35.07	137	e(P)	17 37.00	4.0X

SNZO	36.09	269	eP	17 41.77	-0.1
SPA	36.23	180	iPc	17 47.40	4.3X
			1.6s	479.17nm	6.1mb
Z	20s	16.67um			5.8msz
TVO	38.02	336	iPc	17 59.30	0.9
			1.3s	411.60nm	6.0mb
RAR	38.17	319	P	18 01.00	1.5
			S	24 00.00	
PAE	38.22	335	iPc	18 00.60	0.7
			1.1s	242.20nm	5.9mb
PPT	38.31	335	iPc	18 01.40	0.7
			1.6s	813.40nm	6.2mb
PPN	38.31	336	iPc	18 01.40	0.7
			1.4s	416.50nm	6.0mb
RUV	40.11	339	iPc	18 15.90	0.2
			1.2s	260.60nm	5.8mb
VAH	40.11	339	iPc	18 15.90	0.2
			1.2s	376.10nm	5.9mb
TPT	40.36	339	iPc	18 17.80	0.1
			1.2s	276.10nm	5.8mb
PMO	40.40	339	iPc	18 18.10	0.0
			1.7s	729.30nm	6.1mb
SAN	48.29	92	e(P)	19 42.50	21.0X
			1.0s	94.00nm	
CSY	50.62	208	eP	19 40.30	1.5
			0.1s	10.80nm	5.7mb
RTCV	50.68	92	ePc	19 34.00	-5.9X
CFA	51.04	92	e(P)	19 40.30	-2.3
SNA	51.23	161	e(P)	19 42.50	-1.0
			1.0s	94.00nm	5.7mb
RTPR	53.00	92	ePc	19 58.40	1.1
NVL	53.18	167	eP	19 59.50	1.4
			1.6s	110.00nm	5.6mb
Z	16s	18.00um			6.2mszX
N	16s	5.00um			
E	16s	10.00um			
			ePcP	20 56.00	
			ePP	22 06.00	
			ePPP	23 02.00	
			iS	27 35.00	
			eScS	29 40.00	
			eSS	31 10.00	
			eSSS	33 10.00	
TCA	53.39	94	ePd	19 50.00	-10.2X
DZM	54.69	281	iPc	20 04.90	-5.0X
LPA	54.72	102	eP-	20 09.00	-0.9
Z	20s	35.46um			6.4msz
CYA	54.79	91	ePd	20 25.40	14.8X
CNB	54.91	257	eP	20 11.10	-0.3
			1.2s	97.00nm	5.7mb
RIV	54.93	259	eP	20 14.60	3.2X
			eS	27 57.00	
CAN	55.12	256	eP	20 12.00	-0.9
			i	20 16.00	
TOO	55.52	252	eP	20 15.60	-0.1
			0.5s	25.00nm	5.5mb
ANT	55.63	83	eP	20 16.50	-0.1
BWA	56.09	257	eP	20 17.30	-2.6
			i	20 21.40	
FSA	56.42	89	e(P)	20 23.00	0.7
ARMA	57.13	262	iPd	20 27.40	-0.1
			0.8s	22.00nm	5.2mb
BFD	57.45	250	eP	20 29.30	-0.2
MAW	58.11	187	e(P)	20 34.00	0.3
			1.0s	41.67nm	5.4mb
Z	14s	12.86um			6.2mszX
BRS	58.69	266	iPc-	20 38.00	-0.3
			eS	28 24.00	
YJA	59.69	86	ePc	20 40.50	-5.3X
CMS	59.71	257	eP	20 44.80	-0.5
			0.8s	17.00nm	5.2mb
ARE	60.65	77	eP	20 52.00	-0.2
ADE	61.18	249	e(P)	20 59.50	4.1X
NNA	61.24	69	iPd	20 54.00	-1.9
Z	20s	15.96um			6.2msz
			eS	29 18.00	
RMO	61.73	263	eP	20 58.80	-0.3
			1.1s	55.00nm	5.6mb
STK	61.85	254	eP	20 58.40	-1.4
			1.5s	4.80nm	4.5mb X
CNCB	62.41	81	P	21 02.00	-2.4
LPB	62.56	80	P	21 04.00	-1.2
			1.2s	265.63nm	6.3mb
			i	21 08.20	
			S	29 36.00	
			LR	39 12.00	
ZOBO	62.76	80	P	21 03.00	-3.7X

Z	22s	2.85um	5.4Msz	WMOK	93.40	28 eP	23 54.12	-0.4	Z	26s	7.34um	6.3MszX	
		S	29 28.00		1.3s	22.77nm		5.4mb	E	20s	2.66um		
		LR	39 14.00		Z	19s	4.70um	6.0Msz			PP	32 20.50	
CCH	63.04	82 P	21 08.30	0.0		SKS	34 27.38		CD2	133.18	265 ePKP	29 55.60	
CTA	68.10	266 iPc-	21 43.00	2.6		e	35 17.17		HHC	135.40	281 ePKP	30 01.40	
	1.5s	62.50nm		5.6mb	UYO	94.15	32 iPd	24 06.40	8.5X	Z	40s	6.25um	6.0MszX
Z	21s	34.05um		6.6Msz	OCO	94.51	29 iPd	24 05.80	6.3X	E	23s	4.72um	
		eS	30 30.00		WDC	94.67	9 P	24 10.00	9.9X			PP	32 35.00
CTAO	68.10	266 eP	21 38.75	-1.7		Z	21s	12.00um	6.3Msz	HYB	135.75	227 ePKP	29 56.00
PPD	68.17	98 eP	21 38.80	-2.0	MIAR	94.78	32 eP	23 54.61	-6.1X			ePP	33 31.00
		e	21 42.60			1.3s	8.87nm		5.0mb	BTO	136.14	279 ePKP	29 56.00
		e	30 43.20		Z	19s	1.20um		5.4Msz	N	19s	1.92um	
VAO	69.95	102 eP	21 51.10	-0.7			SP	36 40.67		E	19s	1.26um	
		e	21 52.80				SS	41 13.50		LZH	136.78	270 ePKP	30 02.00
		e	22 02.50		EMUT	95.49	18 eP	24 04.34	0.1	Z	25s	3.13um	5.9MszX
ASPA	72.49	254 iPc	22 05.20	-1.9	DUG	95.52	16 eP	24 01.48	-2.8	N	19s	1.68um	
	1.0s	31.00nm		5.4mb		1.1s	18.89nm		5.5mb			PP	32 42.00
Z	23s	13.50um		6.2MszX	Z	20s	3.88um		5.9Msz			PKS	33 36.00
		eS	31 31.80				S	35 03.37		YAK	137.94	316 ePKP	30 00.00
		ePKKP	37 44.40				e	37 14.22			1.9s	39.00nm	
CDCB	73.40	102 ePd	22 14.30	1.8			SS	41 48.33		Z	22s	3.90um	6.1Msz
		e	22 28.50		DAU	95.99	17 eP	24 06.90	0.2	N	22s	1.10um	
		e	23 24.90		GOL	96.46	22 P	24 20.00	11.3X	E	22s	2.50um	
		iS	31 45.80		Z	21s	7.54um		6.1Msz			e	32 53.00
PAF	75.08	196 eP	22 30.00	8.4X	HVU	97.07	16 (P)	24 12.26	1.0			e	33 36.00
		ePP	25 06.00		GOGA	97.30	41 P	24 15.82	3.6X			e	58 47.00
		eS	31 45.00		Z	20s	3.60um		5.9Msz	LSA	139.56	252 PKP	30 13.50
		eSSS	39 15.00				PP	28 07.26		Z	30s	3.90um	6.0MszX
BAO	75.11	96 eP	22 23.00	0.5	ELC	98.70	35 (P)	24 16.26	-2.2	PKI	141.03	243 PKP	30 00.00
		i	22 24.10		CCM	98.74	33 eP	24 15.01	-3.6X	GTA	141.37	270 PKPd	30 07.20
		e	22 34.00		FVM	98.94	33 P	24 30.00	10.5X	Z	24s	6.03um	6.3MszX
WB2	75.15	257 iPc	22 16.80	-5.7X	Z	20s	3.37um		5.8Msz	E	25s	3.64um	
	0.6s	11.80nm		5.1mb	SLM	99.59	33 P	24 30.00	7.5X			sPKP	30 18.00
WRA	75.16	257 P	22 17.90	-4.7X	Z	19s	2.72um		5.8Msz			PP	33 15.00
	0.8s	5.70nm		4.7mb	RSSD	100.98	21 Pd diff	24 40.00	10.9X			SKKS	40 05.00
BOG	76.60	62 iPd	22 33.00	1.8	Z	22s	3.47um		5.8Msz	MAL	141.45	96 ePKP	30 24.00
		iS	32 24.00		CEH	101.19	43 Pd diff	24 26.28	-3.6X	MAL	141.45	96 ePKP	30 08.00
RAB	77.21	281 eP	22 34.00	-0.2	Z	19s	5.76um		6.1Msz			iPP	33 16.00
		iS	32 32.00				SKS	35 09.97		PAB	143.35	92 ePKP	30 13.81
HON	77.81	337 P	22 50.00	12.9X			SP	37 38.64		EVIA	143.85	95 iPKPc	30 13.79
Z	21s	14.36um		6.3Msz			SS	42 55.17		GUD	144.17	91 iPKPd	30 15.47
III	77.86	33 (P)	22 40.00	2.2	MCWV	104.17	40 Pd diff	24 50.00	6.9X	ACU	145.00	97 iPKPd	30 17.03
KIP	77.91	337 (P)	22 38.03	0.3	Z	20s	4.23um		6.0Msz	ECHE	145.38	95 iPKPd	30 17.57
MRX	78.56	31 (P)	22 45.00	3.7X	HRV	109.88	44 PKP	29 20.00	9.4X	ETOR	145.52	92 iPKPd	30 18.93
CRX	78.76	33 (P)	22 46.50	3.7X	Z	21s	3.19um		5.9Msz	IRK	145.88	291 ePKPc	30 16.00
PPM	78.78	34 (P)	22 48.00	4.8X	SIT	110.66	359 PKP	29 20.00	8.4X		1.5s	47.00nm	
CRZF	79.87	184 eP	22 51.00	2.8X	Z	19s	6.01um		6.2Msz	NDI	146.09	234 iPKPc	30 18.00
		ePP	26 06.00		CBM	114.90	44 (PKP)	29 12.12	-8.0X	ECRI	146.35	89 iPKPd	30 22.22
		eS	32 57.00		Z	20s	4.03um		6.0Msz	VAL	146.73	70 ePKP	30 24.80
		eSS	38 03.00				PP	30 14.77		EROQ	146.97	94 iPKPc	30 25.12
PLM	88.19	14 eP	23 29.29	-1.2	PMR	115.84	352 PKP	29 30.00	8.6X	ELIZ	147.26	89 iPKPd	30 25.84
GLA	88.21	16 eP	23 30.14	-0.3	Z	20s	7.82um		6.3Msz	EGRA	147.39	92 iPKPd	30 25.48
TUC	88.21	19 eP	23 30.97	0.5	YKA	117.09	10 ePKP	29 21.30	-2.5	DAG	147.43	23 ePKP	30 22.20
	1.3s	50.02nm		5.7mb		1.2s	1.90nm				1.1s	59.49nm	
Z	19s	5.78um		6.0Msz			PP	30 14.77		BOH	147.53	90 PKP	30 26.12
PEC	88.68	14 eP	23 31.71	-1.0	TATO	118.31	274 ePKP	29 23.25	-4.0X	ELYF	147.58	90 PKP	30 26.75
	1.1s	41.70nm		5.6mb	OZH	120.00	272 ePKP	29 28.00	-2.4	ISSF	147.61	90 PKP	30 27.50
SSK	88.92	13 eP	23 34.54	0.6	Z	35s	4.78um		5.9MszX	LHE	147.64	91 PKP	30 26.44
BCH	89.58	11 eP	23 34.68	-2.3	INK	121.95	0 ePKP	29 34.00	1.2	MADF	147.67	90 PKP	30 26.98
GSC	90.11	14 eP	23 39.98	0.5	BCAO	125.74	145 iPKPd	29 41.00	-0.9	ATE	147.70	90 PKP	30 27.50
PHAM	90.18	11 (P)	23 40.21	0.5			ic	29 43.00		ESEL	147.76	98 iPKPd	30 25.48
ISA	90.24	12 eP	23 39.13	-0.9			id	29 53.00		ESCF	147.77	90 PKP	30 27.66
	1.2s	34.12nm		5.5mb	WHN	126.66	273 PKP	29 44.00	0.9	JAU	147.87	91 PKP	30 26.90
Z	19s	4.44um		5.9Msz	Z	30s	3.90um		5.9MszX	OGE	147.88	90 PKP	30 26.94
SAO	90.99	10 P	23 50.00	6.7X	E	20s	1.75um			EPF	148.28	91 ePKP	30 13.60
	Z	19s	11.03um				PP	31 40.00		ECB	148.84	71 ePKP	30 31.80
ARN	91.56	10 eP	23 46.13	0.1	MDJ	127.79	296 ePKP	29 44.00	-0.9	TRGS	148.93	93 PKP	30 30.60
ALO	91.66	22 eP	23 45.49	-1.2	Z	36s	7.96um		6.1MszX	DCN	148.96	69 ePKP	30 29.30
	1.0s	24.85nm		5.5mb	FRB	127.79	31 ePKP	29 45.00	0.8	ETA	149.30	71 ePKP	30 31.00
Z	15s	2.56um		5.8MszX		1.0s	9.00nm			ETER	149.33	94 iPKPc	30 27.10
		S	34 57.47		KMI	129.45	259 PKPd	29 52.00	3.1X	DLF	149.35	69 ePKP	30 30.50
TPNV	91.81	14 P	24 00.00	12.7X	Z	32s	8.80um		6.2MszX	DMU	149.38	68 ePKP	30 30.40
	Z	20s	7.37um		N	17s	1.30um			PERF	149.45	94 PKP	30 31.25
CMB	92.36	11 e(P)	23 32.68	-17.0X	E	17s	1.20um			LFF	149.61	88 ePKP	30 16.30
	Z	20s	8.00um		CN2	129.47	293 ePKP	29 47.00	-1.1		1.6s	329.60nm	
		iS	35 00.68		MBC	130.26	5 ePKP	29 46.00	-2.6	LPO	149.74	89 ePKP	30 16.60
		iSS	41 17.68			0.8s	4.00nm				1.8s	230.45nm	
		eLO	48 29.68		BJI	132.20	283 ePKP	29 52.50	-0.9	MFF	149.99	85 ePKP	30 17.20
		eLR	53 11.68		Z	26s	3.64um		6.0MszX		1.6s	197.15nm	
CMB	92.36	11 eP	23 48.69	-1.0	N	20s	2.22um			LPF	150.18	82 ePKP	30 17.20
	1.4s	22.81nm		5.4mb			ePP	32 14.00			1.6s	204.00nm	
Z	19s	7.18um		6.1Msz	XAN	132.37	272 PKP	29 53.00	-1.0	RJF	150.27	88 ePKP	30 17.60
		e	37 10.90		Z	25s	2.33um		5.8MszX		1.3s	81.25nm	
BONR	92.52	12 eP	23 50.42	-0.3	E	17s	1.15um			Z	21s	6.88um	6.4Msz
ARUT	93.06	16 eP	23 54.86	1.8	TIY	132.82	278 ePKP	29 56.80	2.0	CAF	150.39	90 ePKP	30 18.60
											1.7s	186.00nm	

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	0.4 s	34.00nm		5.2mb			eS	19	28.00			0.6 s	5.80nm		5.3mb	
BWA	33.45	147	iPc	11 34.80	432kmX	MRRJ	50.79	13 eP	12 37.40	-0.2		MBC	102.24	13 ePd	diff17 27.00	0.0
			ePP	11 41.30	2.2	HOOJ	51.29	15 eP	12 41.70	0.4			0.9 s	4.00nm		5.0mb
CAN	34.44	148	iPCp	11 43.00		MDJ	51.46	2 eP	12 42.50	0.0		VRI	102.45	315 ePd	diff17 21.50	-7.1X
			iPP	10 28.10	1.1	WVZ	52.28	141 eP	12 48.60	0.0		SPC	106.49	319 ePKP	21 52.30	-3.9X
			iPCp	11 55.30		KUSJ	52.33	16 eP	12 48.50	-0.4			e	22 13.10		
			iScP	16 08.30		QRZ	52.36	137 eP	12 50.40	1.1		HFS	107.77	331 ePd	diff17 50.10	-1.8
RIV	34.55	144	eP	10 29.80	2.0	ASAJ	0.6 s	89.00nm	12 52.00	-0.1		HFS	107.77	331 ePKP	21 56.90	-1.1
TOO	34.55	154	iPc	10 29.80	1.9	GTA	52.80	333 iPd	12 52.60	-0.1			0.4 s	1.30nm		5.7mb
	0.5 s	70.00nm		5.4mb			1.0 s	120.00nm	12 52.60	5.3mb		DAG	107.97	352 ePd	diff17 52.60	0.2
			iPp	11 27.80	293kmX			PcP	13 58.00				1.0 s	13.00nm		6.1mb
CNB	34.63	147	iPd	10 30.00	1.4	THZ	53.04	138 eP	12 54.40	0.0		NB2	108.64	333 Pd	diff 17 54.40	-1.4
			epP	11 29.00	299km	GUN	53.06	313 P	12 54.60	-0.4			0.9 s	3.60nm		5.6mb
			iPP	11 53.50		PKI	53.21	312 P	12 55.30	-0.8		NB2	108.64	333 PKP	21 59.50	-0.2
KAGJ	38.16	5	P	10 58.50	0.5	WLZ	53.27	133 eP	12 57.00	1.0			0.8 s	6.30nm		
SSE	38.39	351	iPc	11 00.50	0.6	KKN	53.43	312 P	12 57.00	-0.6		KSP	108.71	321 iPKP	22 00.60	0.5
	1.0 s	110.00nm		5.2mb		DMN	53.45	292 P	12 57.40	-0.4		ZST	108.71	319 e(PKP)	22 00.70	0.6
			pP	12 03.50	315km	GBA	53.67	322 Pd	12 59.00	-0.2		YKA	108.92	26 ePd	diff17 56.40	-0.5
GYA	38.91	330	iPd	11 05.40	1.0	CNZ	53.76	134 eP	13 00.10	0.4			0.6 s	1.90nm		5.5mb
	1.0 s	69.00nm		4.9mb		KHZ	53.77	139 eP	12 59.00	-0.5		YKA	108.92	26 ePKP	21 59.70	-0.4
			PcP	13 09.60		MRW	54.02	137 eP	13 00.00	-1.4			0.6 s	7.50nm		
			ScP	16 27.40		GKN	54.02	312 P	13 01.40	-0.3		BCAO	109.22	272 iPKPd	22 02.20	0.0
			S	16 38.20		HYB	54.02	297 ePd	13 00.50	-1.3			0.8 s	11.00nm		
WHN	39.41	342	iPd	11 09.60	1.3		1.0 s	120.00nm	13 00.50	5.3mb		PRU	109.99	321 PKP	22 02.80	0.3
	1.2 s	190.00nm		5.3mb		SNZO	54.05	137 eP	13 00.15	-1.4		VBY	110.46	316 i(PKP)	22 03.80	0.3
			PcP	13 10.70		CAW	54.21	136 eP	13 01.50	-1.3		GEC2	110.79	320 ePKPd	22 04.10	-0.1
KUMJ	39.50	5	P	11 09.00	0.0	MNG	54.29	136 eP	13 02.40	-1.0			0.6 s	8.92nm		
NJ2	39.72	349	iPd	11 12.00	1.2	URZ	54.53	132 eP	13 04.10	-0.9			e		22 06.80	
	0.8 s	96.00nm		5.2mb		MTW	54.53	136 eP	13 03.80	-1.3			ePKKp	33 03.30		
			PcP	13 12.00		BLW	54.60	137 eP	13 04.40	-1.2			e	33 08.20		
KMI	39.98	324	Pd	11 15.00	1.7	PGZ	54.84	135 eP	13 06.60	-0.7			e	33 14.90		
	1.8 s	220.00nm		5.2mb		NOZ	55.34	133 eP	13 10.10	-0.7		KHC	110.80	320 ePKP	22 04.70	0.6
						WMO	62.05	328 iPd	13 57.00	0.3		WET	111.24	320 iPKPc	22 05.50	0.6
							1.0 s	91.00nm	15 01.00	284kmX		RBL	111.42	317 PKP	22 04.80	-0.6
DZM	40.49	116	iPc	11 17.80	0.3			pP	15 01.00	284kmX		KBA	111.43	318 e(PKP)	22 04.00	-1.6
SHNJ	41.10	5	P	11 21.80	-0.2			iPd	13 58.00	0.0		BHG	111.59	319 iPKPc	22 05.40	-0.2
BKM	41.19	109	iPd	11 24.10	1.0	IRK	62.29	344 iPd	13 58.00	0.0		FVI	111.92	317 PKP	22 06.00	-0.2
TKSJ	41.29	8	P	11 24.20	0.6		1.2 s	86.00nm	15 04.50	21kmX		GRF	112.14	321 iPKPd	22 06.90	0.3
WKYJ	41.77	10	P	11 27.80	0.2			e	14 04.50	21kmX		ARV	112.49	314 PKP	22 08.00	0.5
YONJ	42.40	7	P	11 33.30	0.7	KSH	66.28	319 P	14 25.60	1.5		FUR	112.52	319 iPKPd	22 07.50	0.1
TSRJ	43.12	10	P	11 38.50	0.1		1.0 s	50.00nm	14 39.50	0.2			0.7 s	56.00nm		
IJDJ	43.44	13	P	11 40.50	-0.5	QUE	68.72	306 Pd	14 39.50	0.1		CTI	112.81	317 PKP	22 08.00	-0.1
CD2	44.01	330	iPd	11 45.70	0.2	YAK	68.88	1 iPc	14 39.50	0.1		OCA	113.02	318 iPKPc	22 09.00	0.3
	1.0 s	160.00nm		5.3mb			1.1 s	225.00nm	15 47.00	295kmX			0.7 s	12.00nm		
TIA	44.09	348	eP	11 45.80	-0.3			e	15 47.00	295kmX		SFI	113.17	315 PKP	22 09.30	0.6
			PcP	13 26.30				e	23 18.00			OSS	113.65	318 ePKPd	22 09.70	-0.2
CHJJ	44.23	14	P	11 45.80	-1.4			e	24 07.00			VDL	114.16	318 ePKPd	22 10.30	-0.6
XAN	44.45	338	iPd	11 48.50	-0.5	SMY	71.51	28 eP	14 55.60	0.3		LLS	114.36	319 iPKPd	22 11.00	-0.3
	1.0 s	94.00nm		5.1mb		ADK	75.58	32 ePd	15 18.53	-0.2		SLE	114.43	320 PKPd	22 10.30	-0.8
			PcP	13 27.50			1.0 s	81.25nm	15 26.60	1.1		ZLA	114.58	319 ePKPd	22 11.50	0.0
MTMJ	44.49	12	P	11 48.70	-0.6	MAIO	76.71	310 iPd	15 26.60	1.1		TMA	114.66	318 iPKPd	22 11.30	-0.5
MAT	44.53	12	iPd	11 48.40	-1.2		0.7 s	27.00nm	15 33.40	0.4		VAI	114.79	317 PKP	22 11.00	-0.8
	1.0 s	111.00nm		5.1mb		AVY	78.00	252 iPd	15 34.30	0.4		PEC	114.99	56 PKP	22 13.14	0.5
KAKJ	44.67	15	P	11 49.20	-1.4	VTY	78.17	252 iPd	15 34.30	0.4		CDF	115.00	321 ePKP	22 11.50	-0.8
NIJ	45.37	13	P	11 54.90	-1.3	ABM	78.30	251 iPd	15 34.90	0.3			0.7 s	5.20nm		
DL2	46.03	354	Pd	12 01.40	0.1	DHH	78.54	67 eP	15 35.53	0.0		GSC	115.06	54 PKP	22 13.72	0.9
	1.0 s	130.00nm		5.2mb		OPO	78.69	253 iPd	15 36.40	-0.3		MMK	115.28	318 ePKPd	22 13.40	0.3
			PcP	13 33.00		SPA	83.00	180 iPd	15 58.10	-0.1		BSF	115.50	320 ePKP	22 12.70	-0.6
YAMJ	46.50	14	P	12 05.50	0.5		0.6 s	28.05nm	17 13.70	323km			0.7 s	31.20nm		
TIY	46.66	344	Pc	12 06.00	-0.4			i	16 11.46	-0.3		DIX	115.64	318 iPKPd	22 14.00	0.2
	0.8 s	45.00nm		4.8mb		SDN	85.75	33 eP	16 11.46	-0.3		HAU	115.72	320 ePKP	22 13.30	-0.3
OFUJ	47.77	15	P	12 14.70	0.0		0.8 s	367.41nm	16 13.00	-0.6			0.8 s	20.15nm		
BJI	47.98	348	eP	12 16.00	-0.3	KER	85.98	305 eP	16 19.00	-0.9		EMS	115.96	318 ePKPd	22 14.10	-0.2
	1.0 s	77.00nm		5.0mb		TAB	87.31	309 eP	16 31.86	0.6		DOU	116.07	323 PKPc	22 14.80	0.7
			PcP	13 40.00		SVW	89.88	28 ePd	16 31.86	0.6			0.7 s	8.90nm		
LZH	48.27	334	iPd	12 19.60	0.7		0.6 s	43.41nm	16 32.71	0.0		SNF	116.10	323 PKP	22 14.60	0.5
	1.5 s	230.00nm		5.3mb		TTA	90.18	26 ePd	16 32.71	0.0		LPG	116.26	318 ePKP	22 15.00	0.0
			pP	13 25.00	314km		1.0 s	25.60nm	16 34.12	-3.0			0.7 s	15.55nm		
			PcP	13 42.00		RSO	91.10	29 eP	16 38.21	-0.8		LPL	116.26	318 ePKP	22 14.90	-0.1
			sP	14 00.00		CP2	91.51	28 ePd	16 37.61	-1.5			0.6 s	18.85nm		
			PP	14 17.00		CRP	91.56	28 ePd	16 40.37	-0.4		BNI	116.44	317 PKP	22 15.00	-0.2
			ScP	17 05.00		IMA	91.92	24 ePd	16 41.63	0.2		HVU	116.76	47 PKP	22 16.00	0.1
			PcS	17 37.50			0.9 s	15.11nm	16 41.17	-1.4		FRF	116.91	316 ePKP	22 15.80	-0.1
			eS	18 53.00		BRW	92.13	18 ePc	16 44.95	-0.8			0.5 s	6.65nm		
SNY	48.76	356	iPd	12 22.20	0.0	SLKM	92.34	29 ePc	16 44.95	-0.8		LMR	117.07	315 ePKP	22 16.00	-0.2
	1.0 s	99.00nm		5.1mb		PMR	93.04	28 ePc	16 44.95	-0.8		LRG	117.14	315 ePKP	22 16.50	0.2
							0.5 s	53.47nm	16 48.94	-1.8			0.5 s	5.25nm		
HHC	49.83	344	Pd	12 30.80	0.2	FBA	94.13	25 eP	16 52.29	-0.6		DUG	117.14	48 PKP	22 17.30	0.6
	1.0 s	54.00nm		4.8mb			0.5 s	5.80nm	17 00.00	-0.2		LOR	117.56	320 ePKP	22 16.90	-0.2
BTO	50.04	343	eP	12 31.00	-1.1	KLU	94.56	29 ePd	17 00.00	-0.2			0.8 s	15.60nm		
LSA	50.47	318	iPd	12 36.00	0.0	OBN	96.18	325 eP	17 00.21	-0.3		L8F	117.58	320 ePKP	22 17.00	-0.2
	0.7 s	47.00nm		5.0mb			1.1 s	39.00nm	17 17.50	0.9			0.7 s	16.30nm		
CN2	50.64	358	Pd	12 35.60	-0.8	BALM	96.24	29 ePc	17 17.50	0.9		KAC	117.77	333 ePKP	22 16.90	-0.2
	0.6 s	23.00nm		4.7mb		INK	99.87	22 eP	22 10.33	332 iPdi	ff17 22.10	SMF	117.79	320 ePKP	22 17.20	-0.3
			PcP	13 48.80			0.6 s	33.00nm	22 10.33	332 iPdi	ff17 22.10		0.4 s	4.80nm		
			ScP	17 15.00		KAF	101.38	332 iPdi	ff17 22.10	-1.3		SSF	117.86	320 ePKP	22 17.70	0.1

18d 19h

RTBS 0.77 214 iPd 44 32.40 -0.5
 CFA 0.84 134 ePc 44 34.30 0.6
 S 44 48.20
 MRA 3.09 118 iPc 45 01.70 -0.6
 S 45 36.80
 TCA 3.74 96 e(P) 45 11.10 -0.3
 S.D. = 0.7 on 6 of 6 obs.

* APR 18, 1993 21h 06m 54.45 ± 0.82s
 15.208 N ± 17.1km 92.986 W ± 9.1km
 DEPTH = 107.7 ± 9.0 km
 3.5mb (2 obs.)

MEXICO-GUATEMALA BORDER REGION (62)

TPX 0.76 113 iP 07 15.50 2.1
 iS 07 26.50
 SCX 1.56 12 iP 07 22.50 0.3
 (S) 07 43.00
 BVA 2.33 103 eP 07 32.29 -0.2
 RDG 2.44 94 eP 07 33.29 -0.5
 IXG 2.66 112 eP 07 35.74 -0.9
 MRL 3.18 92 eP 07 43.02 -0.8
 OXX 4.05 298 iP 07 56.00 0.4
 (S) 08 25.00
 IISM 5.64 312 (P) 08 16.00 -1.2
 (S) 09 03.00
 PPM 6.62 306 iP 08 31.00 -0.3
 III 6.96 298 iP 08 35.00 -0.7
 (S) 09 36.00
 ALQ 23.08 331 eP 11 52.50 0.9
 1.0s 2.63nm 3.5mb
 TUC 23.50 320 ePc 11 46.20 -9.4X
 e 11 55.46
 YKA 49.64 347 eP 15 35.70 -0.9
 0.5s 0.30nm 3.5mb
 INK 59.02 344 eP 16 46.00 1.2
 MBC 62.60 353 eP 17 09.50 0.6
 S.D. = 1.1 on 14 of 15 obs.

* APR 18, 1993 21h 19m 54.91 ± 0.69s
 4.440 S ± 8.5km 151.577 E ± 10.6km
 DEPTH = 225.9 ± 6.5 km
 4.8mb (5 obs.)

NEW BRITAIN REGION, P.N.G. (192)

RAB 0.63 67 iP 20 26.30 -0.7
 0.5s 1690.14nm
 LAT 5.06 244 eP 21 12.40 1.1
 CTA 16.39 198 iPc 23 35.00 0.6
 1.0s 7.50nm 4.1mb
 DZM 22.69 142 iPc 24 39.10 0.8
 WB2 22.78 226 iPc 24 39.80 0.6
 0.4s 142.90nm 5.9mb X
 eS 28 28.30
 ASPA 25.62 220 iPd 25 05.10 -0.5
 0.6s 12.50nm 4.7mb
 e 25 26.20
 eS 29 14.50
 WARB 32.21 225 iPd 26 03.60 -0.4
 0.3s 13.00nm 5.0mb
 MEEK 38.46 232 eP 26 56.00 -0.8
 0.4s 30.00nm 5.2mb
 KLB 41.67 226 iPd 27 21.80 -1.2
 0.4s 8.00nm 4.5mb
 MUN 42.99 226 eP 27 33.00 -0.7
 GUN 70.89 301 P 30 50.20 0.1
 PKI 71.20 301 P 30 52.00 0.1
 KKN 71.37 301 P 30 53.00 0.2
 DMN 71.47 301 P 30 53.80 0.4
 GKN 71.98 301 P 30 56.40 0.1
 GEC2 123.11 328 ePKP 38 26.50 0.4
 0.5s 0.45nm
 e 38 28.10
 S.D. = 0.7 on 16 of 16 obs.

? APR 18, 1993 23h 05m 07.51 ± 3.44s
 31.475 S ± 24.8km 72.486 W ± 30.7km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

RTLL 3.44 89 eP 06 01.00 0.9
 S 06 36.50
 CFA 3.63 93 ePd 06 03.70 0.9
 S 06 44.60
 RFA 4.71 135 eP 06 22.80 4.7X
 (S) 07 35.00
 MRA 5.84 101 iPd 06 32.60 -1.4

CYA 6.54 64 ePd 07 33.00
 TCA 6.75 91 eP 06 58.30 14.3X
 i 06 43.60 -3.3X
 (S) 06 45.50
 (S) 07 56.00
 FSA 7.82 48 e(P) 07 02.00 0.2
 CNCB 15.16 17 P 08 48.00 6.5X
 LPB 15.40 16 eP 08 51.00 6.5X
 ZOBO 15.65 16 P 08 47.90 0.1
 SIV 18.60 37 P 09 35.00 10.7X
 PPD 21.09 69 (P) 09 48.00 -3.4X
 BAO 27.34 60 iPc 10 49.80 -1.9
 LKO 75.81 69 P 16 53.62 1.2
 GBA 147.18 116 PKP 24 54.00 6.9X
 S.D. = 1.5 on 7 of 15 obs.

* APR 18, 1993 23h 07m 01.99 ± 2.33s
 39.140 N ± 6.6km 16.730 E ± 29.3km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

ROI 0.45 344 P 07 10.10 -1.0
 TDS 0.60 330 P 07 14.00 -0.1
 eSg 07 24.80
 CSI 0.72 332 P 07 15.80 -0.4
 MMN 0.94 323 P 07 20.00 0.1
 ORI 0.95 347 P 07 21.10 1.1
 SOI 1.19 207 P 07 24.00 -0.2
 MGR 1.35 318 P 07 27.30 0.5
 S.D. = 0.8 on 7 of 7 obs.

* APR 18, 1993 23h 08m 50.57 ± 0.28s
 45.111 N ± 6.4km 146.797 E ± 5.2km
 DEPTH = 26.6km (6 depth phases)
 4.7mb (25 obs.) 4.1msz (1 obs.)

KURIL ISLANDS (221)

KUSJ 2.51 217 eP 09 29.10 -1.4
 eS 10 01.50
 ASAJ 3.13 253 eP 09 39.50 0.2
 HOOJ 3.73 224 eP 09 49.00 1.3
 OFUJ 7.13 214 eP 10 33.70 -2.0
 eS 11 55.10
 MAT 10.75 220 eP 11 24.00 -1.8
 1.2s 18.75nm 5.2mb
 MDJ 12.22 274 eP 11 47.60 1.9
 1.2s 13.00nm 5.0mb
 CN2 15.30 273 eP 12 32.00 5.7X
 1.0s 5.80nm 3.8mb
 Z 12s 1.09um 6.3mszX
 N 13s 0.54um
 E 13s 0.55um
 eP 12 36.00
 SNY 17.16 267 eP 12 50.80 0.9
 Z 15s 0.59um
 N 14s 0.70um
 S 16 04.00
 BJI 23.03 268 eP 13 53.50 -0.9
 Z 16s 0.35um 3.9mszX
 TIA 24.09 259 eP 14 05.50 0.8
 SSE 24.41 244 P 14 09.00 1.2
 1.0s 11.00nm 4.4mb
 NJ2 25.30 249 Pd 14 17.00 0.7
 Z 14s 0.35um 4.0mszX
 HHC 26.00 273 Pd 14 24.00 1.1
 1.0s 14.00nm 4.5mb
 Z 14s 0.95um 4.5mszX
 E 14s 0.59um
 TIY 26.66 266 eP 14 28.80 -0.2
 Z 18s 0.49um 4.1msz
 N 12s 0.26um
 BTO 27.18 274 eP 14 37.00 3.2X
 N 13s 0.28um
 E 13s 0.36um
 eS 19 20.50
 XAN 30.96 262 P 15 07.50 -0.1
 LZH 33.50 270 eP 15 29.50 -0.4
 1.6s 28.00nm 4.9mb
 Z 12s 0.63um 4.6mszX
 E 10s 0.28um

34.84 277 eP 15 42.00 0.6
 2.0s 29.00nm 4.9mb
 Z 12s 0.60um 4.6mszX
 E 12s 0.37um
 pP 15 50.50 29km
 PpP 18 15.00
 CD2 36.32 262 P 15 54.00 0.1

TTA 36.54 40 eP 15 55.09 -0.4
 0.8s 4.16nm 4.4mb
 IMA 37.70 35 eP 16 04.75 -0.5
 0.7s 7.51nm 4.6mb
 PMR 39.81 42 e(P) 16 13.70 -9.0X
 FBA 40.15 37 ePc 16 25.74 0.2
 0.8s 12.98nm 4.7mb
 KMI 40.59 256 Pd 16 30.00 0.2
 1.5s 50.00nm 5.0mb
 pP 16 36.00 20km
 KLU 41.35 42 eP 16 34.71 -0.7
 WMO 41.38 290 P 16 36.70 0.8
 1.0s 7.00nm 4.3mb
 BALM 43.13 42 eP 16 50.15 0.1
 INK 45.36 31 eP 17 08.50 0.7
 0.6s 1.00nm 3.9mb

GUN 50.70 272 P 17 50.00 -0.3
 KKN 51.20 272 P 17 53.60 -0.3
 PKI 51.24 272 P 17 53.20 -1.2
 DMN 51.43 272 P 17 55.60 -0.1
 GKN 51.52 273 P 17 56.20 -0.1
 YKA 54.82 34 eP 18 19.20 -0.9
 0.8s 3.60nm 4.5mb
 NEW 61.63 49 ePc 19 07.66 -0.4
 0.9s 17.93nm 5.2mb
 e 19 16.12 28km
 HY8 62.57 267 eP 19 14.00 -0.7
 FCC 64.97 30 eP 19 31.50 1.8
 WB2 65.73 193 iPd 19 33.70 -1.3
 0.8s 10.10nm 5.0mb

WRA 65.73 193 P 19 34.00 -1.0
 0.8s 4.50nm 4.6mb
 GBA 65.94 265 P 19 37.00 0.5
 LCCM 65.94 49 eP 19 36.60 0.2
 KVN 66.80 58 (P) 19 42.84 0.8
 NB2 68.24 338 P 19 48.40 -2.2
 0.9s 7.00nm 4.8mb
 HFS 68.34 337 eP 19 48.40 -2.7
 0.5s 2.50nm 4.6mb
 BW06 69.22 50 ePc 19 57.37 0.2
 0.8s 11.90nm 5.1mb
 e 20 05.11 25km

ASPA 69.45 193 eP 19 58.80 0.5
 0.7s 4.70nm 4.7mb
 RSSD 71.19 46 ePd 20 08.87 -0.2
 0.7s 9.09nm 5.0mb
 PLM 71.28 61 (P) 20 09.63 -0.1
 PRU 76.59 331 eP 20 39.50 -0.5
 STK 76.77 185 eP 20 41.50 0.5
 1.0s 1.70nm 4.0mb
 KHC 77.65 331 eP 20 46.00 0.1
 e 20 54.10 26km
 GEC2 77.85 330 ePd 20 46.60 -0.5
 0.7s 0.76nm 3.8mb
 e 20 49.20 8kmX
 GEC2 77.85 330 ePKP 20 54.40 7.3X
 0.8s 0.80nm 3.8mb
 e 21 04.60 33km

BWA 79.18 179 eP 20 55.80 1.5
 KBA 79.48 330 e(P) 20 55.00 -1.1
 CAN 80.08 178 eP 21 00.40 1.3
 ZOBO 138.96 57 ePKP 28 14.00 -3.3X
 LPB 139.18 57 PKP 28 19.00 1.5
 CNCB 139.47 57 PKP 28 20.00 1.8
 SIV 142.69 48 PKP 28 31.30 8.0X
 YJA 145.06 60 iPKPc 28 28.30 0.6
 BAO 148.08 28 ePKP 28 36.00 3.7X
 S.D. = 1.0 on 55 of 62 obs.

* APR 19, 1993 00h 18m 02.31 ± 0.73s
 14.285 N ± 10.6km 90.183 W ± 10.8km
 DEPTH = 33.0km (normal)
 4.4mb (8 obs.)

GUATEMALA (70)

At least 50 houses were slightly damaged in Santa Rosa Department. Felt (III) at Guatemala City.

TPX 2.10 287 iP 18 36.00 0.1
 iS 19 02.00
 OXX 6.89 295 (P) 20 02.00 18.2X
 IISM 8.33 305 (P) 20 45.00 41.2X
 PPM 9.38 302 (P) 20 40.00 21.2X
 III 9.80 296 iP 20 25.00 0.7
 UYO 20.17 350 iPc 22 36.30 -0.5
 MIAR 20.40 352 ePd 22 39.72 0.5

1.0s 23.76nm 4.5mb
 OLY 21.16 357 (P) 22 47.77 0.8
 MEO 21.77 341 iPd 22 51.50 -1.7
 WMOK 21.79 341 ePd 22 52.43 -1.0
 1.3s 46.32nm 4.7mb
 GBTN 21.96 13 eP 22 55.52 0.5
 OCO 22.14 344 iPd 23 01.10 4.3X
 ELC 22.92 2 eP 23 05.38 0.9
 ACO 23.71 342 iPd 23 12.90 0.7
 TUC 25.99 317 eP 23 34.67 0.6
 1.4s 14.69nm 4.4mb
 RSSD 32.00 341 eP 24 27.51 -0.5
 1.0s 7.97nm 4.6mb
 ULM 36.17 354 eP 25 05.50 2.0
 ZOBO 37.37 144 P 25 15.00 0.4
 CNCB 37.89 144 P 25 19.00 0.1
 JAO 41.04 13 eP 25 45.50 1.4
 SIV 41.62 135 P 26 01.40 12.1X
 FCC 44.49 357 eP 26 13.50 1.4
 YKA 51.17 346 eP 27 02.00 -2.1
 1.0s 4.20nm 4.4mb
 FRB 51.66 12 eP 27 06.00 -1.7
 INK 60.67 343 eP 28 12.00 -0.3
 1.0s 2.00nm 4.2mb
 MBC 63.85 353 eP 28 31.50 -1.9
 0.5s 1.00nm 4.2mb
 HFS 84.50 29 eP 30 32.60 -0.4
 0.6s 0.70nm 4.0mb
 S.D. = 1.2 on 22 of 27 obs.

% APR 19, 1993 00h 24m 04.61±0.70s
 40.868 N ± 5.7km 22.816 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.26 154 iPg 24 09.85 -0.3
 KNT 0.30 12 ePg 24 11.04 0.2
 GRG 0.33 286 iPg 24 11.38 0.0
 SOH 0.41 96 ePg 24 12.88 -0.1
 SRS 0.64 67 ePg 24 17.00 -0.4
 OUR 1.04 121 ePg 24 24.96 0.8
 PAIG 1.15 145 ePg 24 25.92 -0.1
 S.D. = 0.5 on 7 of 7 obs.

% APR 19, 1993 01h 01m 40.03±0.88s
 40.860 N ± 6.9km 28.195 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

CTT 0.34 32 iPg 01 47.20 0.2
 EDC 0.57 206 iPg 01 51.50 -0.1
 ISK 0.69 72 ePg 01 53.00 -0.6
 YLV 0.94 108 ePg 01 58.50 0.5
 DMK 1.02 341 iPg 01 59.30 0.1
 S.D. = 0.6 on 5 of 5 obs.

? APR 19, 1993 01h 08m 34.50±6.25s
 41.795 N ± 44.7km 19.597 E ± 15.4km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.2 (TTG).

ULC 0.31 303 iPg 08 40.64 -0.3
 TTG 0.68 339 iPg 08 47.72 -0.3
 BDV 0.75 311 iPg 08 48.79 -0.4
 PVY 0.85 19 iPg 08 50.20 -0.7
 HCY 1.05 309 iPg 08 54.12 -0.1
 IVA 1.10 12 iPg 08 55.07 -0.1
 NKY 1.11 337 iPg 08 55.52 0.1
 BRY 1.35 325 iPg 09 00.07 0.6

PLE 1.54 354 iSg 09 21.69
 iPnc 09 03.32 1.2
 iSn 09 27.21
 S.D. = 0.7 on 9 of 9 obs.

& APR 19, 1993 01h 11m 48.79s
 48.796 N 122.150 W
 DEPTH = 0.1km
 2.9mb (1 obs.)
 WASHINGTON (29)
 <SEA-P>. MD 3.1 (SEA). Felt in
 the Deming area.

MBW 0.17 94 Pd 11 52.62 0.5
 S 11 56.38
 VDB 0.23 8 Pd 11 53.53 0.1
 CMW 0.37 177 Pd 11 56.03 -0.2
 S 12 02.21
 MCW 0.47 256 ePc 11 57.59 -0.5
 eS 12 04.55
 OHW 0.54 208 P 11 59.28 -0.2
 S 12 08.27
 RPW 0.55 129 Pd 11 59.08 -0.6
 S 12 09.99
 HNB 0.56 330 Pd 11 58.62 -1.3
 JCW 0.62 166 Pd 12 00.45 -0.7
 S 12 10.43
 SNB 0.68 269 Pc 12 01.30 -1.0
 VGZ 0.87 244 Pc 12 04.27 -1.9
 PCC 0.87 261 P 12 04.00 -2.2

0.3s 51.00nm
 BLN 0.96 215 Pc 12 06.35 -1.6
 BLH 0.96 175 P 12 07.08 -0.9
 B1B 0.97 309 Pd 12 05.82 -2.3
 PGW 1.02 197 P 12 07.78 -1.2
 HTW 1.03 165 P 12 07.71 -1.4
 WPB 1.11 322 P 12 07.95 -2.5
 STW 1.20 238 Pc 12 09.90 -2.2
 SPW 1.24 183 P 12 12.24 -0.6
 NAB 1.29 290 Pd 12 11.06 -2.6
 HDW 1.30 208 Pc 12 11.57 -2.2
 GMW 1.32 199 iPd 12 12.09 -2.0
 eS 12 30.27
 SHB 1.39 306 Pd 12 12.77 -2.6
 NLW 1.40 120 ePd 12 14.27 -1.4
 OSD 1.42 227 Pc 12 14.05 -2.0
 WHB 1.43 339 P 12 13.58 -2.5
 OBC 1.49 240 P 12 14.62 -2.4
 PFB 1.53 262 P 12 14.77 -2.8
 GSM 1.61 171 Pc 12 17.27 -1.4
 OTR 1.63 245 P 12 16.87 -2.0
 MEW 1.63 192 P 12 17.91 -0.9
 SMW 1.68 209 P 12 18.74 -0.9
 ETW 1.70 134 P 12 19.19 -0.9
 CBSW 1.72 124 P 12 19.69 -0.6
 OOW 1.73 233 P 12 19.62 -0.7
 GHW 1.76 183 P 12 19.65 -1.0
 OSR 1.77 224 P 12 20.16 -0.8
 DHW2 1.78 116 P 12 20.83 -0.3
 ALB 1.83 286 P 12 19.55 -2.1
 WTV 1.83 126 P 12 21.79 -0.1
 RVC 1.86 176 Pc 12 21.25 -1.0
 TBM 1.93 147 P 12 23.79 0.5
 CPW 1.94 200 P 12 22.04 -1.4
 RCS 1.95 172 P 12 22.86 -0.9
 REMR 1.99 174 P 12 23.22 -1.0
 LON 2.06 173 ePc 12 24.12 -1.0
 eS 12 51.34
 LMW 2.13 183 P 12 25.49 -0.7
 WPW 2.14 169 P 12 25.70 -0.6
 SAW 2.14 120 P 12 27.18 0.9
 EBG 2.17 150 P 12 28.03 1.3
 OZB 2.21 276 P 12 25.88 -1.4
 EPH 2.24 129 P 12 29.22 1.5
 NAC 2.25 156 P 12 27.67 -0.2
 GLK 2.26 170 P 12 28.03 -0.1
 BTB 2.31 288 P 12 27.38 -1.5
 KOSW 2.34 181 P 12 28.76 -0.4
 CZM 2.37 186 P 12 28.87 -0.8
 BMW 2.43 198 eP 12 29.54 -1.0
 TDL 2.45 181 P 12 30.46 -0.4
 ERK 2.50 183 P 12 30.79 -0.7
 MXC 2.55 150 P 12 31.91 -0.2
 SOSW 2.56 180 P 12 32.40 0.0
 ESD 2.60 180 P 12 33.70 0.7
 FL2 2.60 183 P 12 32.72 -0.3
 SHW 2.61 181 eP 12 32.70 -0.3

JLK 2.65 180 P 12 33.87 0.2
 ASR 2.67 172 P 12 34.59 0.6
 CDFW 2.68 178 P 12 34.33 0.3
 OD2 2.70 120 P 12 37.70 3.4
 CRF 2.71 136 P 12 36.46 2.1
 MTMW 2.77 181 Pd 12 35.85 0.4
 DPW 2.79 108 ePn 12 34.48 -1.2
 eS 13 14.78
 NEW 3.39 97 ePn 12 43.84 -0.2
 ePg 12 49.75
 eS 13 34.46
 YKA 14.36 14 eP 15 19.70 4.5
 0.4s 0.10nm 2.9mb
 74 obs. associated

* APR 19, 1993 01h 24m 04.88±0.84s
 21.199 N ± 15.8km 45.937 W ± 13.6km
 DEPTH = 10.0km (geophysicist)
 4.4mb (8 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

SIV 39.83 203 eP 31 51.00 10.7X
 i 31 54.20
 PAB 39.86 53 eP 31 40.00 -0.5
 LKO 40.48 100 P 31 44.84 -0.9
 TIC 42.12 104 P 31 58.20 -1.0
 LIC 42.28 105 P 31 56.20 -4.3X
 KIC 42.48 104 P 32 01.20 -1.0
 ZOBO 43.13 212 P 32 09.90 1.9
 LR 44 40.00
 LSF 45.84 45 eP 32 28.70 -0.2
 0.8s 3.10nm 4.3mb
 TCF 46.31 46 eP 32 32.40 -0.2
 1.2s 5.95nm 4.5mb
 AVF 47.20 45 eP 32 39.30 -0.3
 1.1s 9.50nm 4.8mb
 SSF 47.38 45 eP 32 40.50 -0.5
 0.9s 5.55nm 4.7mb
 LPL 49.19 48 eP 32 55.90 0.5
 LPG 49.20 48 eP 32 56.10 0.5
 1.0s 5.60nm 4.5mb
 FCC 50.86 330 eP 33 11.50 3.9X
 KBA 53.97 47 e(P) 33 33.00 1.7
 i 33 40.90
 GEC2 54.45 44 eP 33 36.70 2.0
 1.1s 1.90nm 4.0mb
 e 33 44.10
 BW06 56.73 308 eP 33 49.00 -2.6
 1.1s 3.17nm 4.3mb
 YKA 61.58 331 eP 34 22.90 -1.5
 0.9s 1.00nm 4.0mb
 MLR 62.63 49 eP 34 32.00 0.0
 MBC 65.62 345 eP 34 53.00 2.2
 S.D. = 1.4 on 17 of 20 obs.

& APR 19, 1993 01h 33m 36.40s
 34.292 N 116.945 W
 DEPTH = 5.7km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.9 (PAS). Felt.

PEC 0.44 204 iPd 33 44.57 -0.6
 S 33 49.41
 SSK 0.62 263 iPd 33 48.09 -0.9
 PLM 0.94 176 ePd 33 53.73 -1.1
 S 34 06.24
 GSC 1.01 7 ePd 33 55.14 -0.9
 S 34 08.63
 ISA 1.86 318 eP 34 08.47 -0.6
 S 34 33.86
 GLA 2.16 124 ePn 34 11.97 -1.5
 S 34 44.02
 TPNV 2.71 12 (P) 34 24.72 3.2
 BONR 3.82 344 ePg 34 47.03 9.7
 8 obs. associated

? APR 19, 1993 01h 39m 16.36±1.93s
 66.486 N ± 13.3km 13.757 E ± 15.9km
 DEPTH = 10.0km (geophysicist)
 NORTHERN NORWAY (646)
 MD 2.7 (BER).

MOR7 0.44 117 eP 39 26.14 0.8
 eS 39 32.74
 ARA0 5.37 50 P 40 38.51 0.1

19d 01h

NRA0 5.86 191 P 41 40.06 0.3
 Lg 42 22.00
 FIA0 7.41 127 P 41 05.75 -1.2
 S 42 22.24
 Lg 43 07.89
 S.D. = 1.5 on 4 of 4 obs.

? APR 19, 1993 01h 44m 28.71±0.97s
 0.633 N ±15.7km 128.287 E ±18.0km
 DEPTH = 33.0km (normol)
 4.6mb (4 obs.)
 HALMAHERA, INDONESIA (267)

MNI 3.54 283 eP 45 23.20 0.5
 eS 46 02.80
 WB2 21.30 164 eP 49 14.20 -0.7
 0.9s 13.40nm 4.4mb
 eS 54 02.30
 ASPA 24.76 168 iPc 49 49.50 0.6
 0.8s 13.40nm 4.6mb
 i 49 57.00
 STK 34.71 160 eP 51 18.10 0.4
 0.4s 3.80nm 4.7mb
 e 51 26.20
 ARMA 38.04 146 eP 51 56.60 10.5X
 BFD 39.87 162 eP 52 10.70 9.6X
 BJI 40.75 346 eP 52 08.50 0.3
 1.2s 16.00nm 4.6mb
 HYB 51.66 292 eP 53 34.00 -1.0
 GBA 51.95 287 P 53 42.00 4.9X
 S.D. = 0.9 on 6 of 9 obs.

? APR 19, 1993 01h 46m 07.14±0.91s
 39.110 N ±10.1km 27.853 E ±15.0km
 DEPTH = 10.0km (geophysicist)
 4.2mb (4 obs.)
 TURKEY (366)
 MD 2.7 (ISK).

DST 0.78 50 iPg 46 22.00 -0.3
 IZM 0.85 213 ePg 46 23.50 0.0
 eSg 46 34.50
 KCT 1.20 19 ePn 46 29.50 0.0
 EDC 1.24 0 ePn 46 30.00 -0.1
 YLV 1.87 38 ePn 46 40.00 0.5
 S.D. = 0.4 on 5 of 5 obs.

? APR 19, 1993 01h 52m 13.54±1.24s
 14.882 N ±17.2km 90.567 W ±18.0km
 DEPTH = 33.0km (normol)
 4.2mb (4 obs.)
 GUATEMALA (70)

TPX 1.64 271 iP 52 40.50 0.1
 iS 53 09.00
 OXX 6.31 291 (P) 53 52.00 5.0X
 IISM 7.69 303 (P) 54 15.00 8.9X
 PPM 8.76 299 eP 54 27.00 5.5X
 ILL 9.21 293 eP 54 15.00 -12.4X
 UYO 19.52 350 iPc 56 45.00 3.8X
 MIAR 19.77 353 eP 56 44.98 1.2
 0.6s 9.39nm 4.3mb
 MEO 21.09 341 iPd 56 57.90 0.3
 WMOK 21.11 341 eP 56 58.99 1.2
 0.7s 4.59nm 4.0mb
 ACO 23.04 342 iPd 57 18.20 1.3
 ULM 35.54 354 eP 59 12.00 2.6X
 SIV 42.31 135 P 00 07.00 0.9
 YKA 50.50 346 eP 01 08.10 -2.2
 0.8s 1.80nm 4.1mb
 FRB 51.15 12 eP 01 12.00 -3.2X
 INK 60.00 343 eP 02 18.50 -0.4
 MBC 63.22 353 eP 02 38.00 -2.5
 0.6s 3.00nm 4.6mb
 S.D. = 1.7 on 9 of 16 obs.

& APR 19, 1993 02h 26m 06.61s
 59.093 N 153.760 W
 DEPTH = 106.9km
 SOUTHERN ALASKA (2)
 <AEIC>.

CDD 0.17 160 iP 26 20.92 0.6
 eS 26 31.90
 AUI 0.30 35 iP 26 21.41 0.8
 eS 26 32.71
 MCNL 0.31 288 iP 26 21.52 -0.8

AUW 0.32 28 iP 26 21.68 -0.6
 AUH 0.32 31 iP 26 21.71 -0.7
 AUE 0.33 37 iP 26 21.81 -0.5
 AUL 0.33 30 iP 26 21.76 -0.6
 OPT 0.62 26 iP 26 23.60 -0.7
 eS 26 36.68
 PD8 0.73 343 iP 26 24.20 -1.0
 eS 26 37.99
 SYI 0.86 124 iP 26 25.34 -1.0
 eS 26 39.68
 INW 1.03 18 iP 26 27.21 -1.1
 INE 1.03 20 iP 26 27.31 -1.1
 XLV 1.11 70 eP 26 28.00 -1.0
 eS 26 44.23
 CNPM 1.37 70 iP 26 30.53 -1.5
 eS 26 48.78
 RS1 1.46 20 iP 26 32.29 -1.1
 RS2 1.47 20 iP 26 32.31 -1.1
 RSO 1.46 20 iP 26 32.29 -1.1
 KDC 1.51 153 iPc 26 31.48 -2.1
 RDN 1.51 19 iP 26 32.90 -1.0
 NCT 1.53 16 iP 26 32.98 -1.1
 DFR 1.60 19 iP 26 33.75 -1.2
 BRLK 1.62 64 eP 26 33.34 -1.7
 eS 26 53.23
 NKA 2.09 36 iP 26 41.22 0.2
 CKL 2.23 18 iP 26 41.74 -1.3
 SVW 2.23 336 eP 26 41.10 -1.9
 CKT 2.25 20 iP 26 41.89 -1.5
 SPU 2.26 21 iP 26 41.85 -1.6
 CKN 2.28 20 eP 26 42.86 -0.8
 BGL 2.28 17 iP 26 42.69 -1.1
 SLKM 2.28 50 eP 26 41.57 -2.1
 CP2 2.31 19 eP 26 42.46 -1.7
 CPAM 2.31 20 iP 26 42.84 -1.3
 CRP 2.32 19 iP 26 43.05 -1.3
 SEW 2.41 63 eP 26 43.12 -2.2
 MPA 2.63 56 eP 26 46.25 -2.0
 eS 27 15.69
 SUA 2.81 31 eP 26 49.34 -1.5
 eS 27 23.48
 PTE 2.97 51 iP 26 50.57 -2.2
 PMS 3.01 42 P 26 51.20 -2.2
 SKT 3.10 20 iP 26 52.75 -1.9
 PWA 3.21 35 P 26 54.50 -1.6
 PLRM 3.40 41 eP 26 55.90 -2.8
 GH0 3.60 40 iP 26 58.61 -2.9
 eS 27 38.69
 SML 3.83 42 eP 27 01.73 -2.8
 HIN 3.90 67 eP 27 02.30 -3.2
 SCM 4.21 46 iP 27 06.94 -2.8
 VLZ 4.24 58 eP 27 07.02 -3.1
 CVA 4.30 67 eP 27 07.37 -3.5
 SGAM 4.55 68 eP 27 10.86 -3.5
 KLU 4.58 55 eP 27 11.67 -3.3
 TRF 4.68 19 eP 27 14.26 -2.1
 RAGM 4.78 70 eP 27 14.58 -3.0
 KAIM 4.83 76 eP 27 16.50 -1.8
 RND 4.93 27 eP 27 17.19 -2.5
 TZL 5.07 51 eP 27 19.86 -1.6
 SDN 5.25 227 P 27 22.70 -1.3
 SDG 5.29 46 eP 27 22.83 -1.8
 GLB 5.48 60 iP 27 23.98 -3.3
 CROM 5.60 68 eP 27 25.90 -3.1
 PAX 5.60 42 eP 27 25.98 -3.0
 SNH 5.65 74 eP 27 27.03 -2.5
 TGL 5.74 68 eP 27 27.91 -3.1
 WRH 6.03 24 eP 27 30.84 -3.9
 BALM 6.04 66 iP 27 31.90 -3.1
 YAH 6.21 73 eP 27 35.18 -2.3
 HDA 6.23 28 eP 27 33.81 -3.7
 CCB 6.24 24 eP 27 33.53 -4.1
 CTGM 6.50 68 eP 27 39.37 -2.1
 67 obs. associated

APR 19, 1993 02h 30m 06.19±1.28s
 40.379 N ±4.5km 127.286 W ±13.3km
 DEPTH = 10.0km (geophysicist)
 3.6mb (3 obs.)
 OFF COAST OF NORTHERN CALIFORNIA(34)
 ML 4.1 (BRK).

FHC 2.55 79 eP 30 47.04 -1.2
 (S) 31 17.01
 WDC 3.63 85 eP 31 04.59 1.0
 eS 31 44.41
 NTYM 4.10 118 eP 31 10.72 0.6

LBFM 4.20 75 eP 31 11.71 -0.3
 MIN 4.34 89 iPc 31 12.65 -1.2
 iS 32 02.63
 ORV 4.52 99 eP 31 16.67 0.4
 ZSP 4.60 120 iPd 31 17.60 0.2
 BKS 4.66 121 eP 31 17.73 -0.5
 PCC 4.78 125 iPd 31 19.68 -0.3
 GCC 5.32 127 eP 31 27.39 -0.2
 MHC 5.35 123 ePd 31 27.74 -0.4
 ARN 5.41 122 eP 31 28.61 -0.4
 SAO 5.83 126 eP 31 34.32 -0.4
 CMB 5.85 111 eP 31 37.08 2.0
 PRS 6.16 129 iPd 31 39.14 -0.3
 LLA 6.23 125 eP 31 39.17 -1.3
 PRI 6.71 127 eP 31 47.90 0.6
 MTMW 6.75 32 P 31 46.56 -1.2
 BMW 6.77 25 (P) 31 47.67 -0.4
 FL2 6.84 30 P 31 49.04 0.0
 CDFW 6.89 32 P 31 48.06 -1.7
 ERK 6.93 30 P 31 50.90 0.5
 SOSW 6.95 31 P 31 50.17 -0.5
 CZM 6.98 28 P 31 51.37 0.4
 TDL 7.02 30 P 31 52.14 0.6
 MEMM 7.04 110 eP 31 54.54 2.8X
 ASR 7.11 34 P 31 53.14 0.3
 KOSW 7.12 30 P 31 53.14 0.2
 LMW 7.26 28 P 31 55.65 0.8
 BONR 7.39 106 (P) 32 02.57 5.6X
 LON 7.51 30 eP 31 57.93 -0.4
 REMR 7.55 30 P 31 58.90 -0.2
 WPW 7.57 32 P 31 58.71 -0.5
 RVC 7.61 29 P 32 00.16 0.4
 RCS 7.64 30 P 32 00.04 -0.4
 GSM 7.89 28 P 32 04.34 0.6
 MXC 8.01 37 P 32 05.17 -0.2
 HTW 8.41 26 P 32 11.14 0.1
 JCW 8.70 24 P 32 14.95 -0.1
 GSC 9.71 118 eP 32 29.74 0.7
 ARUT 11.07 99 eP 32 51.00 3.3X
 LCCM 12.51 59 eP 33 08.90 1.7
 BW06 13.49 74 eP 33 22.79 2.5X
 1.5s 10.96nm 4.6mb X
 GOL 16.80 85 eP 34 06.86 3.6X
 1.2s 14.20nm 4.0mb
 RSSD 17.60 70 P 34 18.60 5.4X
 1.1s 5.09nm 3.6mb
 ACO 22.28 90 e(P) 35 08.50 3.5X
 MEO 23.37 95 iPd 35 19.10 3.5X
 YKA 23.43 15 eP 35 16.60 0.7
 0.8s 1.10nm 3.5mb
 ULM 24.03 55 eP 35 26.50 4.6X
 UYO 26.75 93 iPd 35 51.00 3.3X
 S.D. = 0.8 on 40 of 50 obs.

? APR 19, 1993 02h 46m 01.71±0.63s
 24.622 N ±23.2km 95.952 E ±13.3km
 DEPTH = 33.0km (normol)
 4.3mb (6 obs.)
 MYANMAR (296)

GUN 9.62 292 P 48 21.80 0.5
 PKI 9.92 289 P 48 25.60 0.1
 0.4s 15.00nm 5.6mb X
 KKN 10.09 291 P 48 27.60 0.0
 DMN 10.19 289 P 48 29.60 0.5
 GKN 10.69 291 P 48 35.00 -0.9
 WRA 57.95 136 P 55 54.00 0.6
 0.6s 0.80nm 4.0mb
 WB2 57.96 136 eP 55 53.10 -0.4
 0.5s 3.50nm 4.7mb
 HFS 65.16 327 eP 56 42.50 1.0
 0.4s 1.00nm 4.3mb
 GEC2 66.91 315 ePc 56 52.60 -0.4
 0.4s 0.89nm 4.2mb
 LPG 72.34 312 eP 57 26.00 -0.5
 0.7s 2.45nm 4.3mb
 LPL 72.34 312 eP 57 26.00 -0.5
 0.6s 2.70nm 4.4mb
 S.D. = 0.7 on 11 of 11 obs.

% APR 19, 1993 02h 48m 25.60±0.82s
 39.150 N ±6.5km 27.982 E ±9.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).
 DST 0.68 48 iPg 48 38.00 -1.1

IZM 0.94 217 iSg 48 50.00
 KCT 1.13 15 iPg 48 43.50 0.0
 EDC 1.20 356 iSg 48 56.50
 KHL 1.46 124 iPn 48 47.00 0.1
 ALT 1.66 93 ePn 48 47.50 -0.4
 YLV 1.77 37 ePn 48 52.00 -0.1
 S.D. = 0.9 on 7 of 7 obs.

% APR 19, 1993 03h 08m 18.83±0.84s
 45.670 N ± 6.8km 2.871 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.2 (LDG).

MAF 0.59 339 Pg 08 30.40 -0.4
 TCF 0.77 324 Pg 08 38.70 -0.1
 BGF 0.89 359 Pg 08 33.80 -0.1
 Sg 08 44.30
 CAF 0.94 218 Pg 08 35.70 -0.2
 Sg 08 48.10
 RJF 1.02 249 Pg 08 36.20 -0.5
 Sg 08 48.00
 LSF 1.10 302 Pg 08 38.50 0.4
 Sg 08 51.70
 AVF 1.17 16 Pn 08 39.80 0.3
 Sg 08 54.70
 SMF 1.19 34 Pn 08 39.60 -1.1
 Pg 08 40.40
 Sg 08 55.10
 SSF 1.46 17 Pg 08 40.30 -0.7
 Pg 08 40.70
 Sg 08 55.80
 LBF 1.52 30 Pg 08 45.70 0.5
 Sg 09 04.00
 LOR 1.74 23 Pg 08 46.50 0.4
 Sg 09 05.60
 Sg 09 12.50
 S.D. = 0.8 on 11 of 11 obs.

& APR 19, 1993 03h 44m 28.00s
 65.383 N 134.679 W
 DEPTH = 10.0km (geophysicist)
 NORTHERN YUKON TERRITORY, CANADA(677)
 <PGC>. ML 3.8 (PGC).

DWY 2.44 239 P 45 07.70 -0.8
 INK 2.97 B P 45 17.00 1.0X
 0.2s 75.00nm
 WHC 4.67 183 P 45 37.97 -2.2
 HYT 4.75 197 P 45 41.20 -0.3
 FBA 5.55 271 eP 45 51.00 -1.7
 BALM 5.57 222 (P) 45 52.36 -0.6
 KLU 6.37 237 eP 46 03.44 -0.8
 IMA 7.85 284 (P) 46 25.00 -0.1
 YKRI 9.14 99 Pn 46 39.10 -3.7
 Sn 48 15.00
 YKA 9.28 99 eP 46 43.00 -1.7
 0.4s 5.00nm 5.2mb
 MBC 11.95 18 P 47 17.00 -4.0
 0.6s 3.20nm 4.8mb
 11 obs. associated

% APR 19, 1993 04h 35m 45.10±2.55s
 44.226 N ± 26.2km 11.467 E ± 10.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

PGD 0.40 152 P 35 53.10 -0.2
 eSg 36 00.90
 SFI 0.41 138 P 35 53.50 0.0
 eSg 36 01.70
 BDI 0.65 256 Pc 35 58.10 0.0
 eSg 36 07.80
 CRE 0.69 149 P 35 59.10 0.2
 eSg 36 11.00
 ARV 1.29 124 P 36 09.00 0.0
 S.D. = 0.2 on 5 of 5 obs.

APR 19, 1993 04h 58m 47.05±0.51s
 36.355 N ± 4.6km 27.935 E ± 5.0km
 DEPTH = 37.1 ± 8.9 km
 4.2mb (17 obs.)
 DODECANESE ISLANDS (369)
 MD 4.3 (HLW), 4.2 (ATH), 4.0

(ISK).

ELL 1.64 76 iPn 59 18.20 4.2X
 IZM 2.11 345 iPn 59 19.00 -1.6
 NPS 2.18 241 eP 59 22.90 1.3
 eS 59 48.10
 KHL 2.34 32 iPn 59 25.00 1.0
 BCK 2.40 62 iPn 59 29.40 4.6X
 PRK 3.17 336 eP 59 34.30 -1.4
 ALT 3.20 32 ePn 59 39.10 2.9
 DST 3.29 9 iPn 59 36.80 -0.7
 ATH 3.74 297 eP 59 44.00 0.3
 PPCY 3.88 111 eP 59 48.60 2.8
 eS 00 32.20
 VLI 4.04 277 eP 59 48.40 0.3
 GPA 4.35 25 ePn 59 54.00 1.5
 YLV 4.35 15 ePn 59 52.00 -0.6
 CSS 4.61 106 ePd 59 58.10 2.0
 eS 00 49.90
 HRT 4.66 16 ePn 59 58.00 1.1
 CTT 4.80 4 ePn 59 59.00 0.1
 ITU 4.82 10 iPd 00 17.00 17.9X
 PAIG 4.90 318 ePn 00 24.00
 OUR 5.04 323 ePn 00 58.58 -1.6
 eSn 00 00.66
 FAM 5.12 104 eP 00 57.10 -1.6
 eS 00 07.00 3.6X
 eS 01 03.00
 RDO 5.14 339 eP 00 02.40 -1.2
 AGG 5.18 303 ePn 00 04.00 -0.3
 SOH 5.72 323 iPn 00 10.82 -1.0
 eSn 01 15.38
 THE 5.78 319 ePn 00 10.90 -1.7
 SRS 5.84 326 ePn 00 11.62 -1.9
 eSn 01 16.90
 KNT 6.21 322 iPn 00 17.61 -1.1
 KZN 6.25 311 eP 00 18.00 -1.3
 ADI 6.83 116 eP 00 28.00 0.5
 HLW 7.08 155 eP 00 32.50 1.6
 eS 01 50.00
 KOT 7.19 152 ePn 00 33.00 0.6
 SHWJ 7.40 117 P 00 34.60 -0.8
 JVI 7.57 124 eP 00 37.80 0.0
 SALJ 7.75 122 P 00 39.60 -0.7
 MASJ 7.94 123 P 00 42.00 -1.0
 LISJ 8.09 127 P 00 44.40 -0.5
 DHLJ 8.32 129 P 00 46.90 -1.3
 SHWJ 8.69 131 P 00 51.20 -2.2
 MBH 8.78 136 eP 00 53.80 -0.8
 MLR 9.25 351 eP 01 00.00 -1.1
 HQL 9.26 138 iPd 01 01.07 0.0
 iS 02 42.67
 HSHJ 9.33 136 P 01 01.50 -0.8
 VRI 9.55 355 eP 01 14.00 8.9X
 SRFA 9.60 138 ePd 01 05.33 -0.5
 BADA 9.83 141 ePd 01 07.67 -1.3
 AYN 10.09 135 ePd 01 12.33 -0.3
 VBY 13.23 318 eP 01 55.30 0.5
 TRI 14.18 316 eP 02 10.50 3.2X
 VOY 14.31 317 eP 02 11.90 2.9
 SFI 14.42 307 P 02 18.80 8.4X
 KBA 15.25 319 iPc 02 24.40 2.9
 1.1s 48.50nm 4.7mb
 i 02 27.60
 FVI 15.26 317 P 02 22.50 1.2
 CTI 15.59 313 P 02 28.50 2.7
 GEC2 16.26 325 ePn 02 35.10 0.8
 1.2s 4.27nm 3.4mb
 e 02 43.40
 e 02 46.80
 WTTA 16.29 317 iPc 02 38.20 3.5X
 0.9s 18.10nm 4.2mb
 WATA 16.36 317 iPc 02 37.70 2.0
 1.1s 55.00nm 4.6mb
 i 02 39.70
 KHC 16.52 325 eP 02 36.00 -1.5
 e 02 41.60
 e 02 47.40
 MOTA 16.63 317 iPc 02 40.00 1.0
 0.9s 16.10nm 4.2mb
 i 02 42.30
 PRU 16.73 329 P 02 43.50 3.4X
 VAI 17.25 309 P 02 47.60 1.0
 BRG 17.65 330 eP 02 55.10 3.5X
 CLL 18.37 329 iP 03 02.00 1.6
 1.3s 24.00nm 4.2mb
 LPG 18.39 306 eP 03 01.30 0.3

0.6s 4.80nm 3.8mb
 LPL 18.41 306 eP 03 01.50 0.3
 0.7s 8.50nm 4.0mb
 MOX 18.49 326 ePc 03 04.20 2.3
 1.3s 23.00nm 4.2mb
 e 03 16.50
 BSF 19.37 313 eP 03 08.00 -4.5X
 OBN 19.67 15 eP 03 14.00 -1.6
 HAU 19.71 313 eP 03 10.00 -6.2X
 0.7s 6.70nm 4.1mb
 SMF 20.69 307 eP 03 25.50 -0.9
 0.8s 8.85nm 4.2mb
 LBF 20.73 308 eP 03 26.00 -0.8
 LOR 20.91 309 eP 03 27.30 -1.4
 AVF 21.06 307 eP 03 29.80 -0.3
 1.0s 6.80nm 4.0mb
 SSF 21.06 308 eP 03 29.70 -0.4
 0.8s 14.25nm 4.4mb
 LPO 21.90 301 eP 03 41.80 3.2X
 MFF 23.28 305 eP 03 53.90 1.8
 LDF 23.89 310 eP 03 56.30 -1.7
 0.6s 5.75nm 4.3mb
 FLN 24.17 310 eP 03 59.50 -1.2
 GRR 24.28 309 eP 04 01.60 -0.2
 0.6s 9.75nm 4.5mb
 LPF 24.29 308 eP 04 01.70 -0.1
 KAF 25.80 358 iP 04 17.70 1.6
 0.6s 6.30nm 4.4mb
 BCAA 32.92 197 ePc 05 21.90 1.7
 0.2s 8.00nm 5.3mb X
 ic 05 26.30
 KIC 42.24 233 (P) 06 39.60 1.2
 MBC 65.77 352 eP 09 29.00 -0.9
 YKA 76.99 343 eP 10 35.70 -1.5
 0.9s 0.50nm 3.5mb
 S.D. = 1.4 on 70 of 83 obs.

* APR 19, 1993 05h 19m 50.71±0.97s
 44.345 N ± 23.7km 43.807 E ± 16.7km
 DEPTH = 33.0km (normal)
 4.0mb (5 obs.)
 NORTHWESTERN CAUCASUS (362)

OBN 11.72 339 eP 23 02.00 23.5X
 1.0s 17.00nm
 eS 24 47.00
 e 25 01.00
 NUR 19.83 331 eP 24 22.40 1.2
 KAF 20.53 336 iP 24 28.00 -0.5
 GEC2 21.10 293 ePn 24 34.90 0.3
 0.8s 1.20nm 3.3mb
 e 24 41.50
 HFS 23.98 322 eP 25 01.80 -0.9
 0.4s 1.90nm 4.0mb
 LPG 26.12 286 eP 25 26.20 2.7X
 0.8s 4.45nm 4.1mb
 LPL 26.13 286 eP 25 26.30 2.7X
 0.8s 4.85nm 4.2mb
 GKN 36.35 103 P 26 54.40 0.7
 DMN 36.92 103 P 26 58.20 -0.4
 KKN 36.93 102 P 26 58.00 -0.6
 PKN 37.16 103 P 27 00.20 -0.4
 GUN 37.28 102 P 27 02.40 0.7
 MBC 59.21 355 eP 29 51.00 0.7
 YKA 72.11 350 eP 31 12.30 -0.9
 0.7s 0.80nm 3.8mb
 S.D. = 0.8 on 11 of 14 obs.

* APR 19, 1993 05h 35m 57.62±1.32s
 11.159 N ± 12.6km 87.946 W ± 9.5km
 DEPTH = 60.2 ± 11.7 km
 4.5mb (9 obs.)
 NEAR COAST OF NICARAGUA (74)

YUP 3.52 329 eP 36 53.22 1.9
 IXG 3.87 321 eP 36 53.91 -2.2
 eS 37 38.33
 MRL 4.24 337 eP 37 02.10 0.8
 BVA 4.36 323 eP 37 01.46 -1.7
 RDG 4.55 328 eP 37 06.54 0.8
 OXX 10.35 306 (P) 38 25.50 -0.6
 IISM 11.98 312 (P) 38 47.00 -0.8
 PPM 12.96 309 (P) 39 03.00 1.6
 ILL 13.25 304 (P) 39 06.50 1.6
 SDV 17.20 96 eP 39 55.90 0.3
 TOV 17.90 93 ePc 40 02.00 -2.2
 ePP 40 04.90

19d 05h

GOGA 22.53 10 eP 40 53.79 0.4
0.8s 28.64nm 4.8mb
SGS 22.97 16 (P) 40 59.99 2.3
PRM 23.38 12 eP 41 01.95 0.2
UYO 23.66 346 iPd 41 05.50 1.1
JSC 23.81 14 eP 41 06.02 0.1
e 41 16.42
MIAR 23.84 348 eP 41 05.93 -0.2
0.9s 21.11nm 4.6mb
LHS 24.11 15 eP 41 07.17 -1.6
GBTN 24.63 7 eP 41 13.93 0.1
TKL 24.68 8 eP 41 14.55 0.2
WMOK 25.46 339 eP 41 20.02 -1.7
1.0s 19.67nm 4.6mb
CEH 25.90 17 eP 41 24.99 -0.7
0.8s 20.53nm 4.7mb
ACO 27.36 340 e(P) 41 38.50 -0.6
RSNY 35.22 17 (P) 42 48.20 0.1
1.0s 13.49nm 4.8mb
RSSD 35.66 340 eP 42 51.55 -0.5
0.5s 1.41nm 4.2mb
BW06 36.69 333 eP 42 59.60 -1.2
0.8s 3.23nm 4.3mb
SIV 37.88 135 eP 43 26.00 15.2X
BONR 38.08 320 (P) 43 13.52 0.9
ULM 39.52 352 eP 43 24.50 0.4
LMN 39.81 25 eP 43 28.50 2.0
LCCM 40.13 334 eP 43 30.10 0.7
ORV 41.04 319 (P) 43 36.07 -0.7
BAO 47.68 123 eP 44 31.90 1.4
i 44 37.00
PPD 48.78 133 (P) 44 39.00 0.2
YKA 54.72 345 eP 45 20.00 -2.9
1.0s 1.50nm 4.0mb
INK 64.28 343 eP 46 31.50 3.0X
1.0s 1.00nm 3.8mb
MBC 67.22 352 eP 46 37.00 -10.2X
HYB 148.63 25 ePKP 55 41.50 5.0X
GBA 151.44 31 PKP 55 48.00 7.2X
S.D. = 1.4 on 34 of 39 obs.

% APR 19, 1993 07h 04m 15.90±0.82s
39.607 N ± 7.7km 28.794 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).
DST 0.13 269 iPg 04 18.70 -0.4
iSg 04 21.70
KCT 0.72 332 iPg 04 30.20 0.1
eSg 04 41.60
BNT 1.01 318 iPn 04 34.40 -0.5
YLV 1.06 25 iPn 04 35.30 -0.6
GPA 1.35 59 ePn 04 41.00 0.3
HRT 1.39 29 ePn 04 41.40 0.1
EYL 1.42 47 iPn 04 41.40 -0.4
ISK 1.47 8 ePn 04 42.00 -0.4
CTT 1.56 350 iPn 04 45.40 1.6
IZM 1.70 225 ePn 04 46.00 0.2
S.D. = 0.7 on 10 of 10 obs.

% APR 19, 1993 07h 31m 52.41±1.37s
39.626 N ± 12.1km 28.824 E ± 5.8km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).
DST 0.15 262 iPg 31 55.70 0.1
iSg 31 56.70
KCT 0.72 330 ePg 32 07.10 0.3
eSg 32 18.40
BNT 1.01 317 iPg 32 12.40 0.5
iSg 32 26.40
YLV 1.03 24 iPg 32 11.80 -0.6
EDC 1.03 315 ePg 32 11.00 -1.4
GPA 1.32 59 ePn 32 18.00 0.7
HRT 1.36 28 ePn 32 17.90 -0.1
EYL 1.39 47 ePn 32 17.70 -0.8
CTT 1.55 349 iPn 32 21.90 1.2
S.D. = 0.9 on 9 of 9 obs.

? APR 19, 1993 07h 33m 08.84±2.00s
38.841 N ± 20.9km 28.588 E ± 19.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
IZM 1.13 247 ePg 33 30.00 0.0

eSg 33 42.60
BNT 1.60 341 ePn 33 37.40 0.2
YLV 1.83 19 iPn 33 40.10 -0.5
EYL 2.11 35 ePn 33 45.00 0.3
S.D. = 0.6 on 4 of 4 obs.

% APR 19, 1993 07h 37m 24.39±0.90s
39.120 N ± 8.3km 27.639 E ± 15.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.78 202 iPg 37 39.60 0.0
iSg 37 51.60
DST 0.91 57 iPg 37 41.70 -0.1
eSg 37 55.70
EDC 1.24 8 iPn 37 47.50 0.1
BNT 1.25 10 ePn 37 47.40 -0.3
KCT 1.26 26 ePn 37 48.00 0.3
S.D. = 0.3 on 5 of 5 obs.

% APR 19, 1993 08h 14m 19.04±1.29s
39.191 N ± 8.9km 27.382 E ± 19.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.80 187 iPg 14 34.60 0.0
iSg 14 47.10
DST 1.05 66 iPn 14 38.50 -0.4
EDC 1.21 18 ePn 14 42.00 0.4
BNT 1.24 19 ePn 14 40.90 -1.1
KCT 1.30 35 ePn 14 44.10 1.0
S.D. = 1.1 on 5 of 5 obs.

% APR 19, 1993 08h 19m 56.12s
40.482 N ± 8.9km 27.382 E ± 19.3km
DEPTH = 7.3km
OFF COAST OF NORTHERN CALIFORNIA(34)
<GM-P>. MD 3.0 (GM).

LBFM 3.28 73 eP 20 48.10 -1.0
S 21 26.31
ORV 3.63 103 eP 20 50.70 -3.1
ARN 4.72 130 eP 21 06.27 -3.2
3 obs. associated

? APR 19, 1993 09h 02m 08.53±1.06s
40.698 N ± 13.8km 21.620 E ± 7.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
FNA 0.20 295 ePg 02 13.00 0.0
eSg 02 16.80
LIT 0.89 132 ePg 02 25.80 0.1
eSg 02 40.76
KNT 1.07 64 ePb 02 29.08 0.3
SOH 1.32 84 ePb 02 32.56 -0.4
S.D. = 0.6 on 4 of 4 obs.

APR 19, 1993 09h 13m 33.62±0.43s
52.099 N ± 9.2km 169.622 W ± 5.4km
DEPTH = 33.0km (normal)
4.6mb (21 obs.) 4.5Msz (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.37 270 eP 14 38.79 -0.6
RSD 12.54 41 eP 16 31.90 -0.6
TTA 13.05 28 eP 16 38.07 -1.1
1.0s 3.61nm 4.4mb
CP2 13.21 39 eP 16 41.91 0.6
SLKM 13.62 44 eP 16 43.78 -2.9X
KLU 15.94 45 eP 17 12.87 -4.0X
JMA 16.14 24 (P) 17 19.71 0.2
0.9s 2.54nm 3.4mb X
FBA 17.03 33 eP 17 27.79 -2.7
0.4s 1.91nm 3.6mb
BALM 17.37 48 eP 17 31.39 -3.5X
INK 23.66 33 eP 18 42.50 0.1
0.6s 3.00nm 4.0mb
YKA 30.54 48 eP 19 45.20 -0.5
0.9s 3.10nm 4.1mb
MBC 30.84 21 eP 19 48.00 -0.2
MAT 39.53 268 eP 21 04.00 1.2
BW06 40.60 79 eP 21 11.14 -0.7
0.7s 1.60nm 3.9mb
FCC 41.23 50 ePc 21 19.80 3.3X

MSU 41.54 86 (P) 21 17.86 -1.8
SRU 42.19 84 eP 21 25.78 0.9
ULM 44.42 62 eP 21 45.00 2.4X
TUC 46.45 91 eP 21 58.67 -0.4
0.8s 2.79nm 4.3mb
FRB 49.29 35 eP 22 20.50 -0.1
DAG 50.07 8 iPd 22 26.00 -0.5
1.0s 19.00nm 5.1mb
JAO 52.50 48 eP 22 44.50 -0.7
BTO 53.92 292 eP 22 55.80 -0.2
TIY 54.44 288 eP 22 59.80 0.0
Z 20s 0.50um 4.6Msz
XAN 59.03 287 P 23 31.20 -1.3
1.0s 6.30nm 4.7mb
pP 23 36.50 17kmX
SDF 60.20 353 iP 23 38.70 -1.3
GTA 60.46 297 eP 23 40.00 -2.4
LZH 60.54 292 eP 23 42.50 -0.5
1.4s 33.00nm 5.3mb
Z 20s 0.30um 4.4Msz
CVL 61.81 64 eP 23 50.35 -1.0
LMN 63.09 49 eP 24 01.50 1.8
KAF 65.44 352 iP 24 13.80 -0.9
0.5s 8.60nm 5.1mb
GYA 65.84 282 iPd 24 17.20 -0.8
1.2s 16.00nm 5.0mb
NUR 67.16 352 iP 24 24.80 -0.9
0.4s 6.90nm 5.1mb
NB2 67.21 360 P 24 25.10 -1.0
0.8s 4.90nm 4.7mb
HFS 68.09 358 eP 24 30.10 -1.4
0.4s 3.90nm 4.9mb
KMI 69.18 284 Pd 24 38.50 -0.6
1.5s 30.00nm 5.1mb
GUN 76.71 298 P 25 23.60 0.1
KKN 77.13 299 P 25 25.60 -0.1
GKN 77.31 299 P 25 26.60 0.0
DMN 77.37 299 P 25 27.20 0.2
KHC 79.11 358 eP 25 37.00 1.1
LDF 79.29 7 eP 25 36.80 0.0
GEC2 79.39 358 eP 25 38.20 0.7
0.6s 1.11nm 4.0mb
e 25 40.80
e 25 48.70
e 25 50.70
GRR 79.43 8 eP 25 37.90 0.3
LPF 79.77 8 eP 25 40.30 0.9
CDF 79.83 2 eP 25 40.50 0.6
HAU 80.22 3 eP 25 42.40 0.6
0.5s 3.20nm 4.6mb
BSF 80.40 2 eP 25 43.40 0.5
SSF 81.04 5 eP 25 47.00 0.8
0.5s 3.05nm 4.6mb
LBF 81.14 4 eP 25 47.30 0.5
MFF 81.26 7 eP 25 48.10 0.7
AVF 81.31 5 eP 25 48.20 0.6
0.8s 6.70nm 4.7mb
SMF 81.48 5 eP 25 49.20 0.7
0.6s 6.30nm 4.8mb
BGF 81.51 5 eP 25 49.40 0.7
LSF 81.74 6 eP 25 50.50 0.7
TCF 81.74 6 eP 25 50.50 0.6
MAF 81.83 5 eP 25 51.20 0.9
VBY 82.69 357 ePc 25 55.50 0.7
LFF 82.98 7 eP 25 57.30 1.0
CAF 83.09 6 eP 25 58.00 1.1
LPO 83.27 7 eP 25 58.70 0.9
FRF 84.67 3 eP 26 06.00 1.1
LRG 84.76 3 eP 26 06.10 0.8
EPF 84.85 7 eP 26 06.30 0.4
LMR 84.89 3 eP 26 07.30 1.3
WRA 86.71 231 P 26 14.20 -1.0
0.8s 0.90nm 4.1mb
HYB 89.13 298 eP 26 26.50 -0.6
GBA 92.86 296 P 26 45.00 0.8
SLR 150.38 326 ePKP 33 22.00 4.5X
SEK 152.98 325 e(PKP) 33 17.50 -3.8X
BLF 154.20 327 ePKP 33 13.50 -9.4X
S.D. = 0.9 on 63 of 71 obs.

% APR 19, 1993 09h 46m 57.74±0.85s
39.629 N ± 7.7km 29.438 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).
DST 0.63 268 ePg 47 10.00 -0.4

ALT 0.78 137 ePg 47 13.00 0.1
 YLV 0.94 357 ePg 47 15.30 -0.4
 KCT 1.04 307 ePn 47 17.90 0.6
 EYL 1.09 30 ePn 47 18.30 0.1
 S.D. = 0.6 on 5 of 5 obs.

? APR 19, 1993 09h 53m 55.44±2.69s
 37.634 S ±32.6km 176.585 E ±21.5km
 DEPTH = 200.0km (geophysicist)
 NORTH ISLAND, NEW ZEALAND (159)

URZ 0.75 147 P 54 23.80 -0.1
 WHH 1.25 183 P 54 28.80 1.4
 PAHZ 1.28 163 P 54 28.60 1.0
 PUZ 1.39 109 P 54 26.00 -2.5
 NOZ 1.51 131 P 54 28.80 -0.7
 MOH 1.56 164 P 54 31.20 1.2
 NGZ 1.72 206 P 54 33.70 2.0
 CNZ 1.76 207 P 54 33.90 1.9
 TTH 1.91 174 eP 54 34.80 1.4
 WAHZ 2.07 185 P 54 35.90 0.8
 TEHZ 2.36 176 P 54 39.10 1.0
 PGZ 2.99 185 eP 54 45.50 0.2
 MNG 3.10 196 P 54 46.10 -0.6
 KIW 3.48 201 P 54 50.90 -0.4
 MTW 3.62 193 P 54 52.30 -0.7
 CAW 3.66 198 eP 54 52.60 -1.0
 DIW 3.78 212 eP 54 53.60 -1.4
 MRW 3.88 201 eP 54 55.30 -0.9
 MOW 3.92 195 eP 54 56.00 -0.8
 KHZ 5.32 205 P 55 12.50 -2.0
 S.D. = 1.4 on 20 of 20 obs.

% APR 19, 1993 11h 02m 08.83±0.88s
 39.256 N ±9.1km 28.062 E ±11.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

DST 0.56 51 iPg 02 19.40 -0.8
 KCT 1.02 13 iPg 02 28.30 0.2
 IZM 1.06 216 iPn 02 28.80 0.0
 BNT 1.10 354 ePn 02 29.30 -0.2
 YLV 1.65 37 ePn 02 38.20 0.2
 EYL 2.08 50 ePn 02 45.00 0.8
 S.D. = 0.7 on 6 of 6 obs.

? APR 19, 1993 12h 19m 30.54±1.86s
 31.922 S ±24.1km 69.538 W ±17.4km
 DEPTH = 120.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.27 16 iPd 19 47.40 -0.4
 RTCV 0.85 86 iPc 19 52.00 0.5
 RTLL 1.09 57 iPc 19 54.00 0.2
 CFA 1.15 75 ePd 19 55.00 0.5
 RTPR 3.06 59 e(P) 20 18.10 -0.1
 MRA 3.28 100 iPc 20 21.20 -0.1
 TCA 4.26 83 iP 20 33.90 -0.7
 S.D. = 0.5 on 7 of 7 obs.

APR 19, 1993 12h 58m 19.06±0.60s
 37.479 N ±8.0km 71.948 E ±9.4km
 DEPTH = 33.0km (normal)
 4.7mb (6 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE 8.37 211 eP 00 21.30 0.0
 GKN 14.25 128 P 01 41.40 0.8
 KKN 14.80 127 P 01 47.40 -0.5
 DMN 14.82 128 P 01 48.40 0.2
 PKI 15.03 127 P 01 51.00 -0.1
 0.4s 17.00nm 4.7mb

GUN 15.10 125 P 01 51.60 -0.4
 MBC 66.32 3 eP 09 06.00 0.1
 INK 72.82 10 eP 09 46.50 0.8
 FBA 73.32 17 eP 09 48.80 0.1
 YKA 80.23 3 eP 10 26.30 -1.0
 0.5s 1.10nm 4.1mb
 S.D. = 0.6 on 10 of 10 obs.

? APR 19, 1993 13h 02m 42.93±2.45s
 7.841 S ±33.9km 117.923 E ±12.9km
 DEPTH = 33.0km (normal)
 3.9mb (3 obs.)
 BALI SEA (278)

KHKI 2.35 257 ePc 03 20.00 0.0
 MEEK 18.71 178 eP 07 01.00 -0.1
 WB2 19.95 129 eP 07 14.50 -0.8
 WARB 20.04 157 eP 07 16.00 -0.2
 ASPA 21.96 138 iPc 07 36.90 1.1
 1.2s 11.90nm 4.2mb
 S.D. = 1.0 on 5 of 5 obs.

? APR 19, 1993 13h 11m 22.39±1.09s
 39.173 N ±8.5km 27.471 E ±17.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.79 192 iPg 11 37.80 0.0
 DST 1.00 64 ePn 11 41.30 0.0
 EDC 1.21 14 ePn 11 45.00 0.1
 BNT 1.23 16 ePn 11 45.20 -0.1
 S.D. = 0.1 on 4 of 4 obs.

? APR 19, 1993 13h 38m 12.69±1.08s
 41.148 N ±11.7km 28.784 E ±8.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

CTT 0.27 270 iPg 38 17.90 -0.4
 HRT 0.74 116 ePg 38 27.20 -0.1
 DMK 1.02 311 ePg 38 32.30 0.3
 EDC 1.06 221 ePg 38 33.00 0.3
 S.D. = 0.6 on 4 of 4 obs.

? APR 19, 1993 13h 58m 58.60±1.99s
 14.413 S ±21.9km 166.880 E ±23.7km
 DEPTH = 33.0km (normal)
 4.0mb (3 obs.)
 VANUATU ISLANDS (186)

BKM 3.49 158 iPc 59 53.00 1.1
 DZM 7.63 183 iPc 00 49.20 -1.1
 STK 28.92 229 iPc 04 57.00 0.1
 WB2 31.53 255 ePn 05 20.10 0.0
 WRA 31.54 255 P 05 21.10 0.9
 BCAO 147.28 255 ePKPd 18 38.10 -0.8
 0.8s 7.00nm
 S.D. = 1.1 on 6 of 6 obs.

APR 19, 1993 14h 01m 25.88±0.36s
 1.691 S ±4.9km 135.368 E ±9.5km
 DEPTH = 33.0km (normal)
 4.9mb (19 obs.) 4.3msz (1 obs.)
 IRIAN JAYA REGION, INDONESIA (196)

MTN 11.85 201 eP 04 14.20 -1.5
 KNA 15.41 205 eP 05 02.00 -0.6
 WB2 18.17 183 eP 05 33.80 -3.6X
 0.7s 71.00nm 5.0mb

ASPA 21.89 184 iPd 06 18.80 0.7
 BAW 0.5s 76.20nm 5.4mb
 BAG 23.17 321 eP 06 31.90 1.1
 WARB 25.76 198 iPc 06 56.70 1.2
 BRS 30.52 148 iP 07 39.00 0.5
 STK 30.60 170 eP 07 38.40 -0.7
 BWA 34.77 161 eP 08 16.60 1.1
 SSE 35.29 339 eP 08 19.00 -0.8
 CAN 35.78 161 eP 08 26.70 2.6X
 KMI 41.35 312 Pc 09 12.00 1.2
 1.8s 50.00nm 4.9mb

XAN 43.38 327 P 09 19.00 24kmX
 BJI 45.09 339 eP 09 40.00 -0.7
 CN2 46.15 350 eP 09 48.00 -1.1
 MDJ 46.39 354 eP 09 50.30 -0.6
 LZH 47.70 325 eP 10 03.00 1.3
 GTA 52.30 325 eP 10 37.50 0.7
 1.2s 10.00nm 4.7mb

GUN 55.88 306 P 11 03.40 -0.1
 PKI 56.13 305 P 11 04.60 -0.6
 KKN 56.32 305 P 11 06.20 -0.3
 DMN 56.39 305 P 11 06.80 -0.3
 GKN 56.92 305 P 11 10.60 -0.2
 HYB 59.09 291 eP 11 25.00 -0.9
 GBA 59.39 287 P 11 28.00 0.1
 WMO 62.16 323 eP 11 47.00 0.5
 1.0s 28.00nm 5.3mb

FBA 85.95 25 (P) 14 03.01 -0.7
 BALM 87.72 29 eP 14 13.10 0.5
 INK 91.97 22 eP 14 33.00 0.9
 MBC 95.25 13 eP 14 46.50 -0.6
 YKA 100.65 26 ePdiff 15 10.70 -1.1
 CNCB 150.52 130 PKP 21 19.10 7.2X
 LPB 150.60 129 PKP 21 15.00 3.1X
 S.D. = 0.9 on 29 of 33 obs.

& APR 19, 1993 14h 31m 05.78s
 59.233 N 152.615 W
 DEPTH = 69.1km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

AUE 0.41 288 iP 31 17.34 -0.5
 AUI 0.43 284 iP 31 17.31 -0.7
 AUH 0.44 288 eP 31 17.88 -0.4
 AUL 0.45 290 iP 31 17.68 -0.5
 AUW 0.46 288 eP 31 17.83 -0.5
 OPT 0.53 324 iP 31 18.23 -0.8
 SYI 0.64 169 iP 31 19.38 -0.7
 CNPM 0.76 67 iP 31 20.67 -0.9
 INE 0.86 345 eP 31 22.03 -0.9
 INW 0.88 343 eP 31 22.17 -0.9
 MCNL 0.89 268 iP 31 22.03 -1.0
 PDB 0.98 305 eP 31 23.41 -0.8
 BRK 1.03 58 eP 31 24.21 -0.7
 RS1 1.23 357 iP 31 26.90 -0.8
 RSO 1.24 357 iP 31 26.83 -0.9
 RS2 1.24 357 eP 31 26.94 -0.8

19d 14h

RDW	1.26	356	eS	31	44.36	
NCT	1.34	353	iP	31	28.14	0.1
			eS	31	28.37	-0.7
DFR	1.36	359	eP	31	46.38	
			eS	31	28.57	-0.8
			eS	31	46.80	
KDC	1.49	177	eP	31	29.72	-1.2
SLKM	1.76	42	eP	31	33.77	-0.9
SEW	1.83	60	eP	31	34.85	-0.7
SPU	1.98	8	iP	31	37.12	-0.6
CKT	1.99	6	eP	31	37.38	-0.5
BGL	2.04	3	eP	31	38.31	-0.3
CPAM	2.04	6	eP	31	38.61	-0.1
CRP	2.05	6	(P)	31	38.29	-0.6
MPA	2.07	51	eP	31	38.29	-0.6
SVW	2.41	323	(P)	31	41.81	-1.9
PTE	2.43	46	eP	31	42.96	-1.0
PMS	2.53	36	P	31	45.00	-0.4
SKT	2.81	11	eP	31	49.03	-0.2
HIN	3.30	67	eP	31	53.88	-2.3

33 obs. associated

& APR 19, 1993 15h 14m 20.13s
34.192 N 116.431 W
DEPTH = 1.3km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS). Felt.

PEC	0.68	244	ePd	14	32.94	-0.7
			S	14	41.18	
PLM	0.91	203	ePd	14	37.36	-0.9
SSK	1.05	271	eP	14	39.74	-1.1
			S	14	53.51	
GSC	1.15	345	ePd	14	41.81	-0.7
			e	15	07.70	
GLA	1.76	130	eP	14	49.61	-2.3
ISA	2.23	312	(Pn)	14	59.35	0.5
			ePg	15	01.09	
MEMM	4.02	330	(Pn)	15	24.34	0.2
			ePg	15	37.19	
BONR	4.05	339	(Pn)	15	25.07	0.2
			ePg	15	36.56	
ARUT	4.33	33	(P)	15	33.47	4.7

9 obs. associated

APR 19, 1993 15h 55m 30.56±0.31s
1.181 N ± 4.7km 122.615 E ± 7.7km
DEPTH = 23.8km (4 depth phases)
4.8mb (18 obs.) 4.5Msz (14 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	2.24	83	ePd	56	06.00	-0.9
CTB	6.18	15	ePd	57	04.00	1.2
			eS	58	15.00	
DAV	6.57	27	ePd	57	07.00	-1.2
	1.4s	1841.86nm			6.8mb X	
KKM	8.01	307	ePc	57	28.50	0.0
PLP	10.19	13	ePd	57	58.70	0.1
BAG	15.27	353	eP-	59	04.00	-2.5
BGP	15.27	353	eP	59	08.20	1.6
MTN	16.30	149	eP	59	22.00	2.4
CVP	16.44	357	ePc	59	26.80	5.4X
LEM	16.95	242	iPd	59	36.30	8.3X
QIZ	21.71	326	eP	00	30.00	7.9X
			S	04	18.00	
GZH	23.56	338	P	00	41.00	0.8
	Z 18s	1.21um			4.4Msz	
		S			04 58.00	
WB2	23.94	152	iPc	00	43.90	-0.1
	0.7s	59.30nm			5.2mb	
		ePp			03 09.90	
NANU	24.59	196	eP	00	50.00	-0.2
	0.4s	38.00nm			5.3mb	
GUMO	25.24	60	e(P)	01	07.50	11.0X
LAT	25.56	108	eP	01	00.00	0.5
ASPA	27.03	157	iPd	01	12.90	-0.1
	0.7s	17.90nm			4.8mb	
	Z 19s	1.30um			4.5Msz	
		iPp			01 40.20 128kmX	
WARB	27.48	172	eP	01	16.50	-0.6
	0.5s	6.00nm			4.5mb	
MEEK	27.92	188	eP	01	19.00	-2.2
	0.4s	7.00nm			4.7mb	
GYA	29.44	330	P	01	37.80	2.8
	Z 20s	0.75um			4.3Msz	
		S			06 32.00	
SSE	29.78	358	eP	01	52.00	14.3X

Z 21s	0.90um		4.4Msz		
	eS	06 28.00			
SSE	29.78 358	eP	01 42.00	4.3X	
Z 21s	0.90um		4.4Msz		
	eS	06 28.00			
WHN	30.24 346	eP	01 46.50	4.7X	
Z 20s	1.88um		4.7Msz		
N 17s	1.18um				
	S	06 45.00			
KMI	30.57 323	Pc	01 53.50	8.3X	
	2.0s	50.00nm		5.0mb	
Z 16s	0.80um		4.5MszX		
	sP	02 02.50			
MRWA	30.88 191	eP	01 45.60	-1.9	
NJ2	30.91 354	eP	01 46.00	-1.7	
Z 16s	0.52um		4.3MszX		
CTA	31.37 134	ePc	01 51.00	-0.9	
	1.2s	15.63nm		4.8mb	
BAL	32.11 190	eP	01 56.00	-2.3	
KLB	32.92 188	eP	02 03.00	-2.3	
CD2	34.55 331	eP	02 19.30	-0.2	
Z 18s	0.73um		4.5Msz		
N 14s	0.45um				
	pP	02 31.50	46kmX		
	eS	08 04.00			
XAN	35.11 340	P	02 29.50	5.2X	
	1.0s	4.50nm		4.3mb	
	pP	02 35.50	20km		
TIA	35.22 352	eP	02 30.60	5.4X	
E 25s	1.18um				
	eS	07 54.00			
STK	37.48 153	iPc	02 44.20	0.0	
	0.8s	14.70nm		4.9mb	
	i	05 10.50			
TIY	37.54 347	eP	02 45.70	0.9	
Z 19s	1.47um		4.8Msz		
N 18s	1.18um				
	S	08 35.50			
MAT	38.03 21	(P)	02 46.00	-2.8	
Z 20s	0.35um		4.2Msz		
	eS	08 43.00			
LZH	38.85 335	eP	03 03.00	7.1X	
	1.8s	60.00nm		5.0mb	
Z 20s	0.64um		4.4Msz		
E 18s	0.85um				
	pP	03 10.50	25km		
	PP	04 32.50			
	eS	08 55.00			
ADE	38.99 159	iPc	02 52.20	-4.8X	
BJI	39.12 352	eP	02 58.00	0.1	
	1.2s	13.00nm		4.5mb	
Z 24s	0.76um		4.4MszX		
	eS	03 12.00			
	eS	08 52.00			
CMS	39.25 148	eP	03 00.00	0.9	
	1.0s	14.00nm		4.6mb	
SNY	40.47 1	eP	03 14.00	5.0X	
Z 20s	0.85um		4.6Msz		
BRS	40.60 137	iPc	03 10.00	-0.4	
BTD	40.87 345	eP	03 20.00	7.6X	
	N 12s	0.24um			
E 13s	0.30um				
ARMA	41.85 141	iPd	03 21.90	1.3	
	1.0s	26.00nm		4.9mb	
BFD	42.40 156	iPd	03 25.20	0.3	
	1.0s	33.00nm		5.0mb	
CN2	42.51 3	eP	03 31.60	5.9X	
	1.0s	4.60nm		4.2mb	
Z 20s	0.61um		4.5Msz		
	ePp	03 40.50	30km		
BWA	42.90 148	iPc	03 31.10	2.0	
	iPP	03 57.10			
GTA	43.37 334	eP	03 33.00	0.1	
	1.5s	21.00nm		4.7mb	
Z 18s	0.86um		4.7Msz		
E 12s	0.31um				
	pP	03 39.00	20km		
MDJ	43.69 7	eP	03 35.00	-0.3	
CAN	43.89 148	iPc	03 37.80	0.7	
	ePP	04 04.00			
TOO	43.99 154	iPc	03 39.60	1.7	
GUN	44.06 310	P	03 39.60	0.6	
CNB	44.08 148	eP	03 39.30	0.6	
PKI	44.25 310	P	03 41.40	0.9	
KKN	44.46 310	P	03 42.60	0.5	
DMN	44.50 310	P	03 43.00	0.5	

GKN	45.06 310	P	03 47.40	0.6	
HYB	46.21 293	eP	03 56.00	0.1	
GBA	46.37 288	P	04 03.00	5.9X	
WMO	52.59 329	eP	04 45.20	0.4	
Z 18s	0.52um		4.6Msz		
IRK	53.17 346	eP	04 48.00	-0.8	
	1.6s	19.00nm		4.8mb	
Z 16s	0.38um		4.5MszX		
N 16s	0.38um				
	e	04 57.00			
	LR	25 06.00			
KSH	57.01 318	P	05 27.20	10.1X	
YAK	60.92 4	eP	05 42.00	-1.6	
BRW	85.88 19	eP	08 19.04	9.7X	
OBV	86.75 325	eP	08 13.00	-0.8	
	1.8s	108.00nm		5.8mb	
TCA	149.24 168	ePKP	15 09.30	-5.8X	
CNCB	161.29 147	PKP	15 33.00	1.3	
LPB	161.45 146	PKP	15 36.00	4.3X	
ZOBO	161.65 145	PKP	15 33.20	1.1	

S.D. = 1.3 on 48 of 68 obs.

APR 19, 1993 16h 14m 31.83±0.56s
43.404 N ± 3.9km 5.443 E ± 4.3km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (STR).

GELF	0.02 208	Pg	14 33.14	0.1	
BERF	0.20 117	Pg	14 36.66	0.6	
TREF	0.22 349	Pg	14 36.07	-0.3	
PUYF	0.23 56	Pg	14 36.30	-0.2	
PRAF	0.45 334	Pg	14 41.11	0.3	
VILF	0.49 24	Pg	14 41.49	-0.2	
TAVF	0.50 64	Pg	14 41.85	0.1	
GANF	0.68 30	Pg	14 45.61	0.1	
CALN	1.11 71	Pg	14 53.68	0.5	
REVF	1.44 76	Pg	14 59.40	0.8	
		Sg	15 19.27		
TOUF	1.44 64	Pn	14 59.27	0.4	
		Sg	15 19.87		
AURF	1.45 70	Pn	14 58.57	-0.3	
SBF	1.52 72	Pn	14 59.53	-0.2	
AUTN	1.56 67	Pn	15 00.35	-0.1	
		Sg	15 23.90		
SAOF	1.64 68	Pn	15 01.26	-0.2	
PGF	2.75 107	Pn	15 15.95	-1.5	

S.D. = 0.6 on 16 of 16 obs.

% APR 19, 1993 16h 15m 19.81±0.83s
26.336 S ± 6.5km 27.503 E ± 8.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY	0.59 183	eP	15 31.50	-0.1	
		S	15 37.00		
KSR	0.72 311	eP	15 34.00	-0.2	
		S	15 45.00		
BFS	0.85 229	eP	15 55.30	18.5X	
SLR	0.92 50	eP	15 58.20	0.2	
		S	15 50.50		
SEK	1.98 177	eP	15 53.60	-0.9	
		S	16 18.00		
SWZ	2.12 246	eP	15 56.20	-0.3	
		S	16 19.90		
BLF	3.00 203	eP	16 04.00	-5.0X	
FRS	3.91 209	eP	16 23.20	1.4	

S.D. = 1.0 on 6 of 8 obs.

APR 19, 1993 16h 32m 56.92±0.96s
37.679 S ± 7.0km 177.121 E ± 10.3km
DEPTH = 173.5 ± 8.6 km
3.9mb (2 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

URZ	0.58 181	P	33 20.80	-0.7	
		S	33 37.90		
TAZ	0.74 221	P	33 22.90	0.5	
UTU	0.89 236	P	33 24.20	0.8	
HBZ	0.94 86	Pc	33 21.90	-1.9	
PATZ	0.98 2				

19d 16h

				S	33	48.50	
WHH	1.30	202	P		33	27.50	0.6
MOH	1.45	179	P		33	29.20	1.0
KUZ	1.45	309	Pd		33	26.20	-2.0
				S	33	47.40	
MAHZ	1.62	159	P		33	30.90	1.0
TTH	1.87	187	P		33	34.00	1.5
NGZ	1.91	218	P		33	34.80	1.7
CNZ	1.96	219	P		33	35.40	1.8
MOZ	2.01	245	P		33	35.40	1.4
				S	34	04.70	
WAHZ	2.10	196	P		33	36.20	1.1
TEHZ	2.32	186	P		33	38.50	0.9
WCG	2.82	307	Pc		33	42.80	-0.8
PGZ	3.01	192	P		33	46.10	0.3
MNG	3.20	203	P		33	48.20	0.0
				S	34	26.70	
KIW	3.61	208	P		33	53.40	-0.1
MTW	3.70	199	P		33	53.60	-0.9
OZU	3.75	310	Pc		33	54.60	-0.6
CAW	3.78	204	P		33	54.80	-0.7
MOW	4.01	201	eP		33	57.40	-1.1
MRW	4.01	207	P		33	57.90	-0.6
				S	34	45.60	
WEL	4.04	206	P		33	59.00	0.2
QRZ	4.75	227	P		34	07.30	-0.9
THZ	5.22	217	eP		34	12.70	-1.6
				S	35	14.40	
KHZ	5.47	209	eP		34	15.10	-2.5
				eS	35	17.60	
DSZ	5.77	224	eP		34	20.70	-1.0
LTZ	6.31	215	eP		34	26.00	-2.7
				eS	35	36.60	
ODZ	8.82	219	eP		34	58.70	-3.2X
				eS	36	34.80	
WBZ	41.03	283	eP		40	26.10	1.5
	0.4s		4.60nm				4.4mb
WRA	41.04	283	P		40	27.20	2.5
	0.7s		0.90nm				3.5mb
S.D. = 1.3 on 36 of 37 obs.							
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?	APR	19,	1993	17h 02m	16.62±	2.93s	
				17.390 N ±	17.9km	101.095 W ±	23.4km
				DEPTH =	33.0km	(normal)	
NEAR COAST OF GUERRERO, MEXICO (58)							
ACX	1.29	113	iP		02	38.51	0.0
			iS		02	56.07	
III	1.83	57	iP		02	45.50	-1.0
			iS		03	14.43	
MRX	2.30	358	iP		02	52.97	0.0
			iS		03	24.00	
CRX	2.41	34	(P)		02	58.50	3.6X
UNM	2.65	43	(P)		03	03.00	4.8X
			(S)		03	34.00	
PPM	2.88	54	iP		03	02.12	0.4
			(S)		03	38.50	
IIA	2.90	53	(P)		03	02.11	0.6
CGX	3.21	316	(P)		03	18.00	11.9X
			(S)		03	49.00	
IISM	3.88	65	(P)		03	18.00	2.7X
			(S)		04	01.50	
OXX	4.19	94	(P)		03	26.50	6.5X
			(S)		04	20.00	
S.D. = 0.9 on 5 of 10 obs.							
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%	APR	19,	1993	17h 31m	17.25±	1.62s	
				60.376 N ±	6.4km	5.044 E ±	16.5km
				DEPTH =	10.0km	(geophysicist)	
SOUTHERN NORWAY (535)							
MD 1.7 (BER).							
ASK	0.13	35	iPc		31	19.93	-0.5
EGD	0.14	139	eP		31	20.41	-0.1
			iS		31	23.38	
BER	0.14	87	iPc		31	20.60	0.0
			iS		31	23.46	
ODD1	0.92	120	eP		31	34.97	0.1
			eS		31	48.70	
HYA	0.97	35	eP		31	36.11	0.4
			eS		31	50.41	
KMY	1.17	175	iPc		31	39.15	0.0
			eS		31	55.12	
NRA0	3.23	81	ePn		32	13.66	4.7X
			ePg		32	15.38	
			eLg		33	01.43	
S.D. = 0.4 on 6 of 7 obs.							

?	APR 19, 1993	17h	31m	26.54±	3.63s
	38.608 N ±33.5km			21.713 E ±	8.1km
	DEPTH = 10.0km			(geophysicist)	
	GREECE				(364)
AGG	0.63	49	ePg	31 39.64	0.3
			eSg	31 48.80	
IGT	1.42	311	ePb	31 52.36	0.0
			eSb	32 13.00	
LIT	1.61	22	ePb	31 55.12	0.1
			eSb	32 15.24	
PAIG	2.02	49	ePn	32 00.88	-0.1
			eSn	32 25.32	
FNA	2.19	353	ePn	32 03.60	0.1
			iSn	32 32.24	
SOH	2.55	29	ePn	32 08.68	0.1
			eSn	32 37.92	
KNT	2.71	19	iPn	32 10.92	0.0
			eSn	32 42.36	
SRS	2.89	29	ePn	32 12.84	-0.6
	S.D. = 0.3	on	8 of	8 obs.	
?	APR 19, 1993	17h	35m	36.61±	3.90s
	37.424 S ±13.1km			179.928 E ±	32.7km
	DEPTH = 29.3 ±		7.5 km		
	4.1mb (3 obs.)				
	OFF E. COAST OF N.			ISLAND, N.Z.	(160)
	ML 4.1 (WEL).				
HBZ	1.31	262	P	35 58.60	-0.3
PUZ	1.47	243	P	36 03.30	1.9
			S	36 20.00	
NOZ	1.91	231	eP	36 10.20	2.5
URZ	2.38	249	P	36 15.30	0.9
PAHZ	2.68	237	eP	36 19.80	1.1
TAZ	2.83	252	eP	36 21.50	0.8
PATZ	3.06	251	eP	36 24.90	0.8
WHH	3.07	241	eP	36 25.10	0.7
TTH	3.22	228	eP	36 28.50	2.1
KUZ	3.43	280	P	36 26.60	-2.8X
WLZ	3.47	261	eP	36 29.10	-0.8
TEHZ	3.54	223	P	36 31.50	0.6
WAHZ	3.61	230	P	36 32.60	0.7
NGZ	3.83	241	eP	36 35.20	0.1
CNZ	3.87	241	P	36 36.20	0.5
MOZ	4.19	254	P	36 40.10	0.0
PGZ	4.27	221	P	36 40.80	-0.5
BSZ	4.58	237	eP	36 46.20	0.6
MNG	4.71	226	eP	36 45.30	-2.2
WCZ	4.73	287	P	36 46.40	-1.3
MTW	5.07	221	eP	36 50.30	-2.3
CAW	5.27	224	eP	36 53.00	-2.4
MRW	5.55	225	eP	36 57.20	-2.2
Ouz	5.56	291	P	36 58.30	-1.3
QRZ	6.68	237	eP	37 11.60	-3.7X
KHZ	7.00	223	eP	37 17.20	-2.5X
			eS	38 27.70	
LTZ	7.94	225	eP	37 29.80	-3.2X
ASPA	41.55	276	eP	43 29.00	5.7X
	1.1s	6.00nm			4.2mb
WB2	43.16	281	eP	43 35.90	-0.5
	0.5s	2.60nm			4.2mb
WRA	43.17	281	P	43 39.50	3.0
	0.6s	0.60nm			3.5mb
	S.D. = 1.6	on	25 of	30 obs.	
	APR 19, 1993	17h	41m	43.62±	1.38s
	41.427 N ±11.6km			19.597 E ±	8.2km
	DEPTH = 10.0km			(geophysicist)	
	ALBANIA				(391)
	ML 2.5 (TIR), 2.4 (TTG).				
TIR	0.22	111	iPg	41 48.70	0.4
			iSg	41 53.50	
LACI	0.23	22	iPg	41 48.00	-0.5
			iSg	41 52.50	
ULC	0.60	334	iPg	41 54.42	-1.3
			iSg	42 03.25	
SDA	0.63	353	ePg	42 01.50	5.3X
PHP	0.68	68	ePg	41 55.80	-1.4
BDV	1.03	326	ePg	42 02.43	-0.7
			iSg	42 17.31	
TTG	1.03	346	iPg	42 03.02	-0.1
			iSg	42 17.71	
PVY	1.20	13	iPg	42 06.50	0.4
			iSg	42 24.21	

HCY	1.31	322	iPg	42	07.47	-0.3
			iSg	42	26.00	
NKY	1.45	342	iPg	42	10.40	0.4
			iSg	42	31.68	
IVA	1.46	9	iPg	42	11.33	1.2
			iSg	42	32.66	
BRY	1.67	332	iPd	42	13.51	0.4
			iSn	42	37.37	
PLE	1.91	356	iPd	42	17.92	1.3
			iSn	42	44.17	
S.D. = 1.0 on 12 of 13 obs.						
<hr/>						
? APR 19, 1993 17h 49m 14.41± 0.93s						
17.854 S ± 15.7km 166.230 E ± 9.5km						
DEPTH = 33.0km (normal)						
4.1mb (2 obs.)						
VANUATU ISLANDS (186)						
BKM	1.93	85	iPc	49	45.50	0.0
DZM	4.20	177	iPc	50	17.90	0.1
			iS	51	07.50	
BRS	15.62	230	iPd	53	02.90	9.0X
WB2	30.21	261	iPc	55	24.60	0.3
	0.5s	4.40nm				4.5mb
WRA	30.22	261	P	55	24.90	0.5
	0.7s	0.80nm				3.6mb
ASPA	30.73	254	iPd	55	28.20	-0.8
	0.3s	40.30nm				5.7mb X
S.D. = 0.7 on 5 of 6 obs.						
<hr/>						
& APR 19, 1993 17h 57m 19.41s						
35.029 N 116.986 W						
DEPTH = 3.8km						
CENTRAL CALIFORNIA (39)						
<PAS-P>. ML 3.2 (PAS). Felt at						
Borstow and Hinkley.						
SSK	1.00	216	iP	57	37.94	-1.2
			eS	57	51.95	
PEC	1.14	187	iPd	57	40.41	-1.0
			eS	57	56.40	
ISA	1.37	298	iPc	57	44.18	-1.2
			eS	58	03.86	
TPNV	2.01	17	(P)	57	56.06	1.4
GLA	2.66	137	(P)	58	00.68	-3.3
TNP	3.05	357	eP	58	04.40	-5.2
MEMM	3.07	330	(P)	58	06.34	-3.2
BONR	3.11	340	eP	58	11.29	0.9
ARUT	3.97	45	(P)	58	15.21	-7.4
MSU	5.20	47	(P)	58	42.99	2.9
10 obs. associated						
<hr/>						
% APR 19, 1993 18h 23m 52.99± 0.61s						
26.922 S ± 5.7km 26.772 E ± 6.6km						
DEPTH = 5.0km (geophysicist)						
REPUBLIC OF SOUTH AFRICA (584)						
ML 2.3 (PRE).						
BFS	0.03	26	iPc	23	54.10	-0.2
			S	23	54.90	
PRY	0.63	91	eP	24	05.50	0.0
			S	24	13.20	
KSR	1.06	6	eP	24	13.50	0.0
			S	24	24.00	
SWZ	1.32	258	eP	24	18.40	0.5
			S	24	37.40	
SEK	1.59	152	eP	24	23.00	1.0
			S	24	43.00	
SLR	1.80	49	iPc	24	25.00	0.0
			S	24	47.00	
BLF	2.24	193	e(P)	24	30.00	-1.4
FRS	3.09	204	eP	24	43.50	0.1
S.D. = 0.8 on 8 of 8 obs.						
<hr/>						
* APR 19, 1993 18h 34m 19.69± 0.75s						
6.846 N ± 9.7km 73.095 W ± 13.8km						
DEPTH = 161.7 ± 8.3 km						
4.4mb (1 obs.)						
NORTHERN COLOMBIA (99)						
BMG	0.22	5	iPd	34	42.00	-1.0
BOG	2.41	204	eP	35	02.00	0.9
			eS	35	33.00	
SDV	3.17	50	iPnd	35	11.50	1.1
			iSn	35	49.30	
TOV	4.38	48	ePn	35	27.00	1.0
			iSn	36	17.10	

19d 18h

CEOS 5.19 65 ePc 35 35.50 -1.2
 ZOBO 23.49 168 P 39 15.80 -0.9
 LPB 23.75 168 eP 39 19.00 0.0
 CNCB 24.04 168 P 39 21.00 -1.0
 SIV 25.62 152 P 39 47.80 11.8X
 BW06 48.08 324 eP 42 45.00 0.0
 YKA 63.25 340 eP 44 32.00 -0.8
 0.5s 2.50nm 4.4mb
 AIA 72.20 176 eP 45 30.20 1.9
 WB2 150.36 241 iPKPc 53 53.70 5.1X
 0.4s 4.20nm
 WRA 150.37 241 PKP 53 54.30 5.7X
 0.4s 1.00nm
 S.D. = 1.3 on 11 of 14 obs.

? APR 19, 1993 18h 40m 06.42±4.00s
 31.928 S ±17.0km 177.211 W ±47.8km
 DEPTH = 33.0km (normal)
 4.7mb (2 obs.)

KERMADEC ISLANDS REGION (177)

PUZ 7.17 210 eP 41 52.60 1.0
 NOZ 7.72 209 eP 42 03.30 4.0X
 URZ 7.84 215 eP 41 59.90 -1.1
 S 43 23.60
 OUZ 8.34 244 eP 42 08.20 0.2
 WB2 44.83 273 iPd 48 19.00 -0.4
 0.6s 10.30nm 4.9mb
 WRA 44.84 273 P 48 19.80 0.3
 0.6s 3.80nm 4.5mb
 S.D. = 1.1 on 5 of 6 obs.

% APR 19, 1993 18h 55m 26.34±1.71s
 43.674 N ±13.8km 11.850 E ±19.3km
 DEPTH = 5.0km (geophysicist)

CENTRAL ITALY (381)

CRE 0.09 122 Pc 55 28.00 -0.4
 eSg 55 29.30
 PGD 0.22 335 P 55 31.30 0.4
 eSg 55 36.50
 SFI 0.25 0 Pc 55 30.70 -0.6
 eSg 55 34.70
 ARV 0.81 102 P 55 43.10 0.5
 eSg 55 51.30
 ASS 0.84 135 P 55 42.80 -0.4
 eSg 55 56.20
 S.D. = 0.7 on 5 of 5 obs.

APR 19, 1993 21h 01m 48.94±0.10s
 4.015 N ±2.6km 128.204 E ±3.2km
 DEPTH = 23.6km (geophysicist)
 6.1mb (95 obs.) 6.7Msz (50 obs.)

NORTH OF HALMAHERA, INDONESIA (264)

Mw 6.8 (GS), 6.8 (HRV), Ms 6.8
 (BRK). Mo=2.8×10¹⁹ Nm (PPT).
 Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=190 Dip=73 Slip=126
 NP2: 302 39 27
 Principal Axes:
 T Plg=49 Azm=139
 P 20 254

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting with a large strike-
 slip component. The preferred
 fault plane is not determined.

RADIATED ENERGY

No. of sta: 9 Focal mech. F
 Energy 5.2±0.8×10¹⁴ Nm

MOMENT TENSOR SOLUTION

Dep 18 No. of sta: 15
 Moment Tensor: Scale 10¹⁹ Nm
 Mrr=0.44 Mtt=0.21
 Mff=-0.64 Mrt=-0.28
 Mrf=-1.15 Mtf=0.79

Principal axes:

T Vol=1.52 Plg=44 Azm=131
 N 0.02 34 360
 P -1.54 26 250

Best Double Couple:Mo=1.5×10¹⁹
 NP1:Strike=291 Dip=36 Slip=17
 NP2: 187 80 125

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 45S, *C M.W.: 39S, 79C

Centroid Location:

Origin Time 21:01:57.5 0.1

Lat 4.09N 0.01 Lon 128.37E 0.01

Dep 41.1 0.6 Half-duration 5.6

Moment Tensor: Scale 10¹⁹ Nm

Mrr=0.77 0.01 Mtt=0.48 0.01

Mff=-1.24 0.01 Mrt=-0.45 0.01

Mrf=-0.93 0.02 Mtf=0.59 0.01

Principal Axes:

T Vol=1.53 Plg=50 Azm=145

N 0.15 34 2

P -1.68 19 259

Best Double Couple:Mo=1.6×10¹⁹

NP1:Strike=308 Dip=40 Slip=29

NP2: 195 72 126

TNE 3.31 195 P 02 47.00 6.6X
 DAV 4.02 320 iP- 02 55.00 4.5X
 MNI 4.22 233 eP 03 00.00 6.6X
 CTB 5.09 309 ePd 03 16.00 10.3X
 AAI 7.65 180 P 03 47.00 5.2X
 0.3s 56.50nm 6.2mb

PLP 7.79 336 ePd 03 44.30 0.6
 TLE 10.61 155 P 04 21.50 -1.2
 BUN 10.96 226 P 04 28.00 0.5
 PPR 11.01 302 iPc 04 31.00 2.9X
 TANI 11.51 230 P 04 37.40 2.4
 PGP 11.84 323 eP 04 44.00 4.6X
 NINI 11.89 225 P 04 42.40 2.0

KKM 12.11 280 ePd 04 48.00 4.8X
 0.9s 680.50nm 6.9mb
 SLKI 12.31 165 P 04 48.50 2.7X
 TGY 12.32 325 ePd 04 50.00 4.0X
 MEN 13.82 118 P 05 10.20 4.4X
 e 08 10.00

YOM 14.01 118 P 05 10.80 2.5
 JAY 14.08 117 P 05 13.00 3.8X
 BCP 14.41 329 eP 05 16.80 3.1X
 BAG 14.42 329 eP- 05 12.00 -1.8
 e 07 52.00

CVP 14.97 336 eP 05 25.00 4.1X
 SZP 15.45 331 iPd 05 35.00 7.9X
 PIP 16.04 333 eP 05 40.00 5.2X
 MTN 17.00 170 eP 05 47.50 0.6
 e 08 55.00

KEDI 17.00 225 P 05 53.90 6.9X
 0.7s 27.00nm 4.5mb X
 BBP 17.42 340 ePc 05 53.00 0.9
 KHK 17.58 226 ePc 05 56.40 2.3
 eS 09 19.00

THRI 17.63 226 P 05 58.60 3.7X
 JEHI 17.67 227 P 05 58.40 3.1X
 RATI 17.88 225 P 06 01.20 3.2X
 RANI 18.11 227 P 06 04.40 3.5X
 INGI 18.22 226 P 06 06.60 4.4X
 KELL 18.30 228 P 06 06.60 3.5X

MNDI 18.44 123 eP 06 11.00 5.9X
 SRDI 18.73 228 P 06 10.90 2.5
 0.9s 34.00nm 4.5mb X
 GUMD 19.00 59 ePn 06 12.61 0.9
 1.4s 631.20nm 5.7mb

PJG 19.00 59 eP 06 12.90 1.2
 TT 26 09.00
 GUA 19.02 59 eP 06 13.10 1.2
 1.2s 725.00nm 5.8mb
 Z 19s 148.77um 4.4Msz X

KNA 19.65 178 iPc 06 19.90 0.7
 eS 09 58.00
 LAT 21.56 119 eP 06 40.30 1.4
 TATO 21.82 343 ePd 06 40.38 -1.1
 HKC 22.70 324 iP 06 51.70 1.4
 S 11 53.00

QZH 22.77 337 Pd 06 50.50 -0.4
 1.0s 690.00nm 6.1mb
 Z 20s 107.00um 6.3Msz
 N 20s 86.50um

P 07 05.00 62kmX
 S 10 54.00
 PMG 23.12 125 eP 06 54.00 -0.4
 LEM 23.20 242 ePc 06 56.50 1.1
 eS 10 58.50

QIZ 23.33 311 ePd 06 57.54 1.1
 eS 11 07.58

GZH 23.79 324 iPd 07 02.00 1.2
 1.2s 540.00nm 6.0mb
 N 20s 145.00um
 E 20s 62.80um

WRA 24.56 166 P 07 08.40 0.0
 0.6s 200.40nm 5.9mb
 WB2 24.56 166 eP 07 07.70 -0.7
 0.8s 3.30nm 4.0mb X

KGM 24.93 266 ePd 07 14.90 2.9X
 0.7s 672.90nm 6.4mb
 e 07 27.20
 e 08 05.50

RAB 25.29 109 iPc+ 07 16.00 0.6
 1.0s 1840.00nm 6.7mb
 iS 11 44.00

KLM 26.52 269 ePc 07 29.00 2.1
 IPM 27.11 272 ePc 07 32.90 0.6
 e 14 28.50
 SSE 27.74 347 ePd 07 37.88 0.1
 1.0s 200.00nm 5.8mb
 Z 20s 62.40um 6.2Msz
 N 16s 36.70um

ASPA 28.07 169 P 07 40.29 -0.6
 NANU 29.17 205 iPd 07 51.40 0.6
 NJ2 29.24 344 Pd 07 52.00 0.7
 1.2s 90.00nm 5.4mb
 Z 20s 31.40um 5.9Msz
 N 16s 31.70um
 E 15s 20.10um

WHN 29.45 335 Pc 07 54.50 1.3
 1.0s 760.00nm 6.4mb
 Z 20s 92.50um 6.4Msz
 N 20s 59.60um
 E 15s 39.50um

CTA 29.80 144 iPc+ 07 56.00 -0.5
 1.0s 280.00nm 6.0mb
 i 08 01.00
 i 08 07.00
 e 10 04.00
 e 10 42.00
 eS 12 33.00

CTAO 29.80 144 iPc 07 56.84 0.3
 WARB 30.06 183 eP 07 58.50 -0.2
 TKSJ 30.31 10 P 08 01.90 1.1
 GYA 30.38 319 iPd 08 02.00 0.2
 1.0s 140.00nm 5.7mb
 Z 20s 76.90um 6.3Msz
 N 20s 156.00um
 E 20s 151.00um

SHK 30.65 7 eP 08 14.00 46kmX
 ENH 31.54 328 eP 08 03.50 -0.3
 id 08 11.43 -0.3
 ePcP 11 02.33
 eS 13 14.44
 eSS 15 30.18

MEEK 31.85 196 eP 08 14.00 -0.5
 0.5s 226.00nm 6.3mb
 CHTO 32.15 300 Pd 08 20.03 2.8X
 eS 13 25.52

KMI 32.24 313 ePd 08 18.90 0.7
 1.5s 1330.00nm 6.6mb
 N 21s 166.00um
 E 21s 133.00um

PP 09 23.00
 eS 13 30.43
 eSS 15 46.17

TIA 33.63 344 P 08 28.90 -1.0
 Z 25s 67.80um 6.3Msz X
 sP 08 57.00
 S 13 47.00

MAJO 33.65 15 ePc 08 28.37 -1.7
 eS 13 43.81
 MAT 33.65 15 eP 08 28.00 -2.1
 1.5s 236.11nm 5.9mb
 eS 13 45.00

QLP 34.15 154 eP 08 33.00 -1.4
 HNR 34.34 113 eP- 08 36.00 -0.3

[illegible]

19d 21h

WAHZ	62.02	139	Pc	12 08.10	-1.8	PMO	85.15	105	iPd	14 27.10	2.1	Z	24s	29.00um	6.7MszX			
			e	14 58.70			1.6s	1283.60nm			6.9mb			eSP	16 04.00			
PAHZ	62.03	138	P	12 08.40	-1.6	TPT	85.41	105	iPd	14 28.50	2.1			eS	25 24.00			
MOZ	62.06	145	Pc	12 09.60	-0.4		1.9s	1771.50nm			7.0mb			LR	57 00.00			
HBZ	62.22	136	P	12 10.20	-1.0	VAH	85.43	106	iPd	14 28.30	1.9	GPA	93.44	311	eP	15 05.00	1.0	
MOW	62.27	142	P	12 08.60	-2.9		2.0s	1600.00nm			6.9mb		EYL	93.52	311	eP	15 04.00	-0.5
MTW	62.27	141	P	12 08.60	-2.9	RUV	85.66	105	iPd	14 29.60	2.0	KOT	93.53	300	eP	15 04.50	-0.1	
BLW	62.37	141	P	12 08.80	-3.4X		1.4s	878.30nm			6.8mb		BCK	93.62	308	eP	15 03.00	-1.9
PGZ	62.46	140	P	12 10.40	-2.3	BALM	86.25	29	eP	14 31.00	1.1	ALT	93.77	309	eP	15 04.00	-1.6	
TEHZ	62.47	139	P	12 11.00	-1.8	OBN	87.66	325	iPc+	14 35.80	-0.8	HRT	93.85	311	iP	15 06.00	0.1	
NOZ	62.56	138	P	12 11.20	-2.2		1.0s	434.00nm			6.7mb		HLW	93.96	300	eP	15 08.00	1.4
MAHZ	62.75	138	P	12 14.80	0.1		Z 24s	70.00um			7.0MszX				e(S)	25 40.00		
QUE	63.24	302	iPd-	12 18.40	0.0		N 24s	21.00um				SPA	93.98	180	iPd	15 06.90	0.8	
	1.0s	377.50nm			6.5mb		E 24s	55.00um					0.7s	398.44nm		6.9mb		
		eS		20 47.60				i	14 52.00			YLV	94.11	311	eP	15 05.00	-2.1	
MCO	63.67	161	eP	12 21.50	1.1			i	15 03.00			ELL	94.25	307	eP	15 07.30	-0.7	
ADK	65.90	34	eP	12 35.00	0.0			i	15 16.00			ISK	94.26	312	iP	15 06.50	-1.2	
	1.3s	574.20nm			6.6mb			i	15 28.00			ITU	94.29	312	iPc	15 00.00	-7.8X	
TIK	67.53	0	ePc	12 42.00	-3.0			i	15 34.00			KHL	94.33	309	iP	15 08.30	0.1	
		iS		21 30.00				e	17 00.00			PPE	94.43	317	eP	15 17.00	8.6X	
MAIO	70.51	307	iPd	13 04.30	0.1			ePP	18 00.00			CTT	94.72	312	eP	15 08.00	-1.9	
	1.9s	607.29nm			6.4mb			ePPP	20 10.00			BRD	94.95	316	eP	15 13.00	2.2	
		eSn		22 19.00				iSKS	24 58.00			VR1	95.10	317	ePc	15 15.00	3.5X	
DRV	71.02	175	iP	13 07.50	1.0			iS	25 09.00			VR1	95.10	317	ePc	15 11.00	-0.5	
		SS		15 46.00				iSKKS	25 23.00			BNT	95.23	311	eP	15 11.00	-1.2	
		P		22 30.00				iPS	26 18.00			EDC	95.28	311	eP	15 11.50	-0.9	
CSY	71.29	187	eP	13 08.40	0.3			iPPS	26 58.00			ISR	95.37	316	ePc	15 13.50	0.7	
	0.7s	273.40nm			6.5mb			eSS	30 44.00			CVO	95.49	317	ePd	15 13.50	0.1	
PAF	72.95	215	iPc	13 26.00	7.7X			iSSS	34 36.00			CIN	95.56	308	iPd	15 14.00	0.2	
		ePP		16 06.00				iSSS	37 40.00			MOR7	95.57	338	eP	15 11.16	-2.2	
		iS		22 46.00		GAZ	88.39	307	iP	14 41.80	1.2	MLR	95.71	316	ePc	15 13.50	-1.0	
		iSS		27 19.00		AAE	88.82	279	eP	14 45.50	2.0	BUC	95.82	315	ePd	15 13.00	-1.8	
		eSSS		31 10.00				S	25 16.00			BUC1	95.88	315	ePc	15 12.00	-3.1X	
ILT	73.08	18	iPc	13 18.20	-0.6	KVT	89.02	311	iP	14 35.00	-8.6X	I2M	96.07	309	iP	15 16.00	-0.2	
		iS		22 38.00		BNN	89.33	309	eP	14 46.00	0.8	CMP	96.38	316	ePc	15 17.00	-0.4	
KIP	73.45	69	Pc	13 24.09	2.3	INK	89.36	22	eP	14 44.50	-0.1	ALN	96.54	312	iP	15 17.10	-1.0	
		iS		22 53.70			1.3s	184.00nm			6.2mb	PRK	96.68	310	eP	15 18.50	-0.3	
HON	73.46	69	P	13 24.00	2.2	WAJH	89.72	296	ePd	14 46.30	-0.8	UPP	96.71	332	iP	15 17.10	-1.4	
	Z 21s	39.28um			6.7Msz	HRI	89.88	303	eP	14 47.50	-0.4			i	15 32.60			
		S		23 04.37		BHL	89.90	304	P	14 47.00	-0.9			iPP	19 13.20			
MHA	75.39	70	P	13 34.00	1.0			PP	18 01.00					iS	25 49.00			
SDN	76.12	34	eP	13 36.10	-0.4			S	25 06.00			TNR	96.83	317	ePd	15 19.00	-0.4	
TEH	76.97	306	e(P)	13 38.00	-3.9X	SHMJ	89.91	303	P	14 48.40	0.5	RDO	96.87	312	eP	15 19.40	-0.2	
DHR	77.53	296	iPd	13 44.20	-0.7	AYN	90.01	299	ePd	14 47.90	-0.5	BMR	96.89	319	ePd	15 21.00	1.4	
		iS		23 29.00		MASJ	90.03	302	P	14 47.80	-0.7	DAG	97.18	353	eP	15 17.60	-2.8	
SVW	79.83	29	eP	13 58.90	2.0	SALJ	90.03	302	P	14 49.10	0.5		1.1s	93.67nm		6.2mb		
TTA	79.98	27	eP	13 57.60	-0.1	SIM	90.09	315	eP	14 50.00	1.6	WAR	97.26	324	e(P)	15 25.00	3.9X	
KER	80.40	304	eP	14 01.00	0.4			eS	25 38.00			Z 20s	70.00um		7.1Msz			
RYD	80.70	294	iPd	14 02.20	-0.1	KEY	90.13	340	iP	14 48.00	-0.1		N 20s	36.00um				
		iS		24 04.00			0.9s	69.30nm			5.9mb	E 22s	59.00um					
KDC	80.91	32	eP	14 04.10	1.6		Z 24s	19.60um			6.5MszX			e	16 18.00			
RSO	81.12	29	eP	14 04.15	0.2			e	15 48.00					e	19 35.00			
TAB	81.14	308	iPd	14 07.00	2.5			ePP	18 40.00					e	25 52.00			
BRW	81.44	18	eP	14 05.40	0.3			eS	25 32.00			NSS	97.35	337	eP	15 19.02	-2.3	
IMA	81.53	24	eP	14 06.20	0.3			eSS	31 56.00			DEV	97.71	317	ePc	15 30.00	6.7X	
AVY	82.31	250	iPd	14 12.30	1.4			e	38 28.00			NPS	97.93	306	eP	15 25.40	0.8	
SLKM	82.37	30	eP	14 09.04	-1.2			LR	59 20.00			OUR	98.19	312	eP	15 24.50	-1.1	
VTY	82.50	250	iPd	14 13.10	1.3	SIT	90.18	33	P	14 50.00	1.4	SRS	98.31	312	eP	15 24.54	-1.6	
ABM	82.76	250	iPd	14 14.40	1.2		Z 21s	13.85um			6.4Msz	HFS	98.45	333	eP	15 24.00	-2.3	
PMS	82.76	29	eP	14 12.10	-0.1			S	25 51.59				0.5s	16.80nm		5.8mb		
OPO	82.93	251	iPd	14 14.60	0.5	SHWJ	90.32	300	P	14 49.00	-1.1		Z 20s	20.88um		6.6Msz		
PMR	82.99	29	eP	14 12.69	-0.6	NAQJ	90.35	300	P	14 51.00	0.8			LR	56 00.00			
	1.2s	1265.15nm			6.9mb	BZK	90.46	312	eP	14 51.00	0.8	PAIG	98.51	311	iP	15 24.53	-2.5	
	Z 18s	12.44um			6.3Msz	PUL	90.53	330	ePd	14 50.00	-0.1	SOH	98.55	312	eP	15 25.78	-1.5	
		iPP		14 28.50	56kmX			eS	25 13.00			OJC	98.57	322	iPc	15 27.10	0.0	
		S		24 30.60		ZNT	90.56	302	eP	14 50.60	-0.3		1.0s	57.00nm		6.1mb		
QASM	83.47	296	ePd	14 16.00	-0.6	KAS	90.70	311	iPd	14 51.70	0.2			i	15 33.50			
CRZF	83.53	223	iPc	14 24.00	7.6X	SRFA	90.72	299	ePd	14 52.30	0.7			i	15 42.50			
		ePP		17 45.00		SDF	90.84	338	iP	14 49.80	-1.7			i	15 51.50			
		iS		24 42.00		KBS	90.99	350	eP	14 54.00	2.0	SPC	98.59	321	eP	15 26.80	-0.7	
		eSS		30 06.00		SAGI	91.06	300	eP	14 52.80	-0.5	YKA	98.63	25	eP	15 27.70	0.6	
AFR	83.61	108	iPd	14 19.10	1.8	MBC	91.35	13	eP	14 53.00	-0.7		0.8s	35.10nm		6.0mb		
	0.8s	413.70nm			6.7mb		0.9s	47.00nm			5.9mb	BZS	98.65	317	eP	15 25.50	-2.0	
PPT	83.80	108	iPd	14 20.10	1.8			pP	15 21.50	108kmX		KNT	98.81	313	eP	15 25.62	-2.8	
	1.1s	482.50nm			6.6mb	NAI	91.48	269	ePd	14 59.00	3.2X	THE	98.88	312	eP	15 27.10	-1.6	
PAE	83.81	108	iPd	14 20.10	1.8		1.0s	2390.00nm			7.5mb X	ATH	98.89	309	eP	15 36.00	7.2X	
	1.8s	1191.20nm			6.8mb		Z 24s	11.51um			6.2MszX	PGC	98.98	40	eP	15 30.50	1.5	
FBA	83.84	25	eP	14 18.20	0.6			SKS	25 28.00				1.0s	46.00nm		6.0mb		
PPN	83.94	108	iPd	14 20.80	1.8			SKKS	25 50.00			BFT	99.08	245	eP	15 29.50	-0.6	
	1.9s	1811.80nm			7.0mb			eSS	31 52.00			NB2	99.18	334	P	15 27.00	-2.7	
TVO	84.13	108	iPd	14 22.00	1.9			iLO	41 34.00				0.9s	58.20nm		6.1mb		
	1.5s	1897.00nm			7.1mb	CSS	91.71	305	eP	14 56.10	-0.1	GRG	99.23	312	eP	15 28.62	-1.7	
SBA	84.42	172	ePc	14 21.50	1.2	KAF	92.02	333	iP	14 55.00	-2.0	LIT	99.36	312	eP	15 29.22	-1.7	
ABHA	84.45	288	ePd	14 23.00	1.1		0.8s	80.60nm			6.2mb	NAO	99.45	334	P	15 28.29	-2.6	
MAW	84.53	200	eP	14 22.00	1.0	TRO	92.87	341	eP	14 59.50	-1.3	AGG	99.73	311	eP	15 30.70	-2.0	
	1.0s	241.67nm			6.4mb	NUR	93.17	331	iP	14 59.70	-2.5	VLI	99.77	308	eP	15 33.50	0.6	
ARO	84.67	281	iPd	14 26.00	3.2X		0.9s	60.70nm			6.0mb	KZN	99.85	312	eP	15 31.50	-1.8	

MOL	100.02	336	ePdiff15	32.73	-0.6
SRO	100.22	320	ePdiff15	35.00	0.4
			e	19 24.80	
			i	19 40.50	
COR	100.22	44	ePdiff15	35.92	1.2
			eSKS	26 16.03	
			iSDIF	27 07.18	
			iSP	28 38.06	
BUL	100.37	250	iPdiff15	35.90	-0.2
			i	15 43.40	
			i	19 40.40	
			iS	28 36.00	
UZD	100.41	319	ePdiff15	35.00	-0.5
PHP	100.48	313	ePdiff15	34.00	-2.0
KBN	100.50	312	ePdiff15	33.80	-2.4
KSP	100.50	323	ePdiff15	34.60	-1.2
	0.9s	49.00nm			6.0mb
			i	15 36.20	
			i	15 50.80	
			e	18 59.00	
			e	28 30.30	
KONO	100.52	333	ePdiff15	35.30	-0.4
KONO	100.52	333	Pdiffc15	38.54	2.8X
			ePP	19 50.66	
			iSKS	26 05.78	
			iSDIF	27 02.63	
			iSP	28 32.44	
LON	100.60	41	Pdiff+15	43.86	7.4X
SLR	100.66	245	ePdiff15	35.10	-2.3
	1.0s	140.00nm			6.4mb
Z	20s	39.30um			6.9MsZ
			i	19 44.10	
LSZ	100.70	255	iPdiff15	32.80	-4.9X
			i	19 42.00	
VRAC	100.83	322	iPdiff15	38.00	0.7
	1.2s	176.00nm			6.5mb
			i(pP)	15 48.40	
			i(PP)	19 46.80	
			e	26 12.20	
COP	100.85	329	iPdiff15	36.00	-1.2
Z	20s	304.96um			7.8MsZ
ZST	100.87	321	ePdiff15	36.20	-1.3
			i	16 05.20	
			e	18 46.70	
			e	19 30.70	
			e	40 01.80	
TIR	100.98	313	ePdiff15	38.00	-0.2
LACI	101.02	314	ePdiff15	37.50	-0.8
SDA	101.06	314	ePdiff15	37.80	-0.7
IGT	101.11	311	ePdiff15	37.50	-1.3
TPE	101.15	312	ePdiff15	42.50	3.5X
SEK	101.20	242	ePdiff15	40.00	0.3
	1.0s	20.00nm			5.6mb
VKA	101.34	321	ePdiff15	39.00	-0.7
	5.0s	4104.00nm			7.3mb X
Z	20s	11.90um			6.4MsZ
			i	19 55.60	
			i	20 04.60	
			i	20 33.20	
PRY	101.37	243	ePdiff15	37.00	-3.5X
	1.0s	80.00nm			6.2mb
BRNL	101.64	325	ePdiff15	44.00	3.2X
PRU	101.85	323	Pdiffd15	41.90	0.1
	1.1s	22.30nm			5.7mb
Z	20s	34.40um			6.9MsZ
N	20s	10.00um			
E	22s	29.30um			
			e	15 51.80	
			e	16 37.20	
			ePP	19 53.20	
			SKS	26 16.00	
			eS	27 27.00	
			e	28 41.50	
			eSS	34 32.00	
WDC	101.86	47	ePdiff15	40.01	-2.1
Z	20s	36.13um			6.9MsZ
			ePP	19 18.10	
			eSKP	23 41.35	
			eSKS	26 29.01	
			eSDIF	27 15.01	
			eSP	29 04.01	
			eSS	34 26.01	
			eSSS	38 07.01	
			eRScS	41 34.01	
			eLO	43 32.01	
			eLR	48 04.01	
WDC	101.86	47	Pdiff+15	45.77	3.6X

Z	21s		40.64um			6.9MsZ
BRG	101.88	324	iPdiff15	42.40		0.4
	1.1s		52.00nm			6.1mb
Z	20s		40.00um			6.9MsZ
N	20s		16.00um			
E	20s		39.00um			
			i	15	57.60	
			eSKS	26	12.00	
			ePKKP	31	49.20	
			e	32	15.60	
KSR	101.91	245	ePdiff15	53.50		10.6X
	1.5s		140.00nm			
			i	18	46.00	
MUD	102.18	330	iPdiff15	43.60		0.5
	0.6s		13.00nm			5.8mb
CLL	102.27	324	iPdiff15	43.80		0.1
	1.4s		45.00nm			5.9mb
Z	22s		31.00um			6.8MsZ
			eSKS	26	17.00	
NVL	102.27	198	ePdiff15	50.00		6.8X
PTJ	102.35	319	ePdiff15	44.60		0.3
ZAG	102.36	318	ePdiff15	44.60		0.4
BLF	102.44	241	ePdiff15	46.00		0.8
MIN	102.61	47	ePdiff15	28.97		-16.7X
Z	20s		17.03um			6.6MsZ
			ePP	19	52.97	
			ePKKP	20	15.97	
			eSKS	25	51.97	
			eSDIF	27	20.97	
			eSP	29	13.97	
			eSS	34	33.97	
			eSSS	38	14.97	
			eLQ	44	01.97	
			eLR	48	15.97	
KHC	102.74	322	Pdiff	15	46.50	0.6
	1.1s		10.50nm			5.5mb
Z	22s		33.00um			6.8MsZ
N	22s		17.10um			
E	22s		27.60um			
			e	16	01.50	
			e	19	25.50	
			ePP	20	00.00	
			e	20	07.00	
			SKS	26	20.00	
GEC2	102.77	322	ePdiff15	45.20		-0.9
	0.8s		8.51nm			5.5mb
			e	15	49.60	
			e	15	51.20	
			e	15	54.60	
			e	15	57.20	
			e	16	01.60	
			e	16	07.00	
			e	16	11.10	
			e	16	15.10	
			e	16	21.80	
			e	16	26.20	
GEC2	102.77	322	e(Pdif16	01.60		15.5X
	0.9s		12.60nm			
GEC2	102.77	322	e(Pdif15	52.00		5.9X
	0.7s		3.60nm			5.2mb
KMR	102.79	321	iPdiff15	47.40		1.3
			i	18	58.90	
			iPP	20	06.30	
BKS	102.81	50	ePdiff15	33.09		-13.4X
Z	20s		23.91um			6.7MsZ
			eSKS	26	35.09	
			eSDIF	27	25.09	
			eSP	29	18.09	
			eSS	34	43.09	
			eSSS	38	27.09	
			eLQ	43	50.09	
			eLR	48	12.09	
ORV	102.91	48	ePdiff15	46.79		-0.1
VBY	102.95	318	ePdiff15	47.30		0.5
			iPP	20	04.20	
NEW	103.09	39	ePdiff15	47.50		0.0
	1.0s		55.00nm			6.2mb
			e	16	13.00	
FRS	103.16	241	ePdiff15	48.00		-0.2
WET	103.16	322	iPdiff15	48.60		0.8
	1.3s		31.00nm			5.9mb
Z	23s		39.00um			6.9MsZ
LJU	103.24	319	ePdiff15	48.50		0.3
			e	19	17.00	

HOF	103.31	324	iPdiff15	49.20	0.8
	1.0s	26.00nm			5.9mb
MOX	103.33	324	ePdiff15	49.00	0.5
	1.4s	35.00nm			5.9mb
Z	22s	27.00um			6.7Msz
		eSKS	26	25.00	
MHC	103.41	50	ePdiff15	42.74	-6.6X
Z	20s	27.32um			6.8Msz
		eSKS	26	27.14	
		eSDIF	27	32.14	
		eSP	29	16.14	
		eSS	34	48.14	
		eSSS	38	44.14	
		eLQ	44	11.14	
		eLR	48	30.14	
CEY	103.42	319	ePdiff15	48.60	-0.4
		e	19	30.00	
		ePP	20	07.00	
RIY	103.58	318	ePdiff15	48.50	-1.1
KBA	103.64	320	iPdiff15	47.40	-2.7
	1.2s	18.70nm			5.8mb
		i	15	49.30	
		i	16	11.60	
		i	16	27.40	
		i	19	04.70	
VOY	103.66	319	iPdiff15	49.50	-0.7
		ePP	20	08.40	
		e(SKS)	26	26.40	
BHG	103.70	321	iPdiff15	50.50	0.3
SAO	103.72	51	ePdiff15	47.93	-2.6
Z	20s	22.45um			6.7Msz
		eSKS	26	35.93	
		eSDIF	27	36.93	
		eSP	29	23.93	
		eSS	34	32.93	
		eSSS	38	32.93	
		eLQ	44	12.93	
		eLR	48	39.93	
SAO	103.72	51	Pdiff+15	55.55	5.0X
Z	18s	22.60um			6.7Msz
RBL	103.73	320	Pdiff	15	49.50
TRI	103.86	319	e(Pdiff15	50.20	-0.7
GRF	103.95	323	iPdiff15	52.00	0.8
	1.3s	40.00nm			6.1mb
Z	21s	44.00um			7.0Msz
		ePP	20	11.00	
TDS	104.04	312	Pdiff	15	52.80
CMB	104.18	49	ePdiff15	50.86	-1.7
		ed	16	04.52	
		eHPP	20	16.60	
		ePP	20	17.10	
		eSKS	26	31.72	
		i	26	50.59	
		iSDIF	27	38.18	
		iSP	29	25.54	
CMB	104.18	49	Pdiff+15	54.68	2.1
Z	19s	20.80um			6.7Msz
		PP	20	16.58	
		SP	29	20.63	
		e	38	40.63	
FVI	104.18	320	Pdiff	15	50.40
FUR	104.52	322	ePdiff15	54.20	0.4
Z	22s	24.00um			6.7Msz
WTTA	104.65	321	iPdiff15	54.20	-0.4
	0.9s	24.50nm			6.1mb
		i	16	01.00	
		i	16	09.70	
		i	19	46.70	
		iPP	20	11.70	
		i	26	24.70	
		i	29	06.10	
WATA	104.66	321	iPdiff15	54.50	-0.1
SQTA	104.94	321	iPdiff15	55.40	-0.4
	0.9s	17.70nm			6.0mb
		iPP	20	12.40	
MOTA	104.95	321	iPdiff15	54.80	-1.2
	1.0s	20.50nm			6.0mb
		iPP	20	12.20	
CTI	105.11	320	Pdiff	15	56.40
OGA	105.19	321	iPdiff15	57.30	0.2
SDI	105.21	315	Pdiff	15	56.60
SBC	105.71	53	ePdiff15	59.75	0.4
BNS	105.74	326	iPdiff16	07.50	8.4X
Z	22s	84.40um			7.2MszX
		i	20	35.00	
		e	29	30.00	
OSS	10				

* APR 19. 1993 21h 08m 06.26 \pm 1.95s
22.594 S \pm 15.1km 69.114 W \pm 20.2km

DEPTH = 171.6 ± 13.2 km NORTHERN CHILE (123)					
YJA	3.37	83	ePc	08 59.00	-1.1
			S	09 38.50	
HJA	3.48	101	iPc	09 00.70	-0.3
SLA	3.94	123	ePc	09 08.10	1.0
CNCB	5.85	11	iPc	09 33.20	0.6
CCH	5.89	29	P	09 34.00	1.1
LPB	6.11	9	P	09 36.00	0.2
	1.0s	220.00nm		5.4mb	
ZOBO	6.36	9	P	09 39.20	-0.1
ARE	6.50	339	eP	09 40.00	-0.9
			iS	10 47.00	
RTCV	9.24	177	ePd	10 47.70	30.7X
SIV	10.04	51	P	10 35.60	8.2X
PPD	16.49	91	eP	11 48.40	-0.8
			e	11 51.80	
VAO	20.42	95	eP	12 32.80	1.0
			e	12 33.90	
			i	12 36.90	
			e	12 46.90	
BAO	21.11	75	eP	12 38.00	-0.7
			e	12 41.00	
S.D. = 1.0 on 11 of 13 obs.					

% APR 19, 1993 21h 21m 05.70±0.94s 47.914 N ±24.6km 5.665 E ±10.0km DEPTH = 10.0km (geophysicist) FRANCE (538) ML 2.2 (LDG).					
HAU	0.47	78	Pg	21 14.80	-0.4
			Sg	21 21.20	
BSF	0.76	96	Pg	21 20.90	0.2
			Sg	21 30.50	
CDF	1.19	65	Pg	21 28.20	0.3
			Sn	21 43.00	
LOR	1.38	243	Pn	21 30.70	-0.3
			Pg	21 33.40	
			Sg	21 51.40	
LBF	1.48	232	Pn	21 32.40	0.1
			Pg	21 34.70	
			Sg	21 54.40	
SSF	1.69	241	Pn	21 35.70	0.2
			Pg	21 39.10	
			Sg	22 01.00	
SMF	1.78	225	Pg	21 40.90	4.2X
			Sg	22 04.10	
BGF	2.35	236	Pg	21 51.10	6.1X
			Sg	22 21.20	
S.D. = 0.4 on 6 of 8 obs.					

APR 19, 1993 21h 59m 31.33±0.21s 44.432 N ±1.7km 7.295 E ±2.5km DEPTH = 10.0km (geophysicist) NORTHERN ITALY (545) ML 2.9 (LDG), 2.5 (GEN).					
DOI	0.08	334	Pc	59 34.80	0.9
			eSg	59 36.70	
PZZ	0.16	298	Pc	59 35.64	0.6
			S	59 37.97	
STV	0.19	174	Pc	59 35.93	0.4
			S	59 38.40	
ENR	0.22	156	Pc	59 36.55	0.3
			S	59 39.42	
BHB	0.41	357	P	59 39.49	-0.2
			S	59 45.18	
TOUF	0.42	185	Pg	59 39.91	-0.1
ROB	0.43	108	Pc	59 40.59	0.4
			S	59 46.95	
AUTN	0.45	168	Pg	59 40.41	-0.1
			Sg	59 46.12	
SAOF	0.48	157	Pg	59 40.81	-0.3
			Sg	59 47.70	
AURF	0.54	178	Pg	59 42.13	-0.2
			Sg	59 49.43	
RRL	0.61	323	Pc	59 43.40	-0.4
			S	59 51.36	
IMI	0.67	140	Pc	59 44.43	-0.3
			S	59 53.40	
FIN	0.69	108	Pc	59 44.91	-0.1
			S	59 54.27	
REVF	0.69	176	Pg	59 45.06	0.0
			Sg	59 54.81	
CKI	0.71	90	P	59 45.40	0.1

RSP	0.72	358	P	59 54.20	-1.0
			S	59 44.60	
CALN	0.74	203	Pg	59 53.73	-0.2
BNI	0.76	325	P	59 45.77	-0.2
			eSg	59 46.10	
PCP	0.90	83	Pd	59 55.80	0.4
			S	59 49.03	
FRF	0.99	208	Pg	00 00.45	-0.2
			Sg	59 49.90	
LSD	1.03	355	P	00 02.50	-0.2
			S	59 50.78	
LPG	1.13	340	Pg	00 03.62	0.2
			Sg	59 53.00	
LPL	1.16	340	Pg	00 06.30	0.2
			Sg	59 53.30	
LRG	1.19	215	Pg	00 06.70	0.1
			Sg	59 53.60	
LMR	1.24	208	Pg	00 08.60	0.0
			Sn	59 54.30	
				00 09.70	
S.D. = 0.4 on 25 of 25 obs.					

? APR 19, 1993 22h 12m 53.89±5.00s 43.786 N ±35.9km 12.817 E ±38.0km DEPTH = 10.0km (geophysicist) CENTRAL ITALY (381)					
ARV	0.30	162	P	13 00.00	-0.2
			eSg	13 07.00	
SFI	0.71	281	P	13 07.80	-0.1
			eSg	13 23.80	
ASS	0.72	189	P	13 08.00	-0.2
			eSg	13 23.00	
MNS	1.40	184	P	13 20.00	0.4
TRI	2.04	19	eP	13 45.30	16.7X
S.D. = 0.5 on 4 of 5 obs.					
% APR 19, 1993 22h 17m 37.51±1.17s 39.642 N ±11.1km 23.345 E ±9.4km DEPTH = 10.0km (geophysicist) AEGEAN SEA (365)					
PAIG	0.38	42	ePg	17 45.36	0.0
			eSg	17 51.56	
LIT	0.80	305	ePg	17 53.00	-0.1
			eSg	18 04.56	
OUR	0.85	35	ePg	17 53.80	0.0
			iSg	18 06.04	
AGG	1.00	232	ePg	17 56.52	0.0
			eSg	18 11.52	
KNT	1.56	347	ePb	18 05.40	0.1
S.D. = 0.1 on 5 of 5 obs.					

& APR 19, 1993 22h 43m 38.19s 33.970 N 116.347 W DEPTH = 3.3km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 2.8 (PAS).					
PEC	0.68	264	iPc	43 50.93	-0.9
			S	43 59.90	
PLM	0.75	215	ePc	43 52.38	-0.8
			S	44 01.92	
SSK	1.14	283	eP	43 59.10	-1.2
			S	44 15.57	
GSC	1.38	344	eP	44 03.07	-1.3
GLA	1.57	125	ePn	44 05.12	-1.8
			S	44 28.87	
5 obs. associated					
% APR 19, 1993 22h 51m 25.32±0.97s 41.728 N ±10.7km 13.341 E ±5.6km DEPTH = 10.0km (geophysicist) SOUTHERN ITALY (390)					
SDI	0.36	93	Pc	51 31.50	-1.2
			eSg	51 36.80	
RDP	0.47	274	Pc	51 35.00	0.1
			eSg	51 44.80	
RMP	0.49	280	P	51 35.10	-0.1
			eSg	51 44.20	
AQU	0.63	4	P	51 37.40	-0.6
MNS	0.82	323	P	51 39.90	-1.3
			eSg	51 54.00	
DUI	0.84	94	P	51 42.60	1.0
ASS	1.43	340	P	51 52.00	0.6
ARV	1.79	351	P	51 57.90	1.4

S.D. = 1.2 on 8 of 8 obs. APR 19, 1993 23h 04m 51.46±0.58s 39.918 N ±8.0km 19.824 E ±5.1km DEPTH = 10.0km (geophysicist) GREECE-ALBANIA BORDER REGION (392) MD 3.2 (ATH).					
KEK	0.21	185	ePg	04 56.70	0.8
			eSg	05 04.50	
IGT	0.55	134	ePg	05 02.36	-0.2
			eSg	05 11.64	
FNA	1.47	53	iPb	05 16.04	-2.0
			eSb	05 37.96	
LCI	1.49	287	P	05 16.10	-2.2
			eSn	05 34.70	
KZN	1.54	75	ePb	05 20.40	1.3
VLS	1.84	161	ePg	05 32.60	9.3X
LIT	2.06	84	iPn	05 26.68	0.2
			eSn	05 55.08	
BRT	2.22	296	P	05 31.40	2.5
GRG	2.22	61	ePn	05 29.40	0.4
			eSn	05 57.36	
THE	2.51	72	ePn	05 32.72	-0.2
			eSn	06 04.60	
KNT	2.65	61	ePn	05 35.00	0.0
SOH	2.84	70	ePn	05 37.64	-0.1
PAIG	2.97	89	ePn	05 38.64	-0.8
OUR	3.22	81	ePn	05 43.52	0.6
MGR	3.29	275	P	05 44.50	0.5
SOI	3.47	239	P	05 45.20	-1.3
S.D. = 1.3 on 15 of 16 obs.					
% APR 19, 1993 23h 16m 44.57±1.18s 17.421 N ±10.8km 100.727 W ±8.4km DEPTH = 33.0km (normol) GUERRERO, MEXICO (59)					
ACX	1.00	123	iP	17 02.38	0.1
			iS	17 15.94	
III	1.53	51	iP	17 10.08	0.0
			iS	17 31.00	
CRX	2.21	27	(P)	17 23.00	3.1X
			(S)	17 52.00	
MRX	2.31	349	iP	17 21.43	0.3
			(S)	17 51.50	
UNM	2.40	37	(P)	17 23.50	0.8
PPM	2.58	50	eP	17 24.39	-1.0
			(S)	18 05.00	
IIA	2.61	49	(P)	17 25.00	-0.3
			(S)	17 58.00	
IIT	2.80	55	(P)	17 25.13	-3.1X
CGX	3.45	312	iP	17 37.21	-0.2
			(S)	18 13.00	
IISM	3.55	63	(P)	17 39.00	0.4
			(S)	18 18.00	
OXX	3.84	94	(P)	17 50.17	7.2X
S.D. = 0.7 on 8 of 11 obs.					
* APR 19, 1993 23h 17m 20.94±1.51s 17.136 S ±20.4km 167.699 E ±12.7km DEPTH = 33.0km (normol) 4.7mb (2 obs.) VANUATU ISLANDS (186)					
BKM	0.74	136	iPc	17 34.00	-1.0
PVC	0.84	136	iPc	17 36.80	0.5
			iS	17 48.00	
DZM	5.05	193	iPc	18 36.90	0.4
			iS	19 36.00	
STK	27.83	233	eP	23 09.60	0.2
	0.8s	3.00nm		4.0mb	
ASPA	32.28	253	iPd	23 48.00	-1.1
	0.7s	30.70nm		5.3mb	
BCAO	147.25	251	ePKPc	37 02.10	0.9
	0.5s	5.00nm			
S.D. = 1.1 on 6 of 6 obs.					
* APR 20, 1993 00h 47m 46.35±1.23s 22.837 S ±16.8km 66.618 W ±15.4km DEPTH = 227.1 ±8.3 km 3.8mb (2 obs.) JUJUY PROVINCE, ARGENTINA (128)					
HJA	1.18	109	iPd	48 20.00	-0.3
YJA	1.23	57	iPd	48 21.00	-0.3
			S	48 47.00	

20d 00h

CNCB 6.13 348 P 49 17.70 0.8
 LPB 6.42 347 eP 49 21.00 0.4
 ZOBO 6.69 347 P 49 23.20 -0.8
 SIV 8.59 39 P 50 00.00 11.8X
 PPD 14.18 90 eP 51 00.80 2.1
 VAO 18.11 94 eP 51 42.50 -1.5
 e 51 45.60
 BAO 18.98 71 eP 51 52.50 -0.6
 ALQ 68.78 326 ePd 58 27.90 -0.1
 0.9s 3.15nm 4.0mb
 YKA 93.16 340 eP 00 34.70 -0.5
 0.5s 0.20nm 3.5mb
 WRA 132.81 207 PKP 06 37.30 0.8
 0.5s 0.50nm
 S.D. = 1.2 on 11 of 12 obs.

? APR 20, 1993 01h 15m 05.73±3.95s
 46.184 N ±31.6km 14.395 E ±11.4km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)

LJU 0.17 145 e(Pg) 15 08.50 -1.1
 eSg 15 12.00
 VOY 0.38 247 ePg 15 13.50 -0.1
 eSg 15 20.40
 CEY 0.45 177 e(Pg) 15 15.00 0.2
 eSg 15 21.60
 VBY 0.91 138 e(Pn) 15 24.10 1.0
 eSg 15 35.20
 S.D. = 1.5 on 4 of 4 obs.

APR 20, 1993 01h 33m 58.18±0.55s
 39.839 N ±7.2km 119.637 W ±5.5km
 DEPTH = 5.0km (geophysicist)
 NEVADA (37)
 ML 3.3 (GS), 3.5 (BRK).

KVN 1.43 123 eP 34 24.06 -0.9
 eS 34 44.24
 ORV 1.46 259 iPd 34 23.75 -1.5
 eS 34 43.01
 MIN 1.59 289 ePd 34 25.99 -1.2
 eS 34 48.95
 LMEM 1.64 296 eP 34 28.40 0.5
 CMB 1.89 198 ePd 34 31.12 -0.4
 eS 34 54.62
 BONR 2.15 151 ePn 34 35.60 0.1
 eS 35 05.51
 MEMM 2.24 166 ePn 34 36.96 0.5
 eS 35 08.17
 MMPM 2.28 168 eP 34 38.15 0.8
 eS 35 08.75
 LBFM 2.28 312 eP 34 38.80 1.5
 MRCM 2.34 157 eP 34 39.57 1.4X
 eS 35 12.96
 WDC 2.34 289 ePn 34 37.31 -0.7
 HMR 2.38 226 eP 34 40.19 1.7X
 TNP 2.58 132 ePn 34 40.94 -0.5
 eS 35 18.34
 MTUM 2.62 161 eP 34 44.08 2.0X
 LGPM 2.66 295 eP 34 43.20 0.6
 BKS 2.82 227 ePd 34 47.33 2.6X
 eS 35 22.95
 FRI 2.84 181 eP 34 48.88 3.8X
 eS 35 24.95
 ARN 2.90 211 eP 34 47.06 1.2
 MHC 2.95 213 eP 34 36.70 -10.0X
 eS 35 28.07
 MSU 5.95 100 iPc 35 28.30 -1.0
 SRU 7.09 93 eP 35 46.31 1.0
 S.D. = 1.0 on 15 of 21 obs.

? APR 20, 1993 01h 58m 08.41±3.14s
 33.424 N ±11.4km 140.721 E ±27.2km
 DEPTH = 70.6 ±29.0 km
 4.7mb (6 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT 3.73 327 eP 59 05.00 0.2
 eS 59 50.00
 WB2 53.41 187 eP 07 22.40 -0.7
 0.2s 5.60nm 5.2mb
 WRA 53.42 187 P 07 22.80 -0.3
 0.7s 3.60nm 4.5mb
 ASPA 57.14 187 eP 07 50.40 0.3
 0.6s 6.50nm 4.9mb
 MBC 60.14 16 eP 08 10.00 -0.4

WAB 60.77 195 eP 08 15.50 0.4
 0.6s 7.00nm 5.0mb
 YKA 67.22 29 eP 08 54.10 -2.8
 0.4s 0.10nm 3.1mb X
 NB2 77.29 337 P 09 56.50 0.1
 0.9s 2.40nm 4.1mb
 LCCM 77.46 43 eP 09 58.30 0.5
 SRU 82.23 48 eP 10 24.17 0.7
 PV09 83.46 48 eP 10 30.70 0.7
 PV10 83.60 48 eP 10 31.65 1.0
 GEC2 85.47 328 ePc 10 39.90 0.3
 0.5s 0.43nm 3.8mb
 ZOBO 148.90 64 PKP 17 51.00 4.3X
 CNCB 149.34 64 PKP 17 52.80 5.5X
 S.D. = 1.1 on 13 of 15 obs.

% APR 20, 1993 02h 36m 00.87±1.50s
 42.948 N ±8.9km 13.457 E ±14.8km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

AQU 0.59 184 P 36 12.80 -0.1
 eSg 36 20.20
 ASS 0.60 282 P 36 13.60 0.6
 eSg 36 21.70
 ARV 0.67 326 P 36 13.80 -0.3
 eSg 36 26.80
 MNS 0.80 226 P 36 16.00 -0.5
 eSg 36 28.10
 SDI 1.27 168 P 36 24.80 0.3
 S.D. = 0.7 on 5 of 5 obs.

APR 20, 1993 02h 43m 03.60±0.62s
 33.893 N ±9.2km 26.069 E ±6.3km
 DEPTH = 33.0km (normol)
 EASTERN MEDITERRANEAN SEA (371)
 MD 3.8 (ATH).

NPS 1.42 345 ePb 43 29.10 1.8
 VLI 3.81 319 ePn 44 02.70 1.4
 eSn 44 43.20
 ELL 4.24 47 iP 44 08.80 1.2
 IZM 4.60 12 iP 44 13.20 0.6
 BCK 5.12 45 eP 44 20.10 0.0
 CSS 6.10 78 eP 44 32.30 -1.5
 eS 45 38.50
 KOT 6.29 127 ePn 44 38.00 1.5
 ZNT 7.70 100 eP 44 55.30 -1.0
 eS 46 16.40
 JVI 8.05 102 eP 45 00.40 -0.7
 SAGI 8.16 114 eP 45 03.80 1.1
 eS 46 29.40
 SALJ 8.30 100 P 45 03.80 -0.8
 MASJ 8.40 102 P 45 05.40 -0.7
 MBH 8.55 116 eP 45 09.20 1.1
 SHWJ 8.73 111 P 45 10.30 -0.4
 HSHJ 9.12 117 P 45 16.00 0.0
 SOI 9.12 300 P 45 16.20 0.3
 LCI 9.12 317 P 45 11.90 -4.0X
 MEU 9.63 293 P 45 24.30 1.3
 ORI 9.85 311 P 45 25.60 -0.4
 BRT 9.91 317 P 45 24.30 -2.5
 MGR 10.46 310 P 45 32.70 -1.6
 SGO 10.85 311 P 45 39.10 -0.5
 GEC2 17.55 332 eP 47 19.00 11.7X
 0.4s 0.45nm
 S.D. = 1.2 on 21 of 23 obs.

APR 20, 1993 03h 09m 01.86±0.46s
 41.118 N ±4.4km 22.451 E ±3.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.2 (SKO).

GRG 0.17 193 ePg 09 05.62 -0.1
 eSg 09 08.58
 VAY 0.22 24 iPg 09 06.70 0.1
 iSg 09 10.20
 KNT 0.34 82 ePg 09 09.02 0.1
 eSg 09 14.14
 THE 0.62 141 ePg 09 13.66 -0.7
 iSg 09 22.10
 SOH 0.74 113 ePg 09 16.10 -0.4
 eSg 09 26.70
 SRS 0.86 90 ePg 09 18.26 -0.2
 eSg 09 30.26
 FNA 0.88 248 ePg 09 18.42 -0.4

LIT 1.02 178 eSg 09 30.42
 ePg 09 21.26 0.2
 eSg 09 37.14
 SKO 1.14 319 iPg 09 23.20 0.0
 iSg 09 38.40
 OHR 1.25 270 ePg 09 25.30 0.2
 eSg 09 41.70
 PAIG 1.51 141 ePb 09 30.22 1.2
 iSb 09 50.70
 S.D. = 0.6 on 11 of 11 obs.

* APR 20, 1993 03h 11m 14.81±1.17s
 36.562 N ±7.1km 71.487 E ±7.4km
 DEPTH = 166.3 ±13.1 km
 4.3mb (28 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)

KSH 4.57 50 Pg 12 26.00 2.2
 GKN 14.01 124 P 14 26.60 -0.8
 WMQ 14.34 55 P 14 30.60 -0.8
 1.0s 28.00nm 4.6mb
 pP 14 34.10
 sP 14 38.10
 KKN 14.58 123 P 14 33.00 -1.6
 DMN 14.58 124 P 14 34.40 -0.2
 PKI 14.81 123 P 14 36.40 -1.1
 GUN 14.91 121 P 14 37.60 -1.2
 LSA 17.82 107 P 15 17.80 3.7X
 HYB 20.07 160 eP 15 39.00 1.9
 GTA 22.47 74 eP 16 04.80 4.1X
 1.0s 9.00nm 4.2mb
 pP 16 11.50 24kmX
 GBA 23.48 165 P 16 13.00 2.6
 MLR 35.09 299 ePd 17 56.00 2.2
 PRU 42.57 307 eP 18 56.50 1.1
 GEC2 43.21 305 ePd 19 01.50 0.7
 0.6s 0.89nm 3.5mb
 e 19 04.00
 HFS 43.26 322 eP 19 00.00 -0.9
 0.5s 10.60nm 4.7mb
 NB2 44.57 323 P 19 10.80 -0.6
 0.6s 9.30nm 4.5mb
 CDF 47.49 306 eP 19 34.90 0.2
 BSF 47.92 305 eP 19 37.80 -0.2
 0.7s 11.35nm 4.6mb
 HAU 48.18 305 eP 19 39.70 -0.2
 0.6s 4.70nm 4.3mb
 LPG 48.45 302 eP 19 42.40 0.1
 0.7s 4.30nm 4.2mb
 LPL 48.46 302 eP 19 42.60 0.3
 LBF 49.97 304 eP 19 52.90 -0.7
 0.6s 1.80nm 3.9mb
 SMF 50.14 304 eP 19 54.60 -0.3
 0.6s 8.55nm 4.6mb
 SSF 50.27 304 eP 19 55.30 -0.5
 AVF 50.44 304 eP 19 56.70 -0.4
 0.6s 7.30nm 4.5mb
 BGF 50.83 304 eP 19 59.70 -0.4
 0.6s 3.50nm 4.2mb
 MAF 51.10 304 eP 20 02.20 0.0
 0.7s 4.85nm 4.3mb
 TCF 51.33 304 eP 20 03.90 0.0
 0.7s 5.20nm 4.3mb
 LSF 51.79 304 eP 20 06.80 -0.5
 0.7s 4.85nm 4.3mb
 CAJ 51.80 302 eP 20 07.50 0.1
 RCF 52.06 303 eP 20 09.60 0.2
 LDF 52.25 307 eP 20 10.00 -0.7
 0.7s 4.50nm 4.3mb
 FLN 52.44 307 eP 20 11.20 -0.9
 0.7s 6.70nm 4.5mb
 LPO 52.46 302 eP 20 12.10 -0.2
 LFF 52.69 303 eP 20 14.00 0.0
 0.6s 4.70nm 4.4mb
 GRR 52.78 307 eP 20 13.70 -0.8
 0.8s 13.45nm 4.7mb
 MFF 52.81 305 eP 20 14.90 0.1
 BCAA 58.05 250 iPc 20 51.20 -1.6
 0.6s 6.00nm 4.6mb
 MBC 67.26 3 ePd 21 53.00 0.4
 0.8s 2.00nm 4.0mb
 IMA 71.94 18 eP 22 20.70 -0.7
 0.7s 1.02nm 3.7mb
 INK 73.78 9 eP 22 33.50 1.6
 0.5s 1.00nm 3.8mb
 FBA 74.30 16 eP 22 35.00 0.0
 0.8s 3.79nm 4.2mb

FRB 75.12 343 eP 22 39.50 -0.1
YKA 81.17 3 eP 23 12.50 0.1
0.6s 1.80nm 4.0mb
WRA 81.69 122 P 23 16.00 0.9
0.8s 2.30nm 4.0mb
WB2 81.70 122 iPd 23 16.00 0.1
0.4s 10.30nm 4.9mb
ASPA 83.97 125 iPd 23 27.90 0.4
0.6s 5.20nm 4.5mb
S.D. = 1.0 on 45 of 47 obs.

APR 20, 1993 03h 38m 43.38±0.21s
18.155 N ± 3.1km 62.827 W ± 3.4km
DEPTH = 61.8km (3 depth phases)
4.5mb (14 obs.)

LEEWARD ISLANDS (92)
MD 4.6 (TRN). Felt (IV) on
Anguilla, Saint-Barthelemy and
Saint-Martin.

NEV 1.04 166 eP 39 03.20 1.0
CPB 1.08 118 eP 39 03.76 1.1
BPA 1.44 140 iPd 39 08.25 0.6
MGH 1.54 158 eP 39 09.95 0.9
TAG 2.38 152 iPc 39 21.29 0.5
PAG 2.38 152 iPc 39 21.30 0.5
SFG 2.45 140 eP 39 22.10 0.4
DEG 2.49 137 ePc 39 22.44 0.1
MGG 2.65 147 iPc 39 25.40 0.9
LPR 2.90 273 iP 39 28.38 0.3
eS 40 02.01
CPD 2.94 268 iP 39 29.80 1.1
eS 40 03.93
MDN 3.14 154 eP 39 31.28 -0.2
eS 40 03.20
SJG 3.16 270 iP 39 32.50 0.7
eS 40 08.68
CSB 3.17 273 eP 39 31.88 0.0
eS 40 07.98
DPMT 3.19 154 eP 39 32.22 0.0
eS 40 04.43
PORP 3.62 269 iPd 39 38.50 0.2
eS 40 19.83
APR 3.72 275 iP 39 39.00 -0.6
eS 40 20.80
FDF 3.76 154 iPd 39 41.22 0.9
LRS 3.82 273 iP 39 40.38 -0.7
eS 40 23.70
CRM 3.85 151 iPc 39 42.09 0.7
BIM 3.99 155 iPc 39 44.63 1.2
MVM 4.03 152 iPd 39 44.63 0.6
MGP 4.06 269 eP 39 44.38 0.0
eS 40 29.76
MCP 4.08 274 iP 39 43.62 -1.1
eS 40 28.93
SLW 4.50 156 eP 39 49.98 -0.6
eS 40 38.28
SLB 4.63 158 eP 39 51.83 -0.7
eS 40 40.30
SVV 5.05 162 eP 39 57.48 -0.9
eS 40 50.59
SVB 5.09 162 eP 39 57.95 -0.9
eS 40 51.77
GRW 6.07 169 eP 40 11.87 -0.8
TCE 7.49 172 eP 40 32.24 -0.1
TRN 7.59 169 eP 40 33.87 0.1
TBH 7.81 167 eP 40 38.00 1.1
TPP 7.91 170 eP 40 38.64 0.5
HBF 21.57 316 eP 43 29.70 0.2
SGS 21.82 317 eP 43 32.56 0.6
i 43 47.57 66km
LHS 22.83 319 eP 43 42.75 0.8
JSC 22.99 318 eP 43 45.08 1.6
e 44 06.25 98kmX
NAV 24.76 324 (P) 44 01.65 0.9
MYNC 25.34 316 eP 44 06.84 0.7
0.6s 4.66nm 4.2mb
FVM 31.17 315 (P) 44 58.46 -0.2
0.6s 5.13nm 4.4mb
SIV 33.97 177 P 45 33.40 10.2X
ZOB0 34.60 189 P 45 26.00 -3.3X
LPB 34.86 189 P 45 28.20 -3.1
CNCB 35.12 189 P 45 30.40 -3.2X
CCH 35.47 185 (P) 45 35.00 -1.3
LTX 38.82 294 eP 46 00.50 -3.8X
ePcP 48 13.55
ULM 41.49 328 eP 46 28.00 2.2

PPD 41.50 164 eP 46 24.80 -1.4
ALQ 42.10 302 ePd 46 31.17 -0.1
0.9s 5.03nm 4.3mb
RSSD 43.11 316 eP 46 47.14 63km
BW06 46.41 312 iPd 47 05.31 -0.6
1.0s 11.29nm 4.8mb
MSU 47.31 306 eP 47 13.10 0.8
ARUT 48.16 305 eP 47 19.38 -0.3
HVU 48.46 310 eP 47 21.50 -0.3
LCCM 48.92 316 eP 47 25.80 0.5
NEW 53.04 317 eP 47 55.29 -1.1
0.7s 11.20nm 5.0mb
ORV 54.65 306 (P) 48 08.26 0.0
LKO 56.05 91 P 48 17.76 -1.0
YKA 56.81 334 eP 48 21.60 -1.8
0.8s 2.00nm 4.2mb
TIC 57.40 94 P 48 26.90 -1.4
0.6s 6.50nm 4.9mb
LIC 57.51 94 P 48 27.70 -1.4
0.5s 5.50nm 4.9mb
KIC 57.75 94 P 48 29.70 -1.0
0.5s 7.50nm 5.1mb
EPF 58.31 50 eP 48 34.90 0.5
1.0s 8.40nm 4.8mb
LPO 59.05 48 eP 48 39.40 0.0
LPL 63.02 48 eP 49 06.80 0.3
0.6s 2.45nm 4.5mb
LPG 63.03 48 eP 49 07.10 0.4
0.6s 1.55nm 4.3mb
MBC 64.77 347 eP 49 17.00 -0.2
INK 66.15 337 eP 49 26.00 0.0
NB2 66.56 31 P 49 28.50 -0.4
0.8s 3.10nm 4.3mb
GEC2 67.74 44 ePd 49 36.10 -0.5
0.6s 0.98nm 4.0mb
e 49 51.70 56km
S.D. = 0.9 on 66 of 70 obs.

* APR 20, 1993 04h 34m 43.15±1.35s
39.989 N ± 5.9km 19.824 E ± 13.3km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (ATH).

KEK 0.28 184 ePg 34 48.90 -0.1
eSg 34 57.00
IGT 0.60 139 ePg 34 54.70 -0.6
eSg 35 05.74
OHR 1.34 33 iPn 35 07.00 -0.9
0.9s 76.00nm
iSg 35 27.50
Lg 35 34.00
FNA 1.43 56 ePb 35 08.74 -0.4
eSb 35 30.58
KZN 1.53 77 ePb 34 13.50 -57.0X
VLS 1.91 162 ePg 35 26.00 10.0X
LIT 2.05 86 ePn 35 17.78 -0.3
eSn 35 47.54
AGG 2.17 116 ePn 35 20.90 1.1
eSn 35 50.94
SKO 2.33 31 iPn 35 23.00 0.9
iSg 35 57.20
VAY 2.48 57 ePn 35 24.50 0.3
PAIG 2.96 90 iPn 35 30.66 -0.4
OUR 3.20 82 ePn 35 34.90 0.4
S.D. = 0.8 on 10 of 12 obs.

* APR 20, 1993 05h 38m 40.16s
37.653 N 118.915 W
DEPTH = 4.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM).

MEMM 0.02 305 iPc 38 41.38 0.1
MMPM 0.10 244 iPc 38 42.46 -0.1
MRCM 0.32 87 ePc 38 46.82 0.1
MTUM 0.41 137 ePd 38 48.13 -0.3
BONR 0.57 58 iPc 38 51.50 -0.1
CMB 1.22 289 ePc 39 02.61 -0.9
S 39 18.26
TNP 1.41 72 ePc 39 06.91 0.2
KVN 1.54 24 eP 39 09.17 0.7
ISA 2.02 170 eP 39 18.91 3.6
S 39 42.65
ARN 2.10 263 eP 39 17.23 0.7
S 39 44.11

PHAM 2.17 214 eP 39 17.04 -0.5
S 39 47.83
TPNV 2.24 107 (P) 39 21.39 2.7
ORV 2.78 314 eP 39 29.38 3.2
S 40 04.96
GSC 2.90 143 (P) 39 30.66 2.7
14 obs. associated

* APR 20, 1993 06h 16m 49.15±0.59s
29.125 S ± 13.8km 61.263 E ± 7.6km
DEPTH = 10.0km (geophysicist)
4.9mb (8 obs.)
SOUTHWEST INDIAN RIDGE (428)

AVY 15.99 306 eP 20 36.70 0.8
VTY 16.02 306 eP 20 37.50 1.2
OPO 16.72 306 eP 20 44.90 -0.3
BUL 30.91 279 iPd 23 07.00 -1.5
1.0s 15.00nm 4.8mb
LSZ 33.45 287 iPc 23 30.00 -0.7
i 23 37.00
GBA 45.26 22 P 25 10.00 1.3
HYB 49.19 22 eP 25 40.50 1.0
BCAO 52.87 302 iPc 26 07.50 -0.1
0.9s 18.00nm 5.0mb
id 26 15.00
DMN 60.86 24 P 27 03.80 -0.6
PKI 60.93 25 P 27 03.60 -1.4
GKN 61.05 24 P 27 05.20 -0.4
KKN 61.09 24 P 27 04.20 -1.7
1.0s 22.00nm 5.2mb
GUN 61.41 25 P 27 08.00 -0.3
ASPA 64.36 104 eP 27 27.90 0.2
0.8s 6.70nm 4.9mb
WRA 66.19 100 P 27 39.80 0.3
0.8s 2.30nm 4.4mb
WB2 66.20 100 eP 27 39.30 -0.2
0.8s 3.20nm 4.6mb
LKO 74.96 290 P 28 33.02 0.3
LZH 76.24 34 eP 28 50.00 10.3X
1.4s 19.00nm
LZH 76.24 34 eP 28 40.00 0.3
1.4s 19.00nm 5.0mb
WMO 76.53 19 eP 28 39.00 -2.1
GTA 77.06 30 eP 28 45.50 1.3
1.5s 11.00nm 4.7mb
XAN 77.32 39 P 28 47.00 1.4
OHR 79.29 330 e(P) 28 56.20 -0.1
CEH 146.07 292 (PKP) 36 30.95 0.8
e 36 38.52
YKA 146.52 357 ePKP 36 32.70 2.7X
1.0s 2.20nm
NAV 147.39 295 (PKP) 36 34.19 1.9
LHS 147.46 289 ePKPc 36 32.81 0.4
JSC 147.82 289 ePKPc 36 36.03 3.0X
e 36 43.78
GOGA 149.64 287 (PKP) 36 34.40 -1.5
GBTN 150.23 292 (PKP) 36 40.20 3.4X
e 36 49.76
S.D. = 1.1 on 26 of 30 obs.

* APR 20, 1993 06h 44m 50.84s
59.421 N 153.172 W
DEPTH = 107.0km
SOUTHERN ALASKA (2)
<AEIC>.

AUE 0.12 239 ePc 45 05.15 0.8
eS 45 16.92
AUL 0.14 254 iPc 45 05.44 1.1
AUH 0.15 248 eP 45 05.60 1.1
AUI 0.16 237 iPc 45 05.31 0.9
eS 45 16.45
CDD 0.55 206 iPc 45 07.11 -0.9
eS 45 19.69
PDB 0.64 306 iPd 45 07.77 -0.8
iS 45 20.85
MCNL 0.64 249 iPd 45 07.90 -0.8
eS 45 20.87
INE 0.64 5 eP 45 07.99 -0.9
eS 45 21.83
INW 0.65 2 iPd 45 07.92 -0.9
eS 45 21.59
XLV 0.74 87 eP 45 08.92 -0.6
SYI 0.91 153 iPc 45 10.02 -1.1
eS 45 24.95
BGM 1.05 269 eP 45 12.18 -0.5

• APR 20, 1993 06h 46m 45.54± 0.59s
29.233 S ±13.3km 61.243 E ± 6.3km
DEPTH = 10.0km (geophysicist)
5.1mb (11 obs.)
SOUTHWEST INDIAN RIDGE (428)

DMN	60.96	24 P	57	01.40	-0.1
PKI	61.04	25 P	57	01.60	-0.5
GKN	61.16	24 P	57	02.40	-0.3
KKN	61.19	24 P	57	02.60	-0.4
	0.8 s	19.00nm			5.3mb
GUN	61.52	25 P	57	05.20	-0.2
	0.9 s	33.00nm			5.5mb
WRA	66.18	100 P	57	36.20	0.4
	0.6 s	4.40nm			4.8mb
WB2	66.19	100 eP	57	35.50	-0.4
	0.8 s	5.40nm			4.8mb
CD2	72.22	38 eP	58	12.50	-0.3
KIC	72.54	288 P	58	15.30	0.3
LIC	72.70	288 P	58	15.20	-0.7
TIC	72.92	288 P	58	17.30	0.0
LKO	74.98	290 P	58	29.92	0.7
LZH	76.34	34 eP	58	41.50	4.8X
	1.6 s	30.00nm			5.1mb
WMO	76.63	19 eP	58	36.20	-1.9
GTA	77.16	30 P	58	42.50	1.3
	1.0 s	11.00nm			4.9mb
		pP	58	47.50	16kmX
XAN	77.41	39 P	58	40.50	-2.0
OHR	79.38	330 eP	58	53.20	0.0
SKO	79.80	331 iP	58	54.60	-0.8
VR1	81.05	336 ePc	59	02.50	0.6
OBN	86.62	346 eP	59	31.00	1.1
	1.1 s	35.00nm			5.5mb
GEC2	88.57	331 ePc	59	39.30	-0.3
	1.4 s	2.55nm			4.3mb
		e	59	47.90	
		e	59	54.60	
KSP	89.06	333 eP	59	42.60	0.8
WET	89.15	331 iPc	59	43.90	1.6
CLL	90.74	332 eP	59	51.00	1.5
YKA	146.62	356 ePKP	06	26.20	-0.4
	0.8 s	2.10nm			
ULM	152.81	327 ePKP	06	46.00	9.6X

S.D. = 0.9 on 32 of 34 obs.

% APR 20, 1993 07h 00m 00.31± 1.04s
31.091 S ±12.8km 68.242 W ±11.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.51	180	iPc	00	17.20	0.7
			S	00	29.00	
RTCV	0.81	198	iPc	00	19.30	0.3
			(S)	00	32.00	
RTBS	1.18	241	iPd	00	23.70	0.7
			S	00	38.30	
MRA	2.53	122	iPc	00	41.30	0.9
			S	01	06.90	
TCA	3.14	95	iPc	00	49.00	0.2
CYA	3.39	40	ePc	00	51.40	-0.8
			S	01	30.00	
RFA	3.67	183	ePc	00	54.20	-1.9
			(S)	01	36.40	

? APR 20, 1993 07h 42m 44.28±1.01s
39.133 N ± 8.7km 27.574 E ±16.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.77	198	iPg	42	59.40	0.0
			iSg	43	10.90	
DST	0.94	60	iPn	43	02.30	0.0
EDC	1.23	10	ePn	43	07.00	-0.2
BNT	1.25	12	ePn	43	07.70	0.2
S.D. = 0.3 on 4 of 4 obs.						

APR 20, 1993 08h 11m 21.04± 0.34s
54.366 S ± 6.2km 144.086 E ± 8.5km
DEPTH = 10.0km (geophysicist)
5.3mb (23 obs.) 5.7Msz (15 obs.)
WEST OF MACQUARIE ISLAND (781)
Mw 5.9 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 41S, 97C
Centroid Location:
Origin Time 08:11:26.0 0.2
Lat 54.77S 0.02 Lon 143.82E 0.03
Dep 15.0 FIX Half-duration 2.0
Moment Tensor: Scale 10¹⁷ Nm

BFD	17.23	356	iPc	15	24.50	1.4
	1.2s	128.00nm	eTT	30	58.80	4.9mb
TLC	18.48	70	eP	15	36.10	-2.6
CMCZ	18.62	71	eP	15	39.20	-1.2
LRCZ	18.71	71	eP	15	42.70	1.1
CAN	19.35	12	iPc	15	49.10	-0.3
			i	15	53.80	
CNB	19.40	13	iPc	15	50.00	0.0
	0.9s	36.00nm				4.6mb
ADE	19.76	347	eP	15	53.80	-0.1
CSY	20.14	220	eP	15	59.30	1.7
	0.7s	58.70nm				5.0mb
BWA	20.17	10	iPc	15	59.60	1.4
RIV	21.13	17	eP	16	09.10	1.1
Z	21s	0.22um				3.5Mszx
			iS	20	10.00	
STK	22.55	354	iPd	16	24.20	1.9
	1.1s	11.60nm				4.3mb
CMS	22.90	4	eP	16	28.80	3.0X
	1.2s	69.00nm				5.0mb
SBA	24.92	169	iPd	16	46.70	1.7
BRS	27.69	17	iPc	17	08.00	-3.1
			i	17	12.50	
			ePP	17	44.00	
			i	20	43.00	
			iS	21	57.00	
			e	26	15.00	
QLP	27.75	0	eP	17	12.40	0.8
RMO	28.06	9	iPd	17	15.00	0.6
	1.1s	134.00nm				5.6mb
KLB	29.50	310	eP	17	26.00	-1.4
MUN	29.89	307	eP	17	29.40	-1.4
Z	20s	33.80um				6.0Mszx
BAL	30.82	309	eP	17	37.00	-2.0
WARB	30.96	328	eP	17	38.00	-2.3
	0.6s	6.00nm				4.7mb
MRWA	32.32	310	eP	17	51.00	-1.2
MEEK	33.44	316	iPc	18	01.50	-0.5
	1.0s	21.00nm				5.0mb
CTA	34.26	4	iP	18	08.00	-1.1
			i	18	12.00	
			e	19	24.00	
			iS	23	39.00	
WB2	35.16	344	eP	18	15.40	-1.4
	0.9s	6.50nm				4.5mb
			iPP	20	47.80	
WRA	35.16	344	P	18	15.80	-1.0
	0.5s	15.40nm				5.1mb
WRA	35.16	344	P	18	33.20	16.4X
	1.3s	9.80nm				
SPA	35.81	180	iPc	18	20.50	-1.7
	0.7s	230.47nm				6.2mb
Z	18s	8.63um				5.6Mszx
			i	32	04.70	
DZM	36.39	36	iPc	18	26.20	-1.2
MAW	38.44	218	eP	18	43.00	-0.9
	1.0s	16.67nm				4.7mb
Z	16s	16.67um				5.9Mszx
RAB	50.45	10	e(P)	20	24.00	3.3X
NVL	50.60	199	iPc	20	20.00	-1.3
	1.0s	116.00nm				5.8mb
Z	18s	22.00um				6.2Mszx
N	18s	18.00um				
E	18s	12.00um				
			ePcP	21	32.00	
			ePP	22	30.00	
			PPP	23	18.00	
			eScP	25	28.00	
			ePcS	25	38.00	
			eS	27	35.00	
			e	28	18.00	
			eSS	31	03.00	
			eSSS	33	08.00	
SNA	53.29	194	iPd	20	41.80	0.2
	0.9s	61.00nm				5.6mb

CRZF	55.26	237	eP	21 03.00	6.7X	INK	136.38	32	ePKP	30 48.00	5.0X	BSF	152.74	274	ePKP	31 17.80	6.5X				
			eS	28 42.00			1.0s		2.00nm			HAU	153.08	274	ePKP	31 19.00	7.4X				
			eSS	32 39.00		OBN	139.88	302	ePKP	31 01.00	11.1X		Z 21s		11.56um		6.7Msz				
DAV	63.17	339	eP	22 04.00	12.8X		1.3s		26.00nm			HFS	153.10	303	ePKP	31 32.10	20.9X				
CTB	63.57	338	ePd	21 58.00	4.1X		Z 22s		1.70um		5.7Msz		0.5s		2.00nm						
SNG	71.29	314	eP	22 42.50	0.1X	N	22s		1.00um			CAF	153.95	264	ePKP	31 20.80	7.8X				
BAG	73.30	336	eP	22 50.00	-4.5X	E	22s		1.10um			PAB	154.13	248	ePKP	31 25.00	11.6X				
OIZ	78.76	327	eP	23 26.00	0.9				LR	17 00.00		FRB	160.99	47	ePKP	31 24.00	3.3X				
CER	80.54	224	eP	23 30.00	-4.7X	YKA	140.49	46	ePKP	30 42.70	-8.1X				pP	32 06.50					
	1.0s		100.00nm		5.8mb		1.2s		1.50nm				S.D. = 1.5 on 69 of 128 obs.								
TUH	80.65	224	eP	23 27.00	-8.2X	OHR	140.70	274	ePKP	30 52.50	0.6		APR 20, 1993 08h 15m 30.65±0.79s								
SUR	80.76	226	iPd	23 43.00	6.9X	MBC	143.45	24	ePKP	30 53.00	-2.6		38.654 N ± 7.2km 29.290 E ± 8.2km								
	0.7s		75.00nm		5.8mb		1.0s		6.00nm				DEPTH = 10.0km (geophysicist)								
Z 18s			52.20um		6.9MszX	ULM	144.08	71	ePKP	30 56.00	-1.4		TURKEY (366)								
FRS	81.06	231	eP	23 35.00	-2.4	UZD	145.24	280	ePKP	31 07.00	7.5X		MD 3.0 (ISK).								
SEK	81.21	233	eP	23 37.20	-1.3	SPC	145.67	285	ePKP	31 00.80	0.4		KHL	0.38	151	ePg	15 38.50	0.1			
	0.8s		20.00nm		5.2mb	AQU	145.80	270	PKP	31 03.00	2.3		ALT	0.76	58	ePn	15 45.20	-0.3			
GZH	81.55	332	P	23 38.00	-1.8	SRO	146.06	282	ePKP	31 00.80	0.0		DST	1.08	332	ePn	15 50.00	-1.0			
Z 24s			2.03um		5.4MszX	MNS	146.24	270	PKP	31 01.70	0.3		I2M	1.61	262	ePn	15 59.00	-0.2			
BFT	82.27	236	e(P)	23 43.50	-0.6	ZAG	146.32	277	ePKP	31 02.40	1.1		YLV	1.91	2	ePn	16 04.00	0.4			
PRY	82.46	234	eP	23 42.00	-3.0	PTJ	146.38	277	iPKP	31 02.90	1.3		BNT	2.00	328	ePn	16 06.00	1.1			
CHG	82.47	317	eP	23 45.10	0.3	OJC	146.43	286	ePKP	31 03.20	1.8			S.D. = 0.9 on 6 of 6 obs.							
SLR	83.08	235	eP	23 46.50	-1.7				i	31 11.70			APR 20, 1993 08h 42m 41.84±1.21s								
	0.6s		9.00nm		5.1mb	VBY	146.57	276	ePKPc	31 03.00	1.2		40.362 N ± 8.4km 23.236 E ± 11.0km								
Z 22s			19.10um		6.4Msz	ARV	146.76	271	PKP	31 04.90	2.7X		DEPTH = 10.0km (geophysicist)								
KSR	83.63	234	eP	23 50.50	-0.6	ZST	146.95	281	ePKP	31 09.40	7.1X										

20d 09h

SOUTH ISLAND, NEW ZEALAND (162)
ML 3.9 (WEL).

THZ	0.57	10	Pc	41	16.00	-0.5
			eS	41	24.10	
KHZ	0.58	100	Pd	41	18.10	1.5
			eS	41	26.60	
LTZ	0.59	219	Pc	41	17.20	0.3
			S	41	25.10	
DSZ	0.92	308	Pd	41	22.90	0.3
MQZ	1.39	184	P	41	30.30	0.1
			eS	41	48.10	
QRZ	1.51	353	eP	41	32.60	0.7
TCW	1.58	46	eP	41	33.60	0.7
MRW	1.81	54	P	41	37.30	1.0
EWZ	1.84	229	eP	41	37.50	0.8
MOW	2.06	65	eP	41	39.90	0.0
CAW	2.11	56	eP	41	40.90	0.3
KIW	2.17	48	eP	41	42.70	1.2
BLW	2.23	66	eP	41	42.10	-0.4
MTW	2.35	61	eP	41	43.00	-1.1
MNG	2.66	51	eP	41	48.30	-0.2
BWZ	3.05	223	eP	41	53.20	-0.7
ODZ	3.13	209	eP	41	54.00	-1.1
PGZ	3.14	58	eP	41	53.60	-1.6
WAHZ	3.77	47	eP	42	03.00	-1.3
URZ	5.24	41	eP	42	21.60	-3.5X

S.D. = 1.0 on 19 of 20 obs.

* APR 20, 1993 09h 43m 02.20±1.33s
4.026 N ± 7.0km 128.404 E ± 14.8km
DEPTH = 40.5 ± 14.0 km
4.7mb (10 obs.) 4.2Msz (1 obs.)
NORTH OF HALMAHERA, INDONESIA (264)

MNI	4.39	234	eP	44	10.00	1.8
BIP	4.69	333	eP	44	11.50	-0.9
			eS	45	00.00	
CTB	5.24	307	ePd	44	39.50	19.4X
SWI	5.63	149	ePd	44	26.50	0.8
			iS	45	27.00	
PLP	7.86	335	ePc	44	56.00	-1.0
MTN	16.98	171	eP	46	58.50	0.0
KNA	19.65	179	eP	47	29.50	-1.2
	0.3s	14.00nm			4.7mb	
WBZ	24.53	166	eP	48	19.20	-0.2
	0.3s	22.90nm			5.2mb	
ASPA	28.04	169	iPd	48	50.60	-1.3
	0.4s	14.10nm			5.0mb	
WARB	30.08	183	eP	49	10.00	-0.2
	0.3s	2.00nm			4.4mb	
XAN	34.93	331	P	49	52.00	-0.4
BJI	37.52	345	eP	50	29.00	14.9X
	1.0s	11.00nm				
BJI	37.52	345	eP	50	19.00	4.9X
	1.0s	11.00nm			4.7mb	
STK	37.85	162	eP	50	15.00	-2.0
	0.5s	5.10nm			4.7mb	
BRS	39.10	144	iPc	50	27.50	-0.1
LZH	39.12	328	eP	50	35.50	7.7X
	1.8s	0.29um			4.2Msz	
ARMA	40.82	149	iPd	50	42.20	0.4
	0.4s	6.00nm			4.7mb	
BWA	42.64	155	iPd	50	57.80	1.2
CAN	43.66	155	eP	51	06.20	1.4
GBA	51.16	284	P	52	12.00	8.2X
WMO	53.45	324	eP	52	20.30	-0.4
THZ	60.92	143	eP	53	12.70	-0.8
	0.7s	15.00nm			5.2mb	
BWZ	60.94	147	eP	53	12.10	-1.3
IMA	81.44	24	eP	55	18.10	1.7
	0.7s	3.20nm			4.4mb	
INK	89.28	22	eP	55	56.00	0.9
MBC	91.30	13	eP	56	06.00	1.6
YKA	98.54	25	eP	56	37.50	-0.2
	0.6s	0.60nm			4.3mb	
TCA	150.21	157	ePKPd	02	51.30	5.5X

S.D. = 1.2 on 22 of 28 obs.

? APR 20, 1993 10h 06m 03.56±2.09s
59.802 N ± 29.0km 18.481 E ± 10.4km
DEPTH = 10.0km (geophysicist)
SWEDEN (536)

HFS	2.43	280	eP	06	44.00	0.1
	0.1s	1.90nm				
NRA0	3.58	288	Pn	07	00.16	-0.1

			Pg	07	08.61	
			Lg	08	02.96	
FIA0	4.09	63	Pn	07	07.38	0.0
			Sn	07	58.17	
			Lg	08	15.54	
ARA0	10.21	14	Pn	08	33.18	0.0
			Sn	10	32.08	

S.D. = 0.1 on 4 of 4 obs.

? APR 20, 1993 10h 19m 27.44±2.38s
59.651 N ± 32.0km 18.494 E ± 10.8km
DEPTH = 10.0km (geophysicist)

SWEDEN (536)

HFS	2.47	283	eP	20	08.70	0.4
	0.4s	9.00nm				
NRA0	3.64	290	Pn	20	24.49	-0.5
			Pg	20	33.50	
			Lg	21	27.96	
FIA0	4.16	61	Pn	20	32.16	-0.1
			Pg	20	42.51	
			Sn	21	24.68	
			Lg	21	41.82	
ARA0	10.36	14	Pn	21	59.11	0.1
			Sn	23	56.89	

S.D. = 0.6 on 4 of 4 obs.

? APR 20, 1993 10h 27m 01.14±2.05s
59.829 N ± 28.6km 18.336 E ± 10.3km
DEPTH = 10.0km (geophysicist)

SWEDEN (536)

HFS	2.35	279	eP	27	40.50	0.1
	0.3s	3.30nm				
NRA0	3.50	288	Pn	27	56.62	-0.1
			Pg	28	06.49	
			Lg	29	00.91	
FIA0	4.14	64	Pn	28	05.72	0.0
			Lg	29	13.52	
ARA0	10.21	14	Pn	29	30.64	0.0

S.D. = 0.1 on 4 of 4 obs.

& APR 20, 1993 10h 35m 00.14s
34.367 N 116.458 W
DEPTH = 3.9km

SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS). Felt.

PEC	0.75	231	iPd	35	13.94	-1.2
			S	35	22.73	
GSC	0.98	343	ePc	35	18.26	-1.0
SSK	1.03	262	eP	35	19.13	-1.2
			S	35	33.33	
PLM	1.07	198	ePc	35	19.74	-1.2
			S	35	34.04	
GLA	1.89	133	ePn	35	33.24	-0.3
			ePg	35	35.16	
			S	35	59.43	
ISA	2.10	309	ePn	35	55.02	-1.6
			ePg	35	39.03	
			S	36	05.63	
TPNV	2.58	4	(P)	35	46.30	2.7
BCH	3.09	286	(Pn)	35	50.49	-0.3
TNP	3.76	351	ePg	36	09.69	9.3
MEMM	3.86	329	ePg	36	11.19	9.6
BONR	3.88	338	(Pn)	36	01.74	-0.4
			ePg	36	12.08	

11 obs. associated

& APR 20, 1993 10h 49m 17.16s
34.468 N 118.629 W
DEPTH = 6.7km

SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS). Felt in the Costoic area.

SSK	0.82	108	eP	49	31.81	-1.6
ISA	1.20	6	ePd	49	38.71	-1.2
			S	49	55.72	
PEC	1.35	115	ePd	49	40.48	-1.8
			S	49	58.96	
BCH	1.39	301	eP	49	42.09	-1.1
GSC	1.71	60	ePd	49	46.93	-0.8
			S	50	10.12	
PLM	1.84	127	eP	49	47.49	-2.2
PHAM	1.99	314	(P)	49	52.11	0.5
			S	50	22.06	

MTUM	2.88	1	eP	50	05.86	1.3
			S	50	46.30	
TPNV	3.14	37	(P)	50	07.82	-0.4
MMPM	3.15	354	eP	50	08.91	0.4
			S	50	50.31	
MEMM	3.20	356	eP	50	09.44	0.6
			S	50	51.95	
GLA	3.47	113	eP	50	11.62	-1.1
BONR	3.49	4	eP	50	13.48	0.2
TNP	3.78	17	(Pn)	50	17.54	0.2
			Pg	50	27.07	

14 obs. associated

? APR 20, 1993 11h 21m 25.32±2.92s
39.977 N ± 29.7km 24.963 E ± 13.5km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

OUR	0.83	296	ePg	21	40.66	-0.7
			eSg	21	51.14	
PAIG	0.99	268	ePg	21	44.22	0.2
			eSg	21	58.10	
ALN	1.24	42	ePb	21	48.14	-0.1
			eSb	22	04.98	
SRS	1.55	318	ePb	21	53.62	0.7
			eSb	22	11.50	

S.D. = 1.0 on 4 of 4 obs.

% APR 20, 1993 11h 43m 47.78±0.87s
40.495 N ± 7.8km 23.507 E ± 11.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)

SOH	0.35	340	ePg	43	55.14	0.2
			eSg	43	59.62	
OUR	0.40	114	ePg	43	56.14	0.2
			eSg	44	01.74	
PAIG	0.58	167	ePg	43	59.38	-0.2
			eSg	44	07.50	
SRS	0.62	6	ePg	43	59.94	-0.4
			eSg	44	07.82	
KNT	0.81	325	ePg	44	03.66	0.2
			eSg	44	14.30	

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

% APR 20, 1993 12h 08m 27.14±0.57s
44.576 N ± 4.4km 7.256 E ± 7.1km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.8 (GEN).

PZZ	0.13	237	P	08	30.69	0.3
			S	08	33.00	
BHB	0.27	1	P	08	33.24	0.5
			S	08	36.51	
STV	0.34	172	P	08	34.22	0.1
			S	08	39.11	
ENR	0.37	161	P	08	34.54	-0.2
RRL	0.48	316	P	08	36.64	-0.3
ROB	0.52	122	P	08	37.72	0.0
RSP	0.58	0	P	08	38.61	-0.3
			S	08	46.30	

S.D. = 0.4 on 7 of 7 obs.

APR 20, 1993 12h 38m 45.71±1.36s
18.717 N ± 17.2km 64.160 W ± 6.0km
DEPTH = 33.0km (normol)

VIRGIN ISLANDS (91)
ML 4.4 (FDF). MD 4.2 (TRN).

LPR	1.67	256	iP	39	13.10	0.0
			S	39	33.60	
CPD	1.80	248	iP	39	15.70	0.8
SJG	1.98	253	iP	39	18.00	0.4
			S	39	42.70	
NEV	2.18	136	eP	39	21.30	0.9
			eS	39	47.61	
PORP	2.44	255	iP	39	24.00	-0.2
APR	2.45	264	iP	39	24.00	-0.3
PNP	2.48	255	iP	39	25.10	0.4
			S	39	55.10	
LRS	2.58	261	iP	39	30.10	4.0X
MGH	2.72	137	ePc	39	29.00	1.0
BPA	2.75	127	ePc	39	27.80	-0.7

DEG 3.80 128 eP 39 42.10 -1.4
S 40 24.50
MGG 3.89 135 eP 39 44.60 0.0
DPMT 4.34 142 eP 39 51.20 0.1
FDF 4.90 143 eP 39 59.62 0.6
BIM 5.12 144 eP 40 02.82 0.6
MVM 5.19 142 eP 40 03.60 0.4
SLB 5.71 148 eP 40 09.34 -1.2
eS 40 41.62
GRW 6.95 159 eP 40 36.45 8.5X
eS 41 09.19
TCE 8.31 163 eP 40 46.27 -0.6
TRN 8.45 161 eP 40 49.00 0.1
TBH 8.71 159 eP 40 54.19 1.7
TPP 8.75 162 eP 40 48.87 -4.1X
SDV 11.62 214 eP 41 30.70 -1.8
S.D. = 0.9 on 22 of 25 obs.

APR 20, 1993 12h 43m 38.76 ± 0.48s
64.195 N ± 4.3km 140.322 W ± 4.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN YUKON TERRITORY, CANADA (18)
ML 3.6 (PGC), 2.7 (AEIC).

DWY 0.42 110 Pc 43 46.70 -0.5
TMW 1.48 235 eP 44 04.83 -0.5
eS 44 22.88
DOT 1.74 253 iP 44 08.79 -0.5
eS 44 31.72
PAX 2.61 244 eP 44 21.85 0.1
eS 44 54.09
SDG 2.89 237 eP 44 26.78 1.1
S 45 00.56
HDA 2.90 277 eP 44 25.24 -0.5
FYU 3.15 321 eP 44 30.80 1.6
GLM 3.15 288 eP 44 29.02 -0.3
GLB 3.19 212 eP 44 28.99 -1.0
CTGM 3.28 189 eP 44 31.37 0.1
CCB 3.28 281 eP 44 30.65 -0.5
FBA 3.30 286 ePn 44 30.63 -0.9
ePg 44 36.87
BALM 3.31 197 iP 44 31.08 -0.6
HYT 3.63 158 P 44 36.00 -0.2
TGL 3.64 200 iP 44 37.16 0.7
CRQM 3.69 202 iP 44 37.92 0.7
KLU 3.73 226 eP 44 37.30 -0.4
YAH 3.90 190 iP 44 41.20 1.0
VLZ 4.14 225 eP 44 43.59 0.3
SML 4.37 240 eP 44 47.18 0.5
INK 4.96 31 P 44 55.00 0.1
0.3s 3.00nm
S.D. = 0.7 on 21 of 21 obs.

? APR 20, 1993 13h 02m 53.34 ± 1.53s
78.395 N ± 18.4km 6.424 E ± 15.0km
DEPTH = 10.0km (geophysicist)
SVALBARD REGION (643)
MD 2.4 (BER).

KBS 1.21 62 iPc 03 15.80 0.0
iS 03 27.80
JNW 8.33 215 eP 04 57.29 0.4
JNE 8.36 215 eP 04 56.81 -0.4
ARA0 10.26 140 Pn 05 23.44 0.0
S.D. = 0.5 on 4 of 4 obs.

* APR 20, 1993 13h 19m 08.25 ± 0.84s
2.619 N ± 11.2km 95.981 E ± 9.2km
DEPTH = 22.7km (3 depth phases)
4.8mb (13 obs.)
OFF W COAST OF NORTHERN SUMATERA (705)

IPM 5.40 69 ePd 20 27.00 -2.5
0.9s 85.70nm 5.4mb
SNG 6.47 45 eP 20 46.20 1.6
KGM 7.36 95 eP 20 58.50 1.5
CHG 16.35 10 eP 22 58.40 0.2
PKI 26.79 339 P 24 49.00 0.0
0.9s 29.00nm 4.9mb
DMN 26.94 338 P 24 51.60 1.3
GUN 26.94 340 P 24 50.60 0.2
0.8s 43.00nm 5.1mb
KKN 27.04 339 P 24 51.40 0.2
1.0s 54.00nm 5.1mb
LSA 27.32 351 P 24 54.90 0.9
1.0s 16.00nm 4.6mb
GKN 27.47 338 P 24 55.20 0.2

CD2 1.0s 50.00nm 5.2mb
29.08 14 eP 25 08.50 -0.9
XAN 33.51 20 P 25 47.50 -0.9
1.0s 13.00nm 4.8mb
pP 25 54.00 22km
LZH 34.09 11 eP 25 52.50 -1.0
1.4s 24.00nm 4.9mb
GTA 36.79 5 P 26 15.80 -0.5
1.0s 14.00nm 4.8mb
pP 26 22.50 23km
TIA 38.72 28 eP 26 32.70 0.2
BJI 41.51 24 eP 26 56.00 0.6
1.1s 14.00nm 4.6mb
WRA 43.82 123 P 27 14.10 -0.5
0.7s 0.80nm 3.6mb X
WB2 43.83 123 eP 27 15.50 0.8
0.7s 3.00nm 4.2mb
GEC2 82.95 319 ePd 31 32.50 -0.5
0.9s 1.84nm 4.2mb
eP 31 39.90 23km
e 31 45.00
HFS 83.89 330 eP 31 36.30 -1.1
0.4s 0.90nm 4.3mb
S.D. = 1.1 on 20 of 20 obs.

APR 20, 1993 13h 42m 09.80 ± 0.46s
34.011 N ± 6.4km 26.120 E ± 4.4km
DEPTH = 33.0km (normal)
4.3mb (6 obs.)

CRETE (370)
MD 4.3 (HLW).

NPS 1.32 342 ePb 42 33.50 1.5
VLI 3.75 317 ePn 43 08.10 1.4
CIN 3.92 23 iPc 43 10.00 0.8
ELL 4.13 47 iPn 43 13.80 1.6
ATH 4.41 334 ePn 43 17.40 1.3
IZM 4.47 12 iP 43 18.10 1.0
BCK 5.01 45 iP 43 25.70 1.0
KHL 5.11 32 ePn 43 16.00 -10.1X
PPCY 5.22 79 eP 43 27.00 -0.5
eS 44 22.40
PRK 5.23 1 ePn 43 27.90 0.2
AGG 5.86 330 ePn 43 36.48 -0.2
eSn 44 45.04
DST 5.93 19 eP 43 36.90 -0.8
ALT 5.97 31 eP 43 36.00 -2.3
CSS 6.03 79 eP 43 37.50 -1.6
eS 44 43.10
HLW 6.07 132 eP 43 41.50 1.9
eS 44 40.50
VLS 6.11 314 ePn 43 42.30 2.1
PAIG 6.22 342 ePn 43 41.85 0.2
OUR 6.54 345 ePn 43 45.84 -0.3
FAM 6.58 79 eP 43 47.20 0.5
eS 44 58.00
LIT 6.74 336 ePn 43 48.50 -0.4
eSn 45 06.88
ALN 6.87 360 ePn 43 50.76 -0.1
SOH 7.15 343 ePn 43 54.60 -0.1
KZN 7.18 332 ePn 43 56.30 1.1
IGT 7.21 322 iPn 43 54.00 -1.5
GRG 7.54 338 ePn 44 00.08 -0.1
KEK 7.62 320 ePn 43 59.50 -1.8
ADI 7.66 94 eP 44 00.60 -1.3
ZNT 7.68 101 iPd 44 00.70 -1.5
eS 45 20.90
ATZ 7.74 96 eP 44 01.20 -1.8
eS 45 22.70
FNA 7.74 332 ePn 44 03.00 -0.1
VAY 7.82 340 iPn 44 15.60 11.5X
HRI 8.06 93 eP 44 05.50 -2.0
SHMJ 8.17 96 P 43 57.77 -11.2X
MKT 8.22 109 eP 44 08.50 -1.2
eS 45 34.50
OHR 8.25 331 iPn 44 06.20 -3.9X
SALJ 8.28 101 P 43 59.50 -11.0X
BURJ 8.31 100 P 43 59.59 -11.5X
KFNJ 8.31 102 P 43 59.53 -11.4X
LISJ 8.36 107 P 44 00.63 -11.0X
MASJ 8.39 103 P 44 00.71 -11.4X
MBH 8.56 117 eP 44 14.30 -0.2
JRSJ 8.58 113 P 44 00.05 -14.7X
JRJD 8.71 109 P 44 08.01 -8.6X
SHWJ 8.73 112 P 44 06.59 -10.4X
SKO 8.76 336 iP 44 27.80 10.6X
MDSJ 8.85 103 P 44 07.70 -10.8X

NAQJ 8.91 114 P 44 09.64 -9.8X
MRSJ 8.93 116 P 44 08.76 -10.9X
HQL 8.96 119 eP 44 19.66 -0.2
iS 45 55.00
LCI 9.07 316 P 44 18.50 -2.9X
SOI 9.10 299 P 44 21.80 0.0
SRFA 9.25 121 P 44 23.33 -0.6
HITJ 9.29 115 P 44 14.31 -10.3X
BADA 9.36 123 P 44 24.33 -1.1
eS 45 50.00
CSTJ 9.36 105 P 44 14.00 -11.5X
MDRJ 9.43 116 P 44 15.79 -10.7X
ROI 9.46 309 P 44 24.80 -2.0
CZI 9.56 306 P 44 27.10 -1.1
ATN 9.57 299 P 44 28.50 0.2
MEU 9.62 292 P 44 29.50 0.3
TDS 9.65 309 P 44 28.40 -1.1
CSI 9.75 309 P 44 32.40 1.6
BRT 9.86 317 P 44 29.90 -2.4
AYN 9.87 119 P 44 32.67 0.2
MMN 10.00 309 P 44 32.20 -2.1
MNO 10.05 296 P 44 35.30 0.2
MGR 10.42 309 P 44 37.80 -2.2
SGO 10.81 310 P 44 43.50 -1.7
MLR 11.47 359 eP 45 00.00 5.6X
HVAR 11.87 323 ePn 44 54.20 -5.4X
iSn 46 58.20
VBY 14.18 327 iP 45 27.50 -2.7X
CEY 14.74 326 e(P) 45 34.50 -3.1X
e 45 38.00
e 45 43.50
eS 48 12.00
VOY 15.20 326 e(P) 45 41.30 -2.4
e 45 48.40
e(S) 48 19.20
e 48 22.00
KBA 16.24 327 eP 45 56.00 -1.1
i(Sg) 46 03.80
GEC2 17.47 332 eP 46 23.90 11.5X
0.4s 2.52nm
e 46 26.80
OSS 17.52 321 P 46 17.70 4.5X
KHC 17.75 332 eP 46 29.50 13.7X
1.0s 5.40nm
TMA 17.85 318 P 46 18.38 1.1
LLS 18.25 320 P 46 23.25 1.0
MMK 18.33 316 P 46 25.25 1.9
DIX 18.67 316 P 46 30.96 3.5X
EMS 18.94 315 P 46 33.02 2.3
ZLA 18.95 321 P 46 30.97 0.3
CLL 19.74 335 e(P) 46 42.00 2.4
CDF 20.12 321 Pn 46 44.00 0.3
HAU 20.37 319 Pn 46 45.80 -0.3
OBN 22.32 16 eP 47 06.00 0.2
1.0s 21.00nm 4.5mb
e 47 19.00
e 47 32.00
NUR 26.53 358 eP 47 44.90 -1.0
HFS 27.37 346 eP 47 52.30 -1.4
0.4s 5.30nm 4.5mb
Z 14s 0.05um 3.2mszX
LR 58 22.00
KAF 28.12 0 iP 47 59.10 -1.3
0.4s 3.60nm 4.4mb
NB2 28.71 345 P 48 04.30 -1.5
0.4s 0.60nm 3.6mb
BCAO 30.26 195 iPc 48 24.70 4.6X
0.2s 11.00nm 5.3mb X
KIC 39.65 233 P 49 44.30 3.9X
HYB 49.52 96 eP 51 01.50 2.0
GKN 49.94 80 P 51 04.40 1.6
0.6s 32.00nm 5.5mb X
DMN 50.47 80 P 51 08.80 1.9
0.8s 38.00nm 5.4mb X
KKN 50.54 80 P 51 09.00 1.6
0.6s 33.00nm 5.5mb X
GBA 50.58 101 P 51 11.00 3.5X
PKI 50.73 80 P 51 10.00 1.0
0.8s 30.00nm 5.3mb X
GUN 50.99 80 P 51 12.60 1.6
0.8s 43.00nm 5.5mb X
MBC 67.87 352 eP 53 07.50 1.1
YKA 78.78 343 eP 54 11.50 1.2
0.6s 1.20nm 4.1mb
IMA 80.24 360 (P) 54 20.60 2.3
1.2s 2.27nm 4.0mb
S.D. = 1.4 on 72 of 103 obs.

% APR 20, 1993 13h 55m 36.61±1.18s
45.138 N ± 8.4km 7.665 E ± 8.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

RSP	0.29	273	P	55	43.55	0.8
			S	55	48.34	
BHB	0.41	224	P	55	45.91	0.9
			S	55	51.13	
LSO	0.48	312	P	55	45.77	-0.7
			S	55	52.05	
RRL	0.66	251	P	55	49.99	0.0
			S	55	59.32	
ROB	0.86	170	P	55	53.86	0.7
			S	56	05.77	
PCP	0.86	133	P	55	53.83	0.5
			S	56	06.37	
STV	0.93	195	P	55	52.73	-1.6
			S	56	04.36	
ENR	0.93	191	P	55	53.60	-0.8
			S	56	05.09	
IMI	1.24	172	P	55	59.74	0.1
			S	56	15.57	

S.D. = 1.0 on 9 of 9 obs.

? APR 20, 1993 14h 07m 06.81±2.00s
22.927 S ±19.9km 71.895 W ±17.6km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
OFF COAST OF NORTHERN CHILE (121)

YJA	5.96	84	eP	08	36.50	1.0
ARE	6.44	3	eP	08	41.00	-1.2
			eS	09	50.00	
CNCB	7.11	32	P	08	54.80	3.0X
			i	10	13.00	
LPB	7.30	30	eP	08	53.00	-1.2
Z	20s		0.85um			
			LR	01	38.00	
ZOBO	7.52	29	P	08	59.60	2.1
Z	22s		0.42um			
			LR	15	01.00	
SIV	12.32	58	P	10	11.80	9.0X
PPD	19.04	91	eP	11	27.50	-1.5
FVM	63.04	344	eP	17	33.00	0.1
	1.2s		10.29nm			4.8mb
YKA	91.63	342	eP	20	12.00	0.7
	0.6s		0.30nm			3.9mb
GBA	149.49	102	PKP	26	56.00	5.7X

S.D. = 1.7 on 7 of 10 obs.

* APR 20, 1993 14h 45m 34.73±0.88s
10.316 N ±18.6km 83.656 W ±9.5km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
COSTA RICA (78)
Felt in much of Costa Rica.

SDV	12.92	95	eP	48	39.20	0.2
TOV	13.66	91	eP	48	48.00	-0.7
OXX	14.36	299	(P)	48	57.00	-1.0
IISM	15.82	305	(P)	49	15.00	-1.7
CAR	16.46	88	iP	49	28.00	3.0X
PPM	16.88	303	(P)	49	32.00	1.2
III	17.28	299	(P)	49	36.00	0.6
MRX	19.32	301	(P)	49	59.50	-0.7
CEH	25.79	9	eP	51	13.71	9.2X
LTX	26.61	318	eP	51	12.40	0.2
SIV	34.40	139	P	52	22.00	0.7
TNP	40.85	318	(P)	53	18.79	3.3X
	0.7s		1.56nm			3.9mb
ULM	41.07	348	eP	53	18.00	1.2
BGMT	42.47	330	eP	53	33.40	4.8X
JAO	43.83	7	eP	53	39.00	-0.3
FCC	48.99	353	eP	54	22.00	2.1
FRB	54.42	8	eP	54	59.00	-1.7
YKA	56.67	343	eP	55	13.50	-3.5X
	0.8s		1.00nm			3.9mb
INK	66.36	342	eP	56	23.00	0.9
MBC	68.65	351	eP	56	37.00	0.6
NB2	83.41	29	P	58	05.40	5.4X
	0.9s		3.40nm			4.5mb
CLL	86.17	39	e(P)	58	18.00	4.1X
GEC2	87.12	41	ePd	58	17.10	-1.7
	1.3s		1.73nm			4.1mb

e 58 20.10
e 58 24.90
e 58 29.10
WRA 142.17 251 PKP 04 57.50 -8.9X
0.8s 0.80nm
S.D. = 1.2 on 16 of 24 obs.

? APR 20, 1993 14h 46m 58.13±1.12s
32.740 S ±15.1km 138.702 E ±12.6km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF AUSTRALIA (600)

STK	2.59	71	iPd	47	42.00	1.2
			eS	48	13.90	
BFD	5.43	146	eP	48	22.00	0.9
			eS	49	12.00	
CMS	6.17	80	eP	48	29.00	-2.5X
			eS	49	36.50	
BWA	8.28	104	eP	48	59.30	-1.9
			eS	50	31.20	
CAN	8.93	110	eP	49	03.90	-6.2X
			eS	50	42.00	
ASPA	9.98	334	eP	49	28.90	4.3X
			eS	51	16.40	
WARB	12.37	299	eP	49	57.00	-0.1
	0.4s		1.00nm			4.4mb
			eS	52	16.00	
WB2	13.32	342	eP	50	09.80	-0.1
			eS	52	40.10	

S.D. = 1.7 on 5 of 8 obs.

& APR 20, 1993 14h 55m 18.26s
59.793 N 153.667 W
DEPTH = 123.7km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.26	122	iP	55	34.92	0.7
			eS	55	48.09	
PDB	0.27	269	eP	55	35.09	0.9
INW	0.39	44	iP	55	35.40	-1.0
			eS	55	49.43	
INE	0.41	48	iP	55	35.62	-0.9
			eS	55	49.82	
AUL	0.43	164	iP	55	35.71	-0.8
AUW	0.44	167	iP	55	35.61	-0.9
AUH	0.45	165	eP	55	36.20	-0.4
AUE	0.46	161	iP	55	35.65	-1.0
AUI	0.48	165	iP	55	35.86	-0.8
MCNL	0.70	210	iP	55	37.39	-0.9
			eS	55	51.89	
RS1	0.81	34	eP	55	38.50	-0.9
RS2	0.81	34	eP	55	38.82	-0.6
			eS	55	54.28	
RSO	0.81	34	eP	55	38.85	-0.6
			eS	55	54.25	
REF	0.85	34	eP	55	38.86	-0.9
NCT	0.85	25	eP	55	39.04	-0.6
			eS	55	54.34	
DFR	0.94	31	eP	55	39.82	-0.6
			eS	55	56.49	
CNPM	1.26	101	iP	55	41.72	-1.9
SYI	1.36	150	iP	55	42.55	-2.1
BRK	1.41	90	eP	55	44.36	-0.9
			eS	56	01.66	
NKA	1.54	51	eP	55	47.48	0.8
CKL	1.55	24	iP	55	46.63	-0.4
CKT	1.59	26	eP	55	46.74	-0.7
BGL	1.60	23	eP	55	47.46	-0.2
SFU	1.61	29	eP	55	46.88	-0.7
CP2	1.64	25	eP	55	47.31	-0.8
CPAM	1.65	27	eP	55	47.69	-0.5
CRP	1.66	26	eP	55	47.03	-1.3
SLKM	1.87	66	eP	55	49.20	-1.5
KDC	2.14	163	eP	55	50.40	-3.7
SEW	2.15	80	eP	55	51.74	-2.4
SUA	2.21	39	iP	55	54.46	-0.7
			eS	56	22.40	
MPA	2.26	70	eP	55	53.85	-1.8
SKT	2.43	25	eP	55	57.15	-0.7
PMS	2.50	53	eP	55	57.04	-1.7
PTE	2.55	63	eP	55	57.03	-2.3

35 obs. associated

APR 20, 1993 15h 24m 00.42±0.68s
26.836 S ± 6.1km 26.801 E ± 8.0km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)
ML 3.4 (PRE). mbLg 3.1 (BUL).

BFS	0.06	193	iPd	24	03.40	1.2
			S	24	04.60	
PRY	0.61	99	iPc	24	12.00	-0.6
			S	24	19.00	
KSR	0.97	5	eP	24	19.00	-0.5
			S	24	31.00	
SWZ	1.36	255	eP	24	27.00	0.9
			S	24	45.30	
SEK	1.65	154	eP	24	30.70	0.4
			S	24	51.70	
SLR	1.72	51	iPd	24	33.00	1.6
			S	24	54.20	
BLF	2.33	193	eP	24	39.20	-0.9
			S	25	08.00	
FRS	3.18	204	eP	24	45.80	-6.3X
FRS	3.18	204	eP	24	50.70	-1.4
			S	25	24.00	
BUL	6.87	14	iPn	25	43.70	-0.7
			iSn	26	56.00	
			iSg	27	32.90	
CER	9.19	223	e(P)	26	03.00	-13.7X
			S	27	45.00	

S.D. = 1.2 on 9 of 11 obs.

? APR 20, 1993 15h 44m 27.56±0.73s
3.427 S ±10.9km 139.516 E ±10.0km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
IRIAN JAYA, INDONESIA (201)

MNDI	4.94	123	eP	45	43.00	1.4
MDG	6.50	106	eP	46	02.90	-0.6
MTN	12.50	221	iPc	47	27.20	1.1
			iS	49	43.50	
KNA	16.18	220	eP	48	16.40	2.2
	0.4s		30.00nm			4.8mb
			eS	51	11.00	
WB2	17.17	197	eP	48	25.30	-1.4
			eS	51	24.40	
ASPA	20.84	195	iPd	49	07.30	-1.8
			eS	52	53.40	
WARB	25.78	207	eP	49	55.50	-1.8
	0.4s		4.00nm			4.4mb
			eS	54	47.00	
BRS	26.99	153	e(P)	50	10.00	1.5
GUN	60.26	305	P	54	35.80	0.0
PKI	60.52	304	P	54	36.60	-1.0
KKN	60.70	304	P	54	39.00	0.3
DMN	60.78	304	P	54	39.20	-0.1
GKN	61.31	304	P	54	44.20	1.4
CNCB	146.20	127	ePKP	04	18.00	11.1X
ZOBO	146.39	126	PKP	04	06.00	-1.2

S.D. = 1.5 on 14 of 15 obs.

? APR 20, 1993 15h 58m 03.89±1.92s
15.014 S ±63.4km 173.799 W ±51.2km
DEPTH = 38.

SOUTHERN ALASKA <AEIC>						(2)	CCB	5.12	25	iPd	12	40.42	-2.9				e	32	54.80							
							CYK	5.22	86	eP	12	42.89	-1.8				eS	33	24.80							
							BALM	5.30	75	eP	12	42.48	-3.3				e	36	46.30							
INE	0.10	228	iPc	11	43.03	0.6	MDM	5.31	22	iPd	12	43.48	-2.5	MTW	20.80	192	P	30	20.80	-1.4						
							FBA	5.35	24	ePd	12	43.23	-3.2				e	31	32.30							
INW	0.12	242	iPc	11	43.08	0.7	DOT	5.48	46	eP	12	45.76	-2.5	CAW	20.85	193	P	30	21.50	-1.1						
RS1	0.35	14	iPc	11	43.99	-0.8	GLM	5.51	25	iPd	12	45.83	-2.8				e	31	33.00							
RSO	0.35	14	iPc	11	43.96	-0.9	YAH	5.57	83	iPc	12	47.89	-1.9	MRW	21.04	194	P	30	23.30	-1.1						
RS2	0.35	13	iPc	11	43.97	-0.9	CTGM	5.78	77	ePc	12	50.56	-2.0				eS	33	36.80							
RDN	0.40	11	iPc	11	44.24	-0.8	IMA	5.98	357	ePd	12	52.21	-3.0	SNZO	21.12	194	eP	30	24.25	-0.8						
							SDN	6.28	224	P	12	56.20	-3.0	QRZ	21.24	199	P	30	26.50	0.4						
NCT	0.44	359	iPc	11	44.36	-0.8	PCA	6.33	85	ePc	12	57.57	-2.5	THZ	22.00	197	P	30	31.90	-1.1						
							BCPM	6.66	86	eP	13	02.21	-2.2				eS	33	52.80							
DFR	0.48	14	iPc	11	44.41	-1.0	PNL	6.82	88	iPd	13	03.84	-2.8	DSZ	22.30	199	P	30	15.60	-20.2X						
OPT	0.50	198	iPd	11	44.72	-0.7	HQN	7.12	89	eP	13	07.42	-3.3				e	31	41.50							
PDB	0.72	243	iPd	11	46.17	-0.9	FYU	7.33	25	ePc	13	09.82	-3.6				e	32	15.50							
							SIT	9.68	101	eP	13	41.64	-3.6	KHZ	22.44	195	P	30	35.80	-1.2						
AUL	0.79	199	iPd	11	46.85	-0.8	INK	11.72	37	eP	14	10.50	-1.6				eS	33	58.60							
								0.7s	3.00nm			4.1mb	X	Ltz	23.12	197	P	30	41.20	-1.9						
AUE	0.80	197	iPd	11	46.72	-1.0	YKA	18.36	66	eP	15	32.30	-3.3				e	31	47.90							
AUW	0.81	200	iPd	11	47.04	-0.8		0.4s	2.40nm			3.8mb					eS	34	09.70							
AUH	0.81	199	iPd	11	47.05	-0.9	MBC	19.89	23	eP	15	48.00	-3.6	HNR	23.51	296	eP	30	44.00	-2.8						
AUI	0.83	198	iPd	11	47.06	-1.0		0.6s	2.00nm			3.7mb		MOZ	23.88	196	eP	30	48.80	-1.0						
							PV09	34.89	108	(P)	18	02.57	-7.2	8WZ	25.41	199	P	31	01.70	-1.6						
									e	18	36.52					e	32	06.20								
XLV	0.91	137	ePc	11	47.63	-1.1	91 obs. associated													ODZ	25.66	198	eP	31	04.50	-1.0
							APR 20, 1993 16h 26m 19.50±0.08s													MSCZ	26.06	199	P	31	08.10	-1.0
NKA	1.04	53	iPc	11	50.84	0.8	20.883 S ± 2.6km 178.699 W ± 2.8km													MHZ	26.08	200	P	31	08.00	-1.3
CNPM	1.04	125	iPc	11	49.17	-1.0	DEPTH = 591.8km (16 depth phases)													SBCZ	26.10	200	P	31	08.30	-1.1
							5.6mb (80 obs.)																e	32	11.90	
BRLK	1.09	109	eP	11	49.90	-0.7	FIJI ISLANDS REGION (181)													LSCZ	26.10	199	P	31	08.40	-1.0
							Mw 5.8 (HRV). mb 5.7 (BRK).																e	32	10.40	343kmX
CKL	1.11	15	iPd	11	50.25	-0.7	CENTROID, MOMENT TENSOR (HRV)													CMCZ	26.16	200	P	31	08.80	-1.2
CKT	1.14	18	iPd	11	50.36	-0.8	Data Used: GDSN																e	32	43.30	
SPU	1.14	22	iPd	11	50.35	-0.9	L.P.B.: 38S, 71C																e	32	12.20	
CKN	1.16	18	iPd	11	50.82	-0.6	Centroid Location:																e	32	42.20	
BGL	1.17	13	iPd	11	51.07	-0.5	Origin Time 16:26:24.3 0.2													MSZ	26.18	202	P	31	10.50	0.4
MCNL	1.19	218	iPd	11	50.41	-1.2	Lot 20.70S 0.02 Lon 178.56W 0.02													TLC	26.26	200	P	31	09.90	-1.0
							Dep 599.9 1.3 Half-duration 2.0																e	32	13.90	
CP2	1.19	16	iPd	11	51.07	-0.9	Moment Tensor; Scale 10**17 Nm													TUZ	26.78	198	P	31	15.60	0.4
CPAM	1.20	18	iPd	11	51.23	-0.6	Mrr=-3.56 0.08 Mtt= 2.61 0.12																e	32	19.00	348kmX
CRP	1.21	18	iPd	11	50.81	-1.2	Mff= 0.95 0.12 Mrt=-3.86 0.12													BRS	26.79	250	iPd-	31	17.20	1.6
CGLM	1.27	20	eP	11	51.99	-0.7	Mrf=-0.80 0.11 Mtf=-2.99 0.12														1.0s	32.00nm			4.9mb	
SLKM	1.40	73	iPc	11	52.41	-1.7	Principal Axes:																i	31	26.20	32kmX
SYI	1.54	170	iPd	11	54.26	-1.5	T Vol= 5.72 Plg=18 Azm=209																i	32	15.00	
							N 0.32 28 110																e	34	00.00	
SVW	1.66	308	iPd	11	55.52	-1.7	P -6.04 56 328																iS	35	10.00	
SUA	1.72	38	iPd	11	57.18	-0.8	Best Double Couple:Mo=5.9*10**17																eScP	41	04.00	
SEW	1.74	89	ePc	11	56.03	-2.1	NP1:Strike=335 Dip=37 Slip=-38																ePcS	41	38.00	
MPA	1.81	77	iPc	11	57.39	-1.6	NP2: 98 68 -120																eS	43	43.00	
SKT	1.98	19	iPd	11	59.96	-1.2														8CZ	27.38	201	P	31	21.00	0.5
							MBU	4.59	327	eP	27	49.30	0.1	AFR	27.50	88	iPc	31	21.00	-0.7						
PMS	2.00	54	iPc	11	59.90	-1.5	PVC	12.65	282	iPc	29	09.00	4.3X		0.9s	268.60nm			5.9mb							
PTE	2.07	67	ePc	11	59.96	-2.3			iS	31	32.50		PAE	27.66	88	iPc	31	22.30	-0.8							
PWA	2.13	43	P	12	01.60	-1.5	BKM	12.74	282	iPc	29	08.80	3.2X		0.6s	90.20nm			5.6mb							
PLRM	2.37	50	eP	12	04.80	-1.3			iS	31	31.00		PPT	27.68	88	iPc	31	22.70	-0.7							
PMR	2.37	50	eP	12	03.70	-2.4	DZM	13.88	262	iPc	29	17.90	1.0		0.8s	159.00nm			5.7mb							
								iS	31	44.00		PPN	27.82	88	iPc	31	23.80	-0.8								
KDC	2.39	174	ePd	12	03.35	-3.1	OUZ	15.81	204	P	29	39.40	4.0X		0.6s	55.00nm			5.4mb							
GHO	2.56	48	ePd	12	06.43	-2.3			e	31	31.60		TVO	27.94	89	iPc	31	25.50	-0.2							
SML	2.80	51	ePd	12	09.49	-2.5	WCZ	16.19	201	P	29	43.30	4.2X		0.5s	64.40nm			5.5mb							
TTA	3.18	334	ePd	12	14.76	-2.3	KUZ	16.54	196	Pc	29	45.40	3.0	SIZ	28.06	199	P	31	27.00	0.7						
HIN	3.21	82	ePc	12	13.75	-3.6			e	31	38.10		ARMA	28.31	244	iPc	31	30.30	1.4							
SCM	3.22	55	ePc	12	14.94	-2.6			eS	32	33.40			0.9s	221.00nm			5.8mb								
																iScP	37	12.00								
HUR	3.27	27	eP	12	16.44	-1.7	HBZ	16.86	188	eP	29	45.60	0.1				iPc	31	40.10	0.4						
VLZ	3.40	70	eP	12	16.93	-2.9	PUZ	17.33	188	P	29	49.80	-0.3	RIV	29.60	238	iPc	31	40.10	0.4						
MID	3.40	99	P	12	18.10	-1.8	WLZ	17.64	195	Pd	29	55.30	2.4				e	33	16.40							
TRF	3.56	19	iPc	12	20.35	-2.0			eS	32	46.90					ePcP	34	26.80								
CVA	3.59	80	iPc	12	20.23	-2.2	URZ	17.69	191	P	29	51.70	-1.7				eS	35	59.00							
KLU	3.69	65	iPc	12	21.00	-3.0			eS	32	43.50					eScP	37	15.30								
RND	3.82	29	iPc	12	23.48	-2.2			e	36	39.00		PMO	29.85	84	iPc	31	41.20	-0.8							
SGAM	3.86	81	eP	12	22.85	-3.2	TAZ	17.78	192	P	29	55.30	1.0		1.1s	188.00nm			5.6mb							
MCK	4.08	26	eP	12	27.38	-1.8	NOZ	17.90	188	P	29	54.70	-0.7	VAH	30.03	84	iPc	31	42.70	-0.9						
RAGM	4.12	83	eP	12	27.21	-2.5			eS	32	47.20			0.9s	117.30nm			5.5mb								
TZL	4.12	59	eP	12	29.69	0.0			e	36	42.20		TPT	30.11	84	iPc	31	43.60	-0.7							
KAIM	4.27	89	eP	12	29.72	-2.0	PATZ	17.98	193	eP	29	57.10	0.9		0.9s	182.80nm			5.7mb							
SDG	4.29	53	eP	12	31.47	-0.6	MOZ	18.44	196	P	30	02.90	2.5	RMQ	30.27	253	iPc	31	47.00	1.4						
PAX	4.57	48	ePd	12	33.49	-2.4			e	31	49.40			0.6s	68.00nm			5.5mb								
GLB	4.66	70	iPc	12	33.87	-3.2	MAHZ	18.48	188	eP	30	02.30	1.4	RUV	30.28	84	iPc	31	44.90	-0.7						
THY	4.74	43	eP	12	37.03	-1.2	NGZ	18.88	194	eP	30	04.20	-0.6		0.9s	216.20nm			5.8mb							
NEA	4.81	20	iPd	12	36.74	-2.4	CNZ	18.91	194	P	30	04.20	-0.8	CNB	31.47	236	iPd	31	57.30	1.6						
CROM	4.89	78	iPc	12	38.09	-2.2	WAHZ	19.23	192	eP	30	06.10	-1.7		0.7s	288.00nm			6.0mb							
WRH	4.91	25	eP	12	37.77	-2.6	NRZ	19.45	197	eP	30	12.40	2.6				iScP	37	22.20							
MLY	5.03	11	eP	12	39.05	-3.0	PGZ	20.13	191	P	30	14.60	-1.5	CAN	31.75	236	iPc	31	59.50	1.5						
SNH	5.04	85	eP	12	40.50	-1.7			e	32	56.20					ePp	32	05.00	19kmX							
TGL	5.04	78	iPc	12	39.92	-2.4	MNG	20.29	193	P	30	15.70	-1.8				ePP	33	36.70							
HDA	5.12	30	iPd	12	40.73	-2.6																				

BWA	31.94	238	iPcP	33	42.20		KUMJ	71.76	317 P	36	44.00	-0.5	MAW	80.98	200 P	37	36.40	2.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iScP	37	22.70		YONJ	71.89	320 P	36	45.10	-0.1	GSC	81.00	47 iPd	37	34.90	0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iPc	31	58.80	-0.8	HOOJ	72.07	331 P	36	46.50	0.5	GLA	81.17	50 iPc	37	36.65	1.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			ePP	33	35.00		ADK	72.47	1 iPd	36	46.19	-1.9	MRCM	81.19	44 iPd	37	36.43	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iPcP	33	42.00			0.6s	220.44nm			5.9mb	LBFM	81.24	40 iPd	37	36.60	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CTA	32.80	265	iScP	37	22.50		SMY	73.57	355 iPd	36	52.42	-1.9	KDC	81.33	14 eP	37	35.40	-0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iP	32	05.00	-1.9		0.8s	296.51nm			5.9mb	BONR	81.48	44 iPd	37	37.97	0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			eP	32	08.19	1.3	QZH	76.08	304 iPd	37	09.00	0.2			ePP	39	44.76	597km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iPc	32	13.10	1.2		1.3s	280.00nm			5.6mb	DL2	81.56	317 P	37	38.00	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			0.8s		223.00nm					5.8mb	SSE	77.43	310 Pc	37	15.60	-0.4		1.0s		90.00nm		5.3mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
OQP	34.32	253	iPP	32	25.80	49kmX		1.0s		63.00nm			5.0mb			sP	40	44.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			ePP	33	28.20				S	46	20.00				S	47	00.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			eS	37	29.00		SDN	77.49	11 eP	37	14.60	-1.1	SNY	82.08	320 iPd	37	40.00	0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iPc	32	20.50	1.0		0.6s	356.60nm			6.0mb		1.0s		80.00nm		5.2mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			iPcP	33	55.30		PRS	78.55	44 iPd	37	22.77	0.9			pP	39	47.00	597km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
PMG	34.79	284	eP	32	24.00	0.5	JEGM	78.56	42 iPd	37	22.40	0.6	WHN	82.14	307 Pd	37	41.50	1.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			STK	37.04	244 P	32	41.90	0.1	GCC	78.56	43 iPd	37	22.76	0.9			S	47	00.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			BFD	37.28	236 iPc	32	44.90	1.2	PCC	78.60	42 iPd	37	22.92	0.9			sP	40	42.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				1.0s		68.00nm				5.2mb	STAN	78.67	43 ePd	37	23.00	0.6			S	47	05.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					iScP	37	42.30			1.1s	320.00nm			5.7mb	CN2	82.20	323 iPd	37	40.80	0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
MCO	37.60	201	P	32	49.50	3.5X	BCH	78.72	45 iPd	37	23.63	0.7		1.0s		180.00nm		5.6mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			ADE	39.86	240 iPc	33	05.70	0.9	SAO	78.76	44 ePd	37	23.59	0.7			ePP	39	47.00	592km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			ASPA	43.80	257 P	33	37.00	1.1		0.8s	188.13nm			5.6mb			eSP	40	43.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			WB2	43.89	263 iPc	33	36.40	-0.2	PHAM	78.89	45 eP	37	24.22	0.6	KVN	82.24	43 iPd	37	41.47	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				0.3s		115.70nm				5.9mb	PRI	78.89	44 iPd	37	24.86	1.1	TNP	82.26	44 iPd	37	41.65	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
WRA	43.90	263	P	33	36.80	0.1	COE	78.90	43 iPd	37	24.68	1.0		0.8s		89.81nm		5.4mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				0.9s		21.20nm		4.7mb	BKS	78.92	42 iPd	37	24.39	0.7	TPNV	82.28	46 iPd	37	42.17	1.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
										5.7mb			eSP	40	29.09		IPM	82.57	278 ePd	37	44.10	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
												ePP	40	27.09		TIA	83.05	313 Pd	37	45.50	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
												eS	46	49.09			1.3s		230.00nm		5.6mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
MHA	46.51	30	eP	33	55.56	-1.0				eScS	46	58.09				sP	40	50.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			DHH	46.60	27 iPd	33	56.09	-1.2			esS	50	13.09				S	47	11.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			KIP	46.65	27 eP	33	56.41	-1.2	ZSP	78.95	42 iPd	37	24.90	1.1	BMW	83.67	35 iPd	37	48.28	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			OPA	46.89	27 eP	33	57.03	-2.4	NTYM	78.97	42 eP	37	24.08	0.2	TUC	83.73	52 iPd	37	49.62	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			MTN	48.51	271 iPd	34	11.30	-0.6	MHC	78.97	43 iPd	37	24.99	0.8		0.7s		149.75nm		5.7mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
FORT	48.54	247	iPc	34	11.90	0.0		1.0s		200.00nm			5.5mb	RSO	83.75	13 ePd	37	46.09	-1.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				0.5s		53.00nm			5.3mb	LLA	78.99	44 iPd	37	25.10	0.9	SVW	83.80	11 iPd	37	47.11	-0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			GUA	49.48	311 eP	34	18.30	-0.6	ARN	79.05	43 iPd	37	25.38	0.9		0.9s		101.27nm		5.4mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				1.1s		1762.03nm		6.5mb	GZH	79.34	300 P	37	27.00	0.8	SNG	83.90	280 eP	37	52.00	2.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			GUMD	49.55	311 eP	34	18.30	-1.1		1.0s		210.00nm			5.5mb		1.0s		216.00nm		5.7mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PJG	49.55	311	e	34	45.10	114kmX				S	46	42.00		SLKM	84.33	14 iPd	37	49.33	-1.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				0.4s								ePP	39	56.08	591km			eP	37	51.27	-0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
												eS	40	43.00		VGB	84.42	37 eP	37	51.27	-0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
												e(S)	40	43.00		GMW	84.58	34 eP	37	52.48	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
																CP2	84.59	12 (P)	37	50.95	-1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
KNA	49.96	267	iPd	34	22.60	0.1	EKR	79.51	39 iPd	37	27.99	1.3	CRP	84.61	13 iPd	37	50.17	-2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			WARB	50.09	253 iPc	34	23.30	-0.1	NJ2	79.62	310 Pd	37	28.00	0.5			ePP	39	56.23	586km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				0.4s								1.1s		310.00nm			5.2mb	LON	84.61	35 iPd	37	52.31	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
																PP	40	37.00		ARUT	84.61	46 eP	37	53.29	0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																S	46	43.00		PGC	84.94	33 eP	37	54.50	0.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
SWI	52.71	286	iPd	34	41.00	-1.5	FHC	79.66	39 iPc	37	28.91	1.3	MCW	85.27	33 iPd	37	55.97	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			DRV	52.78	199 iP	34	43.40	1.2	SSK	79.79	47 eP	37	28.90	0.3	TTA	85.43	10 ePd	37	55.39	-0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			COOL	54.47	246 eP	34	54.30	-0.4	PLM	79.89	49 iPd	37	29.72	0.6		1.4s		161.55nm		5.5mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			MEEK	57.17	251 iPd	35	12.90	-0.5	PEC	79.98	48 iPd	37	29.50	0.1								ePP	40	01.74	586km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				0.6s		26.00nm		4.7mb		0.9s		85.64nm			5.2mb	PMR	85.54	14 iPc	37	55.11	-1.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
KLB	57.30	245	eP	35	14.20	0.1		80.01	44 iPd	37	29.98	0.6	ISA	80.07	46 iPd	37	30.30	0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				0.3s		11.00nm		4.6mb		1.8s		443.70nm			5.6mb			ePP	39	36.60	597km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			NWAO	57.61	244 eP	35	16.90	0.6	CMB	80.19	43 iPd	37	30.62	0.2		1.1s		150.00nm		5.3mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			RKG	57.66	242 iPd	35	17.60	1.0										ePP	40	36.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				0.6s		38.00nm		4.8mb											eS	46	48.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
BAL	58.30	246	eP	35	21.00	0.0				eScS	46	58.68				eScS	50	30.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			MUN	58.57	245 eP	35	23.30	0.6				eSS	53	00.68				eSS	56	04.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			MRWA	59.10	248 eP	35	26.40	0.2				eSSS	59	10.68								eS	47	46.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				0.6s		29.00nm		4.7mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

NST	87.53	288	eP	38	09.00	2.3	GAC	113.74	48	ePKP	43	52.50	-0.5	DMU	146.45	9	iPKPd	44	55.30	1.8
LTX	87.81	58	iPd	38	08.96	0.9	JAO	114.20	39	ePKPc	43	51.50	-2.1	PPE	146.83	326	ePKPc	44	57.50	3.2X
			(pP)	40	17.17	593km	KSH	114.56	305	PKP	43	55.40	0.5	DCN	146.93	9	iPKPd	44	54.60	0.3
EBI	87.82	38	iPd	38	07.22	-0.6	FRB	117.43	28	ePKP	43	58.00	-1.4		0.6s	438.00nm				
XAN	87.84	308	iPd	38	08.10	0.1	BAO	119.52	123	ePKP	44	04.20	-0.8	PTT	146.98	328	ePKP	44	53.00	-1.6
	1.0s	170.00nm				5.8mb	VTY	119.77	232	ePKP	44	06.10	0.7	DLF	147.09	9	iPKPd	44	57.30	2.8
		pP	40	17.00	597km		OPD	120.47	232	ePKP	44	07.50	0.7		0.9s	648.00nm				
PPM	87.86	69	(P)	38	10.50	1.6	QUE	120.74	293	ePKP	44	08.00	0.9	HRI	147.10	299	ePKP	44	54.10	-1.2
PV09	87.91	47	iPd	38	08.85	0.3	LMN	121.21	48	ePKP	44	09.00	1.8	ANTO	147.13	312	ePKP	45	00.23	5.1X
PV10	87.91	48	iPd	38	08.27	-0.2	KBS	121.70	358	ePKP	44	07.00	-0.2	BRNL	147.15	346	ePKP	44	54.50	-0.1
NEW	88.07	36	iPd	38	08.61	-0.1	DAG	123.17	5	ePKP	44	08.00	-2.1			id	44	57.70		
	0.8s	93.04nm				5.7mb		0.6s	4.67nm						epP	47	06.40			
PV08	88.28	47	iPd	38	10.24	-0.1	CER	123.39	198	iPKPd	44	09.00	-2.9	BRN	147.20	347	ePKP	44	55.50	0.8
NVL	88.30	183	iPc	38	10.00	0.6		1.0s	80.00nm					CFR	147.20	324	ePKP	44	54.00	-0.9
	1.2s	127.00nm				5.7mb	SUR	123.84	200	iPKPc	44	21.50	8.5X	OJC	147.27	338	ePKP	44	54.60	-0.4
MCMT	88.67	41	ePd	38	12.48	0.7		0.7s	100.00nm						1.1s	266.00nm				
IMA	88.73	10	iPd	38	10.73	-0.8			e	46	10.00				i	44	58.10			
	1.0s	58.35nm				5.4mb	FRS	124.60	205	iPKPc	44	14.50	0.2	WAJH	147.31	286	PKP	44	55.70	0.0
		epP	40	17.55	583km			0.8s	53.00nm					VRI	147.52	326	ePKPd	44	59.00	3.5X
FBA	88.75	13	iPd	38	10.04	-1.4	BLF	124.81	207	iPKPc	44	15.00	0.1	BRD	147.58	325	ePKPc	45	00.00	4.4X
	0.8s	86.58nm				5.7mb		0.8s	26.00nm					AYN	147.62	291	PKP	44	55.90	-0.2
		epP	40	18.13	590km		SEK	124.87	208	iPKPd	44	15.10	0.0	ETA	147.72	9	iPKPd	44	58.90	3.4X
IISM	88.92	69	(P)	38	15.00	1.9		0.8s	40.00nm					ETA	147.72	9	ePKP	45	03.40	7.9X
KMI	88.94	297	Pd	38	15.00	1.5	BFT	125.95	212	ePKP	44	17.00	-0.3	DSI	147.75	296	ePKP	44	55.60	-0.7
	2.0s	420.00nm				6.0mb	PRY	126.13	209	iPKPd	44	17.00	-0.5	BMR	147.82	331	ePKPd	45	01.00	5.1X
		pP	40	22.00	584km			1.0s	60.00nm					CVO	147.84	326	ePKP	44	55.00	-1.1
		eS	48	18.00			SLR	126.77	211	iPKPc	44	19.00	0.2	KSP	147.86	342	ePKPd	44	55.70	-0.2
SNA	89.02	179	iPd	38	15.00	3.1X		1.1s	50.00nm						1.1s	403.00nm				
	1.0s	40.00nm				5.3mb	KSR	127.31	209	iPKPc	44	20.00	0.2			id	44	59.90		
BDT	89.12	289	iPd	38	11.00	-3.0X		1.0s	40.00nm							i	45	04.50		
	1.0s	186.30nm				6.0mb	KEV	128.72	349	ePKP	44	20.00	-0.9			e	47	16.40		
HHC	89.15	315	Pd	38	15.00	1.1	TRO	130.09	352	ePKP	44	22.60	-0.9	WIT	147.86	354	ePKP	44	57.00	1.3
	1.2s	130.00nm				5.7mb	SDF	130.84	347	iPKP	44	23.00	-2.0			id	45	00.90		
HBMT	89.31	40	ePd	38	14.95	0.2			iSKP	46	55.70		ECB	147.95	9	iPKPd	44	59.20	3.3X	
TPMT	89.34	41	ePd	38	16.26	1.3	AKU	133.45	11	iPKPc	44	29.70	-0.3		1.0s	302.00nm				
BGMT	89.37	40	ePd	38	15.42	0.4		1.0s	32.00nm					ECB	147.95	9	ePKP	45	04.10	8.2X
		e	38	36.94	78kmX		WIN	134.15	201	ePKP	44	27.50	-5.4X	SPC	147.96	336	e(PKP)	44	56.00	-0.3
BUT	89.45	40	ePd	38	15.48	0.2		1.0s	280.00nm							i	45	00.70		
BW06	89.69	43	iPd	38	16.45	-0.1	KAF	135.33	344	ePKP	44	19.80	-13.9X	ISR	148.10	325	ePKP	45	00.00	3.5X
	0.6s	60.88nm				5.7mb	LSZ	135.41	218	ePKP	44	20.00	-15.4X	MLR	148.18	326	ePKPd	44	56.00	-0.7
		epP	40	24.59	590km				i	44	36.00		CEI	148.26	332	ePKP	45	03.00	6.4X	
CHG	89.76	290	iPd	38	18.90	1.9			i	47	14.00		CLL	148.28	346	iPKP	44	56.10	-0.4	
	1.3s	206.73nm				5.9mb			i	47	19.20			1.5s	81.00nm					
LCCM	89.77	40	ePd	38	17.01	0.3	OBN	136.77	331	iPKPc	44	25.60	-11.0X	CLL	148.28	346	iPKP	45	00.60	4.1X
BTO	90.07	314	P	38	19.00	0.8		0.9s	22.00nm						pPKP	47	17.00			
MEMT	90.20	41	ePd	38	19.10	0.3			i	44	35.80		HCG	148.38	6	ePKPd	45	00.30	3.6X	
HRY	90.25	39	ePd	38	19.10	0.2			i	44	44.00		HQL	148.40	292	PKP	44	56.70	-0.7	
SXM	90.33	40	ePd	38	19.93	0.5			i	45	08.00		BRG	148.46	345	iPKPd	44	56.20	-0.6	
CD2	90.44	303	iPd	38	21.00	1.0			i	47	15.50			1.5s	420.00nm					
	1.4s	100.00nm				5.6mb			i	48	09.00				i	45	00.00			
GOL	91.06	48	eP	38	22.98	0.0			e	51	22.00				i	45	06.60			
	1.5s	141.19nm				5.8mb	NUR	137.12	343	ePKP	44	25.00	-12.1X	RMN	148.58	295	ePKP	44	57.70	-0.1
GLD	91.18	48	ePd	38	24.05	0.6			iSKP	47	17.00		EYL	148.59	315	ePKP	44	54.40	-3.1X	
	1.3s	93.01nm				5.7mb	KER	137.59	298	ePKP	44	32.00	-7.0X	GPA	148.63	315	ePKP	44	59.00	1.6
YAK	92.20	338	iPd	38	26.50	-0.8	RYD	138.20	284	PKP	44	30.30	-10.0X	WTS	148.65	353	ePKPd	44	56.90	-0.1
	1.5s	276.00nm				6.1mb	NB2	139.28	353	PKP	44	31.40	-9.7X		1.0s	76.90nm				
		i	42	14.00				0.9s	34.70nm						id	45	01.60			
LZH	92.48	308	iPd	38	31.00	1.6	UPP	139.36	347	iPKP	44	32.30	-8.8X	HTR	148.66	5	ePKP	45	01.00	3.9X
	1.5s	140.00nm				5.8mb	HFS	139.81	350	ePKP	44	32.90	-9.1X	HAE	148.76	5	ePKPd	45	01.40	4.2X
BRW	93.19	7	ePc	38	30.88	-0.8		0.4s	25.00nm				HRT	148.78	316	iPKP	45	02.40	4.7X	
RSSD	93.88	44	iPc	38	35.32	-0.4	DHJN	140.13	273	PKP	44	38.90	-5.3X	CMP	148.80	327	ePKPc	44	59.00	1.5
	0.9s	45.24nm				5.7mb	KONO	140.82	353	ePKP	44	37.40	-6.4X	BUC1	148.90	324	ePKP	44	40.00	-17.6X
		(pP)	40	44.58	593km		ABHA	140.93	274	PKP	44	42.20	-3.4X	TNR	148.92	328	ePKPc	45	01.00	3.3X
MEO	93.96	54	iPc	38	35.50	-0.6	OASM	141.04	286	PKP	44	40.90	-4.5X	ISK	149.05	317	iPKP	45	02.40	4.4X
INK	94.81	15	ePd	38	39.00	-0.1	EDR	143.90	4	ePKP	44	47.30	-1.9	YLV	149.11	316	iPKP	45	02.90	4.7X
	1.0s	19.00nm				5.3mb	EDU	144.24	4	ePKP	44	48.80	-1.0	PRU	149.12	343	ePKPd	44	57.50	-0.3
GTA	96.71	310	Pd	38	48.80	0.3	COP	144.26	349	iPKPc	44	48.30	-1.5		1.0s	165.70nm				
	1.5s	72.00nm				5.8mb		1.4s	1144.19nm						i	45	02.90			
		pP	40	55.00	574kmX		ELO	144.27	5	ePKPd	44	48.60	-1.3			e	45	09.80		
		PP	42	50.00			BSD	144.32	347	iPKPd	44	49.80	-0.1			e	47	23.50		
YKA	97.13	25	eP	38	48.70	-1.0		1.0s	748.00nm					VRAC	149.12	340	iPKPd	45	03.10	5.3X
	0.8s	9.90nm				5.2mb			i	47	36.00			1.7s	1282.80nm					
CNCB	102.41	113	Pdiff	39	19.00	3.9X	KVT	144.37	312	iPKP	44	47.00	-3.6X	VRAC	149.12	340	iPKP	45	10.10	12.3X
LPB	102.44	113	ePdiff	39	19.00	4.0X	EAB	144.49	5	ePKPd	44	49.60	-0.6		1.4s	690.60nm				
ZOBO	102.53	113	Pdiff	39	15.70	0.0	EBH	144.50	5	ePKPd	44	49.80	-0.5	HGH	149.14	5	ePKPd	45	02.10	4.3X
MBC	103.29	12	ePdiff	39	16.50	-0.5		1.3s	306.00nm				MOX	149.20	347	iPKP	44	57.80	-0.1	
PKI	104.38	294	Pdiff	39	24.00	0.6	EDI	144.85	4	ePKP	44	50.60	-0.2		1.5s	363.00nm				
KKK	104.55	294	Pdiff	39	23.40	-0.6	ESY	144.89	4	ePKP	44</									

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BCK	149.72	309	id	45	03.90		LDF	152.33	2	ePKP	45	02.30	-0.3	NPS	154.30	309	ePKP	45	15.40	9.7X
SRO	149.82	337	ePKP	44	58.40	-0.5		1.4s	87.55nm					MMK	154.31	349	ePKPd	45	06.10	0.4
			i	45	04.60		SRS	152.36	322	iPKP	45	09.17	6.3X	MFF	154.32	2	ePKP	45	05.20	-0.1
ZST	149.93	339	ePKP	45	18.60		WTTA	152.38	345	iPKPd	45	02.50	-0.5		1.3s	61.35nm				
			i	45	05.20					i	45	10.40		VAI	154.34	348	PKP	45	05.10	-0.2
			i	45	13.10					i	45	23.80		BGF	154.36	358	ePKP	45	05.50	0.1
			ipPKP	47	26.20					i	47	25.80			1.4s	64.50nm				
ENN	149.95	354	ePKP	44	59.00	0.0	MOTA	152.43	346	iPKPd	45	02.00	-1.0	DIX	154.37	350	ePKPd	45	06.20	0.4
	1.0s	240.00nm	e	45	04.90					i	45	10.10		AGG	154.44	320	ePKP	45	04.66	-1.1
ENN	149.95	354	e(PKP)	45	12.00	13.0X				i	45	23.60		EMS	154.46	351	ePKPd	45	05.90	0.1
UCC	150.05	356	iPKP-	45	05.00	5.9X	GRR	152.50	3	ePKP	47	29.80	-0.1	TCF	154.65	359	ePKP	45	05.80	-0.1
			i+	45	13.00			1.0s	39.60nm					1.3s	67.85nm					
DST	150.09	315	iPKP	45	04.70	5.0X	SOTA	152.52	345	iPKPd	45	02.40	-0.7	LSF	154.70	360	ePKP	45	05.50	-0.4
MEM	150.10	354	iPKPc	44	59.46	0.2				i	45	10.40		MAF	154.70	358	ePKP	45	06.00	0.1
			id	45	04.97					i	45	24.10			1.7s	75.75nm				
			ic	45	13.08		SLE	152.56	349	ePKPc	45	03.00	0.0	ORO	154.72	349	PKP	45	05.70	-0.4
VKA	150.13	340	(PKP)	45	00.00	0.6	RBL	152.61	341	PKP	45	02.50	-0.7	LSO	155.02	350	PKP	45	07.13	0.4
			i	45	05.50		OUR	152.62	320	ePKP	45	09.94	6.7X	LPL	155.03	351	ePKP	45	07.00	0.3
KHC	150.16	344	PKPc	45	00.00	0.5	HAU	152.64	353	ePKP	45	02.90	-0.2	LPG	155.04	351	ePKP	45	07.00	0.2
	1.3s	229.00nm	i	45	14.60		LJU	152.66	340	ePKP	45	02.60	-0.6		1.5s	43.85nm				
			i	45	05.90					ePKP	45	10.00	6.8X	BOB	155.24	346	PKP	45	06.30	-0.5
			e	45	14.80		SOH	152.69	322	ePKP	45	09.85	6.4X	IGT	155.27	323	iPKP	45	05.46	-1.4
BNT	150.16	317	ePKP	45	06.50	6.8X	FVI	152.70	343	PKP	45	02.20	-0.9	RSP	155.30	350	PKP	45	07.40	0.5
TNS	150.18	351	iPKPd	45	05.40	5.9X	KNT	152.73	323	ePKP	45	09.94	6.5X	SFI	155.40	341	PKP	45	07.40	0.5
			ic	45	13.80		BSF	152.75	352	ePKP	45	03.00	-0.4	VLI	155.42	315	ePKP	45	16.00	8.8X
GRF	150.19	347	iPKPd	44	59.50	0.0		1.5s	89.85nm				ARV	155.44	339	PKP	45	07.20	0.2	
Z	25s	0.10um			4.5mszx		VAY	152.81	323	iPKP	45	02.30	-1.2	KEK	155.44	324	ePKP	45	13.40	6.3X
			id	45	05.90			1.2s	115.00nm				PGD	155.48	342	PKP	45	17.03	9.8X	
			e	45	13.60					i	45	10.50		PGD	155.48	342	PKP	45	07.10	-0.2
			e(pPKP)	47	23.60		LPF	152.85	3	ePKP	45	03.10	-0.2	BNI	155.49	351	PKP	45	08.10	0.9
CPZ	150.28	9	ePKPd	45	05.00	5.5X		1.3s	66.05nm				BHB	155.60	350	PKP	45	05.94	-1.3	
	1.2s	103.00nm					ZLA	152.85	349	ePKPc	45	03.70	0.3	RRL	155.60	351	PKP	45	08.09	0.6
WET	150.32	345	ePKP	44	59.90	0.2	VOY	152.87	341	ePKPd	45	02.90	-0.7	BDI	155.63	344	PKP	45	07.00	-0.3
			i	45	05.80		VOY	152.87	341	iPKP	45	10.60	7.0X	CRE	155.64	341	PKP	45	06.70	-0.7
			i	45	15.10					ePKPob	45	24.70		RJF	155.64	360	ePKP	45	07.30	0.1
SNF	150.34	356	iPKPc	45	00.11	0.5				ePKP	47	22.50		PCP	155.65	347	PKP	45	06.49	-0.8
			id	45	05.72		VBY	152.89	338	iPKP	45	03.40	-0.1	FIR	155.71	342	ePKP	45	07.50	0.2
			ic	45	14.07					iPKPbc	45	11.50		ASS	155.92	339	PKP	45	06.30	-1.4
GEC2	150.38	343	ePKPd	44	58.90	-1.0	CEY	152.97	340	ePKP	45	03.00	-0.6	BRT	155.92	329	PKP	45	07.78	0.1
	1.0s	16.10nm					CEY	152.97	340	ePKP	45	11.00	7.4X	DOI	155.93	350	PKP	45	05.90	-1.8
			ePKPbc	45	05.60					ePKPob	45	25.50		PZZ	155.96	350	PKP	45	08.32	0.5
			ePKPob	45	14.50		SKO	152.97	326	iPKP	45	03.00	-0.7	LCI	155.97	327	PKP	45	07.70	-0.1
			epPKP	47	22.60			1.5s	77.00nm				LFF	156.00	1	ePKP	45	07.80	0.1	
			e	47	28.40					i	45	11.70		CAF	156.01	359	ePKP	45	07.90	0.1
			e	47	33.60					i	45	25.20			1.5s	62.15nm				
ELL	150.51	309	ePKP	44	59.80	-0.7	PLE	152.99	330	ePKP	45	03.51	-0.3	ROB	156.02	348	PKP	45	07.17	-0.7
SSR	150.72	329	ePKPd	45	02.00	1.6	THE	153.03	322	ePKP	45	10.42	6.6X	FIN	156.04	348	PKP	45	06.85	-1.0
DOU	150.73	356	PKPc	45	00.60	0.4	PAIG	153.06	320	ePKP	45	10.66	6.8X	STV	156.17	349	PKP	45	06.62	-1.4
			id	45	06.80		IVA	153.10	329	iPKPd	45	03.40	-0.6	ENR	156.17	349	PKP	45	06.99	-1.1
UZD	150.74	335	ePKP	45	06.00	5.7X	GRG	153.14	323	ePKP	45	10.86	6.8X	LPO	156.26	0	ePKP	45	08.30	0.3
KMR	150.98	342	iPKP-	45	00.90	0.2	TRI	153.20	340	PKP	45	03.60	-0.3		1.8s	132.05nm				
			i	45	08.10		PVY	153.27	328	ePKP	45	03.46	-0.8	AQU	156.29	337	PKP	45	08.47	0.2
			i	45	18.70		OSS	153.27	346	ePKPd	45	03.90	-0.3	EMON	156.38	16	iPKPd	45	08.21	-0.1
WLF	151.02	353	iPKPc	45	01.59	1.0	LLS	153.33	348	ePKPd	45	03.90	-0.4	IMI	156.39	348	PKP	45	07.91	-0.4
			i	45	07.78		VVI	153.35	343	PKP	45	03.83	-0.3	DUI	156.49	335	PKP	45	08.60	0.1
			i	45	17.00		CTI	153.50	344	PKP	45	04.00	-0.4	MNS	156.52	338	PKP	45	07.70	-0.8
ALN	151.03	319	ePKP	45	06.46	5.5X	NKY	153.57	330	iPKPd	45	04.02	-0.6	BCAO	156.59	228	iPKPd	45	09.00	-0.4
KOT	151.06	294	ePKP	45	07.00	5.7X	LOR	153.60	356	ePKP	45	04.40	0.0		0.8s	53.00nm				
RDO	151.19	320	iPKPd	45	07.60	6.4X		1.5s	78.35nm				SDI	156.70	336	PKP	45	08.10	-0.7	
FUR	151.62	346	ePKP	45	01.50	-0.1	VDL	153.60	347	ePKPd	45	04.40	-0.3	ORI	156.91	329	PKP	45	08.80	-0.2
			i	45	08.70		LIT	153.65	321	ePKP	45	03.46	-1.2	FRF	156.95	350	ePKP	45	08.80	-0.1
			i	45	20.40		BRY	153.72	331	iPKPd	45	04.08	-0.8	LRG	157.10	351	ePKP	45	08.90	-0.2
IZM	151.62	314	iPKP	45	07.60	5.6X	TTG	153.74	329	iPKPd	45	04.10	-0.6		1.5s	85.65nm				
BHG	151.63	343	iPKPc	45	01.60	-0.1	SSF	153.82	357	ePKP	45	04.70	0.0	LMR	157.19	350	ePKP	45	08.90	-0.3
			e	45	08.20			1.5s	94.00nm				CSI	157.21	329	PKP	45	08.70	-0.7	
			i	45	20.90		FNA	153.83	324	iPKP	45	12.82	7.9X	ROI	157.24	328	PKP	45	09.30	-0.1
PRK	151.83	316	ePKP	45	08.90	6.8X	LBF	153.87	356	ePKP	45	04.60	-0.2	MGR	157.27	331	PKP	45	08.30	-1.1
KBA	152.09	342	iPKPd	45	01.20	-1.4		1.6s	79.00nm				TDS	157.28	329	PKP	45	09.20	-0.2	
	1.2s	18.40nm					OHR	153.92	325	iPKP	45	01.50	-3.6X	ELIZ	157.66	5	iPKPc	45	10.48	0.7
			i	45	09.00			1.4s	113.00nm				EPF	157.90	2	ePKP	45	10.50	0.4	
			i	45	22.90					i	45	13.40			1.4s	55.75nm				
			ipPKP	47	30.30					i	45	36.50		ECRI	158.10	8	iPKPd	45	11.33	1.0
			ip	48	52.70		KZN	153.93	323	ePKP	45	12.80	7.7X	ETER	158.60	357	iPKPd	45	10.95	0.1
CDF	152.12	351	ePKP	45	01.90	-0.5	BDV	154.06	329	iPKPd	45	04.38	-0.8	SOI	158.64	327	PKP	45	10.90	-0.1
	1.5s	55.35nm					TMA	154.09	348	ePKPd	45	05.00	-0.3	EGRA	158.71	3	iPKPd	45	12.00	1.1
FLN	152.15	3	ePKP	45	02.10	-0.2	HCY	154.09	330	iPKPd	45	04.27	-0.9	GUD	159.76	12	iPKPd	45	13.00	0.7
	1.3s	135.40nm					ULC	154.10	328	iPKPd	45	04.30	-0.9	EPLA	159.87	17	ePKP	45	12.91	0.6
WATA	152.33	345																		

EVIA 162.00 10 ePKP 45 14.94 0.4
 EHOR 162.19 17 ePKP 45 14.98 0.4
 ACU 162.37 4 ePKP 45 18.03 3.2X
 ELUQ 162.69 15 ePKP 45 15.90 0.7
 EPRU 162.99 18 iPKPd 45 16.24 0.7
 ECGO 163.12 13 iPKPd 45 15.66 -0.1
 EJIF 163.40 19 ePKP 45 17.10 1.2
 MAL 163.44 16 iPKPd 45 16.80 0.9
 S.D. = 1.0 on 455 of 544 obs.

? APR 20, 1993 16h 48m 01.84±1.29s
 14.205 S ±28.1km 179.261 W ±19.1km
 DEPTH = 505.6 ± 19.8 km
 4.3mb (10 obs.)

FIJI ISLANDS REGION (181)

VUN 4.37 210 eP 49 24.50 0.1
 RMQ 32.29 243 eP 53 49.60 -0.2
 STK 39.82 237 iPc 54 53.10 1.0
 0.8s 3.80nm 4.0mb
 WRA 44.61 256 P 55 27.60 -2.7
 1.2s 0.50nm 2.9mb X
 ASPA 45.12 251 iPc 55 35.60 1.4
 0.9s 19.70nm 4.6mb
 ADK 65.85 2 eP 57 56.98 -1.2
 SLKM 78.01 14 eP 59 08.41 0.0
 CP2 78.23 13 eP 59 10.18 0.4
 CRP 78.25 13 eP 59 09.32 -0.5
 TTA 79.00 11 ePc 59 14.96 1.4
 1.0s 9.64nm 4.2mb
 TUC 80.12 53 eP 59 19.34 -0.8
 1.2s 8.72nm 4.1mb
 BJI 80.59 315 eP 59 29.50 7.3X
 1.6s 34.00nm 4.6mb
 MSU 81.66 47 eP 59 27.56 -0.6
 FBA 82.40 13 ePc 59 31.75 0.8
 0.7s 6.60nm 4.3mb
 SRU 83.08 47 ePc 59 34.44 -0.7
 PV09 83.83 48 eP 59 38.88 -0.2
 ALQ 84.46 52 eP 59 41.91 -0.2
 0.9s 6.68nm 4.3mb
 BGMT 84.68 41 ePc 59 43.30 0.3
 e 59 46.00
 BW06 85.26 44 eP 59 45.29 -0.6
 1.1s 6.53nm 4.2mb
 RSSD 89.49 44 eP 00 05.98 0.3
 1.0s 9.68nm 4.6mb
 YKA 91.33 25 eP 00 15.20 1.7
 0.6s 0.40nm 3.6mb
 ULM 96.62 40 eP 00 41.50 3.7X
 GEC2 143.84 345 ePKP 06 45.80 5.3X
 1.2s 1.56nm
 ARVI 144.39 303 ePKP 06 50.90 9.1X
 PRNI 144.64 303 ePKP 06 51.80 9.5X
 MBH 144.92 302 ePKP 06 52.60 9.7X
 BHG 145.09 346 iPKPd 06 50.70 8.2X
 CDF 145.47 352 ePKP 06 50.90 7.7X
 1.2s 28.25nm
 FLN 145.53 1 ePKP 06 50.00 6.8X
 1.1s 21.75nm
 LDF 145.70 1 ePKP 06 50.50 7.0X
 GRR 145.89 2 ePKP 06 51.30 7.5X
 1.0s 15.60nm
 HAU 145.98 353 ePKP 06 52.50 8.5X
 1.3s 26.00nm
 BSF 146.10 353 ePKP 06 52.90 8.6X
 LPF 146.24 2 ePKP 06 52.50 8.1X
 1.0s 19.60nm
 LOR 146.93 356 ePKP 06 55.00 9.4X
 0.6s 3.70nm
 SSF 147.16 357 ePKP 06 55.80 9.9X
 1.3s 28.90nm
 LBF 147.21 356 ePKP 06 55.80 9.8X
 1.4s 18.30nm
 MFF 147.70 1 ePKP 06 56.60 9.8X
 BCF 147.70 357 ePKP 06 57.00 10.2X
 0.8s 9.40nm
 TCF 147.99 358 ePKP 06 57.80 10.5X
 1.1s 8.30nm
 MAF 148.05 358 ePKP 06 58.10 10.7X

1.2s 16.65nm
 LSF 148.05 359 ePKP 06 57.60 10.2X
 0.7s 7.30nm
 LPL 148.38 352 ePKP 07 00.10 11.9X
 0.7s 3.65nm
 LPG 148.40 352 ePKP 07 00.40 12.1X
 0.7s 3.65nm
 S.D. = 1.1 on 20 of 44 obs.

% APR 20, 1993 17h 10m 28.67±1.31s
 17.979 N ±14.8km 66.934 W ±5.9km
 DEPTH = 10.0km (geophysicist)
 PUERTO RICO REGION (90)

MGP 0.15 281 iP 10 32.20 0.0
 S 10 35.00
 PNP 0.25 72 iP 10 34.00 0.0
 PORP 0.29 75 iP 10 35.00 0.2
 LRS 0.32 15 iP 10 35.40 0.0
 LPR 1.06 72 i(P) 10 48.50 -0.2
 S.D. = 0.2 on 5 of 5 obs.

% APR 20, 1993 18h 06m 48.44±1.56s
 40.823 N ±20.0km 29.036 E ±7.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

HRT 0.48 90 iPg 06 58.60 0.4
 eSg 07 05.90
 EYL 0.89 106 ePg 07 05.10 -0.5
 eSg 07 17.00
 BNT 0.97 242 iPg 07 07.40 0.5
 eSg 07 22.00
 EDC 1.01 242 ePg 07 07.00 -0.6
 DST 1.26 195 ePn 07 12.00 0.2
 S.D. = 0.7 on 5 of 5 obs.

% APR 20, 1993 18h 18m 14.94±1.01s
 42.606 N ±7.0km 13.193 E ±11.2km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

AQU 0.30 148 Pd 18 19.70 -1.4
 eSg 18 25.90
 MNS 0.44 240 Pc 18 21.90 -2.0
 eSg 18 27.20
 ASS 0.61 320 P 18 26.10 -1.1
 eSg 18 35.30
 RMP 0.87 205 P 18 33.00 1.3
 ARV 0.91 348 P 18 33.00 0.6
 eSg 18 46.50
 RDP 0.92 203 P 18 34.40 1.9
 SDI 1.01 153 P 18 34.10 0.0
 eSg 18 50.80
 CRE 1.37 319 P 18 41.00 0.9
 SFI 1.64 324 P 18 47.30 3.4X
 S.D. = 1.7 on 8 of 9 obs.

APR 20, 1993 18h 56m 42.87±0.48s
 83.838 N ±8.7km 112.978 E ±7.9km
 DEPTH = 10.0km (geophysicist)
 4.3mb (15 obs.)
 NORTH OF SEVERNAYA ZEMLYA (651)

DAG 18.04 326 eP 00 52.10 -2.5
 1.1s 10.13nm 3.9mb
 MBC 18.30 37 eP 00 59.50 1.8
 1.0s 5.00nm 3.6mb
 BRW 19.80 72 (P) 01 14.47 -1.2
 YAK 22.27 159 eP 01 40.20 -0.7
 1.2s 25.00nm 4.5mb
 INK 24.93 54 eP 02 08.50 1.8
 1.0s 4.00nm 4.1mb
 IMA 25.16 73 eP 02 09.73 0.5
 1.2s 4.08nm 4.0mb
 FBA 26.90 69 (P) 02 26.35 1.2
 0.8s 3.71nm 4.1mb
 KAF 28.32 278 eP 02 38.70 0.7
 KLU 30.43 68 eP 02 55.88 -1.1
 YKA 32.15 40 eP 03 10.50 -1.5
 0.9s 1.20nm 3.8mb
 FRB 32.61 1 eP 03 16.50 0.6
 KDC 33.43 76 eP 03 22.26 -0.9
 1.1s 8.26nm 4.6mb
 FCC 37.03 23 eP 03 57.00 3.2X
 WMO 40.83 208 P 04 26.30 0.6

1.0s 14.00nm 4.6mb
 GEC2 42.71 286 eP 04 43.00 1.9
 1.0s 0.90nm 3.5mb
 e 04 50.70
 e 04 55.80
 e 05 00.90
 e 05 05.00

CDF 43.79 292 eP 04 51.10 1.2
 1.5s 20.35nm 4.7mb
 BJI 43.96 176 eP 04 52.00 0.9
 1.6s 34.00nm 4.9mb
 NEW 46.11 45 eP 05 08.19 -0.2
 1.0s 5.50nm 4.5mb
 TIA 47.79 175 eP 05 21.10 -0.5
 RSSD 51.13 34 eP 05 47.73 0.2
 1.2s 10.01nm 4.6mb
 BW06 52.11 39 eP 05 55.00 0.0
 1.6s 5.26nm 4.2mb
 PAB 53.70 302 eP 06 05.00 -1.6
 GBA 71.47 217 P 08 04.00 -1.0
 S.D. = 1.3 on 22 of 23 obs.

& APR 20, 1993 19h 00m 29.76s
 37.453 N 118.365 W
 DEPTH = 9.8km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 2.9 (GM).

MTUM 0.19 238 iPd 00 33.84 -0.2
 MRCM 0.25 333 ePc 00 35.01 -0.1
 BONR 0.50 6 ePd 00 39.85 -0.2
 MEMM 0.50 295 iPc 00 39.75 -0.2
 MMPM 0.55 287 ePc 00 40.33 -0.6
 TNP 1.10 55 ePd 00 50.80 0.1
 S 01 05.63
 KVN 1.61 7 eP 00 59.75 1.3
 CMB 1.70 291 eP 01 00.07 0.3
 S 01 22.18
 TPNV 1.76 106 (P) 01 00.66 0.0
 ISA 1.79 183 eP 01 02.27 1.3
 GSC 2.49 149 (P) 01 12.87 1.8
 BCH 2.66 212 (P) 01 14.65 1.2
 MSU 5.00 76 (P) 01 47.95 1.0
 13 obs. associated

% APR 20, 1993 19h 23m 41.10±0.86s
 43.599 N ±8.1km 12.255 E ±6.9km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

CRE 0.22 278 P 23 45.10 -0.9
 eSg 23 49.70
 RSM 0.36 23 P 23 48.00 -0.5
 SFI 0.43 318 P 23 51.00 1.1
 eSg 23 55.30
 ARV 0.51 101 P 23 51.40 0.0
 eSg 23 57.90
 ASS 0.61 151 P 23 53.70 0.3
 eSg 24 00.80
 S.D. = 1.0 on 5 of 5 obs.

? APR 20, 1993 19h 52m 09.71±1.75s
 7.069 S ±10.9km 129.992 E ±39.3km
 DEPTH = 116.2 ± 33.5 km
 4.1mb (1 obs.)
 BANDA SEA (280)

MTN 5.85 169 eP 53 36.90 1.5
 IS 54 40.00
 SWI 6.29 12 iPd 53 41.50 0.0
 IS 54 08.50
 KNA 8.71 188 iPd 54 13.40 -1.0
 0.3s 171.00nm 6.3mb X
 eS 55 44.80
 WB2 13.48 162 iPc 55 15.50 -2.0
 eS 57 37.20
 ASPA 16.92 168 iPc 56 02.00 1.1
 eS 58 58.50
 WARB 19.27 189 eP 56 28.50 0.6
 0.3s 3.00nm 4.1mb
 eS 59 53.00
 MEEK 22.27 208 eP 56 58.00 -0.1
 S.D. = 1.7 on 7 of 7 obs.

% APR 20, 1993 19h 53m 32.04±1.75s
 41.222 N ±14.9km 23.138 E ±6.4km
 DEPTH = 10.0km (geophysicist)

20d 19h

GREECE-BULGARIA BORDER REGION (363)

KNT	0.19	252	ePg	53	36.36	0.1
			eSg	53	38.92	
SRS	0.36	107	ePg	53	39.12	-0.3
			eSg	53	44.32	
SOH	0.43	158	ePg	53	40.68	-0.2
			eSg	53	46.44	
THE	0.60	193	ePg	53	43.84	-0.4
			eSg	53	51.88	
OUR	1.09	144	ePg	53	53.20	0.6
PAIG	1.36	162	ePb	53	57.12	0.2

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

? APR 20, 1993 20h 08m 13.68± 2.69s
 31.853 S ± 26.9km 179.852 E ± 29.3km
 DEPTH = 435.9 ± 24.3 km
 4.2mb (1 obs.)

KERMADEC ISLANDS REGION (177)

WCZ	6.13	227	eP	09	50.40	0.7
PUZ	6.34	191	eP	09	50.20	-1.8
URZ	6.78	199	eP	09	54.40	-2.2
			eS	11	18.10	
NOZ	6.91	192	eP	09	59.80	1.7
PAHZ	7.35	197	eP	10	04.60	1.6
MOH	7.59	196	eP	10	07.60	2.0
WAHZ	8.33	199	eP	10	12.80	-1.0
MNG	9.43	201	eP	10	24.30	-1.9

MTW	9.92	199	eP	10	32.10	0.3
MRW	10.23	202	eP	10	35.00	-0.2
THZ	11.35	207	eP	10	48.10	0.5
			eS	12	54.40	

KHZ	11.68	204	eP	10	51.20	0.1
			eS	13	01.70	
LTZ	12.46	207	eP	11	00.00	0.4
WBZ	42.34	275	eP	15	28.40	-0.7

	0.3s	3.40nm	4.2mb			
WRA	42.34	275	P	15	29.50	0.3
	0.6s	0.50nm	3.1mb	X		
KAF	145.26	338	iPKP	26	59.70	-1.3

	0.3s	1.70nm				
NUR	146.99	338	iPKP	27	05.40	1.5
	0.3s	2.90nm				
BCAO	147.57	217	iPKPc	27	12.00	5.7X

	0.3s	10.00nm				
NBZ	149.86	349	PKP	27	12.40	4.0X
	0.6s	1.30nm				
HFS	150.25	346	ePKP	27	12.90	4.0X

S.D. = 1.5 on 17 of 20 obs.

% APR 20, 1993 20h 23m 47.51± 0.72s
 42.364 N ± 6.1km 19.361 E ± 5.2km
 DEPTH = 23.0 ± 9.5 km

NORTHWESTERN BALKAN REGION (383)

TTG	0.10	312	iPg	23	51.82	0.0
			iSg	23	55.31	
BDV	0.40	259	iPg	23	55.97	-0.1
			iSg	24	02.56	

ULC	0.41	192	iPg	23	56.05	-0.1
			iSg	24	02.97	
PVY	0.51	63	iPg	23	57.79	-0.1
			iSg	24	05.96	

NKY	0.52	329	iPg	23	57.90	-0.2
			iSg	24	06.26	
HCY	0.64	278	iPg	24	00.06	0.0
			iSg	24	09.87	

IVA	0.64	38	ePg	23	59.94	-0.1
			iSg	24	10.16	
BRY	0.81	312	iPg	24	02.69	-0.2
			iSg	24	15.17	

PLE	0.97	1	iPg	24	05.74	0.1
			iSg	24	20.45	

S.D. = 0.1 on 9 of 9 obs.

APR 20, 1993 20h 54m 16.24± 1.01s
 43.413 N ± 6.4km 5.406 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 3.1 (STR).

GELF	0.03	152	Pg	54	18.28	0.0
TREF	0.21	356	Pg	54	20.31	-0.5

BERF	0.23	116	Pg	54	21.29	0.0
PUYF	0.25	61	Pg	54	20.39	-1.1
PRAF	0.43	336	Pg	54	25.19	0.2
VILF	0.49	27	Pg	54	25.34	-0.9
GANF	0.69	32	Pg	54	29.48	-0.4
CALN	1.13	72	Pg	54	37.84	0.3
REVF	1.46	76	Pn	54	42.35	-0.4
TOUF	1.46	65	Pn	54	43.07	0.2

			Sg	55	04.17	
AURF	1.47	71	Pn	54	42.72	-0.2
			Sg	55	03.44	
SURF	1.47	43	Pg	54	43.68	0.7
			Sg	55	03.07	

AUTN	1.58	68	Pn	54	44.41	-0.1
			Sg	55	07.34	
SAOF	1.66	69	Pn	54	45.76	0.2
DOI	1.72	50	P	54	47.00	0.6
			eSn	55	11.10	

BNI	1.88	29	P	54	51.70	2.9
			eSn	55	18.40	
SSB	1.97	342	Pn	54	49.05	-0.9
CKI	2.31	63	P	54	55.40	0.5
			eSn	55	28.00	

ORO	2.88	39	P	55	06.70	3.6X
BDI	3.82	78	P	55	15.30	-1.1
GEC2	7.92	44	Pn	56	11.20	-3.0X
			Sn	57	38.30	

S.D. = 1.0 on 19 of 21 obs.

& APR 20, 1993 21h 16m 03.60s
 37.626 N 118.894 W
 DEPTH = 3.4km

CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 3.4 (GM). ML 3.3
 (BRK). Felt in the Mammoth
 Lakes, California area.

MEMM	0.05	318	iP	16	05.12	0.2
MMPM	0.11	262	iPc	16	06.06	0.1
MRCM	0.31	81	iPc	16	10.03	0.2
MTUM	0.38	136	iPd	16	11.13	-0.1

BONR	0.57	55	iPc	16	14.95	-0.1
FRI	0.91	226	iPc	16	20.66	-0.9
			eS	16	32.58	

CMB	1.25	290	iPc	16	26.46	-1.0
			iS	16	42.91	
TNP	1.40	71	eP	16	28.20	-2.0
KVN	1.55	23	eP	16	32.00	-0.3
			S	16	54.39	

LLA	1.92	239	iPc	16	38.28	0.8
			eS	17	05.68	
ISA	1.99	170	ePc	16	39.77	1.3
			iS	17	05.58	

PRI	2.05	224	iPd	16	40.74	1.3
			eS	17	08.99	
ARN	2.12	263	eP	16	40.38	0.0
			S	17	10.04	

PHAM	2.16	215	eP	16	39.61	-1.3
SAO	2.21	248	eP	16	41.14	-0.5
			S	17	14.58	
TPNV	2.21	107	(P)	16	41.87	0.0

COE	2.24	261	eP	16	39.94	-2.2
HMR	2.36	284	(P)	16	45.39	1.6
PRS	2.37	238	iPc	16	44.77	0.8
GCC	2.54	257	iPc	16	46.68	0.3

BCH	2.62	202	eP	16	45.43	-2.2
			S	17	20.14	
BKS	2.66	276	eP	16	48.43	0.3
ZSP	2.68	278	eP	16	49.33	0.9

ORV	2.81	314	(P)	16	50.20	0.0
			S	17	29.40	
GSC	2.87	143	eP	16	49.44	-1.7
NTYM	3.07	286	(P)	16	53.77	-0.1
			S	17	37.70	

SSK	3.54	164	(P)	17	01.02	0.2
			S	17	54.47	
PEC	3.98	159	eP	17	07.78	0.9
			S	18	05.72	

ARUT	4.33	86	(P)	17	11.48	-0.5
LBFM	4.38	329	(P)	17	09.65	-3.0
PLM	4.57	158	eP	17	15.76	0.3
			S	18	26.76	

PV10	7.82	81	(P)	18	01.42	0.2
TUC	8.51	126	eP	18	10.13	-0.6

33 obs. associated

APR 20, 1993 22h 17m 20.00± 0.32s

7.078 N ± 4.9km 125.144 E ± 5.9km
 DEPTH = 19.2km (3 depth phases)
 4.8mb (18 obs.) 4.3Ms (5 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

DAV	0.43	89	iPc+	17	28.40	-0.4
CTB	0.94	277	ePd	17	37.00	-0.5
			eS	17	57.00	

BIP	1.58	44	iPc	17	48.00	0.8
PLP	4.06	358	ePd	18	21.80	-0.8
MNI	5.61	183	ePc	18	46.70	2.2
OCP	8.51	332	eP	18	48.00	-37.2X

SWI	9.97	142	eP	19	48.50	3.1X
BAG	10.29	335	eP	19	53.00	3.0X
QIZ	19.04	310	eP	21	44.00	0.3

N	14s	1.11um				
E	15s	0.66um				
MTN	20.67	163	eP	21	59.50	-2.0
	0.4s	25.00nm			4.9mb	

KNA	22.96	171	eP	22	25.00	0.5
	0.8s	41.00nm			5.0mb	
SSE	24.18	352	P	22	37.60	1.4
	1.0s	11.00nm			4.4mb	

Z	20s	0.60um			4.1Ms	
N	14s	0.40um				
E	14s	0.40um				
WHN	25.45	338	eP	22	53.50	5.2X

Z	20s	0.63um			4.1Ms	
E	16s	0.92um				
NJ2	25.53	348	eP	22	51.00	1.9
Z	14s	0.35um			4.0Ms	

GYA	26.09	320	eP	22	56.40	1.8
N	18s	2.22um				
E	18s	1.06um				
KMI	27.94	312	Pc	23	12.50	0.9

	1.5s	40.00nm			4.9mb	
		sP			23	21.00
WBZ	28.34	162	eP	23	12.70	-2.3
	0.6s	3.70nm			4.3mb	

WKYJ	28.68	18	P	23	16.10	-1.9
XAN	30.74	333	P	23	35.50	-0.8
		pP			23	40.50
CD2	31.03	323	eP	23	39.60	0.6

E	12s	0.51um				
ASPA	31.73	165	eP	23	44.50	-0.6
	0.5s	7	2.20nm			4.8mb
TIY	32.61	341	eP	23	50.50	-2.2
7	30s	0	94um			4.3Ms

KSH 54.55 314 eP 26 12.80 13km
 Z 16s 0.60um 4.8mszX
 YAK 54.93 3 eP 26 51.40 -0.2
 MAIO 66.25 306 eP 28 08.00 0.6
 IMA 79.99 24 eP 29 29.65 0.2
 1.0s 5.03nm 4.5mb
 PMR 81.79 29 eP 29 38.40 -0.3
 0.7s 12.75nm 5.1mb
 FBA 82.39 25 eP 29 44.29 2.4
 0.7s 6.98nm 4.9mb
 KLU 83.33 29 eP 29 46.71 -0.2
 BALM 85.08 29 eP 29 56.18 0.4
 INK 87.64 21 eP 30 09.50 1.4
 MBC 89.05 12 eP 30 15.00 0.3
 1.0s 4.00nm 4.7mb
 YKA 97.11 24 eP 30 51.80 -0.2
 0.9s 0.90nm 4.3mb
 S.D. = 1.1 on 46 of 54 obs.

* APR 20, 1993 22h 24m 43.37 ± 0.80s
 2.659 N ± 8.2km 125.888 E ± 14.5km
 DEPTH = 147.3 ± 11.7 km
 4.7mb (8 obs.)
 TALAUD ISLANDS, INDONESIA (263)

MNI 1.60 221 ePd 25 14.80 0.7
 eS 25 37.00
 BIP 5.54 4 iPd 26 04.00 -0.9
 iS 26 40.00
 SWI 6.41 123 ePd 26 17.50 0.9
 PLP 8.50 354 ePc 26 45.00 0.3
 MTN 16.26 161 eP 28 22.00 -2.8
 0.4s 13.00nm 4.6mb
 KNA 18.51 171 eP 28 50.50 -0.6
 0.6s 38.00nm 4.9mb
 WB2 23.95 160 iPd 29 45.70 0.3
 0.7s 19.50nm 4.7mb
 eS 33 55.60
 ASPA 27.31 164 eP 30 16.70 0.5
 0.4s 6.40nm 4.6mb
 eS 34 47.10
 WARB 28.68 179 eP 30 29.00 0.4
 0.4s 14.00nm 5.0mb
 MEEK 29.96 193 iPc 30 39.50 -0.4
 0.4s 13.00nm 5.0mb
 MRWA 33.08 196 iPd 31 07.10 0.0
 0.4s 4.00nm 4.5mb
 BAL 34.22 194 eP 31 17.00 0.1
 STK 37.45 158 iPd 31 45.60 1.5
 0.4s 3.00nm 4.4mb
 S.D. = 1.2 on 13 of 13 obs.

? APR 20, 1993 23h 22m 26.50 ± 1.07s
 12.397 N ± 51.5km 143.615 E ± 59.6km
 DEPTH = 33.0km (normal)
 3.4mb (1 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUA 1.70 48 eP 22 54.00 -0.3
 e(S) 23 18.50
 GUMO 1.70 46 eP 22 54.50 0.2
 e(S) 23 20.50
 PJG 1.70 46 eP 22 54.30 0.0
 KLB 50.28 209 eP 31 22.90 1.0
 MUN 51.34 210 eP 31 29.00 -1.0
 YKA 84.47 27 eP 34 57.00 0.0
 0.7s 0.20nm 3.4mb
 S.D. = 0.8 on 6 of 6 obs.

? APR 20, 1993 23h 30m 41.18 ± 1.08s
 23.334 S ± 9.1km 65.925 W ± 25.0km
 DEPTH = 93.0 ± 24.3 km
 JUJUY PROVINCE, ARGENTINA (128)

HJA 0.49 76 iPc 30 55.20 -1.1
 YJA 1.22 19 iPc 31 06.50 2.0
 S 31 29.00
 SLA 1.44 164 iPc 31 06.00 -0.9
 S 31 28.40
 FSA 2.74 182 iP 31 25.20 1.2
 CYA 5.09 179 ePc 31 53.60 -2.9X
 CNCB 6.77 343 eP 32 28.00 7.7X
 LPB 7.07 343 P 32 24.00 -0.2
 ZOBO 7.33 343 eP 32 27.00 -0.9

SIV 8.62 33 P 32 45.00 -0.1
 S.D. = 1.7 on 7 of 9 obs.
 & APR 20, 1993 23h 53m 04.16s
 37.587 N 118.869 W
 DEPTH = 7.3km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 3.1 (GM). ML 3.0
 (BRK).

MEMM 0.10 325 iPd 53 06.71 0.2
 MMPM 0.13 280 iPc 53 07.07 -0.2
 MRCM 0.30 74 ePc 53 10.26 -0.1
 MTUM 0.34 134 iPd 53 10.87 -0.2
 BONR 0.58 51 iPc 53 15.43 -0.4
 FRI 0.90 229 iPc 53 20.92 -0.6
 eS 53 32.36
 CMB 1.28 291 iPd 53 27.54 -0.7
 eS 53 45.25
 TNP 1.40 69 eP 53 30.40 0.2
 KVN 1.58 22 eP 53 33.98 1.2
 LLA 1.92 240 ePc 53 37.66 0.1
 eS 54 03.88
 ISA 1.95 170 eP 53 39.48 1.5
 S 54 04.34
 PRI 2.04 225 ePc 53 41.15 1.8
 eS 54 08.54
 ARN 2.13 264 eP 53 41.89 1.2
 PHAM 2.14 216 eP 53 42.50 1.8
 TPNV 2.18 106 eP 53 41.26 -0.3
 SAO 2.22 249 eP 53 41.63 -0.2
 COE 2.26 262 (P) 53 42.35 -0.1
 PRS 2.36 239 ePc 53 45.12 1.2
 BCH 2.59 203 (P) 53 46.50 -0.8
 GSC 2.82 143 eP 53 52.08 1.5
 MSU 5.36 78 (P) 54 26.80 0.0
 21 obs. associated

? APR 21, 1993 00h 30m 19.96 ± 1.61s
 46.389 N ± 26.0km 150.262 E ± 27.5km
 DEPTH = 33.0km (normal)
 3.7mb (2 obs.)
 KURIL ISLANDS (221)

KUSJ 5.14 232 eP 31 35.70 -1.0
 eS 32 34.50
 ASAJ 5.84 250 eP 31 57.70 11.2X
 HOOJ 6.40 234 eP 31 54.90 0.5
 eS 33 09.60
 YKA 52.38 36 eP 39 31.10 0.5
 0.4s 0.20nm 3.4mb
 GUN 53.07 273 P 39 37.20 0.6
 KKN 53.55 274 P 39 41.00 1.0
 PKI 53.60 273 P 39 40.00 -0.5
 DMN 53.79 274 P 39 42.40 0.6
 GKN 53.87 274 P 39 42.00 -0.2
 GEC2 77.89 332 eP 42 14.20 -1.6
 1.2s 1.88nm 4.0mb
 e 42 21.10
 S.D. = 1.0 on 9 of 10 obs.

& APR 21, 1993 00h 38m 07.05s
 61.278 N 150.168 W
 DEPTH = 37.9km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.7 (AEIC).

PMS 0.30 96 P 38 15.10 -0.1
 SUA 0.33 304 iPd 38 15.63 -0.1
 eS 38 23.26
 PWA 0.40 20 P 38 15.80 -0.5
 PLRM 0.59 57 iPc 38 18.00 -0.9
 eS 38 27.38
 PMR 0.59 57 iPd 38 17.66 -1.3
 eS 38 26.91
 PTE 0.69 126 iPc 38 19.74 -0.7
 eS 38 30.04
 NKA 0.75 225 ePd 38 21.95 0.8
 SLKM 0.77 182 iPd 38 20.44 -1.1
 GH0 0.78 50 iPc 38 20.71 -1.0
 eS 38 31.92
 MPA 0.88 153 iPc 38 22.28 -0.8
 eS 38 34.66
 CGLM 0.89 273 eP 38 23.21 -0.1
 SPU 0.92 265 iPd 38 22.53 -1.1
 eS 38 35.67
 CPAM 0.95 269 iPc 38 23.62 -0.6

SKT 0.96 318 iPc 38 23.45 -0.8
 eS 38 36.92
 CRP 0.96 270 iPc 38 23.02 -1.3
 eS 38 36.00
 CKN 0.97 268 iPc 38 23.89 -0.6
 CKT 0.99 266 ePc 38 23.74 -1.0
 CP2 1.00 270 iPc 38 23.94 -1.1
 eS 38 37.88
 SML 1.03 58 ePc 38 24.19 -1.0
 CKL 1.05 266 iPc 38 24.72 -0.9
 BGL 1.07 270 iPc 38 25.05 -0.9
 SEW 1.23 163 eP 38 27.24 -0.8
 DFR 1.41 242 iPc 38 29.68 -1.0
 SCM 1.47 66 iPc 38 30.70 -0.8
 eS 38 50.54
 RSO 1.51 238 iPc 38 31.27 -0.9
 RS2 1.51 238 iPc 38 31.31 -0.9
 RS1 1.51 238 iPc 38 31.35 -0.9
 NCT 1.53 243 iPc 38 31.52 -0.9
 BRKL 1.56 193 eP 38 32.05 -0.7
 CNPM 1.84 197 eP 38 35.39 -1.4
 VLZ 1.86 93 ePd 38 35.51 -1.6
 INE 1.88 231 eP 38 36.50 -1.0
 INW 1.90 232 eP 38 36.99 -0.7
 HIN 2.00 115 eP 38 36.78 -2.4
 KLU 2.06 82 iPd 38 38.29 -1.7
 TRF 2.18 359 ePd 38 41.70 -0.2
 OPT 2.23 224 eP 38 42.01 -0.3
 CVA 2.28 107 eP 38 39.79 -3.2
 PDB 2.49 235 eP 38 45.41 -0.6
 SDG 2.52 58 eP 38 47.29 0.8
 SGAM 2.55 106 ePc 38 43.85 -3.0
 SVW 2.65 269 iPc 38 46.22 -2.1
 PAX 2.79 50 eP 38 50.37 0.0
 RAGM 2.83 106 eP 38 47.83 -3.2
 CDD 2.93 218 eP 38 51.49 -0.8
 GLB 3.07 84 iPc 38 51.87 -2.4
 TTA 3.21 304 eP 38 54.04 -2.2
 CROM 3.46 96 eP 38 57.60 -2.4
 HDA 3.47 24 eP 39 00.20 0.3
 TGL 3.61 95 eP 38 58.85 -3.2
 FBA 3.79 15 (P) 39 03.21 -1.3
 BALM 3.80 90 iPc 39 01.73 -3.0
 IMA 5.06 344 (P) 39 20.59 -1.9
 53 obs. associated

* APR 21, 1993 00h 52m 37.76 ± 0.81s
 20.383 S ± 8.2km 68.479 W ± 16.9km
 DEPTH = 167.0 ± 14.1 km
 3.0mb (1 obs.)
 CHILE-BOLIVIA BORDER REGION (124)

YJA 3.30 123 iPc 53 30.50 0.0
 CNCB 3.58 8 iPc 53 34.90 0.6
 CCH 3.72 37 P 53 39.80 4.0X
 ANT 3.76 208 eP 53 36.00 0.0
 LPB 3.85 5 P 53 38.00 0.4
 ZOBO 4.11 5 P 53 40.00 -1.1
 SIV 8.28 59 P 54 49.60 13.7X
 YKA 90.27 340 eP 05 20.20 0.0
 0.6s 0.10nm 3.0mb
 S.D. = 0.9 on 6 of 8 obs.

* APR 21, 1993 02h 27m 21.56 ± 0.94s
 31.765 S ± 8.3km 67.994 W ± 8.4km
 DEPTH = 19.8 ± 11.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.26 307 ePd 27 28.00 0.3
 RTCV 0.47 258 eP 27 31.30 -0.2
 RTLL 0.59 317 iPc 27 32.70 -0.5
 (S) 27 40.00
 RTCB 0.74 292 iPd 27 35.50 -0.2
 S 27 44.00
 RTBS 1.25 274 ePd 27 44.00 0.1
 S 28 02.40
 MRA 2.04 109 iPc 27 56.80 1.4X
 e 27 58.80
 (S) 28 24.80
 TCA 2.94 83 eP 28 02.00 -6.1X
 (S) 28 49.00
 RFA 3.02 187 eP 28 09.20 -0.2
 i 28 17.00
 S 28 56.00
 CYA 3.82 31 ePc 28 20.80 0.1
 S 29 10.60
 S.D. = 0.4 on 7 of 9 obs.

% APR 21, 1993 03h 25m 49.18±0.79s
44.546 N ± 6.0km 7.454 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

PZZ 0.26 261 P 25 55.13 0.5
S 25 58.92
STV 0.32 197 P 25 55.86 0.1
S 26 00.29
ENR 0.32 184 P 25 55.91 0.0
S 26 00.46
BHB 0.33 335 P 25 56.14 0.2
S 26 00.82
ROB 0.39 130 P 25 57.98 0.8
S 26 03.87
RRL 0.61 308 P 26 01.03 -0.6
S 26 08.90
IMI 0.71 154 P 26 02.16 -1.0
S 26 10.86
S.D. = 0.8 on 7 of 7 obs.

? APR 21, 1993 03h 56m 29.52±4.86s
14.322 N ± 59.7km 60.717 W ± 59.0km
DEPTH = 75.0km (geophysicist)
WINDWARD ISLANDS (95)

MVM 0.29 323 iPc 56 41.45 0.1
S 56 51.50
BIM 0.39 299 eP 56 41.99 -0.1
S 56 52.20
CRM 0.47 336 iPd 56 42.59 -0.1
S 56 53.30
FDF 0.59 314 iPc 56 43.92 0.1
S 56 55.80
S.D. = 0.2 on 4 of 4 obs.

? APR 21, 1993 04h 37m 31.10±5.58s
44.982 S ± 19.2km 167.294 E ± 27.9km
DEPTH = 163.9 ± 42.6 km
SOUTH ISLAND, NEW ZEALAND (162)

MSZ 0.54 55 P 37 54.60 0.2
BCZ 1.09 160 P 37 57.90 -0.3
S 38 14.00
TLC 1.28 100 P 38 00.30 0.2
MHZ 1.41 94 Pc 38 01.40 0.1
SBCZ 1.43 95 Pc 38 01.40 -0.1
LRCZ 1.46 94 P 38 01.60 -0.2
LSCZ 1.48 96 Pc 38 01.80 -0.1
MSCZ 1.51 95 P 38 02.10 -0.1
BWZ 1.90 77 P 38 06.20 -0.1
TUZ 1.91 121 P 38 06.70 0.3
S 38 27.50
SIZ 1.98 163 P 38 07.30 0.1
ODZ 2.38 93 P 38 11.80 -0.1
S.D. = 0.2 on 12 of 12 obs.

& APR 21, 1993 04h 58m 14.83s
60.216 N 152.742 W
DEPTH = 92.6km
SOUTHERN ALASKA (2)
<AEIC>.

INE 0.22 226 iPc 58 27.77 0.7
RS1 0.25 358 iPc 58 28.09 0.9
INW 0.25 233 iPc 58 27.85 0.8
eS 58 39.39
RSO 0.25 359 iPc 58 28.05 0.9
eS 58 39.26
RS2 0.25 358 iPc 58 28.06 0.9
RDN 0.30 358 eP 58 28.36 -0.6
NCT 0.36 345 ePc 58 28.44 -0.8
eS 58 39.75
DFR 0.38 4 eP 58 28.50 -0.8
RDT 0.40 25 eP 58 28.85 -0.6
PDB 0.85 240 eP 58 32.26 -1.0
eS 58 46.21
AUL 0.91 203 eP 58 33.22 -0.7
NKA 0.91 54 iPc 58 35.03 1.0
XLV 0.92 146 iPd 58 33.16 -1.0
AUH 0.93 203 eP 58 33.50 -0.7
CKL 1.00 11 iPd 58 34.36 -0.8
eS 58 49.85
CKT 1.02 15 eP 58 34.46 -0.9
SPU 1.03 19 eP 58 34.39 -1.0

CNPM 1.03 132 eS 58 50.26
eS 58 34.69 -0.7
eS 58 50.62
BRLK 1.04 115 eP 58 35.06 -0.4
eS 58 50.89
BGL 1.07 9 ePd 58 35.27 -0.6
CP2 1.08 13 eP 58 35.41 -0.7
CPAM 1.08 16 eP 58 35.60 -0.5
CRP 1.09 15 eP 58 34.78 -1.5
eS 58 50.79
SLKM 1.29 76 eP 58 37.44 -1.0
MCNL 1.31 219 eP 58 37.45 -1.3
eS 58 55.27
CDD 1.37 200 eP 58 37.99 -1.5
SUA 1.59 37 ePd 58 41.53 -0.8
SYI 1.62 173 eP 58 42.61 0.0
SEW 1.65 92 eP 58 43.35 0.4
SVW 1.68 304 eP 58 41.91 -1.5
MPA 1.70 79 eP 58 42.06 -1.6
SKT 1.87 18 eP 58 44.62 -1.3
PMS 1.87 55 iPc 58 45.08 -0.9
PTE 1.95 69 eP 58 45.10 -1.8
PWA 2.01 43 eP 58 47.20 -0.5
PMR 2.24 50 eP 58 48.64 -2.2
GHO 2.43 48 eP 58 51.45 -2.1
SML 2.68 51 eP 58 54.44 -2.4
SCM 3.09 56 eP 59 00.17 -2.4
KLU 3.57 66 eP 59 05.94 -3.3
40 obs. associated

? APR 21, 1993 05h 16m 52.20±1.87s
38.737 N ± 12.2km 15.531 E ± 33.9km
DEPTH = 110.0km (geophysicist)

SICILY (398)
CZI 0.67 44 P 17 11.00 0.5
eS 17 26.20
SOI 0.78 148 P 17 11.40 -0.1
eSg 17 23.30
ROI 1.16 44 P 17 15.00 -0.4
CSI 1.19 29 P 17 16.00 0.2
MGR 1.40 1 P 17 18.00 -0.1
S.D. = 0.5 on 5 of 5 obs.

APR 21, 1993 06h 11m 46.01±0.36s
34.770 N ± 4.9km 84.763 E ± 7.0km
DEPTH = 33.0km (normal)
4.5mb (17 obs.)

XIZANG (306)
GKN 6.75 181 P 13 26.20 0.7
GUN 6.90 172 P 13 28.20 0.4
KKN 6.97 176 P 13 28.80 0.1
DMN 7.14 178 P 13 31.40 0.3
PKI 7.20 175 P 13 32.20 0.3
LSA 7.40 131 eP 13 37.40 2.5X
KSH 8.43 306 P 13 52.20 3.3X
0.7s 20.00nm 5.4mb
Z 12s 3.13um 6.3MszX
S 15 32.00
NDI 8.84 229 iPc 14 53.30 58.9X
WMO 9.32 13 eP 14 00.50 -0.6
Z 16s 0.78um
sS 16 02.00
GTA 12.88 65 eP 14 53.50 4.0X
1.5s 8.00nm 4.6mb
Z 12s 0.54um 4.6Msz
N 11s 0.60um
LZH 15.61 80 eP 15 30.00 4.6X
1.0s 15.00nm 4.1mb
Z 10s 0.27um 4.2MszX
HYB 18.15 199 ePc 15 52.40 -4.8X
0.8s 34.60nm 4.6mb
KMI 18.28 117 Pc 15 59.00 0.0
1.5s 60.00nm 4.5mb
pP 16 04.50
XAN 19.94 85 P 16 16.90 -1.2
2.0s 34.00nm 4.3mb
sS 20 06.00
ScS 27 48.00
CHG 20.28 138 eP 16 19.30 -2.3
0.9s 10.92nm 4.2mb
GYA 20.56 108 P 16 24.60 0.0
1.0s 19.00nm 4.4mb
N 12s 0.42um
E 12s 0.25um
MAIO 20.61 282 eP 16 25.00 0.0

BTO 20.78 66 eP 16 27.00 0.2
HHC 21.98 66 P 16 40.30 1.4
1.2s 280.00nm 5.6mbX
GBA 22.09 199 Pd 16 40.00 0.0
BJI 25.42 69 eP 17 13.50 1.4
1.5s 34.00nm 4.7mb
KSP 50.91 311 eP 20 49.60 3.8X
HFS 51.31 323 eP 20 48.40 -0.3
0.4s 2.80nm 4.5mb
Z 15s 0.09um 3.9MszX
LR 43 01.00
NB2 52.46 324 P 20 56.60 -0.9
0.7s 5.50nm 4.6mb
GEC2 52.94 308 eP 21 01.90 0.6
0.8s 3.31nm 4.3mb
e 21 04.50
e 21 08.80
MBC 68.20 6 eP 22 44.50 -0.2
0.9s 4.00nm 4.5mb
WRA 71.96 131 P 23 08.10 -0.2
0.7s 1.70nm 4.2mb
WB2 71.97 131 eP 23 07.80 -0.6
0.6s 5.20nm 4.7mb
FBA 72.55 21 (P) 23 12.70 1.5
0.9s 2.92nm 4.3mb
INK 73.34 14 eP 23 17.00 1.3
YKA 81.83 9 eP 24 01.30 -1.4
0.7s 1.10nm 4.0mb
ZOBO 149.53 300 ePKP 31 30.00 0.0
LPB 149.68 300 PKP 31 28.00 -2.0
CNCB 149.79 299 PKP 31 32.00 1.7
S.D. = 1.0 on 27 of 34 obs.

? APR 21, 1993 07h 10m 31.00±5.07s
15.422 N ± 11.9km 61.373 W ± 30.8km
DEPTH = 174.8 ± 50.1 km
LEEWARD ISLANDS (92)

MGC 0.50 6 eP 10 56.10 -0.3
PAG 0.67 334 eP 10 56.60 0.2
FDF 0.72 163 ePd 10 56.12 -0.5
S 11 14.90
SFG 0.84 12 ePc 10 57.50 0.2
DEG 0.94 19 ePc 10 58.15 0.1
S 11 19.00
BIM 0.95 162 iPd 10 59.00 0.9
S 11 19.50
MVM 0.98 152 iPc 10 57.81 -0.5
MGH 1.52 328 eP 11 03.00 -0.1
BPA 1.68 344 iPc 11 04.60 -0.1
S 11 29.30
S.D. = 0.6 on 9 of 9 obs.

% APR 21, 1993 07h 27m 20.07±0.99s
39.163 N ± 8.3km 27.546 E ± 16.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.80 196 iPg 27 35.60 0.0
iSg 27 47.60
DST 0.95 62 iPn 27 37.90 -0.3
EDC 1.21 12 ePn 27 42.00 -0.5
BNT 1.23 13 ePn 27 43.00 0.1
KCT 1.25 30 ePn 27 44.00 0.7
S.D. = 0.6 on 5 of 5 obs.

% APR 21, 1993 08h 17m 53.63±1.12s
39.405 N ± 6.4km 30.186 E ± 12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ALT 0.35 190 iPg 18 00.90 -0.1
eSg 18 06.80
GPA 0.89 6 ePn 18 11.00 0.3
EYL 1.16 359 ePn 18 15.00 -0.4
DST 1.22 280 iPn 18 15.00 -0.6
YLV 1.32 332 iPn 18 17.50 -0.5
KCT 1.64 301 iPn 18 23.90 1.3
S.D. = 0.9 on 6 of 6 obs.

% APR 21, 1993 08h 54m 36.34±1.01s
39.771 N ± 8.3km 29.530 E ± 10.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV 0.80 351 ePn 54 53.00 1.0
 ALT 0.84 148 iPg 54 52.80 0.1
 eSg 55 01.80
 EYL 0.93 31 ePn 54 54.00 -0.1
 KCT 1.02 298 iPn 54 55.70 0.1
 ISK 1.34 345 ePn 55 00.00 -1.0
 S.D. = 1.0 on 5 of 5 obs.

APR 21, 1993 09h 15m 19.15±0.50s
 41.114 N ±4.7km 22.477 E ±4.1km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.5 (SKO), 2.2 (THE).

GRG 0.17 200 ePg 15 22.72 -0.3
 eSg 15 25.20
 VAY 0.22 19 iPg 15 23.80 -0.1
 iSg 15 27.40
 KNT 0.32 81 ePg 15 26.12 0.3
 eSg 15 31.04
 THE 0.61 142 ePg 15 30.68 -0.7
 eSg 15 38.88
 SOH 0.73 113 ePg 15 33.12 -0.3
 SRS 0.84 89 ePg 15 35.36 -0.1
 eSg 15 47.36
 FNA 0.90 249 ePg 15 35.68 -0.7
 eSg 15 47.24
 LIT 1.01 179 ePg 15 38.32 0.0
 SKO 1.16 318 iPg 15 40.20 -0.6
 iSg 15 56.30
 OHR 1.27 270 ePg 15 44.00 1.3
 eSg 15 59.00
 PAIG 1.50 142 iPb 15 47.20 1.1
 HFS 19.81 347 eP 20 00.50 8.1X
 0.4s 2.10nm 3.8mb
 S.D. = 0.7 on 11 of 12 obs.

? APR 21, 1993 09h 46m 12.49±4.27s
 10.790 N ±21.6km 62.213 W ±34.0km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF VENEZUELA (97)
 MD 3.2 (TRN).

TCE 0.46 102 eP 46 21.62 -0.3
 eS 46 39.89
 TRN 0.81 100 eP 46 27.70 -0.4
 eS 46 47.74
 TPP 0.88 122 eP 46 29.18 -0.3
 eS 46 50.21
 TBH 1.17 105 eP 46 35.29 1.0
 eS 47 01.85
 GRW 1.46 22 eP 46 39.00 0.0
 eS 47 05.01
 S.D. = 0.8 on 5 of 5 obs.

* APR 21, 1993 09h 58m 37.50±1.93s
 50.619 N ±15.7km 18.898 E ±11.9km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 2.6 (BRA).

RAC 0.70 220 iPd 58 50.30 -1.0
 iS 58 57.20
 KSP 1.67 279 ePn 59 07.00 0.1
 0.5s 87.00nm
 iPg 59 11.00
 iS 59 31.40
 SPC 1.68 148 iPnc 59 07.00 -0.2
 iSn 59 27.10
 Lg 59 32.00
 VRAC 1.98 229 iPnc 59 11.90 0.5
 0.7s 83.50nm
 iSg 59 34.70
 ZST 2.69 206 iPn 59 21.70 0.1
 i 59 38.80
 i(Sn) 59 49.10
 Lg 00 02.00
 SRO 2.83 188 i(Pn) 59 29.10 5.5X
 PRU 2.86 259 ePn 59 23.40 -0.6
 0.8s 61.20nm
 Pg 59 30.80
 eSg 00 05.50
 VKA 2.90 217 i(Pg) 59 30.60 6.1X
 0.5s 73.20nm
 i(Sg) 00 04.70
 BRG 3.16 277 iPg 59 37.00 8.9X
 iSg 00 18.00

KHC 3.75 249 Pn 59 36.50 -0.2
 e 59 47.30
 Sn 00 14.30
 Sg 00 30.00
 CLL 3.79 283 ePg 59 50.00 12.8X
 iSg 00 42.80
 GEC2 3.81 244 Pg 59 47.00 9.4X
 Sg 00 31.50
 UZD 4.04 183 eP 59 59.00 18.4X
 WET 4.16 252 eP 59 54.60 12.1X
 KBA 5.10 228 iP 59 57.20 1.3
 0.9s 42.40nm 5.1mb
 i 59 59.00
 i 00 02.40
 i 00 13.10
 i 00 56.80
 iSg 01 19.40
 VOY 5.67 218 eP 00 00.20 -3.8X
 e 00 40.40
 e(Sn) 01 11.20
 CEY 5.73 213 eP 00 28.00 23.4X
 e 00 43.00
 e(Sn) 01 21.50
 S.D. = 0.8 on 8 of 17 obs.

* APR 21, 1993 10h 00m 51.18±1.36s
 3.081 S ±11.2km 134.385 E ±22.5km
 DEPTH = 33.0km (normol)
 5.1mb (3 obs.)
 IRIAN JAYA REGION, INDONESIA (196)

SWI 3.82 305 ePc 01 49.50 0.4
 iS 02 33.50
 MTN 10.22 198 eP 03 19.00 0.2
 0.4s 75.00nm 6.3mb X
 eS 05 12.00
 KNA 13.75 203 eP 04 05.00 -1.2
 0.7s 36.00nm 5.3mb
 WB2 16.76 180 eP 04 41.00 -4.2X
 i 04 44.30
 eS 07 30.70
 ASPA 20.47 181 iPd 05 30.10 1.1
 0.7s 111.10nm 5.3mb
 eS 09 11.90
 WARB 24.14 197 eP 06 09.00 3.6X
 0.6s 6.00nm 4.3mb
 GBA 58.87 288 P 11 00.00 10.4X
 MBC 96.82 13 eP 14 19.00 -0.6
 CNCB 150.36 133 PKP 20 43.20 6.2X
 LPB 150.45 132 ePKP 20 37.00 0.1X
 ZOBO 150.59 132 PKP 20 44.70 7.3X
 CCH 151.30 136 ePKP 20 45.00 6.9X
 S.D. = 1.3 on 5 of 12 obs.

& APR 21, 1993 11h 03m 34.51s
 60.018 N 152.772 W
 DEPTH = 94.8km
 SOUTHERN ALASKA (2)
 <AEIC>.

INE 0.15 287 eP 03 47.52 0.8
 eS 03 58.16
 INW 0.19 286 iPd 03 47.56 0.8
 eS 03 58.78
 OPT 0.43 212 iPd 03 48.79 -0.7
 eS 04 00.46
 RS1 0.44 1 iPc 03 49.18 -0.6
 iS 04 00.50
 RSO 0.45 1 iPc 03 49.17 -0.7
 iS 04 00.47
 RS2 0.45 1 iPc 03 49.18 -0.7
 eS 04 00.57
 NCT 0.55 352 iPc 03 49.74 -0.8
 eS 04 01.35
 DFR 0.58 4 iPc 03 49.96 -0.8
 eS 04 01.87
 RDT 0.59 18 eP 03 49.92 -0.8
 AUL 0.72 208 eP 03 51.18 -0.7
 AUE 0.73 205 eP 03 51.15 -0.8
 AUH 0.74 208 ePd 03 51.70 -0.4
 AUW 0.74 209 iPd 03 51.38 -0.7
 PDB 0.75 253 ePd 03 51.48 -0.7
 eS 04 04.59
 AUI 0.76 206 eP 03 51.34 -0.9
 eS 04 04.47
 CNPM 0.92 122 iPd 03 53.18 -0.8
 NKA 1.05 46 iPc 03 56.33 0.9

MCNL 1.15 224 iPd 03 55.52 -1.1
 eS 04 11.46
 CDD 1.18 203 eP 03 56.04 -0.9
 CKL 1.20 10 iPc 03 56.64 -0.7
 CKT 1.22 13 iPc 03 56.74 -0.8
 SPU 1.22 17 iPc 03 56.72 -0.8
 CKN 1.24 13 iPc 03 57.24 -0.5
 BGL 1.26 8 eP 03 56.09 -2.0
 CP2 1.28 12 eP 03 56.99 -1.3
 CPAM 1.28 14 iPc 03 57.66 -0.6
 CRP 1.29 13 iPc 03 57.86 -0.6
 SLKM 1.36 68 eP 03 58.14 -1.1
 SYI 1.43 172 eP 03 59.09 -0.8
 SEW 1.67 86 iPc 04 01.69 -1.3
 SUA 1.76 34 ePc 04 03.78 -0.6
 MPA 1.77 73 iPc 04 03.16 -1.1
 PMS 2.00 51 P 04 06.80 -0.7
 PTE 2.04 64 eP 04 06.53 -1.4
 SKT 2.06 17 iPc 04 07.20 -1.0
 PWA 2.17 40 P 04 09.30 -0.3
 PMR 2.38 47 eP 04 10.82 -1.7
 GHO 2.58 45 ePc 04 13.84 -1.4
 SML 2.82 48 iPc 04 16.61 -1.8
 39 obs. associated

& APR 21, 1993 11h 12m 03.31s
 62.801 N 148.646 W
 DEPTH = 61.9km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.6 (AEIC).

HUR 0.49 292 iPc 12 15.43 0.0
 eS 12 24.81
 RND 0.61 351 ePd 12 16.65 -0.2
 eS 12 26.57
 MCK 0.94 352 ePc 12 20.78 -0.1
 eS 12 34.25
 TRF 0.99 312 iPc 12 21.42 -0.2
 SML 1.01 172 iPd 12 21.40 -0.3
 eS 12 36.39
 GHO 1.04 187 iPd 12 22.03 -0.2
 eS 12 36.63
 SCM 1.15 147 ePc 12 23.52 -0.1
 eS 12 39.96
 PMR 1.23 191 eP 12 24.43 -0.3
 eS 12 41.36
 PLRM 1.23 191 eP 12 24.83 0.1
 PWA 1.29 207 P 12 26.20 0.7
 THY 1.45 64 eP 12 28.33 0.6
 SDG 1.46 99 iPc 12 28.05 0.2
 eS 12 47.08
 PAX 1.47 82 iPc 12 27.92 -0.1
 eS 12 46.76
 SKT 1.58 240 iPc 12 29.48 0.0
 eS 12 50.32
 PMS 1.62 196 P 12 30.70 0.6
 SUA 1.67 217 ePc 12 31.56 0.8
 TZL 1.68 115 eP 12 31.28 0.4
 WRH 1.70 8 iPc 12 30.09 -1.0
 HDA 1.78 24 eP 12 31.40 -0.8
 NEA 1.79 354 iPc 12 31.29 -1.1
 KLU 1.83 135 iPc 12 32.64 -0.4
 eS 12 56.28
 CCB 1.89 11 eP 12 32.74 -1.0
 eS 12 54.73
 PTE 1.95 185 ePc 12 34.90 0.3
 VLZ 2.00 146 iPc 12 34.37 -0.9
 FBA 2.14 10 eP 12 35.82 -1.4
 MDM 2.17 5 iPc 12 36.76 -1.0
 eS 13 00.97
 DOT 2.24 66 eP 12 38.73 0.0
 CRP 2.26 229 eP 12 39.12 0.0
 CPAM 2.26 228 eP 12 39.86 0.8
 GLM 2.26 14 eP 12 39.44 0.4
 SPU 2.29 226 eP 12 39.82 0.5
 eS 13 09.47
 CP2 2.29 229 eP 12 40.11 0.5
 CKN 2.30 228 eP 12 41.86 2.3
 CKT 2.32 228 eP 12 41.48 1.6
 BGL 2.34 231 eP 12 41.07 0.9
 MPA 2.35 189 eP 12 41.27 1.2
 CKL 2.37 229 eP 12 41.13 0.5
 NKA 2.40 212 P 12 45.00 4.1
 SLKM 2.42 199 eP 12 42.11 0.9
 MLY 2.42 338 iPc 12 40.25 -1.0
 HIN 2.62 156 eP 12 42.82 -1.2
 GLB 2.65 119 iPc 12 43.92 -0.6

21d 11h

CVA	2.65	147	eP	12	43.48	-0.9
SEW	2.73	188	eP	12	45.78	0.2
SGAM	2.83	143	eP	12	44.69	-2.3
DFR	2.94	223	eP	12	48.87	0.3
RS2	3.06	222	eP	12	51.63	1.2
RAGM	3.08	140	eP	12	49.23	-1.3
CROM	3.32	126	eP	12	52.95	-1.2
TTA	3.38	275	eP	12	52.69	-2.1
TGL	3.44	124	ePd	12	54.09	-1.6
BALM	3.47	118	eP	12	54.50	-1.6
CNPM	3.52	202	eP	12	56.90	0.2

53 obs. associated

• APR 21, 1993 11h 40m 50.09±0.62s
 21.505 S ± 7.5km 66.835 W ± 11.2km
 DEPTH = 234.4 ± 11.5 km
 3.7mb (1 obs.)

SOUTHERN BOLIVIA (125)

YJA	1.40	118	iPd	41	26.90	-0.1
			S	41	52.00	
HJA	2.16	142	iPc	41	39.60	6.5X
			(S)	42	12.00	
SLA	3.44	159	iPc	41	49.00	1.8
			(S)	42	33.00	
ANT	3.97	236	iP	41	51.00	-2.3
CCH	4.15	9	P	41	55.00	-0.9
			i	42	43.00	
FSA	4.62	171	iPc	42	04.00	2.8X
CNCB	4.79	347	iPc	42	05.20	1.2
			S	43	02.00	
LPB	5.09	346	P	42	08.20	0.7
	1.0s	240.00nm			5.1mb X	
ZOBO	5.35	347	P	42	10.80	-0.1
			S	43	11.80	
ARE	6.67	318	eP	42	27.00	-0.5
			eS	43	39.00	
CYA	6.97	172	ePc	42	32.40	1.4
SIV	7.74	46	P	42	51.20	10.4X
TCA	10.00	169	iPc	43	09.50	-0.3
PPD	14.43	95	eP	44	04.50	-0.8
VAO	18.45	98	eP	44	48.70	-2.1
BAO	18.79	75	(P)	44	55.00	0.6
YKA	91.84	340	eP	53	33.40	1.3
	0.6s	0.50nm			3.7mb	

S.D. = 1.5 on 14 of 17 obs.

APR 21, 1993 12h 04m 59.16±0.50s
 50.399 N ± 3.9km 5.940 E ± 10.4km
 DEPTH = 10.0km (geophysicist)

BELGIUM (541)

ML 3.0 (LDG), 2.7 (UCC).

MEM	0.22	11	iPc	05	03.59	-0.2
			iS	05	06.86	
ENN	0.37	358	iPgc	05	07.00	0.3
	0.5s	23.30nm				
			iSg	05	12.30	
			eRg	05	17.00	
WLF	0.75	169	iPd	05	14.54	0.8
			iS	05	24.48	
CDF	2.17	156	Pn	05	36.30	0.4
			Pg	05	41.60	
			Sn	05	59.60	
			Sg	06	09.20	
HAU	2.41	173	Pn	05	38.10	-1.2
			Pg	05	45.50	
			Sg	06	18.00	
BSF	2.63	167	Pg	05	52.20	9.7X
			Sg	06	22.70	
LOR	3.42	204	Pn	05	54.00	0.4
			Sn	06	33.10	
			Sg	06	48.90	
LBF	3.66	202	Pn	05	57.60	0.6
			Sn	06	39.90	
			Sg	06	57.30	
SSF	3.71	207	Pn	05	57.70	0.0
			Sn	06	42.00	
			Sg	06	58.50	
AVF	4.00	206	Pn	06	01.20	-0.5
			Sg	07	10.80	
SMF	4.01	201	Pn	06	01.80	-0.1
			Sg	07	10.50	
LDF	4.34	248	Pg	06	24.00	17.3X
			Sg	07	20.00	
BGF	4.36	209	Pn	06	06.90	0.0
			Sg	07	20.20	

FLN	4.49	251	Pg	06	26.50	17.8X
LPG	4.93	173	Pn	06	15.10	-0.3

S.D. = 0.6 on 12 of 15 obs.

? APR 21, 1993 12h 13m 26.18±8.92s
 50.054 N ± 64.1km 6.195 E ± 41.0km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)

RUP	0.66	122	ePn	13	39.08	-0.3
ABH	0.89	101	ePn	13	43.32	0.0
HAU	2.05	177	Pg	14	00.40	-0.8
			Sg	14	29.60	
BSF	2.26	170	Pg	14	05.10	0.9
			Sg	14	35.00	

S.D. = 1.2 on 4 of 4 obs.

APR 21, 1993 12h 58m 31.50±0.16s
 0.012 S ± 3.0km 123.686 E ± 4.7km
 DEPTH = 148.6km (7 depth phases)
 5.1mb (60 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

Mw 5.2 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 16C

Centroid Location:

Origin Time 12:58:33.6 0.7

Lat 0.07N 0.09 Lon 123.84E 0.07

Dep 136.0 2.9 Half-duration 1.0

Moment Tensor: Scale 10¹⁶ Nm

Mrr=5.94 0.47 Mtt=1.61 0.95

Mff=-7.54 1.02 Mrt=-0.73 0.55

Mrf=-0.56 0.53 Mtf=0.03 0.62

Principal Axes:

T Vol=6.08 Plg=80 Azm=166

N 1.49 9 0

P -7.57 2 270

Best Double Couple: Mo=6.8*10¹⁶

NP1:Strike=350 Dip=43 Slip=76

NP2: 188 48 103

CT8	7.18	4	eP	00	18.00	2.8X
DAV	7.30	15	eP	00	18.60	1.8
BIP	8.57	17	eP	00	35.00	1.2
KKM	9.58	309	ePd	00	49.30	2.1

PLP	11.18	7	ePd	01	10.80	2.7X
PGP	13.70	349	ePc	01	44.00	3.2X
MTN	14.73	150	eP	01	52.00	-1.9

0.4s 50.00nm 5.2mb

QCP 14.78 350 eP 02 07.50 13.0X

KNA 16.42 162 eP 02 14.50 -0.3

0.8s 216.00nm 5.5mb

BAG 16.60 350 eP 02 17.10 -0.2

LEM 17.40 247 iPc 02 29.00 2.0

CVP 17.70 354 ePd 02 32.40 2.1

KGM 20.46 276 eP 03 02.00 2.7X

WB2 22.40 153 iPd 03 17.10 -1.3

0.6s 175.30nm 5.7mb

eS 07 13.20

IPM 23.09 282 ePd 03 26.60 1.5

0.8s 91.20nm 5.3mb

QIZ 23.29 325 eP 03 28.00 0.9

eS 07 33.00

NANU 23.78 199 eP 03 31.50 -0.2

0.4s 28.00nm 5.1mb

SNG 24.09 288 eP 03 36.50 1.8

LAT 24.18 106 eP 03 37.20 1.6

GZH 25.07 337 P 03 45.60 1.8

PMG 25.16 112 eP 03 43.00 -1.8

ASPA 25.52 158 iPc 03 47.20 -0.8

0.6s 95.90nm 5.6mb

eP 04 13.40 124kmX

iPcP 07 16.30

eS 08 06.60

WARB 26.17 174 iPc 03 53.40 -0.6

0.5s 28.00nm 5.1mb

MEEK 26.92 190 iPc 03 59.30 -1.4

0.4s 10.00nm 4.8mb

LOE 27.69 310 iPc 04 08.00 0.2

NST 28.00 305 eP 04 11.50 1.0

BDT 29.75 306 eP 04 22.00 -4.1X

1.0s 158.70nm 5.7mb

CTA 29.77 133 iPc 04 26.00 -0.4

1.0s 50.00nm 5.2mb

MRWA 29.96 194 eP 04 26.90 -0.9

CHG	0.7s	19.00nm			4.9mb	
	30.66	309 iPc	04	34.20	0.0	
	1.1s	82.28nm			5.4mb	

FORT	30.88	173 iPc	04	34.70	-1.2	
GYA	31.01	329 P	04	38.00	0.7	
	1.0s	29.00nm			5.0mb	

		PcP	07	29.80		
SSE	31.03	356 Pc	04	37.20	0.0	
	1.0s	13.00nm			4.6mb	

BAL	31.14	192 iPc	04	37.00	-1.2	
	0.5s	23.00nm			5.2mb	
WHN	31.66	345 Pd	04	43.50	0.8	
	1.0s	30.00nm			5.0mb	

		pP	05	11.50	129kmX	
KLB	31.91	190 eP	04	43.60	-1.3	
KMI	32.17	323 Pc	04	49.00	1.5	
	1.5s	60.00nm			5.2mb	

NJ2	32.22	352 Pd	04	47.00	-0.5	
	1.1s	15.00nm			4.7mb	
MUN	32.57	192 eP	04	49.50	-1.2	
NWAO	33.30	190 eP	04	56.10	-0.9	

RKC	34.94	190 eP	05	11.50	0.5	
	0.5s	15.00nm			5.0mb	
TKSJ	35.19	15 eP	05	12.40	-0.6	
RMO	35.72	139 iPc	05	17.00	-0.7	

	0.8s	21.00nm			4.9mb	
		i	07	44.80		
WKYJ	35.84	17 P	05	18.20	-0.4	
STK	35.94	154 iPc	05	19.30	-0.1	

	0.5s	79.40nm			5.7mb	
		e	05	51.90	147km	
		iPcP	07	43.70		
		eS	10	48.50		

CD2	36.11	330 iPc	05	21.20	0.3	
	1.2s	120.00nm			5.5mb	
YONJ	36.19	14 P	05	21.20	-0.3	
TIA	36.55	351 eP	05	23.00	-1.5	

XAN	36.60	339 P	05	24.40	-0.6	
	0.9s	17.00nm			4.8mb	
Z	20s	0.30um			4.1msz	

		ScS	15	20.00		
ADE	37.50	160 eP	05	34.00	1.4	
CMS	37.68	148 iPc	05	34.30	0.3	
	0.5s	16.00nm			5.0mb	

CHJJ	38.60	20 P	05	39.50	-2.2	
MTMJ	38.70	18 P	05	41.60	-1.0	
TIY	38.95	346 eP	05	44.00	-0.6	
	1.0s	52.00nm			5.2mb	

Z	20s	0.37um			4.2msz	
BRS	39.01	137 iPc	05	45.00	-0.2	
	0.9s	9.00nm			4.5mb	
		i	07	54.00		

NIIJ	39.68	19 P	05	49.30	-1.3	
ARMA	40.25	141 iPc	05	56.50	1.0	
	0.7s	26.00nm			5.0mb	
LZH	40.38	335 Pd	05	57.80	1.3	

MTMJ	38.70	18 P	05	41.60	-1.0
TIY	38.95	346 eP	05	44.00	-0.6
	1.0s	52.00nm			5.2mb
7	20s	0.37um			4.2msz

0.8s	2.90nm	4.0mb X	0.7s	3.50nm	4.8mb	0.4s	5.00nm	4.3mb	
MDJ	44.74	6 eP	06 07.80	-0.8	MBC	96.24	12 eP	11 43.50	0.0
	0.8s	27.00nm	4.9mb			0.9s	3.00nm	4.7mb	
GTA	44.90	334 P	06 32.80	-0.3	HFS	99.86	331 ePKP	11 57.40	-2.8X
	1.2s	47.00nm	5.0mb			0.4s	3.90nm	5.2mb	
MRRJ	45.05	18 eP	06 34.10	0.1	NB2	100.73	333 Pdiff	12 01.70	-2.3
GUN	45.64	311 P	06 39.20	-0.2		0.8s	4.10nm	5.1mb	
HOOJ	45.75	20 eP	06 40.30	0.8	VBY	102.85	317 ePdiff	12 13.30	-0.5
PKI	45.83	310 P	06 40.60	-0.3	YKA	104.14	24 ePdiff	12 18.90	-0.1
	0.8s	34.00nm	5.0mb			0.7s	0.50nm	4.6mb	
KKN	46.04	310 P	06 42.20	-0.2	BGMT	113.46	40 ePKP	16 55.30	1.4
DMN	46.08	310 P	06 42.80	0.0	HVU	114.42	43 ePKP	16 56.95	1.1
GKN	46.64	310 P	06 46.80	-0.3	DUG	115.02	45 ePKP	16 57.72	0.7
KUSJ	46.88	21 P	06 48.20	-0.3	MSU	116.13	46 ePKP	17 00.82	1.5
DZM	47.07	121 iPc	06 50.60	0.2	EMUT	116.58	45 ePKP	17 01.09	1.0
ASAJ	47.07	19 P	06 49.80	-0.2	SRU	117.07	45 ePKP	17 01.61	0.6
HYB	47.67	294 ePc	06 54.00	-1.0	PV09	118.32	45 ePKP	17 04.58	1.0
	1.0s	90.00nm	5.4mb		PV10	118.43	45 ePKPc	17 04.85	1.1
			07 28.50	152km	PV08	118.63	45 ePKPc	17 05.26	1.1
GBA	47.75	288 P	06 55.00	-0.7	RSSD	118.99	38 ePKP	17 04.34	-0.2
YSS	49.71	17 iPc	07 08.60	-1.6	TUC	119.49	52 ePKP	17 06.91	1.3
	1.2s	50.00nm	5.1mb		ALO	121.78	48 ePKPc	17 11.33	1.3
			07 28.00	78kmX	JAO	124.03	14 ePKP	17 13.00	-0.6
NDI	52.77	307 iPc	07 31.50	-2.0	LTX	126.28	53 ePKP	17 19.29	0.4
ZAK	53.14	344 eP	07 34.80	-1.0	WMOK	127.42	44 ePKP	17 21.38	0.6
	1.0s	10.00nm	4.6mb		KIC	128.15	278 PKP	17 23.30	0.6
WMQ	54.16	328 P	07 43.60	0.0	TIC	128.40	278 PKP	17 23.80	0.6
	1.0s	42.00nm	5.2mb		LIC	128.45	278 PKP	17 23.20	0.0
MOY	54.96	343 eP	07 48.60	-0.5	CEH	138.49	28 (PKP)	17 43.67	2.0
BOD	58.18	354 iPc	08 11.00	-0.9	PEL	144.35	159 iPKP	17 51.60	-0.5
PRZ	58.65	322 eP	08 15.50	-0.1		0.6s	226.67nm		
KHZ	61.47	140 eP	08 34.10	-0.5	RTCV	146.26	161 ePKPd	17 56.70	1.3
ELT	61.50	335 eP	08 22.00	-12.6X	PPD	157.55	192 ePKP	18 13.90	2.0
	0.9s	22.00nm						18 45.10	
			09 09.00	203kmX	CNCB	159.71	146 PKP	18 18.00	2.9X
			16 44.00		LPB	159.87	145 PKP	18 16.00	0.9
QUE	61.65	305 eP	08 34.40	-1.9	ZOBO	160.06	145 iPKPc	18 17.10	1.6
URZ	62.02	134 eP	08 37.40	-0.8		1.0s	15.00nm		
YAK	62.04	3 iPc	08 36.90	-1.0				18 58.80	
	1.0s	262.00nm	6.1mb X		CCH	160.19	151 ePKP	18 17.00	1.7
NOZ	62.83	134 eP	08 42.70	-0.9	SIV	163.42	164 PKPc	18 13.80	-4.3X
MGD	63.53	15 ePc	08 47.00	-0.8				19 25.40	
	0.8s	50.00nm	5.5mb		S.D. = 1.1 on 144 of 156 obs.				
CSY	66.80	186 iPd	09 09.00	0.3	? APR 21, 1993 13h 12m 39.10±0.92s				
	0.6s	99.60nm	5.8mb		26.309 S ± 8.6km 27.469 E ± 8.4km				
MAIO	69.42	309 eP	09 25.00	-0.6	DEPTH = 5.0km (geophysicist)				
VAN	70.94	310 eP	09 32.30	-2.4	REPUBLIC OF SOUTH AFRICA (584)				
TIK	71.61	2 iPc	09 37.00	-1.0	PRY	0.62	180 eP	12 48.50	-3.0X
	1.2s	90.00nm	5.4mb					12 53.50	
NRI	73.28	348 iPc	09 45.50	-2.4	KSR	0.68	311 eP	12 52.50	-0.2
	1.3s	24.00nm	4.8mb					13 02.00	
SVE	75.58	330 iP	10 21.00	144km	SLR	0.93	52 e(P)	12 57.50	0.1
			10 00.00	-1.3				13 10.00	
ARU	76.47	329 ePd	10 05.00	-1.2	SEK	2.01	176 eP	13 14.00	-0.2
	0.9s	80.00nm	5.5mb					13 37.50	
MAW	79.22	200 iPd	10 22.80	1.7	SWZ	2.11	245 eP	13 15.90	0.3
	1.0s	50.00nm	5.2mb					13 40.10	
SDN	81.96	34 (P)	10 35.59	-0.1	S.D. = 0.5 on 4 of 5 obs.				
	0.9s	190.97nm	5.8mb		? APR 21, 1993 13h 18m 12.89±1.42s				
SVW	85.51	29 eP	10 57.70	4.0X	17.731 S ±28.3km 178.531 W ±27.4km				
TTA	85.59	27 eP	10 54.66	0.6	DEPTH = 606.6 ± 10.8 km				
	0.7s	4.03nm	4.4mb		4.5mb (10 obs.)				
BRW	86.66	19 eP	11 00.16	1.1	FIJI ISLANDS REGION (181)				
IMA	87.01	24 ePc	11 01.59	0.5	VUN	2.88	264 eP	19 31.90	-0.4
	0.6s	7.34nm	4.8mb		DZM	14.77	251 iPc	21 20.10	1.4
SLKM	88.08	30 ePc	11 05.24	-0.9	ARMA	29.93	239 eP	23 35.30	-0.2
PMS	88.44	29 eP	11 10.40	2.6X		0.5s	4.00nm	4.3mb	
	0.8s	13.60nm	5.0mb		RMO	31.46	248 iPc	23 48.80	0.5
PMR	88.66	29 eP	11 07.81	-1.0		0.6s	6.00nm	4.4mb	
	1.1s	19.94nm	5.1mb		CNB	33.44	232 iPc	24 05.00	0.1
SPA	89.98	180 iPc	11 16.20	1.1		0.4s	15.00nm	5.0mb	
	1.0s	49.00nm	5.5mb		CAN	33.72	232 eP	24 06.60	-0.5
			11 38.40	81kmX	CMS	35.01	240 iPc	24 17.80	0.0
KLU	90.20	29 eP	11 16.25	0.2		0.8s	12.00nm	4.6mb	
BALM	91.94	29 iPd	11 24.73	0.6	TOO	37.19	231 iPc	24 36.00	0.4
KEV	92.33	340 eP	11 24.00	-1.7		0.5s	13.00nm	4.8mb	
KAF	93.47	332 iP	11 29.20	-1.8	WB2	44.54	259 iPc	25 33.40	-0.7
	0.4s	3.60nm	5.0mb			0.5s	10.50nm	4.6mb	
INK	94.73	21 eP	11 37.50	0.8	WRA	44.55	259 P	25 34.30	0.1
	0.6s	3.00nm	4.8mb			0.6s	2.30nm	3.9mb	
BUL	94.76	250 iPd	11 37.50	-0.5	ASPA	44.73	254 iPd	25 35.30	-0.3
SLR	94.87	244 eP	11 36.60	-1.8		0.7s	38.30nm	5.0mb	
LSZ	95.30	255 iPd	11 40.00	-0.5	WARB	51.23	250 iPd	26 23.40	-0.8

21d 16h

NOZ 0.75 295 P 44 08.30 -2.1
 MAHZ 0.84 252 Pc 44 11.10 -0.2
 PUZ 1.00 329 Pc 44 13.00 -0.1
 eS 44 23.50
 HBZ 1.42 340 eP 44 19.70 1.7
 PAHZ 1.45 272 eP 44 17.90 -0.5
 URZ 1.56 295 Pc 44 19.00 -0.8
 eS 44 35.10
 TTH 1.73 249 eP 44 23.40 1.5
 TEHZ 1.94 236 P 44 25.70 1.0
 WAHZ 2.12 248 eP 44 28.20 1.0
 NGZ 2.59 264 eP 44 34.20 0.6
 CNZ 2.63 263 P 44 34.90 0.8
 PGZ 2.64 230 eP 44 34.90 0.9
 MNG 3.13 236 P 44 41.00 0.2
 S 45 13.80
 KUZ 3.34 310 eP 44 43.00 -0.7
 MTW 3.43 229 P 44 44.60 -0.3
 BLW 3.58 226 eP 44 46.90 -0.1
 CAW 3.66 232 P 44 47.90 -0.2
 MOW 3.74 227 P 44 48.60 -0.6
 MRW 3.96 233 P 44 51.90 -0.3
 eS 45 33.70
 LTZ 6.33 231 eP 45 23.30 -1.7
 S.D. = 1.1 on 20 of 20 obs.

APR 21, 1993 16h 54m 02.99 ± 0.28s
 43.089 N ± 2.3km 27.428 E ± 2.6km
 DEPTH = 28.8 ± 2.8 km
 3.9mb (10 obs.)
 BULGARIA (359)
 ML 4.4 (THE), 4.1 (TTG). Felt
 (IV) in the Provadiya area.

DMK 1.29 169 iPn 54 25.90 0.7
 BUC1 1.62 322 iPd 54 30.00 0.2
 BUC 1.64 324 iPc 54 30.20 0.0
 CTT 2.08 159 iPn 54 37.20 0.6
 CFR 2.16 14 iPc 54 38.00 0.3
 ISK 2.36 148 iPn 54 40.80 0.3
 ALN 2.42 206 iPn 54 42.04 0.6
 eSn 55 12.36
 BRD 2.44 354 ePc 54 45.00 3.2X
 MLR 2.63 337 ePd 54 45.00 0.5
 MTUR 2.73 322 ePc 54 46.50 0.6
 BNT 2.75 172 iPn 54 45.90 -0.3
 EDC 2.76 173 iPn 54 46.00 -0.2
 CMP 2.78 323 ePd 54 38.00 -8.5X
 DRA 2.79 306 ePc 54 47.00 0.4
 HRT 2.81 143 ePn 54 47.80 0.8
 VRI 2.83 350 ePc 54 48.00 0.9
 CVO 2.88 342 eP 54 47.00 -0.9
 YLV 2.91 149 ePn 54 48.30 -0.1
 KCT 2.92 166 iPn 54 48.50 0.0
 PPE 3.13 2 eP 54 53.50 2.0
 BIR 3.18 2 eP 54 55.00 2.8X
 EYL 3.24 140 ePn 54 52.80 -0.4
 TNR 3.42 320 ePc 54 54.00 -1.6
 SRS 3.47 237 iPn 54 56.46 0.1
 DST 3.60 165 iPn 54 58.50 0.3
 OUR 3.77 224 ePn 55 00.04 -0.5
 SOH 3.79 235 iPn 55 01.01 0.1
 KNT 3.88 242 ePn 55 02.40 0.3
 eSn 55 47.40
 PTT 3.92 349 eP 55 06.50 3.9X
 VAY 4.02 246 iPn 55 04.80 0.7
 1.0s 637.00nm
 iSg 56 12.40
 Lg 56 38.70
 KIS 4.06 14 iPc+ 55 04.50 -0.1
 0.5s 200.00nm
 iS 55 50.50
 GZR 4.06 306 iPd 55 03.50 -1.3
 IAS 4.11 1 eP 55 52.00 46.7X
 THE 4.14 235 ePn 55 05.94 0.1
 eSn 55 55.56
 PAIG 4.23 223 iPn 55 06.33 -0.8
 iSn 55 56.57
 DEV 4.28 312 iPc 55 08.50 0.8
 GRG 4.31 242 ePn 55 08.16 -0.1
 eSn 55 58.08
 ALT 4.51 152 ePn 55 10.90 -0.3
 SKO 4.56 258 iPn 55 12.50 0.6
 0.8s 163.00nm
 iPg 55 26.20
 iSb 56 15.70
 iSg 56 22.50

i 56 25.00
 i 56 29.20
 i 56 39.00
 i 56 42.50
 i 56 44.00
 Lg 56 45.00
 LIT 4.76 233 ePn 55 13.92 -0.7
 eSn 56 09.36
 BZK 4.99 101 iP 55 16.50 -1.4
 FNA 5.07 245 ePn 55 19.64 0.6
 SIM 5.17 67 (P) 55 26.00 5.6X
 eS 56 29.00
 OHR 5.31 250 iPn 55 27.50 5.0X
 1.2s 308.00nm
 i 55 40.80
 i 56 25.50
 i 56 33.00
 i 56 52.00
 Lg 57 07.40
 BMR 5.36 330 ePd 55 25.00 2.0
 PVY 5.50 267 iPnd 55 25.82 0.6
 iSn 56 31.19
 IVA 5.53 270 iPnd 55 25.69 0.1
 iSn 56 29.60
 AGG 5.60 225 ePn 55 25.44 -1.1
 eSn 56 29.88
 PLE 5.88 275 iPnd 55 29.72 -0.8
 iSn 56 36.10
 TTG 6.05 267 iPnd 55 33.07 0.3
 iSn 56 44.23
 ULC 6.15 262 iPnd 55 35.57 1.3
 iSn 56 47.80
 NKY 6.19 270 iPnd 55 34.86 -0.1
 iSn 56 46.18
 BDV 6.39 266 iPnd 55 38.98 1.3
 iSn 56 52.19
 IGT 6.42 239 ePn 55 38.08 0.1
 BRV 6.52 271 iPnd 55 38.98 -0.6
 iSn 56 53.00
 HCY 6.60 267 ePn 55 41.07 0.4
 iSn 56 57.07
 UZD 7.20 302 eP 56 08.00 19.1X
 SPC 7.88 323 eP 55 57.30 -1.3
 SRO 7.96 310 eP 56 25.80 26.2X
 e 57 34.30
 ZST 8.85 309 e(P) 56 50.60 38.7X
 e 57 45.20
 VBY 9.06 290 eP 56 12.60 -2.2
 MGR 9.37 256 Pd 56 19.00 -0.1
 SGO 9.40 258 P 56 19.00 0.4
 CEY 9.67 290 eP 57 15.00 51.6X
 e(S) 58 37.00
 DUI 9.71 266 P 56 23.50 -0.3
 VOY 10.10 292 e(P) 56 28.20 -1.1
 e 57 06.20
 e(S) 58 13.50
 e 59 41.70
 e 00 24.30
 AQU 10.35 271 P 56 34.60 2.0
 ARV 10.57 277 P 56 34.00 -1.6
 ASS 10.81 275 P 56 37.60 -1.3
 MNK 10.82 0 eP 56 42.00 3.1X
 MNS 10.87 271 P 56 39.50 -0.3
 KIV 11.12 80 iPc 56 37.00 -6.2X
 0.5s 9.00nm
 Z 17s 0.06um
 eS 58 47.50
 GEC2 11.15 306 ePn 56 44.40 0.8
 0.8s 0.89nm
 ePg 56 59.20
 CRE 11.29 278 P 56 45.70 0.2
 OBN 13.42 23 (P) 57 18.00 4.2X
 LPG 15.00 286 eP 57 34.50 -0.4
 0.7s 3.65nm
 LPL 15.01 286 eP 57 34.50 -0.5
 CDF 15.03 298 eP 57 36.80 1.8
 BSF 15.22 295 eP 57 38.40 0.8
 HAU 15.55 296 eP 57 41.80 0.1
 PUL 16.80 5 eP 58 03.00 5.6X
 LBF 17.01 291 eP 58 01.30 1.0
 0.9s 5.40nm
 SSF 17.34 292 eP 58 04.20 -0.1
 AVF 17.42 291 eP 58 05.20 -0.2
 0.9s 5.40nm
 NUR 17.53 355 iP 58 00.10 -6.5X
 0.4s 6.10nm
 BGF 17.76 290 eP 58 09.10 -0.5

MAF 17.94 289 eP 58 11.60 -0.3
 HFS 19.01 339 eP 58 23.90 -0.9
 0.4s 1.00nm
 KAF 19.07 358 iP 58 20.60 -4.9X
 0.4s 3.10nm
 MFF 19.82 290 eP 58 31.50 -2.6X
 0.9s 10.80nm
 LDF 19.91 296 eP 58 33.00 -2.0X
 1.3s 23.85nm
 FLN 20.16 296 eP 58 35.80 -1.8X
 NAO 20.39 336 P 58 37.70 -2.2
 0.7s 3.00nm
 VAN 23.80 92 eP 59 29.00 15.0X
 ARU 23.90 45 eP 59 15.00 0.2
 e 59 31.00
 SVE 25.10 45 ePd 59 28.00 1.6
 KIC 46.27 227 P 02 28.00 0.3
 LIC 46.54 227 P 02 30.00 0.2
 GTA 52.98 68 eP 03 18.00 -1.2
 CTB 90.06 80 eP 07 08.00 6.4X
 WRA 115.55 94 PKP 13 08.10 24.0X
 0.8s 0.30nm
 WB2 115.56 94 iPKPd 13 05.20 21.1X
 0.2s 3.60nm
 S.D. = 0.9 on 78 of 102 obs.

APR 21, 1993 16h 57m 36.92 ± 0.77s
 20.018 N ± 5.1km 121.954 E ± 7.3km
 DEPTH = 48.3 ± 9.1 km
 4.4mb (13 obs.) 4.0Msz (1 obs.)
 PHILIPPINE ISLANDS REGION (248)
 Felt (II RF) at Bosco, Baton.

BBP 0.42 1 iPc 57 44.50 -2.7
 iS 57 48.00
 PIP 2.10 217 iPc 58 11.80 1.4
 iS 58 44.00
 CVP 2.30 183 iPd 58 15.40 2.2
 iS 58 42.00
 SZP 2.83 210 iPd 58 19.00 -1.7
 BCP 3.80 200 eP 58 36.00 1.3
 eS 59 40.00
 BAG 3.82 200 eP 58 35.50 0.6
 QVP 5.44 190 eP 59 00.20 2.6X
 PGP 6.55 189 ePd 59 20.00 6.8X
 HKC 7.61 289 eP 59 26.30 -1.7
 GZH 8.58 292 Pc 59 39.40 -1.9
 PLP 9.27 161 ePc 59 51.00 0.1
 SSE 11.05 357 Pd 00 11.30 -3.9X
 0.9s 7.00nm
 Z 20s 0.50um
 N 12s 0.20um
 E 12s 0.30um
 eS 02 18.00
 QIZ 11.46 267 eP 00 21.90 1.1
 S 02 29.10
 NJ2 12.30 348 eP 00 29.00 -2.9X
 WHN 12.53 328 eP 00 36.50 1.5
 Z 20s 1.24um
 E 20s 1.75um
 eS 02 48.00
 GYA 15.44 297 eP 01 15.80 2.5X
 TIA 16.68 346 eP 01 33.40 4.6X
 Z 15s 0.41um
 XAN 18.14 323 P 01 48.60 1.6
 1.2s 13.00nm
 Z 15s 0.35um
 N 12s 0.21um
 E 12s 0.26um
 pS 01 56.70
 sS 05 27.00
 TIY 19.48 337 eP 02 02.00 -0.9
 Z 20s 0.62um
 E 16s 0.51um
 CD2 19.66 307 eP 02 06.20 1.4
 TSRJ 19.79 36 P 02 06.70 0.6
 IIDJ 20.85 39 P 02 17.60 0.5
 MTMJ 21.56 37 P 02 26.30 1.9
 CHG 21.73 271 ePc 02 23.00 -3.1X
 1.1s 14.24nm
 SNY 21.79 3 eP 02 26.90 0.5
 BDT 21.92 267 eP 02 28.00 0.1
 LZH 22.56 319 eP 02 36.50 2.2
 1.0s 12.00nm
 Z 12s 0.26um
 HHC 22.58 339 P 02 36.40 2.0
 1.2s 12.00nm
 4.3mb
 3.9MszX
 4.2mb

21d 17h

Z 16s 0.47um 4.0MszX
 E 15s 0.35um
 BTO 22.91 336 eP 02 38.00 0.3
 N 15s 0.46um
 E 15s 0.57um
 CN2 23.89 6 eP 02 47.40 0.4
 0.6s 3.70nm 4.1mb
 Z 18s 0.48um 4.0Msz
 YAMJ 23.94 37 P 02 47.20 -0.4
 MDJ 25.34 13 eP 03 01.70 0.8
 OFUJ 25.49 38 P 03 01.90 -0.4
 IPM 25.51 236 ePd 03 06.60 3.9X
 AOMJ 25.83 34 eP 03 06.10 0.7
 HOOJ 28.66 34 eP 03 38.30 7.2X
 LSA 29.49 295 eP 03 37.60 -1.8
 ASAJ 29.58 31 eP 03 39.30 -0.2
 KUSJ 29.91 35 eP 03 41.60 -0.8
 GUN 33.79 290 P 04 00.00 -17.0X
 WMO 37.12 318 eP 04 42.40 -2.3
 WRA 41.53 162 P 05 20.00 -1.4
 0.7s 9.90nm 4.7mb
 WB2 41.53 162 eP 05 19.40 -2.0
 0.7s 11.50nm 4.7mb
 ASPA 44.95 164 eP 05 49.30 0.1
 0.5s 5.10nm 4.6mb
 WARB 46.15 174 eP 05 58.00 -0.6
 0.4s 3.00nm 4.6mb
 INK 76.81 22 eP 09 25.00 0.1
 MBC 77.15 12 eP 09 26.00 -0.7
 NAO 82.50 333 P 09 54.30 -1.2
 0.6s 1.20nm 4.1mb
 BRG 85.46 323 e(P) 10 30.00 19.3X
 GEC2 86.51 321 eP 10 16.40 0.3
 0.6s 0.55nm 3.9mb
 e 10 28.40
 YKA 86.52 23 eP 10 14.50 -1.2
 0.9s 2.80nm 4.5mb
 S.D. = 1.4 an 40 of 51 obs.

& APR 21, 1993 17h 22m 39.94s
 59.923 N 153.122 W
 DEPTH = 112.0km
 SOUTHERN ALASKA (2)
 <AEIC>

INE 0.14 12 iP 22 54.96 0.7
 eS 23 07.19
 INW 0.15 358 iP 22 55.08 0.9
 eS 23 06.90
 OPT 0.28 191 eP 22 57.14 2.6
 PDB 0.56 256 iP 22 56.81 -0.8
 eS 23 09.81
 AUL 0.57 196 eP 22 57.10 -0.6
 eS 23 10.77
 RS1 0.57 18 eP 22 57.20 -0.8
 eS 23 10.46
 RSO 0.57 19 eP 22 57.20 -0.8
 eS 23 10.48
 RS2 0.57 18 eP 22 57.15 -0.9
 eS 23 11.27
 AUH 0.58 196 eP 22 57.78 -0.1
 REF 0.61 20 eP 22 57.48 -0.7
 eS 23 10.67
 AUI 0.61 195 eP 22 57.26 -0.7
 eS 23 10.49
 NCT 0.65 8 eP 22 57.69 -0.8
 eS 23 11.08
 DFR 0.71 18 eP 22 58.00 -0.9
 RDT 0.74 28 eP 22 58.41 -0.8
 MCNL 0.96 220 iP 23 00.24 -1.0
 CNPM 1.04 112 iP 23 01.00 -1.0
 eS 23 17.39
 BRLK 1.14 97 eP 23 02.16 -1.0
 eS 23 19.02
 NKA 1.25 48 eP 23 04.83 0.6
 CKL 1.34 17 eP 23 04.74 -0.7
 eS 23 23.91
 CKT 1.36 19 eP 23 04.92 -0.7
 SPU 1.37 22 eP 23 04.93 -0.8
 eS 23 24.81
 SYI 1.37 164 eP 23 04.79 -0.9
 CKN 1.39 19 eP 23 04.48 -1.4
 BGL 1.39 15 eP 23 05.62 -0.5
 CP2 1.41 18 eP 23 05.96 -0.5
 CPAM 1.42 19 eP 23 05.78 -0.6
 CRP 1.43 19 eP 23 06.13 -0.5
 SLKM 1.56 67 eP 23 07.02 -1.0

SVW 1.72 315 eP 23 08.66 -1.3
 SEW 1.85 83 eP 23 10.18 -1.4
 S 23 33.64
 SUA 1.94 36 iP 23 12.28 -0.6
 MPA 1.96 72 eP 23 11.74 -1.2
 PMS 2.20 51 eP 23 15.14 -1.0
 SKT 2.21 20 iP 23 15.56 -0.6
 PTE 2.24 63 eP 23 15.23 -1.4
 PWA 2.35 41 eP 23 17.72 -0.3
 PMR 2.58 48 (P) 23 19.25 -1.8
 eS 23 43.81
 GHO 2.77 46 eP 23 21.51 -2.2
 SML 3.01 49 eP 23 24.53 -2.4
 TTA 3.32 337 eP 23 28.57 -2.5
 HIN 3.34 79 eP 23 29.38 -2.0
 KLU 3.87 63 (P) 23 35.69 -2.9
 BALM 5.45 74 eP 23 58.00 -2.2
 43 obs. associated

APR 21, 1993 17h 41m 56.88±0.34s
 52.158 N ± 7.6km 170.121 W ± 3.8km
 DEPTH = 33.0km (normal)
 4.8mb (39 obs.) 4.4Msz (8 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.06 269 eP 42 59.87 1.6
 S 43 47.37
 SDN 6.54 57 eP 43 31.80 -1.3
 SVW 11.98 36 eP 44 50.20 2.1
 RSO 12.70 42 (P) 44 57.32 -0.6
 TTA 13.15 29 eP 45 05.10 1.4
 1.1s 18.80nm 5.0mb
 CP2 13.36 40 eP 45 05.12 -1.5
 CRP 13.39 40 eP 45 04.39 -2.6X
 PMS 14.44 43 e(P) 45 19.70 -0.9
 KLU 16.11 45 eP 45 37.29 -5.0X
 IMA 16.22 24 eP 45 45.90 2.3
 1.4s 7.10nm 3.6mb X
 FBA 17.15 33 eP 45 51.93 -3.3X
 0.7s 5.42nm 3.8mb
 BALM 17.56 49 eP 45 58.56 -1.9
 PET 18.92 285 eP 46 16.00 -1.1
 Z 20s 0.50um
 MGD 22.88 306 eP 47 00.00 1.8
 1.0s 20.00nm 4.6mb
 e 47 13.00
 INK 23.78 33 eP 47 06.50 -0.3
 0.5s 4.00nm 4.2mb
 YKA 30.73 49 eP 48 11.50 0.9
 0.8s 1.20nm 3.7mb X
 MBC 30.90 21 eP 48 12.00 0.0
 YAK 32.95 311 eP 48 28.30 -1.7
 1.0s 30.00nm 5.1mb
 N 19s 0.40um
 E 20s 0.40um
 BW06 40.89 78 ePc 49 38.01 0.5
 0.6s 4.87nm 4.4mb
 GSC 41.05 93 ePd 49 40.13 1.5
 DAU 41.25 82 eP 49 41.92 1.4
 FCC 41.43 50 eP 49 44.50 3.1X
 BOD 41.67 309 eP 49 43.10 -0.2
 0.7s 22.00nm 5.0mb
 MSU 41.84 85 eP 49 46.76 1.4
 SRU 42.49 83 eP 49 51.14 0.6
 CN2 42.62 285 eP 49 50.40 -1.0
 1.0s 12.00nm 4.6mb
 Z 20s 0.31um 4.2Msz
 N 17s 0.31um
 E 17s 0.21um
 RSSD 43.42 73 eP 49 57.58 -0.6
 0.8s 3.48nm 4.2mb
 ULM 44.66 62 eP 50 10.50 2.7X
 SNY 44.89 284 eP 50 09.40 -0.4
 TUC 46.76 91 eP 50 25.52 0.7
 0.7s 3.26nm 4.4mb
 FRB 49.42 35 eP 50 44.00 -0.9
 BJI 50.40 287 eP 50 53.00 0.3
 Z 20s 0.36um 4.4Msz
 ZAK 51.06 305 eP 50 57.50 -0.1
 1.3s 8.00nm 4.5mb
 Z 14s 0.19um 4.3MszX
 E 18s 0.30um
 e 52 14.00
 HHC 52.56 291 Pd 51 09.30 0.0
 1.0s 9.90nm 4.7mb
 Z 20s 0.50um 4.6Msz

JAO 52.69 48 eP 51 09.00 -0.9
 LTX 53.22 88 ePc 51 12.91 -1.3
 SSE 53.36 275 Pc 51 15.50 0.5
 1.5s 53.00nm 5.3mb
 BTO 53.62 291 P 51 17.00 0.0
 NJ2 54.12 278 Pd 51 19.00 -1.6
 TIY 54.13 287 eP 51 21.40 0.7
 Z 30s 0.62um 4.5MszX
 WHN 57.92 280 Pd 51 47.00 -0.9
 XAN 58.72 286 P 51 52.50 -1.1
 1.1s 10.00nm 4.8mb
 Z 25s 0.46um 4.5MszX
 eS 00 01.00
 eScS 01 33.00
 GTA 60.16 297 eP 52 01.50 -2.1
 1.0s 9.00nm 4.9mb
 Z 22s 0.76um 4.8Msz
 LZH 60.24 291 Pc 52 03.50 -0.7
 1.4s 26.00nm 5.2mb
 Z 20s 0.35um 4.5Msz
 GBTN 60.46 69 (P) 52 05.02 -0.5
 NAV 61.23 65 (P) 52 09.94 -0.8
 BLA 61.52 65 (P) 52 12.05 -0.7
 0.7s 4.03nm 4.7mb
 CVL 62.06 63 eP 52 14.35 -1.9
 NA2 62.34 63 (P) 52 17.13 -1.0
 LHS 63.26 68 eP 52 23.38 -0.8
 LMN 63.28 49 eP 52 25.00 0.7
 WMO 63.30 308 P 52 25.40 0.9
 0.5s 14.00nm 5.3mb
 Z 20s 0.54um 4.7Msz
 CD2 64.00 287 iPd 52 29.20 0.0
 KAF 65.33 352 iP 52 35.70 -1.6
 0.4s 4.30nm 4.9mb
 GYA 65.52 282 P 52 39.20 0.0
 1.0s 12.00nm 4.9mb
 NUR 67.06 352 iP 52 47.20 -1.1
 NAO 67.37 359 P 52 48.60 -1.7
 0.7s 3.20nm 4.5mb
 HFS 68.02 358 eP 52 52.70 -1.7
 0.3s 4.40nm 5.0mb
 Z 18s 70.00um 6.9MszX
 LR 17 36.00
 LSA 72.12 295 P 53 21.20 0.8
 0.8s 9.00nm 4.8mb
 EKA 72.33 8 P 53 20.00 -0.6
 1.1s 9.80nm 4.7mb
 CHG 75.94 282 eP 53 38.10 -4.0X
 0.8s 15.30nm 5.0mb
 CLL 76.87 358 iP 53 46.20 -0.6
 BDT 77.11 281 eP 53 44.50 -4.1X
 MOX 77.56 359 eP 53 50.90 0.3
 GRF 78.52 359 ePc 53 56.60 0.7
 1.0s 11.00nm 4.8mb
 Z 20s 0.10um 4.1Msz
 SPC 78.65 353 eP 53 56.40 -0.4
 KHC 79.04 358 eP 54 00.00 1.2
 LDF 79.26 7 eP 53 59.80 -0.2
 0.4s 3.30nm 4.7mb
 GEC2 79.32 357 ePKPc 54 00.50 0.1
 0.8s 2.54nm 4.3mb
 e 54 02.90
 e 54 11.00
 GRR 79.41 7 eP 54 00.90 0.2
 CDF 79.78 2 eP 54 03.20 0.3
 ZST 79.83 355 eP 54 03.40 0.4
 KIV 80.16 337 eP 54 04.50 -0.5
 1.0s 13.00nm 4.9mb
 Z 19s 0.08um 4.1Msz
 HAU 80.17 2 eP 54 05.30 0.4
 BSF 80.35 2 eP 54 06.10 0.1
 LOR 80.82 4 eP 54 08.70 0.4
 0.8s 7.40nm 4.7mb
 SSF 81.01 4 eP 54 09.80 0.5
 0.6s 4.95nm 4.7mb
 KBA 81.10 358 iPc 54 11.00 1.0
 1.0s 16.80nm 5.0mb
 i 54 11.30
 LBF 81.11 4 eP 54 10.00 0.1
 0.4s 1.70nm 4.4mb
 AVF 81.27 5 eP 54 11.00 0.4
 SMF 81.44 4 eP 54 12.00 0.4
 0.5s 4.65nm 4.8mb
 BGF 81.48 5 eP 54 12.20 0.5
 LSF 81.71 6 eP 54 13.40 0.4
 0.7s 7.30nm 4.8mb
 TCF 81.71 5 eP 54 13.40 0.4

21d 17h

MAF 81.80 5 eP 54 14.00 0.6
1.2s 14.00nm 4.9mb
VBY 82.61 356 eP 54 17.60 0.0
LFF 82.96 7 eP 54 20.30 0.8
CAF 83.06 6 eP 54 21.00 1.0
0.8s 6.30nm 4.8mb
QUE 84.02 313 eP 54 26.80 1.4
PGF 85.67 1 eP 54 34.20 0.9
1.0s 23.20nm 5.4mb
SKO 85.71 351 iP 54 34.50 1.1
VAY 86.25 350 eP 54 36.70 0.6
WRA 86.51 231 P 54 38.00 0.5
0.7s 1.20nm 4.2mb

OHR 86.63 352 eP 54 38.30 0.3
HYB 88.83 297 eP 54 48.50 -0.4
GBA 92.55 296 P 55 01.00 -5.1X
BUL 144.87 328 iPKPd 01 30.90 -1.2
BFT 149.47 322 ePKP 01 43.50 4.0X
WIN 149.94 347 ePKP 01 42.00 1.7
1.0s 20.00nm
SLR 150.16 325 ePKP 01 41.00 0.5
1.1s 60.00nm
i 01 45.70
KSR 150.75 327 iPKPd 01 48.00 6.6X
1.0s 30.00nm
PRY 151.54 326 ePKP 01 41.50 -1.0
1.0s 30.00nm
SEK 152.75 324 iPKPd 01 52.70 8.5X
0.7s 27.00nm
S.D. = 1.0 on 92 of 103 obs.

* APR 21, 1993 18h 42m 40.90± 1.17s
23.113 S ± 6.6km 64.508 W ± 15.1km
DEPTH = 10.0km (geophysicist)
JUJUY PROVINCE, ARGENTINA (128)

HJA 0.83 263 iPd 42 56.20 -0.8
YJA 1.31 315 ePc 43 06.50 1.0
FSA 3.26 205 eP 43 34.10 1.1
i 43 42.50
(S) 44 23.00
CYA 5.43 192 ePd 44 03.00 -1.0
i 44 24.20
(S) 45 31.30
CCH 5.90 345 (P) 44 10.00 -0.8
e 44 36.00
CNCB 7.07 332 P 44 29.80 2.3X
LPB 7.37 332 eP 44 28.00 -3.5X
ZOB0 7.61 333 P 44 35.20 0.1
TCA 8.19 180 e(P)c 44 43.00 0.3
S.D. = 1.0 on 7 of 9 obs.

* APR 21, 1993 19h 18m 32.60± 1.80s
41.329 N ± 15.2km 19.464 E ± 11.1km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.4 (TTG).

ULC 0.65 346 iPgD 18 44.17 -1.5
iSg 18 53.95
OHR 1.03 102 ePg 18 51.50 -0.6
eSg 19 06.40
BDV 1.07 334 iPgC 18 52.50 -0.2
iSg 19 07.64
TTG 1.11 352 iPgC 18 53.02 -0.4
iSg 19 08.13
PVY 1.32 17 iPgC 18 56.59 -0.5
iSg 19 15.12
HCY 1.33 327 iPgD 18 57.24 0.1
iSg 19 15.93
NKY 1.52 347 iPgC 19 00.49 0.5
iSg 19 21.18
IVA 1.58 12 iPgC 19 01.30 0.6
iSg 19 22.92
SKO 1.61 66 ePn 19 01.60 0.4
iSg 19 24.00
BRY 1.71 337 iPnd 19 03.25 0.5
iSn 19 26.49
PLE 2.00 359 iPnc 19 07.73 0.8
iSn 19 32.92
S.D. = 0.8 on 11 of 11 obs.

% APR 21, 1993 19h 32m 33.07± 0.72s
37.708 N ± 6.6km 14.790 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.23 341 P 32 38.60 0.4
eSg 32 44.20
MEU 0.62 170 Pd 32 45.30 -0.3
eSg 32 54.00
GIB 0.67 295 P 32 46.10 -0.3
eSg 32 52.60
FAI 0.99 244 P 32 52.10 0.3
eSg 33 04.80
SOI 1.06 70 P 32 53.80 0.7
eSg 33 10.20
CZI 1.84 35 P 33 04.00 -0.9
S.D. = 0.8 on 6 of 6 obs.

APR 21, 1993 20h 36m 36.24± 0.36s
51.536 N ± 9.5km 175.873 W ± 4.6km
DEPTH = 42.8km (7 depth phases)
4.9mb (37 obs.) 4.3Msz (2 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt strongly on Adok.

ADK 0.61 305 iPd 36 50.88 2.3
SDN 9.93 61 eP 39 01.40 2.1
SVW 14.70 41 eP 40 06.50 3.6X
KDC 14.85 56 eP 40 03.50 -1.3
TTA 15.59 35 eP 40 17.74 3.3
0.8s 13.92nm 4.2mb
ILT 16.48 356 iPc 40 27.00 1.5
1.2s 24.00nm 4.2mb
PMS 17.39 46 eP 40 37.00 0.0
PMR 17.71 45 (P) 40 43.71 2.8
0.7s 10.84nm 4.1mb
e 41 03.43
IMA 18.39 29 eP 40 49.90 0.5
0.6s 5.70nm 3.9mb
FBA 19.71 37 eP 41 01.56 -3.0X
0.6s 16.76nm 4.5mb

SEY 20.36 316 eP 41 13.00 1.7
i 41 30.80
MGD 20.39 308 eP 41 16.00 4.3X
i 41 30.00
e 41 39.00
e 41 49.00
INK 26.29 34 eP 42 08.50 -0.5
0.5s 2.00nm 4.0mb
YSS 27.12 277 iPc 42 17.80 1.0
1.0s 30.00nm 4.9mb
e 42 30.00

MBC 32.78 22 eP 43 06.00 -0.8
0.6s 3.00nm 4.3mb
YKA 33.79 47 eP 43 14.50 -1.2
0.5s 3.60nm 4.5mb
BMW 34.28 77 (P) 43 21.39 1.3
NIIJ 34.69 264 eP 43 23.60 -0.1
CHJJ 35.45 262 eP 43 31.60 1.4
NEW 37.11 71 eP 43 44.61 0.5
0.8s 23.29nm 5.1mb
BOD 39.24 307 eP 44 00.50 -1.3
CN2 39.31 282 eP 44 03.00 0.5
0.6s 5.60nm 4.5mb
Z 20s 0.31um 4.1Msz

SNY 41.55 281 Pc 44 22.00 1.1
HVV 43.14 77 eP 44 35.07 1.0
eP 44 46.97 4.3km
DUG 44.05 79 eP 44 42.53 1.1
1.1s 22.84nm 4.9mb
BW06 44.51 74 iPc 44 45.77 0.5
0.6s 9.55nm 4.8mb
e 44 59.57
FCC 44.52 47 eP 44 46.00 1.2
RSSD 47.00 69 eP 45 04.50 -0.5
0.8s 8.69nm 4.8mb
PV09 47.34 79 (P) 45 08.07 0.2
PV08 47.59 78 eP 45 09.48 -0.4
ULM 48.06 58 eP 45 14.50 1.6
ZAK 48.43 302 eP 45 14.70 -1.0
0.7s 6.00nm 4.7mb
TIA 48.95 279 Pd 45 20.10 0.1
SSE 49.03 271 Pc 45 27.50 0.7
1.0s 11.00nm 4.8mb
sP 45 44.50

BT0 50.47 288 eP 45 32.50 0.8
NJ2 50.63 274 Pd 45 33.00 0.1
0.8s 13.00nm 5.0mb
TIY 50.85 284 eP 45 32.00 -2.6
Z 20s 0.37um 4.4Msz
FRB 51.92 33 eP 45 40.00 -2.2
WHN 54.47 276 eP 46 01.00 -0.5

0.7s 23.00nm 5.3mb
pP 46 20.00 75kmX
ELT 55.05 313 eP 46 03.00 -2.5
1.0s 14.00nm 4.9mb
XAN 55.42 283 P 46 07.80 -0.7
0.7s 9.20nm 4.9mb
JAO 55.71 45 eP 46 08.00 -2.3
LZH 57.09 288 P 46 20.50 -0.1
1.0s 17.00nm 5.0mb
sP 46 45.50
GTA 57.20 293 eP 46 19.50 -1.8
FVM 58.82 67 eP 46 30.22 -2.2
0.6s 30.02nm 5.6mb
eP 46 43.06 46km
esP 46 48.34

MIAR 59.34 72 (P) 46 35.59 -0.5
0.6s 9.10nm 5.1mb
ELC 59.99 67 iPc 46 38.69 -1.8
eP 46 51.82 47km
CD2 60.73 284 iPc 46 45.60 -0.1
GYA 62.12 278 iPc 46 55.00 -0.2
1.0s 38.00nm 5.5mb
NSD 63.05 353 eP 46 57.00 -3.7X
0.3s 1.10nm 4.4mb
CBM 64.01 47 eP 47 04.97 -2.3
0.5s 4.32nm 4.8mb

NAV 64.70 61 iPc 47 11.34 -0.6
eP 47 23.22 40km
CVL 65.49 59 eP 47 16.56 -0.3
eP 47 29.19 43km
KMI 65.51 280 Pc 47 17.50 0.0
1.0s 60.00nm 5.6mb
PRM 66.18 65 (P) 47 20.81 -0.6
LMN 66.32 45 eP 47 23.50 1.3
JSC 66.66 64 iPc 47 23.98 -0.5
eP 47 35.84 40km
CEH 66.68 61 eP 47 23.86 -0.7
0.4s 29.93nm 5.7mb
LHS 66.76 64 iPc 47 24.57 -0.5
eP 47 36.71 41km

LSA 69.10 292 eP 47 40.90 0.6
0.9s 4.00nm 4.4mb
GUN 73.48 294 P 48 05.80 -0.7
BDT 73.69 277 eP 48 03.00 -4.3X
0.8s 3.10nm 5.3mb
KKN 73.91 294 P 48 08.40 -0.4
0.5s 28.00nm 5.5mb
PKI 74.01 294 P 48 09.00 -0.5
GKN 74.12 295 P 48 09.40 -0.5
0.4s 19.00nm 5.4mb
DMN 74.15 294 P 48 10.00 -0.2
MTN 78.81 233 iPd 48 37.70 1.7
0.5s 45.00nm 5.7mb

VAN 79.17 319 eP 48 36.50 -1.3
GEC2 79.66 354 ePKPd 48 39.30 -1.1
0.6s 0.48nm 3.6mb X
e 48 44.30
e 48 50.30
IPM 82.14 267 ePd 48 55.10 1.2
WB2 83.42 226 iPc 49 01.10 0.9
0.7s 7.30nm 4.9mb
WRA 83.42 226 P 49 01.50 1.3
0.5s 2.80nm 4.6mb

RMO 83.69 211 eP 49 04.20 2.8X
HYB 85.86 293 eP 49 12.00 -0.7
ARMA 86.47 208 eP 49 18.40 3.0X
GBA 89.54 291 P 49 30.00 -0.4
STK 91.08 215 iPd 49 39.50 2.5X
0.6s 3.90nm 5.0mb
e 49 59.20
WARB 92.35 229 eP 49 45.00 2.0
0.5s 3.00nm 5.0mb

KIC 121.83 10 (PKP) 55 26.80 -0.5
BFT 147.52 313 iPKPd 56 15.50 0.9
SLR 148.35 315 ePKP 56 15.50 -0.3
0.9s 50.00nm
KSR 149.06 317 iPKPd 56 21.00 4.0X
0.9s 20.00nm
PRY 149.74 315 ePKP 56 21.50 3.6X
0.6s 15.00nm
SEK 150.88 314 iPKPc 56 26.00 6.4X
0.5s 54.00nm
BLF 152.19 315 iPKPc 56 29.00 7.5X
0.5s 50.00nm
FRS 153.12 316 iPKPc 56 30.60 8.0X
0.6s 14.00nm
CER 158.74 323 e(PKP) 56 22.50 -7.3X

0.6s 28.00nm
S.D. = 1.3 on 73 of 87 obs.
APR 21, 1993 20h 40m 56.54s
62.077 N 152.383 W
DEPTH = 165.8km
CENTRAL ALASKA (1)
<AEIC>

SKT	0.41	103	iPc	41	18.60	0.7
			eS	41	35.66	
BGL	0.82	180	iPd	41	20.76	-1.1
CP2	0.82	175	ePc	41	21.26	-0.8
CRP	0.82	172	iPd	41	21.02	-1.0
CPAM	0.83	172	iPd	41	21.08	-0.9
CKN	0.86	174	iPd	41	21.51	-0.6
CKT	0.88	174	iPd	41	21.05	-1.3
CKL	0.88	179	iPd	41	21.29	-1.1
			eS	41	41.01	
SPU	0.91	170	eP	41	21.04	-1.5
SUA	0.99	128	iPc	41	22.83	-0.4
			eS	41	43.24	
NKA	1.45	157	eP	41	27.76	0.7
DFR	1.50	186	iPd	41	26.44	-1.3
NCT	1.54	190	iPd	41	26.78	-1.4
HUR	1.56	53	ePc	41	27.54	-0.8
			eS	41	51.90	
RDW	1.61	188	eP	41	27.88	-1.1
PMR	1.62	186	eP	41	26.74	-2.1
RS2	1.63	187	iPd	41	27.92	-1.3
RSO	1.63	186	ePd	41	28.70	-0.5
RS1	1.63	187	eP	41	28.16	-1.1
TRF	1.68	34	eP	41	28.77	-1.0
			eS	41	55.66	
SLKM	1.89	146	iPc	41	30.70	-1.1
			eS	41	55.89	
SML	1.93	96	iPc	41	31.47	-0.9
			eS	41	59.76	
PTE	2.02	126	iPc	41	31.88	-1.3
			eS	41	59.38	
INW	2.05	191	ePd	41	32.13	-1.6
INE	2.05	190	ePd	41	32.11	-1.7
MPA	2.16	136	ePc	41	33.79	-1.0
			eS	42	01.56	
SCM	2.40	94	ePc	41	37.10	-0.7
BRLK	2.43	162	eP	41	37.81	-0.3
			eS	42	06.30	
CNPM	2.62	167	eP	41	39.02	-1.4
			eS	42	10.07	
AUL	2.75	191	eP	41	42.53	0.6
AUE	2.77	191	eP	41	42.45	0.3
AUH	2.77	191	eP	41	42.92	0.6
AUI	2.80	191	eP	41	42.63	0.1
VLZ	3.04	105	eP	41	44.63	-0.9
MCNL	3.06	199	iPd	41	43.75	-2.0
WRH	3.09	37	iPc	41	45.18	-1.0
KLU	3.13	98	eP	41	45.96	-0.7
			eS	42	24.84	
CDD	3.22	192	eP	41	45.91	-1.9
CCB	3.30	37	ePd	41	47.79	-1.0
HIN	3.31	118	eP	41	47.56	-1.4
PAX	3.33	71	eP	41	49.57	0.3
HDA	3.39	44	iPc	41	49.11	-0.9
CVA	3.55	113	eP	41	51.56	-0.4
IMA	4.05	352	ePd	41	56.66	-1.9
RAGM	4.09	111	eP	41	58.17	-0.9
GLB	4.12	95	ePc	41	59.91	0.4
CRQM	4.63	103	eP	42	06.72	0.4
TGL	4.78	102	eP	42	08.27	0.2
BALM	4.91	98	ePc	42	09.83	-0.1
CYK	5.20	108	eP	42	10.83	-2.7

50 obs. associated

% APR 21, 1993 21h 15m 49.36±0.87s
39.504 N ± 6.1km 16.697 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ROI	0.12	304	P	15	54.50	2.1
TDS	0.32	299	Pc	15	56.10	0.1
			eSg	16	01.10	
ACI	0.41	248	P	15	57.00	-0.8
CSI	0.42	311	P	15	58.40	0.5
CZI	0.52	237	P	15	59.80	-0.1
ORI	0.59	341	Pd	16	01.80	-0.5
			eSg	16	10.90	
MMN	0.67	305	P	16	01.60	-1.0

MGR 1.08 306 P 16 09.50 -0.2
eSg 16 25.00
LCI 1.27 49 P 16 13.40 0.4
BRT 1.43 16 P 16 14.00 -1.3
eSn 16 34.40
SGO 1.50 315 P 16 15.50 -0.8
SOI 1.52 200 P 16 17.00 0.5
S.D. = 1.0 on 12 of 12 obs.

* APR 21, 1993 21h 23m 36.62±1.55s
41.415 N ±13.7km 19.530 E ±10.2km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.3 (TTG).

ULC	0.59	339	iPg	23	47.43	-1.1
			iSg	23	56.51	
OHR	1.00	107	ePg	23	55.00	-0.7
			eSg	24	09.70	
BDV	1.01	329	iPg	23	55.32	-0.5
			iSg	24	10.67	
TTG	1.03	349	iPg	23	55.60	-0.5
			iSg	24	11.10	
PVY	1.23	16	iPg	23	58.91	-0.6
			iSg	24	17.06	
HCY	1.29	324	ePg	24	00.48	0.0
			iSg	24	19.80	
NKY	1.45	344	ePg	24	03.42	0.4
			iSg	24	25.05	
IVA	1.48	11	iPg	24	03.62	0.2
			iSg	24	25.62	
SKO	1.53	68	iPn	24	04.80	0.7
			iSg	24	27.50	
BRY	1.66	334	iPnc	24	07.01	1.1
			iSn	24	31.10	
PLE	1.92	357	iPnd	24	10.58	0.9
			iSn	24	37.23	

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

* APR 21, 1993 21h 25m 49.13±0.79s
7.267 S ± 9.9km 128.428 E ±19.5km
DEPTH = 152.9 ± 9.3 km
4.7mb (6 obs.)
BANDA SEA (280)

MTN	6.15	155	eP	27	20.00	1.2
			eS	27	49.40	-0.1
KNA	8.44	178	iPd	27	49.40	-0.1
			eS	29	16.00	
WB2	13.85	156	iPc	28	58.00	-2.2
			eS	28	59.50	
			eS	31	22.90	
WARB	18.89	185	eP	30	01.00	0.6
			eS	33	23.00	
NANU	19.64	218	eP	30	08.00	-0.1
			eS	30	08.00	-0.1
MEEK	21.41	205	eP	30	26.00	0.1
STK	27.40	155	iPd	31	23.00	0.8
			eP	31	57.70	169kmX
GUN	53.96	312	P	34	59.80	-0.1
			eS	35	01.00	-0.1
PKI	54.12	312	P	35	02.60	0.1
KKN	54.34	312	P	35	06.60	-0.1
GKN	54.93	312	P	35	06.60	-0.1
			eS	44	01.10	0.1
YKA	108.67	26	ePKP	45	26.50	6.7X
			ePKP	45	29.20	7.7X

S.D. = 1.0 on 12 of 14 obs.

% APR 21, 1993 22h 01m 48.48±1.17s
18.306 N ±22.2km 66.097 W ± 9.1km
DEPTH = 33.0km (normol)
PUERTO RICO REGION (90)

SJG	0.20	195	iP	01	55.40	0.3
LPR	0.22	89	iP	01	55.20	-0.1
			S	02	03.20	
PORP	0.57	244	iP	02	00.00	-0.1
			S	02	12.00	
PNP	0.61	246	iP	02	00.30	-0.4
LRS	0.71	269	iP	02	02.40	0.3

S.D. = 0.4 on 5 of 5 obs.
APR 21, 1993 22h 05m 09.42±0.41s
42.440 S ± 4.5km 174.299 E ± 5.3km
DEPTH = 39.3 ± 9.6 km
4.3mb (2 obs.)
OFF E. COAST OF S. ISLAND, N.Z. (164)
ML 4.7 (WEL).

KHZ	0.56	272	Pd	05	19.60	-1.4
			S	05	28.50	
WEL	1.21	17	P	05	30.80	0.8
			eS	05	46.50	
TCW	1.23	359	P	05	30.10	-0.2
THZ	1.24	303	P	05	30.10	-0.5
			eS	05	46.30	
MOW	1.24	35	P	05	31.50	0.9
MRW	1.24	14	Pc	05	31.00	0.4
BLW	1.38	40	P	05	33.40	0.8
CAW	1.45	24	Pc	05	34.20	0.7
LTZ	1.54	256	Pd	05	35.50	0.7
			S	05	55.80	
MTW	1.56	36	Pc	05	35.60	0.4
KIW	1.64	16	Pc	05	36.80	0.5
MQZ	1.75	223	eP	05	38.70	0.9
DSZ	1.98	290	P	05	41.90	0.7
MNG	2.03	26	Pc	05	41.90	0.1
			eS	06	05.80	
QRZ	2.09	320	Pc	05	42.60	-0.1
			S	06	08.20	
PGZ	2.35	40	P	05	46.00	-0.4
BSZ	2.68	10	eP	05	52.10	0.9
WVZ	2.70	255	P	05	52.10	0.7
EWZ	2.75	246	P	05	52.90	0.9
TEHZ	3.10	39	eP	05	55.30	-1.7
NRZ	3.11	355	eP	05	58.50	1.3
WAHZ	3.15	30	P	05	56.70	-1.1
CNZ	3.37	17	eP	06	01.10	0.0
NGZ	3.41	17	P	06	01.60	0.0
ODZ	3.71	224	P	06	06.20	0.4
BWZ	3.83	235	eP	06	07.90	0.4
MOZ	3.95	6	P	06	09.10	-0.1
LSCZ	4.46	231	eP	06	16.10	-0.3
SBCZ	4.48	232	eP	06	15.60	-1.1
MHZ	4.48	233	eP	06	15.50	-1.3
CMCZ	4.53	232	eP	06	16.90	-0.6
			eS	07	06.30	
WLZ	4.67	13	eP	06	18.50	-0.9
TLC	4.68	232	eP	06	19.00	-0.6
URZ	4.69	28	eP	06	15.90	-3.8X
			eS	07	09.00	
TUZ	4.86	222	eP	06	22.50	0.6
KUZ	5.79	11	eP	06	33.80	-1.3
SIZ	6.24	223	eP	06	41.70	0.3
OUZ	7.23	355	eP	06	54.10	-1.2
WB2	40.37	291	eP	12	44.90	-0.3
			eS	12	44.90	-0.3
			eS	12	46.00	0.8

S.D. = 0.8 on 39 of 40 obs.

% APR 21, 1993 22h 52m 33.18±0.87s
42.810 N ± 6.9km 13.383 E ±11.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.46	178	P	52	42.60	0.1
			eSg	52	49.70	
ASS	0.59	296	P	52	43.80	-1.4
			eSg	52	53.10	
MNS	0.67	231	P	52	46.10	-0.4
			eSg	52	54.80	
ARV	0.76	335	P	52	46.30	-1.7
			eSg	52	59.80	
SDI	1.15	164	P	52	54.70	0.0
			eSg	53	11.60	
RSM	1.31	329	P	52	57.30	0.0
CRE	1.33	309	P	52	59.20	1.4
			eSg	53	14.40	
DUI	1.40	145	P	52	58.80	0.0
			eSg	53	17.20	
SFI	1.57	315	P	53	02.40	1.2
PGD	1.61	312	P	53	02.70	0.8

S.D. = 1.2 on 10 of 10 obs.

% APR 22, 1993 00h 03m 10.58±0.53s

22d 00h

42.493 N \pm 4.6km DEPTH = 10.0km (geophysicist)				12.661 E \pm 8.4km (381)				TTG 0.88 126 iPgc 23 58.35 -0.3				III 28.46 18 (P) 05 38.50 2.0			
CENTRAL ITALY								PLE 0.88 64 iPgc 23 58.70 -0.1				PPM 29.37 19 (P) 05 47.00 1.9			
MNS	0.11 173 P	eSg	03 13.10 -0.4					IVA 1.17 93 iPgc 24 03.89 0.1				IISM 29.72 21 (P) 05 49.50 2.0			
AQU	0.57 104 P		03 22.00 -0.1					ULC 1.21 144 ePg 24 04.64 0.3				LTX 38.28 6 eP 07 01.37 0.0			
ASS	0.58 0 P	eSg	03 21.10 -1.2					PVY 1.28 106 iPgc 24 05.79 0.2				ZOB0 39.74 105 P 07 15.00 0.7			
RDP	0.73 177 P		03 24.80 -0.2					S.D. = 0.3 on 9 of 9 obs.				Z 24s 1.33um 13 04.00 4.7MsZ			
ARV	1.03 11 P	eSg	03 30.00 0.0					& APR 22, 1993 00h 26m 52.57s				LPB 39.79 105 P 07 15.30 0.7			
SDI	1.16 132 P		03 33.00 0.6					34.975 N 116.940 W				Z 22s 2.22um 19 10.00 5.0MsZ			
CRE	1.25 336 P	eSg	03 49.70 0.2					DEPTH = 4.0km				CNCB 39.93 105 P 07 15.00 -0.9			
RSM	1.44 354 P	eSg	03 34.00 0.2					SOUTHERN CALIFORNIA (43)				TUC 41.07 357 eP 07 24.88 0.4			
PGD	1.54 334 P		03 51.10 0.3					<PAS-P>. ML 3.9 (PAS), 3.7 (GS).				Z 20s 1.02um 07 29.20 1.7			
SFI	1.55 338 P	eSg	03 37.20 0.5					Felt at Barstow.				SDV 41.39 66 eP 07 30.00 -0.5			
S.D. = 0.6 on 10 of 10 obs.								GSC 0.34 19 iPd 26 59.21 -0.3				TOV 42.52 65 eP 07 40.40 3.8X			
APR 22, 1993 00h 23m 24.50 \pm 0.51s								SSK 0.98 219 iPd 27 10.76 -1.2				ALQ 43.66 2 eP 07 46.70 1.0			
44.656 N \pm 4.4km 9.469 E \pm 4.4km								PEC 1.10 190 iPd 27 12.66 -1.1				Z 20s 1.04um 07 50.44 -0.5			
DEPTH = 10.5 \pm 2.6 km								ISA 1.43 299 ePn 27 17.89 -1.5				WMOK 44.33 11 eP 07 50.44 -0.5			
NORTHERN ITALY (545)								TPNV 2.05 16 ePn 27 26.62 -1.7				Z 19s 8.15nm 07 51.40 -0.2			
ML 2.7 (GEN), 2.5 (LDG).								BCN 2.59 276 ePn 27 33.92 -2.1				MEO 44.41 11 iPd 07 55.47 1.2			
BOB	0.11 352 Pd	eSg	23 26.40 -1.1					GLA 2.60 137 ePn 27 32.76 -3.4				GSC 44.73 350 eP 08 01.60 2.5			
BORS	0.48 148 P	S	23 27.80 0.0					MTUM 2.71 332 (Pn) 27 36.56 -1.4				ISA 45.39 348 P 08 10.00 10.5X			
PCP	0.67 260 P	S	23 34.34 0.0					PHAM 2.95 288 eP 27 39.40 -1.8				Z 19s 0.99um 07 58.00 -1.5			
CKI	0.88 255 P	S	23 41.90 -0.6					MRCM 2.97 335 ePn 27 41.33 -0.3				MIAR 45.40 17 eP 08 03.56 0.2			
BDI	1.00 126 P	eSg	23 46.96 -0.1					TNP 3.11 356 (Pg) 27 50.36 6.9				Z 19s 2.22um 08 05.80 1.4			
FIN	1.01 244 P	eSg	23 53.40 0.8					MMPM 3.12 328 ePn 27 43.76 -0.1				OLY 46.93 19 eP 08 10.06 -1.5			
ROB	1.20 253 P	S	23 58.00 0.2					MEMM 3.13 330 (Pn) 27 43.90 0.3				SAO 47.11 345 P 08 15.88 7.0X			
IMI	1.36 237 P	S	23 56.41 -0.1					BONR 3.17 340 (Pn) 27 43.66 -0.8				Z 18s 1.07um 08 18.19 -0.7			
ORO	1.43 313 P	S	23 58.00 0.5					ARUT 3.98 44 ePn 27 44.66 -1.2				SRU 47.63 358 eP 08 30.00 9.3X			
ENR	1.53 254 P	eSg	23 56.71 -0.1					CMB 4.13 319 ePn 27 57.29 -0.5				Z 20s 1.21um 08 21.19 -0.6			
BHB	1.58 277 P	S	23 58.00 0.5					ARN 4.41 304 eP 28 00.19 -1.4				GOGA 48.23 28 eP 08 25.40 4.9MsZ			
STV	1.59 256 P	S	23 58.00 0.5					MSU 5.21 46 ePn 28 12.16 -1.2				Z 19s 0.45um 08 23.22 -0.5			
RSP	1.65 288 P	S	23 58.00 0.5					NTYM 5.72 308 eP 28 19.46 -0.9				GLD 48.50 3 P 08 30.00 5.9X			
SBF	1.66 242 Pn	S	23 58.00 0.0					DUG 6.15 31 (Pn) 28 24.37 -2.2				Z 20s 1.36um 08 29.52 1.3			
PZZ	1.70 266 P	S	23 58.00 0.2					SRU 6.58 49 (Pn) 28 33.88 1.1				DUG 49.05 355 (P) 08 30.04 0.7			
LSD	1.82 297 P	S	23 58.00 2.5X					DAU 7.05 38 ePg 29 06.25 26.8				Z 19s 1.11um 08 30.02 0.0			
RRL	1.93 279 P	S	23 58.00 1.7					PV10 7.20 60 (Pn) 28 40.64 -0.8				DAU 49.17 357 eP 08 29.28 -1.0			
LPG	2.10 295 Pn	S	24 01.40 1.0					HVV 7.54 24 Pg 29 14.90 28.8				MYNC 49.33 26 eP 08 30.67nm 5.3mb			
LPL	2.12 295 Pn	S	24 01.90 1.3					PV08 7.56 59 Pg 29 16.93 30.3				Z 21s 0.17um 08 40.00 8.2X			
PGF	2.13 189 Pn	S	24 02.20 -0.5					25 obs. associated				FVM 49.53 18 P 08 44.65 -2.1			
FRF	2.31 243 Pn	S	24 02.40 -0.7					* APR 22, 1993 00h 59m 38.85 \pm 0.65s				Z 21s 0.70um 08 33.03 -0.8			
LMR	2.51 239 Pn	S	24 05.00 -0.1					8.922 S \pm 9.8km 108.208 W \pm 11.7km				GBTN 49.79 26 eP 08 34.08 -1.2			
HAU	3.99 328 Pn	S	24 26.70 -0.2					DEPTH = 10.0km (geophysicist)				JSC 49.99 29 eP 08 40.80 0.5			
BGF	5.02 295 Pn	S	24 41.00 -0.6					4.9mb (18 obs.) 4.8MsZ (24 obs.)				HVV 50.63 356 eP 08 50.00 7.0X			
S.D. = 0.7 on 23 of 24 obs.								CENTRAL EAST PACIFIC RISE (694)				WDC 51.00 346 P 08 50.00 4.9MsZ			
APR 22, 1993 00h 23m 41.78 \pm 2.93s								Mw 5.4 (HRV).				Z 19s 1.01um 08 44.65 -2.1			
42.951 N \pm 10.8km 18.304 E \pm 18.7km								CENTROID, MOMENT TENSOR (HRV)				BW06 51.46 359 eP 08 55.63 -2.1			
DEPTH = 10.0km (geophysicist)								Data Used: GDSN				Z 21s 0.35um 08 55.63 -2.1			
NORTHWESTERN BALKAN REGION (383)								L.P.B.: 11S, 15C				NAV 52.68 27 eP 09 00.00 6.9X			
ML 1.9 (TTG).								Centroid Location:				RSSD 52.93 4 eP 09 05.40 0.0			
BRY	0.18 106 iPgc		23 46.38 0.4					Origin Time 00:59:54.3 1.6				Z 20s 0.53um 09 05.40 -0.3			
HCY	0.52 164 iPgc		23 52.29 -0.1					Lat 8.53S 0.14 Lon 107.72W 0.13				BGMT 54.01 357 eP 09 06.79 -0.8			
NKY	0.53 105 iPgc		23 52.04 -0.5					Dep 15.0 FIX Half-duration 1.8				CVL 54.31 29 (P) 09 20.00 7.1X			
BDV	0.77 150 iPgc		23 56.69 -0.1					Moment Tensor: Scale 10**17 Nm				Z 19s 1.45um 09 20.00 5.1MsZ			
								Mrr=-0.31 0.08 Mtt=-0.89 0.05				VGB 55.35 349 (P) 09 26.16 8.9X			
								Mff= 1.21 0.11 Mrt=-0.46 0.22				VLMM 55.62 348 P 09 20.30 -0.5			
								Mrf= 0.23 0.38 Mtf=-0.45 0.07				PPD 56.07 110 eP 09 24.96 -0.3			
								Principal Axes:				LON 56.74 349 eP 09 27.33 0.7			
								T Val= 1.36 Plg=12 Azm=256				DPW 57.23 352 eP 09 28.64 -0.1			
								N -0.18 61 145				ETW 57.30 350 P 09 29.44 0.1			
								P -1.18 26 352				WTV 57.33 351 P 09 29.54 0.1			
								Best Double Couple: Mo=1.3*10**17				HON 57.38 302 P 09 40.00 9.9X			
								NP1:Strike= 31 Dip=63 Slip=-11							
								NP2: 126 80 -153							
								OXX 28.22 24 (P) 05 36.00 1.7							

NEW	Z 20s	0.73um	4.8Msz	DUI	120.11	47 PKP	18 36.00	4.1X	GZH	29.08	21 Pd	11 34.80	0.8	
	57.48	353 eP	09 30.03	-0.4	SRO	120.67	39 iPKP	18 27.72	-4.9X		1.2s	36.00nm	4.9mb	
	1.4s	41.73nm	5.3mb				e	22 20.00		Z 20s	1.87um	4.7Msz		
JCW	Z 20s	3.09um	5.4Msz	SGO	121.03	48 PKP	18 33.30	-0.3X			S	16 24.00		
CMW	58.15	349 P	09 34.85	-0.2	MNO	121.25	51 PKP	18 35.60	1.2	MTN	29.77	109 iPc	11 37.40	-2.9X
GPD	58.40	349 P	09 37.22	0.2	SPC	121.29	37 ePKP	18 22.10	-12.0X		0.4s	33.00nm	5.4mb	
PAL	58.60	30 eP	09 37.09	-1.3			ePP	21 49.30		GBA	30.31	306 P	11 46.00	1.0
ULM	58.86	30 eP	09 39.47	-0.7	MGR	121.33	48 PKP	18 31.50	-2.7X	GYA	30.66	8 iPc	11 48.00	-0.2
HRV	59.90	9 eP	09 49.00	1.8	MMN	121.72	48 PKP	18 30.60	-4.3X		1.0s	120.00nm	5.6mb	
	61.15	30 P	10 00.00	4.2X	CSI	121.97	48 PKP	18 30.60	-4.9X	N 14s	1.70um			
		0.30um	4.5Msz		ORI	122.01	48 PKP	18 30.20	-5.3X	E 14s	0.55um			
RSNY	61.30	27 eP	09 55.01	-1.8	CZI	122.01	49 PKP	18 30.20	-5.3X		PcP	14 45.00		
	1.0s	21.90nm	5.3mb		TDS	122.04	49 PKP	18 30.50	-5.0X		S	16 39.00		
	Z 21s	0.24um	4.3Msz		ROI	122.23	49 PKP	18 29.40	-6.6X	HYB	31.73	313 ePc	11 57.00	-0.6
CBM	66.06	29 P	10 40.00	12.0X	SOI	122.25	50 PKP	18 30.20	-5.8X		1.4s	100.00nm	5.4mb	
	Z 20s	0.33um	4.5Msz		BRT	122.32	47 PKP	18 27.00	-9.0X	WARB	32.02	136 eP	11 58.00	-2.0
LMN	66.95	31 eP	10 35.50	1.8	LCI	123.03	47 PKP	18 23.30	-14.1X		0.3s	4.00nm	4.7mb	
JAO	68.26	20 eP	10 40.00	-1.9	BZS	123.63	40 ePKP	18 38.00	-0.4	CD2	34.83	2 iPc	12 23.40	-0.9
FCC	68.42	8 eP	10 44.50	1.8	CIT	125.20	330 ePdiff15	17.00	-0.8		0.9s	200.00nm	6.0mb	
YKA	71.37	357 eP	10 58.20	-2.4						Z 20s	4.22um	5.2Msz		
	1.0s	4.30nm	4.5mb							E 19s	4.56um			
PMR	77.19	341 eP	11 33.58	-0.7							pP	12 40.00	68kmX	
	1.0s	19.74nm	5.2mb								S	17 50.00		
	Z 20s	0.17um	4.4Msz								sS	18 13.00		
FRB	78.45	17 eP	11 41.00	-0.2						WRA	34.95	119 P	12 24.10	-1.3
INK	79.10	351 eP	11 45.00	0.3						WB2	34.96	119 iPc	12 23.10	-2.4
	1.0s	5.00nm	4.5mb								0.3s	43.20nm	5.9mb	
FBA	79.31	344 eP	11 45.68	-0.2							ipP	12 36.60	52kmX	
	1.2s	8.15nm	4.6mb								eS	17 49.60		
TTA	80.41	340 (P)	11 47.28	-4.7X						LSA	35.27	343 iPc	12 28.40	-0.1
SPA	81.14	180 iPc	11 57.40	1.5							1.2s	180.00nm	5.9mb	
	1.2s	14.08nm	4.9mb							Z 22s	1.75um	4.8Msz		
IMA	81.84	343 eP	11 59.61	0.2						N 22s	2.14um			
	0.8s	1.98nm	4.2mb								S	17 57.50		
MBC	85.27	357 eP	12 16.50	0.0						PKI	35.46	334 Pc	12 29.60	-0.3
	1.0s	9.00nm	4.9mb							GUN	35.54	334 Pc	12 30.80	0.1
PMG	102.78	258 ePdiff13	47.00	8.2X						DMN	35.62	333 Pc	12 31.20	-0.1
ADE	103.31	231 ePdiff13	53.00	12.2X						KKN	35.70	334 Pc	12 31.80	-0.1
KEV	112.86	15 iPKP	18 25.00	7.9X						ASPA	36.16	126 P	12 35.09	-0.5
	0.8s	58.70nm								GKN	36.17	333 Pc	12 36.00	0.2
SDF	114.21	18 iPKP	18 23.70	3.9X						WHN	36.32	18 ePc	12 37.00	0.3
WET	116.82	39 iPKPd	18 44.70	19.3X							1.0s	74.00nm	5.6mb	
BRG	116.90	37 iPKP	18 41.40	16.0X						Z 20s	1.99um	4.9Msz		
	1.3s	25.00nm								N 16s	1.20um			
		e	20 33.80							E 16s	1.10um			
		e	22 06.00								PP	14 06.00		
KHC	117.26	39 PKP	18 42.00	15.8X							eS	18 18.00		
		e	21 48.50							XAN	38.44	9 iPc	12 54.00	-0.6
		e	22 45.00								2.0s	370.00nm	6.0mb	
GEC2	117.43	39 ePKPc	18 41.30	14.7X						Z 16s	1.79um	5.0MszX		
	1.1s	10.19nm								N 14s	1.04um			
		e	18 44.00							E 14s	0.83um			
KAF	117.50	22 iPKP	18 17.30	-8.9X							pP	13 12.00	74kmX	
	0.8s	73.10nm									PP	14 25.50		
FVI	117.54	42 PKP	18 43.00	16.3X							PcP	15 08.80		
PRU	117.56	38 PKPc	18 39.20	12.5X							S	18 40.00		
	1.4s	11.90nm									ScP	18 49.00		
		e	19 12.50								PcS	18 57.50		
		e	21 20.00								sS	19 10.00		
		e	22 10.00								ScS	22 57.00		
SFI	117.66	45 PKP	18 46.50	19.5X										
NUR	117.80	24 iPKP	18 19.50	-7.3X						NJ2	39.24	22 Pc	13 01.50	0.3
	0.6s	25.60nm									0.9s	23.00nm	5.1mb	
RBL	118.11	42 PKP	18 40.80	12.8X						Z 20s	1.18um	4.7Msz		
VOY	118.45	42 iPKPc	18 39.80	11.1X						N 15s	0.93um			
		e	18 44.00							E 15s	0.57um			
		e	18 48.50								PcP	15 10.00		
		e(PP)	18 55.80							SSE	39.36	26 Pc	13 03.00	0.8
		e	19 09.00								1.2s	89.00nm	5.6mb	
ARV	118.53	45 PKP	18 42.60	13.8X						Z 20s	1.10um	4.7Msz		
LJU	118.87	42 ePKPc	18 38.20	8.9X						N 16s	1.00um			
		ePP	18 55.00							E 16s	0.70um			
		ePP	22 15.50								sP	13 20.50		
CEY	118.89	42 ePKP	18 38.00	8.6X							PcP	15 09.50		
		ePP	22 19.00								S	19 03.00		
MDJ	118.94	316 ePdiff14	58.50	8.4X							esS	19 25.00		
	1.5s	93.00nm								LZH	40.00	2 iPc	13 08.00	0.4
		pP	15 13.20								1.4s	220.00nm	5.9mb	
RIY	118.99	43 ePKP	18 37.40	7.9X							Z 17s	1.98um	5.0MszX	
AQU	119.16	46 PKP	18 40.40	10.3X						N 15s	1.21um			
VBY	119.52	42 iPKPc	18 35.40	4.8X							pP	13 20.50	46kmX	
SDI	119.63	47 PKP	18 38.30	7.3X							sP	13 25.00		
ZST	119.78	39 ePKP	18 30.70	-0.3							PP	14 43.00		
		e	21 56.40								PcP	15 10.50		
PTJ	119.85	42 iPKPc	18 33.50	2.2X							PcS	19 01.50		
ZAG	119.90	42 iPKPc	18 34.00	2.7X							eS	19 12.00		
											esS	19 32.00		
											ScS	23 07.50		

0 -0.1
 0 8.8X
 6.0mb

IZM	80.89	310	iP	17 47.50	1.4	WAH2	124.21	34	PKP	24 30.74	0.5	TKL	148.09	9	ePKP	25 14.65	0.4
POF	81.35	241	eP	17 50.50	1.9	DPW	124.26	32	ePKP	24 30.71	0.3					iPKPbc25	17.06
KIS	81.79	318	iPc+	17 50.00	-0.5	CROR	124.41	36	PKP	24 31.48	0.6					ePKPab25	20.23
	1.0s	200.00nm			6.0mb	VIPM	124.90	36	PKP	24 32.91	1.0	CEH	148.33	2	ePKP	25 15.11	0.5
		e		18 11.00		LNOR	125.45	34	PKP	24 32.95	0.2					iPKPbc25	17.72
VRI	82.95	317	ePc	17 57.50	0.9	LBFM	125.81	40	ePKP	24 33.80	-0.1					ePKPob25	20.41
CVO	83.32	317	ePc	17 59.00	0.5	LMEM	126.43	41	ePKP	24 35.73	0.7					e	25 32.13
MLR	83.40	317	ePc	17 59.50	0.4	ORV	126.98	42	ePKP	24 36.49	0.6	MYNC	148.60	10	PKP	25 30.00	14.8X
OUR	83.77	311	e(P)	18 00.24	-0.6	ARN	128.04	44	ePKP	24 38.51	0.5	Z	21s			0.32um	5.1msz
PAIG	83.92	311	i(P)	18 01.85	0.2	BGMT	129.20	31	ePKP	24 40.60	0.4	LHS	149.63	5	ePKP	25 16.50	-0.2
CMP	83.98	316	ePd	18 01.00	-0.9	JAO	130.42	358	ePKP	24 40.50	-1.5					iPKPbc25	20.87
WIN	84.03	248	eP	18 04.00	1.2	HVU	131.11	35	ePKP	24 44.68	0.8					ePKPob25	26.00
	0.5s	18.00nm			5.4mb				eSKP	28 03.66						e	25 38.19
SRS	84.21	312	e(P)	18 02.80	-0.3	ULM	131.51	16	ePKP	24 46.50	2.4X	JSC	149.79	6	ePKP	25 17.30	0.4
SOH	84.33	312	e(P)	18 03.40	-0.4	DUG	132.11	36	ePKP	24 45.91	0.1					iPKPbc25	21.34
MNK	84.37	325	eP	18 05.00	1.5		Z	19s		0.26um	5.0msz	PRM	149.85	8	ePKP	25 17.71	0.7
	1.0s	198.00nm			6.1mb				iSKP	28 07.68						iPKPbc25	21.74
PUL	84.56	331	eP	18 05.50	1.1				e	28 16.11						e	25 39.20
	1.0s	60.00nm			5.6mb	BW06	132.20	32	ePKP	24 46.72	0.7	HJA	150.33	203	ePKPd	25 21.50	3.5X
		e		18 21.00					iSKP	28 07.74						i	25 26.20
KNT	84.73	312	e(P)	18 05.00	-0.6	GSC	132.36	44	iPKPd	24 47.84	1.5	GOGA	150.34	10	ePKP	25 18.58	0.8
AGG	84.80	310	i(P)	18 05.00	-1.1				eSKP	28 08.64						iPKPbc25	22.93
VAY	85.00	312	iP	18 06.60	-0.4				e	28 15.45		HBF	151.20	5	(PKP)	25 19.91	0.9
	1.3s	65.00nm			5.5mb	PEC	132.83	46	ePKP	24 48.21	1.0					ePKPbc25	25.60
GRG	85.07	312	e(P)	18 06.76	-0.7	DAU	132.88	35	ePKP	24 48.29	0.8	CNCB	157.12	205	PKP	25 30.00	1.6
DEV	85.57	316	ePd	18 12.00	2.3				eSKP	28 10.73		LPB	157.42	205	PKP	25 28.00	-0.5
SKO	85.94	312	iP	18 10.70	-1.0				e	28 34.21		ZOBO	157.66	205	ePKP	25 19.00	-10.0X
OHR	86.29	312	iP	18 12.50	-1.0	EMUT	133.52	35	ePKP	24 49.68	1.0					i	25 29.70
	0.9s	58.00nm			5.7mb	MSU	133.55	38	ePKP	24 49.99	1.3					S.D. = 0.9	on 232 of 255 obs.
NVL	86.32	199	eP	18 15.00	2.0	RSSD	133.87	26	ePKP	24 48.63	-0.5						
IGT	86.41	310	e(P)	18 14.04	0.0		Z	21s		0.23um	4.9msz						
UZH	86.46	319	eP	18 15.00	0.9				eSKP	28 12.94							
		e		18 40.00					e	28 22.44							
OJC	88.33	320	iP	18 24.40	1.3	SRU	134.16	36	ePKP	24 50.15	0.4						
ILT	89.63	22	iPc	18 28.00	-0.9				eSKP	28 14.07							
		e		21 59.00					e	28 24.46							
KSP	90.63	321	ePc	18 34.30	0.5	PV09	135.37	36	ePKP	24 52.50	0.2	BRY	0.11	87	iPgc	26 30.58	1.2
		e		22 07.30					e	28 18.88						iSg	26 33.22
CLL	92.73	321	iP	18 43.70	0.2	PV10	135.51	36	ePKP	24 53.34	0.9	HCY	0.45	170	iPgd	26 35.47	-0.1
	1.2s	12.00nm			5.2mb	PV08	135.60	35	ePKP	24 54.03	1.3					iSg	26 42.98
HFS	92.83	330	eP	18 43.70	0.0				eSKP	28 19.19		NKY	0.45	100	iPgc	26 35.43	-0.2
	1.1s	42.30nm			5.8mb	CBM	136.53	350	PKP	25 00.00	6.2X					iSg	26 43.15
PGD	93.24	314	P	18 46.80	0.6		Z	20s		0.38um	5.1msz	BDV	0.69	152	iPgd	26 39.58	-0.4
CTI	93.38	316	P	18 47.40	0.7	GOL	136.60	31	ePKP	24 53.96	-0.6					iSg	26 50.27
MOX	93.58	320	iPc	18 47.90	0.5		Z	19s		0.17um	4.8msz	TTG	0.79	126	iPgd	26 41.04	-0.7
	1.6s	21.00nm			5.3mb	LMN	136.92	347	ePKP	24 57.00	2.4X					iSg	26 53.90
		e		22 31.60		TUC	138.19	44	ePKP	24 58.02	0.5	PLE	0.85	59	iPgc	26 42.13	-0.8
GRF	93.80	319	iPc	18 49.60	1.1	ALQ	139.35	37	ePKP	25 00.56	0.9					iSg	26 55.14
	1.3s	26.00nm			5.5mb		Z	21s		0.07um	4.4msz	IVA	1.11	91	iPgd	26 47.22	0.0
Z	22s	0.10um			4.2msz	RSNY	139.62	357	ePKP	24 59.54	0.0					iSg	27 04.25
		e		19 09.00			Z	20s		0.34um	5.1msz	ULC	1.13	145	iPgc	26 47.58	0.1
NAO	94.27	331	P	18 50.00	-0.4				iPP	27 51.66						iSg	27 04.88
	1.1s	17.70nm			5.4mb	HRV	141.37	353	PKP	25 10.00	7.3X	PVY	1.20	104	iPgc	26 48.84	0.0
OSS	94.44	316	P	18 52.43	0.7		Z	20s		0.35um	5.1msz					iSg	27 07.18
PGF	95.19	312	eP	18 55.60	0.5	ACO	142.03	29	iPKPd	24 58.90	-5.3X	OHR	2.53	134	ePn	27 09.00	0.8
	0.9s	5.55nm			5.0mb	PPD	143.39	224	ePKP	25 04.00	-2.9X					S.D. = 0.7	on 10 of 10 obs.
DIX	96.33	316	P	19 01.01	0.5	OCO	143.77	28	iPKPc	25 06.50	-0.6						
SBF	96.33	314	eP	19 00.50	0.2	WMOK	143.77	30	ePKPc	25 03.46	-3.7X						
	0.6s	6.95nm			5.4mb		Z	18s		0.65um	5.4msz						
CDF	96.39	318	eP	19 00.40	-0.1	MEO	143.83	30	iPKPd	25 03.60	-3.7X						
LPG	96.80	315	eP	19 02.90	0.3	FVM	144.32	17	ePKP	25 05.06	-2.9X						
	0.8s	4.45nm			5.0mb	MCWV	144.55	3	ePKP	25 06.87	-1.4	FRANCE					
LPL	96.81	315	eP	19 02.90	0.3	BAO	144.67	236	iPKPd	25 08.00	-1.3					ML 2.7 (LDG), 2.3 (GEN).	
	0.7s	4.95nm			5.1mb				i	25 21.60							
FRF	96.91	313	eP	19 03.20	0.4	LTX	144.84	42	iPKPc	25 07.76	-1.5	TOUF	0.27	108	Pg	32 39.87	-0.1
	0.9s	11.45nm			5.4mb	ELC	145.31	16	iPKPc	25 09.07	-0.6	STV	0.34	65	P	32 41.21	-0.2
HAU	97.02	318	eP	19 03.30	0.1	CYA	145.68	199	ePKPd	25 10.70	0.0					S	32 46.01
	0.6s	3.05nm			5.0mb	CBN	146.05	360	ePKP	25 11.00	0.1	CALN	0.35	180	Pg	32 42.09	0.6
Z	22s	0.15um			4.4msz	GRT	146.21	17	ePKP	25 09.84	-1.4	AURF	0.38	124	Pg	32 41.46	-0.6
LOR	98.73	317	eP	19 11.10	0.2				ePKPob25	12.34						Sg	32 48.05
	0.7s	2.75nm			4.9mb				e	25 23.86		SURF	0.39	352	Pg	32 42.11	-0.1
PMR	102.36	28	Pd iff	19 40.00	13.1X	OLY	146.25	20	ePKPc	25 11.67	0.3					Sg	32 48.09
	Z	18s			4.8msz				e	25 28.34		AUTN	0.40	105	Pg	32 43.15	0.6
YKA	115.66	18	ePKP	24 11.30	-2.1	CVL	146.27	1	ePKP	25 11.44	0.2	ENR	0.40	71	P	32 42.35	-0.2
	0.9s	2.90nm							e	25 24.70						S	32 47.66
FRB	120.10	355	ePKP	24 21.00	-0.8	MIAR	146.30	24	ePKP	25 11.07	-0.4	PZZ	0.43	20	P	32 43.17	0.0
MCW	121.29	33	PKP	24 25.69	1.1		Z	21s		0.21um	4.9msz					S	32 49.77
GMW	121.95	34	ePKP	24 26.68	0.8				e	25 25.81		SBF	0.46	121	Pg	32 43.74	0.1
JCW	122.06	33	PKP	24 26.63	0.5	NAV	146.81	5	ePKP	25 11.89	-0.3					Sg	32 50.46
BMW	122.28	36	ePKP	24 26.96	0.3				iPKPbc25	13.32		DOI	0.48	32	P	32 44.00	0.0
SHW	123.01	36	ePKP	24 29.19	1.1				ePKPab25	15.69						eSg	32 48.40
ASR	123.41	35	PKP	24 29.28	0.4	FSA	147.94	200	iPKPd	25 18.30	4.0X	SAOF	0.49	103	Pg	32 44.61	0.3
WTV	123.43	33	PKP	24 28.80	0.0	GBTN	148.01	10	ePKP	25 14.18	0.0					Sg	32 51.06
SAW	123.73	33	PKP	24 29.50	0.1				iPKPbc25	16.78		FRF	0.57	198	Pg	32 45.90	0.2
FCC	124.00	10	ePKP	24 31.50	2.1				ePKPab25	19.15		ROB	0.73	74	P	32 49.26	0.3
VBEM	124.02	36	PKP	24 30.88	0.7												

22d 01h

IMI	0.75	104	P	32	59.01	0.2	CNB	27.84	242	iPd	23	59.80	1.1	ALQ	92.17	52	eP	32	56.10	494kmX
			S	32	49.40			0.5s	23.00nm				5.0mb		0.8s	4.20nm		31	05.42	0.2
LRG	0.75	211	Pg	32	49.10	-0.2	RMQ	27.84	261	iPd	23	59.40	0.6				epP	32	58.58	503km
BHB	0.79	20	P	32	49.44	-0.6	CAN	28.13	243	iPd	24	01.50	0.2	PV08	92.49	48	ePc	31	06.69	0.0
			S	32	59.88		BWA	28.43	245	iPd	24	02.10	-1.8	FBA	93.66	13	(P)	31	09.14	-1.0
LMR	0.81	200	Pg	32	50.40	0.0	AFR	29.39	80	iPc	24	11.70	-0.6		0.6s	1.99nm				4.4mb
			Sg	33	00.70			0.8s	85.70nm				5.3mb				epP	33	03.99	512km
RRL	0.82	355	P	32	50.36	-0.4	PPT	29.56	80	iPc	24	13.40	-0.4	BGMT	93.86	41	eP	31	12.80	0.1
			S	33	01.21			0.7s	55.60nm				5.2mb	BW06	94.07	44	eP	31	13.23	-0.5
FIN	0.96	83	P	32	52.65	-0.2	CMS	30.30	251	iPd	24	19.80	-0.2		0.8s	1.93nm				4.3mb
BNI	0.97	351	P	32	57.50	4.4X		0.5s	12.00nm				4.7mb				epP	33	07.79	511km
			eSg	33	06.50		CTA	31.31	273	iPd	24	28.30	-0.4	GOL	95.26	48	ePd	31	19.31	0.1
CKI	1.05	71	P	32	54.50	0.0		0.6s	40.00nm				5.1mb		0.7s	5.22nm				4.8mb
			eSg	33	07.90		TOO	31.36	239	iPd	24	29.60	0.5	GLD	95.38	48	eP	31	20.29	0.6
RSP	1.08	14	P	32	54.57	-0.5		0.3s	43.00nm				5.5mb		1.1s	12.76nm				5.0mb
PCP	1.27	69	Pg	32	58.83	0.6	QLP	31.86	260	iPd	24	33.00	-0.3	YKA	101.99	26	ePdiff	32	01.50	12.9X
			Sg	33	14.74		PMO	32.03	77	iPc	24	33.80	-1.0		0.5s	0.40nm				
LSD	1.37	8	Pg	33	00.61	0.5		0.8s	55.90nm				5.2mb	LMN	125.34	51	ePKP	36	54.00	1.0
			Sg	33	17.99		VAH	32.17	78	iPc	24	34.90	-1.1	UPP	143.59	345	iPKP	37	23.20	-3.2X
LPG	1.40	356	Pg	33	01.10	0.5		0.9s	60.90nm				5.1mb	NAO	143.99	351	PKP	37	24.80	-2.3X
LPL	1.42	356	Pg	33	01.30	0.5	TPT	32.29	77	iPc	24	36.00	-1.0		0.8s	16.50nm				
PGF	2.18	134	Pn	33	10.30	-1.4		0.8s	79.50nm				5.3mb	HFS	144.17	348	ePKP	37	24.90	-2.5X
	S.D. = 0.5	on	26	of	27	obs.	RUV	32.41	78	iPc	24	37.00	-1.0		0.5s	15.40nm				
% APR 22, 1993 02h 33m 39.71±0.80s								1.1s	123.10nm				5.4mb	ADI	148.31	292	ePKP	37	37.90	2.9X
43.711 N ± 8.0km 12.233 E ± 6.3km						BFD	33.60	241	eP	24	48.20	0.4		PRNI	148.61	287	ePKP	37	40.10	4.6X
DEPTH = 10.0km (geophysicist)						STK	33.92	250	eP	24	49.90	-0.7		SAGI	148.90	287	ePKP	37	42.30	6.3X
CENTRAL ITALY (381)							0.5s	7.60nm					4.5mb	EKA	150.23	3	PKPc	37	41.50	4.3X
CRE	0.22	248	P	33	44.20	-0.3		iPcP	27	14.90					0.6s	4.40nm				
			eSg	33	48.80		ASPA	41.57	263	P	25	53.00	-0.4	CLL	152.41	342	iPKPd	37	47.70	7.2X
RSM	0.27	36	P	33	46.00	0.6	WB2	42.09	268	iPc	25	56.30	-1.2		1.0s	11.00nm				
SFI	0.35	307	P	33	46.70	-0.2		0.5s	62.60nm				5.4mb	BRG	152.52	340	i(PKP)	37	48.00	7.3X
			eSg	33	52.20			42.10	268	P	25	56.50	-1.1		S.D. = 1.0	on	80	of	91	obs.
PGD	0.41	294	P	33	48.10	0.0	WRA	42.10	268	P	25	56.50	-1.1	% APR 22, 1993 03h 28m 00.71±1.93s						
			eSg	33	53.70			0.7s	21.70nm				4.8mb		37.168 N ± 18.5km 28.199 E ± 17.2km					
ARV	0.56	112	P	33	49.50	-1.5	WARB	47.50	257	iPd	26	37.50	-1.9	DEPTH = 10.0km (geophysicist)						
			eSg	33	58.10			0.4s	18.00nm				4.9mb	TURKEY (366)						
ASS	0.71	154	P	33	55.10	1.3	KNA	48.46	271	iPd	26	45.70	-1.1	MD 3.2 (ISK).						
	S.D. = 1.2	on	6	of	6	obs.		0.8s	95.00nm				5.3mb	YER	0.07	117	iPg	28	02.00	-1.2
? APR 22, 1993 03h 18m 15.10±6.84s						MHA	51.30	30	eP	27	06.54	-1.1	ELL	1.43	107	iPn	28	28.10	1.3	
47.317 N ± 21.2km 10.944 E ± 43.6km						DHH	51.44	27	eP	27	07.11	-1.5	I2M	1.43	329	iPn	28	27.00	0.2	
DEPTH = 10.0km (geophysicist)						HLK	51.60	29	eP	27	08.42	-1.9	KHL	1.56	42	ePn	28	28.00	-0.6	
AUSTRIA (546)						KLB	54.14	248	eP	27	26.20	-1.9	BCK	1.93	81	ePn	28	34.00	0.1	
ML 1.4 (VIE).							0.6s	25.00nm					4.7mb		S.D. = 1.3	on	5	of	5	obs.
MOTA	0.11	76	iPg	18	18.10	0.0	CSY	58.49	206	eP	27	56.60	-1.0	& APR 22, 1993 03h 31m 54.53s						
			iSg	18	21.50			0.5s	37.90nm				5.0mb		38.819 N 122.831 W					
SOTA	0.20	118	iPg	18	19.70	0.0	MAW	76.08	201	P	29	46.09	1.3	DEPTH = 1.9km						
			iSg	18	23.30		PLM	84.07	49	ePc	30	27.89	0.8	NORTHERN CALIFORNIA (36)						
WATA	0.43	87	iPg	18	24.10	0.2	PEC	84.18	48	eP	30	28.21	0.8	<GM-P>. MD 3.1 (GM).						
			iSg	18	32.30			0.6s	12.14nm				4.7mb	NTYM	0.45	163	eP	32	03.73	0.2
WTTA	0.47	96	iPg	18	24.60	-0.2	ORV	84.86	42	eP	30	31.18	0.6	HMR	1.05	129	eP	32	14.64	-0.4
			iSg	18	32.70		LGPM	84.94	40	ePc	30	32.16	1.0	ORV	1.27	54	eP	32	17.07	-1.8
	S.D. = 0.3	on	4	of	4	obs.	CN2	85.13	324	eP	30	32.20	0.4	JEGM	1.33	167	eP	32	19.94	0.0
APR 22, 1993 03h 18m 49.27±0.19s								1.0s	4.60nm				4.1mb	WDC	1.77	7	eP	32	26.13	-0.3
25.610 S ± 5.0km 179.760 E ± 4.7km						GSC	85.24	47	iPc	30	33.32	0.7	ARN	1.79	145	eP	32	25.55	-1.2	
DEPTH = 509.1km (4 depth phases)						TIA	85.29	50	ePd	30	34.07	1.2	COE	1.81	149	eP	32	26.53	-0.4	
4.9mb (34 obs.)						GLA	86.61	45	eP	30	39.63	0.3	KMPM	1.88	328	(P)	32	30.63	2.6	
SOUTH OF FIJI ISLANDS (171)						TNP	0.8s	20.76nm					4.9mb	LMEM	1.97	29	eP	32	28.62	-0.9
OUZ	10.95	208	P	21	19.80	2.1	TUC	87.73	53	iPc	30	46.04	1.5	CMB	2.07	111	eP	32	29.25	-1.6
WCZ	11.30	203	P	21	23.90	2.5		0.8s	17.47nm				4.9mb	LGPM	2.09	0	eP	32	33.72	2.6
DZM	12.68	283	iPd	21	36.90	0.9	SHW	88.68	36	eP	30	49.72	1.0	FHC	2.17	336	(P)	32	33.65	1.4
			iS	23	52.20		ARUT	88.88	47	ePc	30	50.56	0.6	LBFM	2.63	16	eP	32	40.75	1.9
			i	29	17.90		TIY	89.19	313	Pc	30	52.00	0.8	MMPM	3.23	111	eP	32	47.25	-0.3
URZ	12.81	189	eP	21	36.90	-0.2	LON	89.26	36	eP	30	51.36	0.1	MEMM	3.27	109	(P)	32	47.66	-0.2
			S	24	00.70		GMW	89.26	35	ePd	30	52.08	0.9	MRCM	3.59	107	eP	32	51.16	-1.5
NOZ	13.05	186	eP	21	40.60	1.0	XAN	89.62	308	P	30	53.80	0.6	MTUM	3.67	112	(Pn)	32	52.30	-1.5
MOZ	13.52	197	P	21	47.50	3.1X		1.0s	8.90nm				4.6mb				ePg	32	57.14	
WAHZ	14.34	191	eP	21	51.20	-1.6	PGC	89.64	34	eP	30	53.50	0.6	KVN	3.70	85	eP	32	53.71	-0.4
MNG	15.39	192	P	22	02.50	-0.8	CHG	90.07	291	ePc	30	56.70	1.1	SRU	9.59	84	(P)	34	16.34	-0.5
QRZ	16.33	200	P	22	13.00	0.4		0.7s	8.56nm				4.8mb		19 obs. associated					
THZ	17.08	198	P	22	20.60	0.6	MSU	90.11	47	ePc	30	56.75	1.1	% APR 22, 1993 03h 33m 37.48±0.65s						
DSZ	17.39	200	P	22	24.20	1.2							epP	32	50.95	510km				
KHZ	17.53	195	P	22	23.50	-0.8	PMR	90.45	14	(P)	30	54.92	-1.4		41.703 N ± 9.1km 13.837 E ± 7.0km					
LTZ	18.20	198	P	22	29.20	-1.7		0.8s	7.56nm				4.7mb	DEPTH = 10.0km (geophysicist)						
VWZ	18.93	201	P	22	37.60	-0.2	DUG	90.62	45	eP	30	57.89	0.1	SOUTHERN ITALY (390)						
BWZ	20.51	201	eP	22	50.90	-1.8		0.8s	3.76nm				4.4mb	SDI	0.02	280	Pd	33	37.70	-1.8
BRS	24.20	260	iPd	23	27.50	0.9	LTX	91.52	58	ePc	31	01.77	-0.4	DUI	0.47	95	P	33	46.20	-0.8
	0.7s	7.00nm				4.3mb	HVU	91.52	44	iPc	31	02.26	0.3				eSg	33	54.10	
		e				16kmX	SRU	91.52	47	iPc	31	02.33	0.3	AOU	0.73	334	P	33	51.80	0.0
ARMA	25.26	253	iPd	23	37.10	0.9	EMUT	91.70	46	eP	31	03.80	0.8				eSg	34	03.30	

MNS 1.10 309 P eSg 34 05.30 -0.4
 SGO 1.59 135 P eSg 34 15.40 0.7
 ASS 1.62 328 P 34 07.80 1.6
 ARV 1.91 340 P 34 10.60 0.2
 MGR 2.03 140 P 34 12.20 0.0
 S.D. = 1.1 on 9 of 9 obs.

* APR 22, 1993 04h 47m 15.68 ± 0.73s
 6.913 S ± 7.2km 129.753 E ± 16.5km
 DEPTH = 95.4 ± 7.1 km
 4.6mb (4 obs.)

BANDA SEA (280)

MTN 6.05 167 iPc 48 45.70 1.4
 0.3s 260.00nm 6.0mb X
 KNA 8.84 186 eP 49 21.00 -1.5
 0.3s 70.00nm 5.9mb X
 WB2 13.70 161 iPc 50 23.70 -3.5X
 eS 52 45.60
 BIP 15.44 347 ePc 50 55.00 5.5X
 CTA 20.68 131 eP 51 53.20 3.0X
 e(S) 55 33.00
 NANU 20.74 220 iPd 51 51.20 0.6
 eS 55 40.00
 PGP 22.08 337 ePc 52 07.00 2.9X
 MEEK 22.30 207 eP 52 20.00 13.8X
 0.3s 4.00nm
 FORT 23.80 184 eP 52 21.00 0.3
 STK 27.19 158 iPd 52 51.80 -0.4
 0.5s 9.30nm 4.6mb
 iPP 52 55.30 12kmX
 ePP 53 08.20
 eS 57 53.70
 BRS 29.87 136 iPc 53 16.40 0.0
 MAT 43.95 10 eP 55 15.00 0.1
 1.0s 11.00nm 4.6mb
 XAN 45.26 335 P 55 25.00 -0.4
 0.7s 6.60nm 4.6mb
 LZH 49.21 332 eP 55 57.50 1.1
 1.5s 16.00nm 4.8mb
 GTA 53.78 331 eP 56 26.00 -4.6X
 YKA 107.78 26 ePKP 05 32.10 -0.9
 0.7s 0.40nm
 GEC2 112.20 320 ePKPd 05 41.50 -0.4
 0.5s 0.59nm
 LPG 117.73 318 ePKP 05 52.60 -0.3
 0.5s 1.00nm
 LPL 117.74 318 ePKP 05 52.50 -0.3
 0.4s 1.80nm
 CNCB 150.62 144 PKP 06 55.70 1.8X
 i 07 01.50
 i 07 38.80
 LPB 150.77 143 PKP 06 49.00 -5.0X
 e 07 01.00
 ZOBO 150.96 143 PKP 07 01.00 6.5X
 CCH 151.20 147 PKP 07 01.70 7.2X
 PPD 151.22 178 ePKP 07 00.50 6.5X
 S.D. = 0.9 on 13 of 24 obs.

& APR 22, 1993 06h 02m 50.19s
 60.890 N 149.828 W
 DEPTH = 29.6km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 2.7 (AEIC), 2.6
 (PMR).

PMS 0.38 20 iPd 02 58.50 -0.3
 PTE 0.39 93 iPc 02 58.12 -0.8
 eS 03 04.59
 SLKM 0.43 207 iPd 02 59.10 -0.4
 eS 03 06.24
 MPA 0.46 150 iPc 02 59.12 -0.9
 eS 03 06.42
 NKA 0.71 259 iPc 03 04.65 0.7
 SUA 0.73 323 iPc 03 03.50 -0.9
 eS 03 14.02
 PWA 0.76 358 eP 03 03.90 -0.9
 PMR 0.78 25 iPd 03 03.70 -1.3
 SPU 1.12 286 iPc 03 09.12 -0.9
 eS 03 24.53
 CGLM 1.14 293 eP 03 10.00 -0.3
 SML 1.17 37 iPd 03 09.51 -1.1

CPAM 1.18 289 eS 03 25.62
 CKN 1.19 287 eP 03 10.31 -0.6
 CRP 1.19 290 iPc 03 10.68 -0.3
 CKT 1.20 286 ePc 03 10.65 -0.4
 CP2 1.20 289 eP 03 10.28 -0.8
 BRK 1.23 289 eP 03 11.38 -0.3
 BRLK 1.25 205 ePd 03 10.73 -1.0
 eS 03 27.14
 CKL 1.26 285 iPc 03 11.30 -0.7
 BGL 1.30 288 iPc 03 12.09 -0.5
 RDT 1.31 257 eP 03 12.01 -0.6
 SKT 1.37 324 ePc 03 13.17 -0.2
 eS 03 31.67
 DFR 1.44 259 eP 03 13.70 -0.8
 RDN 1.49 257 iPc 03 14.64 -0.7
 eS 03 34.41
 RSO 1.50 255 iPc 03 14.88 -0.7
 eS 03 34.78
 RS2 1.50 255 iPc 03 14.94 -0.7
 RS1 1.51 255 iPc 03 14.96 -0.6
 RDW 1.52 256 iPc 03 15.08 -0.8
 SCM 1.53 51 ePd 03 15.01 -0.9
 eS 03 35.50
 CNPM 1.54 208 ePd 03 14.82 -1.1
 eS 03 34.77
 NCT 1.56 259 eP 03 15.50 -0.8
 eS 03 36.48
 HIN 1.71 105 ePd 03 15.66 -2.8
 VLZ 1.72 80 iPc 03 16.68 -1.8
 eS 03 38.27
 INE 1.80 244 eP 03 19.18 -0.7
 eS 03 42.70
 INW 1.83 245 eP 03 19.10 -1.2
 eS 03 42.69
 KLU 1.99 71 iPc 03 20.59 -1.9
 CVA 2.03 98 iPc 03 19.95 -3.1
 HUR 2.10 2 eP 03 25.26 1.3
 AUH 2.37 231 eP 03 28.08 0.2
 TZL 2.41 59 eP 03 28.79 0.4
 RND 2.57 10 eP 03 32.06 1.3
 TRF 2.58 355 eP 03 32.18 1.2
 SDG 2.62 49 eP 03 31.96 0.5
 SYI 2.63 211 P 03 30.10 -1.4
 CDD 2.75 226 eP 03 31.97 -1.3
 SVW 2.83 277 eP 03 32.80 -1.6
 MCNL 2.84 235 eP 03 33.42 -1.0
 KAIM 2.85 107 P 03 37.50 2.8
 PAX 2.93 43 eP 03 36.13 0.2
 GLB 2.97 77 ePc 03 33.86 -2.5
 CROM 3.28 89 eP 03 37.58 -3.3
 TGL 3.43 89 eP 03 39.49 -3.5
 TTA 3.57 308 eP 03 44.60 -0.4
 BALM 3.65 84 eP 03 42.81 -3.3
 FBA 4.13 12 eP 03 53.00 0.2
 IMA 5.48 343 eP 04 12.60 0.6
 55 obs. associated

APR 22, 1993 06h 21m 07.64 ± 0.72s
 4.452 N ± 5.6km 76.429 W ± 7.6km
 DEPTH = 126.1 ± 8.2 km
 4.5mb (11 obs.)

COLOMBIA (103)
 MD 4.5 (UPA).

BOG 2.36 86 iPd 21 48.50 1.7
 iS 22 19.00
 FUO 2.86 69 iP 21 55.00 1.7
 PSO 3.36 195 eP 21 59.50 -0.5
 BMG 4.23 52 eP 22 11.00 -0.4
 UPA 5.46 326 iP 22 26.56 -1.3
 iS 23 26.80
 SDV 7.25 52 eP 22 51.70 -0.9
 TOV 8.45 51 ePc 23 07.40 -1.3
 eS 24 38.10
 CEOS 9.23 60 eP 23 15.40 -3.9X
 ZOBO 22.17 158 P 25 53.00 -1.9
 LPB 22.42 159 P 25 58.00 0.9
 CNCB 22.72 159 P 26 00.60 0.4
 CCH 23.96 155 P 26 11.20 -0.8
 OLY 33.88 338 (P) 27 38.71 -1.5
 FVM 35.74 341 eP 27 54.33 -1.7
 MEO 36.50 329 iPc 28 01.70 -0.7
 ALQ 41.14 321 ePc 28 42.22 1.0
 0.8s 6.76nm 4.4mb
 epP 29 11.86 131kmX
 TUC 42.44 315 ePc 28 52.86 1.1
 0.7s 9.52nm 4.6mb

GLD 43.72 328 eP 29 03.05 0.9
 0.9s 15.40nm 4.7mb
 GOL 43.76 327 eP 29 03.19 0.6
 0.9s 8.83nm 4.5mb
 PV08 44.84 324 eP 29 11.93 0.6
 PV10 44.95 323 eP 29 12.19 0.2
 SRU 46.31 323 eP 29 23.24 0.5
 RSSD 46.38 333 iPc 29 23.78 0.5
 0.8s 10.74nm 4.6mb
 DAU 47.57 324 eP 29 33.25 0.5
 BW06 48.17 327 eP 29 37.79 0.5
 0.7s 1.75nm 4.0mb
 DUG 48.36 323 eP 29 39.36 0.7
 0.8s 4.74nm 4.3mb
 ULM 48.50 343 eP 29 40.00 0.7
 JAO 49.20 1 eP 29 44.00 -0.7
 BONR 50.65 317 eP 29 57.49 1.1
 LCCM 51.47 329 ePc 30 02.40 0.1
 NEW 55.77 328 eP 30 33.20 -0.4
 0.9s 6.14nm 4.6mb
 FCC 55.88 349 eP 30 35.00 0.8
 MCW 59.11 326 eP 30 56.68 -0.4
 FRB 59.45 4 eP 30 58.00 -1.0
 YKA 64.39 341 eP 31 30.28 -1.8
 0.5s 4.20nm 4.6mb
 INK 74.16 341 eP 32 32.00 0.4
 MBC 75.55 350 eP 32 39.00 -0.5
 0.6s 2.00nm 4.1mb
 GEC2 86.77 41 ePd 33 39.90 1.0
 0.9s 1.51nm 4.0mb
 KKN 143.41 28 PKP 40 26.40 -3.4X
 DMN 143.48 28 PKP 40 26.80 -3.2X
 GUN 143.58 27 PKP 40 27.20 -3.1X
 PKI 143.66 28 PKP 40 27.00 -3.4X
 WRA 146.31 240 PKP 40 36.70 2.1X
 0.7s 0.60nm
 LEM 175.33 239 iPKPd 41 01.00 -3.3X
 S.D. = 1.0 on 37 of 44 obs.

APR 22, 1993 06h 36m 13.14 ± 0.20s
 2.570 N ± 3.2km 127.317 E ± 5.1km
 DEPTH = 79.8km (6 depth phases)
 5.2mb (46 obs.)

NORTHERN MDLUCCA SEA (266)

DAV 4.81 339 eP 37 24.00 -0.7
 BIP 5.72 349 eP 37 35.00 -2.3
 eS 38 33.00
 PLP 8.85 345 ePd 38 18.20 -2.3
 PPR 11.14 310 ePc 38 51.00 -0.5
 KKM 11.59 288 eP 39 00.50 2.8X
 MTN 15.78 166 eP 39 51.50 -0.5
 0.4s 58.00nm 5.1mb
 KNA 18.26 176 eP 40 21.70 -1.1
 0.6s 62.00nm 5.0mb
 GUMO 20.51 57 eP 40 48.00 0.8
 PJG 20.51 57 eP 40 47.80 0.6
 GUA 20.53 57 eP 40 48.00 0.9
 0.5s 39.44nm 5.0mb
 HKC 23.40 328 eP 41 16.40 0.6
 WB2 23.42 163 eP 41 13.10 -2.8X
 0.4s 55.00nm 5.3mb
 iS 45 25.40
 QIZ 23.66 315 eP 41 18.00 -0.3
 GZH 24.48 328 iPc 41 27.00 0.8
 1.0s 140.00nm 5.3mb
 NANU 27.50 204 iPd 41 54.70 0.6
 WARB 28.59 181 iPc 42 03.20 -0.7
 0.4s 13.00nm 4.9mb
 SSE 28.96 349 Pc 42 08.00 0.9
 1.1s 12.00nm 4.4mb
 Z 20s 0.50um 4.1Msz
 S 46 50.00
 LOE 29.13 302 iPc 42 09.00 0.1
 NST 29.77 298 eP 42 14.50 -0.1
 MEEK 30.23 196 iPc 42 17.60 -0.9
 0.4s 22.00nm 5.2mb
 NJ2 30.39 346 Pc 42 20.60 0.8
 Z 20s 0.30um 3.9Msz
 S 47 20.00
 WHN 30.41 338 Pc 42 21.20 1.2
 1.0s 45.00nm 5.2mb
 sP 42 43.00
 S 47 22.00
 CHG 32.12 302 ePd 42 35.30 0.0
 1.0s 55.00nm 5.3mb

KMI	32.61	316	Pc	42	40.00	0.3		Z	24s	0.57um	4.6MszX	PRY	0.52	177	eP	30	40.50	-1.0		
	1.5s	80.00nm				5.3mb				SS	56	36.80			S	30	46.50			
		pP	43	02.50		99kmX	NDI	54.25	304	eP	45	32.70	-0.6	KSR	0.73	318	eP	30	45.00	-0.7
		sP	43	09.00			BOD	56.09	352	eP	45	45.10	-1.1		S	30	52.50			
MRWA	33.42	198	iPc	42	45.90	-0.4		1.5s	31.00nm		5.1mb	BFS	0.76	230	eP	31	25.00	38.5X		
	0.4s	28.00nm				5.5mb	KSH	59.24	315	P	46	11.50	2.7X		S	31	35.00			
COOL	33.78	190	eP	42	48.00	-1.5		0.9s	40.00nm		5.5mb	SLR	1.01	49	eP	30	51.00	0.2		
BAL	34.51	196	iPc	42	55.10	-0.6	Z	20s	0.50um		4.6Msz		S	31	05.00					
	0.3s	18.00nm				5.5mb			PP	48	27.00	SEK	1.91	175	iPc	31	05.70	0.9		
TIA	34.78	345	eP	42	57.80	-0.2			eS	54	18.00		S	31	30.00					
MAT	35.27	15	eP	43	06.00	3.8X	YAK	59.33	1	ePd	46	07.50	-1.3	SWZ	2.04	247	eP	31	07.10	0.5
Z	20s	0.71um				4.4Msz	MGD	60.16	13	eP	46	13.00	-1.5		S	31	31.60			
		eS	48	30.00				0.7s	40.00nm		5.7mb	BLF	2.91	202	eP	31	17.70	-1.3		
XAN	35.71	333	Pd	43	05.00	-0.9	ELT	60.77	333	eP	46	17.00	-1.7		S	31	55.00			
	0.6s	39.00nm				5.5mb		1.3s	49.00nm		5.5mb	FRS	3.82	209	eP	31	40.00	8.2X		
Z	30s	0.96um				4.4MszX	FRU	61.61	318	iP	46	25.00	0.3		S	32	11.10			
		pP	43	26.00		88km		2.0s	70.00nm		5.4mb	SUR	8.29	223	eP	32	36.50	1.4		
		sP	43	39.00					e	46	54.00	119kmX		S	34	13.00				
		S	48	41.00			TIK	68.97	1	eP	47	10.00	-1.4		S.D. = 1.3	on	7	of	9	obs.
		sS	49	11.00				1.6s	26.00nm		4.9mb									
		ScS	53	09.00					e	47	31.50	82km								
									e	47	51.00									
CD2	35.92	324	eP	43	07.40	-0.4	MAIO	70.68	308	iPd	47	24.00	1.3							
MUN	35.94	196	iPc	43	07.90	0.1		0.9s	12.36nm		4.8mb									
	0.6s	49.00nm				5.6mb			eS	56	40.00									
DL2	36.54	353	eP	43	17.70	5.0X	NRI	71.60	346	eP	47	32.00	4.6X							
	0.7s	120.00nm				5.9mb			e	47	41.00	29kmX								
		eS	48	51.00			ASH	71.90	309	eP	47	31.00	1.2	LIT	0.60	49	iPg	45	26.62	-0.7
STK	36.85	160	iPc	43	14.40	-1.0		1.5s	340.00nm		6.0mb									
	0.4s	13.70nm				5.2mb	VAN	72.09	309	iPd	47	31.50	0.5	AGG	0.76	154	ePg	45	29.74	-0.4
		iS	48	52.80				1.5s	54.00nm		5.2mb									
TIY	37.55	340	eP	43	22.00	0.6	KAT	73.73	310	iP+	47	43.00	2.5X	IGT	1.23	262	ePg	45	41.58	
Z	30s	1.09um				4.5MszX	ILT	74.72	18	iPd	47	45.00	-0.7							
		S	49	09.00				0.8s	4.00nm		4.4mb									
BRS	38.59	142	iPc	43	29.50	-0.7			i	47	59.00	49kmX		PAIG	1.39	80	ePb	45	41.50	1.0
		i	43	35.00		19kmX	IVE	75.24	329	eP	47	46.00	-2.9X							
BJI	38.64	346	eP	43	30.50	0.1		1.6s	30.00nm		5.0mb				S.D. = 1.2	on	4	of	5	obs.
	1.0s	96.00nm				5.7mb			e	48	20.70	139kmX								
		eS	49	20.00			ARU	76.19	328	eP	47	54.00	-0.2							
		eS	49	50.00					e	48	30.00	145kmX								
SNY	39.23	356	Pc	43	35.20	0.0	GRS	81.41	309	eP	48	25.00	1.9							
LZH	39.79	330	Pd	43	40.80	0.6		1.0s	20.00nm		5.0mb									
Z	30s	0.89um				4.4MszX	KDC	82.60	32	eP	48	28.84	0.3	FNA	0.40	325	ePg	51	41.42	-0.8
		pP	43	57.00		65kmX			ePp	48	49.22	75km								
		sP	44	05.50			IMA	83.20	24	iPd	48	32.54	0.7	LIT	0.71	119	ePg	51	47.90	-0.1
		eS	49	38.00				1.1s	17.50nm		4.9mb									
ARMA	40.18	147	iPd	43	43.60	0.2			ePp	48	52.99	75km		OHR	0.94	315	ePn	51	52.50	0.7
	0.6s	21.00nm				5.2mb	PMR	84.68	29	ePc	48	38.57	-0.5							
HHC	40.68	342	Pd	43	48.00	0.6		1.3s	55.86nm		5.4mb			VAY	1.10	38	ePn	51	55.00	0.5
	1.0s	14.00nm				4.8mb			ePp	48	59.33	76km		KNT	1.16	52	ePb	51	55.34	-0.3
Z	22s	0.52um				4.3Msz	OBN	88.32	325	eP	49	02.00	5.0X							
		sP	44	13.00				1.3s	47.00nm		5.5mb				S.D. = 0.8	on	5	of	5	obs.
		S	49	51.00			MBC	92.95	13	eP	49	18.00	-0.2							
BTO	40.96	340	eP	43	50.00	0.3	NB2	100.08	334	Pdiff	49	46.80	-4.1X							
CN2	41.09	358	eP	43	49.80	-0.7		0.7s	0.90nm		4.5mb									
	0.8s	2.90nm				4.2mb X	YKA	100.30	25	ePdiff	49	51.20	-0.6							
Z	20s	0.49um				4.4Msz		0.5s	0.40nm		4.3mb									
BWA	41.81	153	eP	43	57.40	0.8	PV10	114.05	46	(PKP)	54	46.38	0.8	HFS	2.48	28	eP	09	56.00	0.3
MDJ	41.92	2	eP	43	57.00	-0.3	LTX	121.83	53	ePKP	55	00.95	0.6		0.2s	7.80nm				
	1.0s	11.00nm				4.6mb	MIAR	126.74	42	ePKP	55	11.78	2.2	NRA0	2.77	2	ePn	09	59.52	-0.3
		pP	44	17.00		83km	TCA	149.26	160	ePKP	55	55.60	5.2X							
BFD	42.00	162	eP	43	57.90	-0.2	CNC8	159.35	134	ePKP	56	11.00	6.1X							
CAN	42.82	154	eP	44	05.20	0.3	LPB	159.45	133	ePKP	56	07.00	2.2	ODD1	3.11	310	eP	10	04.76	0.1
TOO	43.35	159	eP	44	09.70	0.5	ZO80	159.60	133	ePKP	56	06.00	0.8							
LSA	43.64	312	iPd	44	13.20	1.0		S.D. = 0.9	on	82	of	94	obs.							
	0.8s	23.00nm				5.1mb														
GTA	44.39	329	P	44	18.00	0.4	%	APR	22, 1993	07h	27m	17.23± 3.78s								
	1.5s	33.00nm				4.9mb														
		pP	44	33.00		58kmX														
YSS	46.25	15	eP	44	30.00	-2.1														
GUN	46.88	307	P	44	37.60	-0.3	TURKEY													
PKI	47.12	306	P	44	39.80	0.1		MD	2.7	(ISK).										
	0.6s	29.00nm				5.4mb														
KKN	47.31	306	P	44	41.00	-0.1	DST	0.16	302	iPg	27	20.60	-0.4							
DMN	47.38	306	P	44	41.60	-0.1														
	0.8s	66.00nm				5.6mb	KCT	0.81	335	iPg	27	32.50	-0.4	KHZ	0.55	267	P	15	14.60	0.4
GKN	47.92	306	P	44	45.80	0.0	BNT	1.08	321	ePn	27	38.30	0.8							
HYB	50.06	291	ePd	45	02.00	-0.2	EDC	1.10	319	ePn	27	38.00	0.1	WEL	1.17	18	P	15	25.30	0.6
	1.0s	50.00nm				5.5mb	YLV	1.13	22	iPn	27	38.30	-0.2	TCW	1.18	360	P	15	24.80	-0.1
KOD	50.07	281	eP	45	03.30	0.7	EYL	1.47	44	ePn	27	44.00	0.1	MRW	1.20	15	P	15	25.40	0.1
GBA	50.48	285	P	45	05.00	-0.3		S.D. = 0.6	on	6	of	6	obs.							
CIT	50.58	349	eP	45	06.50	0.9														
ZAK	51.81	341	eP	45	15.00	0.1	%	APR	22, 1993	07h	30m	31.07± 0.86s		THZ	1.20	301	P	15	25.10	-0.3
	2.0s	22.00nm				4.8mb														
MOY	53.68	340	eP	45	29.90	1.2														
WMO	54.00	325	P	45	32.00	0.6														
	2.0s	56.00nm				5.2mb														

MNG 1.99 27 P 15 49.20 -0.7
 eS 15 57.80
 ORZ 2.04 319 P 15 37.20 -0.5
 WVZ 2.70 254 P 15 47.10 0.1
 EWZ 2.75 245 eP 15 48.10 0.3
 ODZ 3.74 224 P 16 01.20 -0.6
 S.D. = 0.4 on 15 of 15 obs.

% APR 22, 1993 08h 51m 32.02±1.32s
 41.857 N ±12.0km 19.516 E ±5.7km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.3 (TTG).

ULC 0.23 298 iPg 51 36.91 0.0
 iSg 51 42.97
 TTG 0.60 342 iPg 51 44.17 0.0
 iSg 51 56.10
 BDV 0.67 310 iPg 51 44.83 -0.5
 iSg 51 57.28
 PVY 0.81 25 iPg 51 47.32 -0.5
 iSg 52 01.62
 HCY 0.96 308 iPg 51 50.13 -0.1
 iSg 52 06.85
 NKY 1.03 338 iPg 51 51.95 0.4
 iSg 52 10.12
 BRY 1.27 326 iPg 51 55.97 0.3
 iSg 52 16.97
 SKO 1.44 85 ePn 51 58.30 0.1
 iSn 52 18.10
 PLE 1.47 357 iPnc 51 58.96 0.2
 iSn 52 22.15
 S.D. = 0.4 on 9 of 9 obs.

? APR 22, 1993 09h 17m 30.37±7.77s
 39.289 N ±55.2km 29.650 E ±31.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

DST 0.85 292 ePg 17 46.40 -0.4
 eSg 17 56.40
 YLV 1.29 351 ePn 17 54.20 -0.2
 EYL 1.33 17 ePn 17 55.00 0.0
 KCT 1.38 314 iPn 17 56.40 0.7
 ISK 1.83 346 ePn 18 02.00 -0.1
 IZM 2.07 245 ePg 18 59.20 53.6X
 iSg 19 11.70
 S.D. = 0.6 on 5 of 6 obs.

? APR 22, 1993 09h 24m 43.70±1.31s
 40.824 N ±9.3km 23.774 E ±12.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.2 (THE).

SOH 0.32 270 ePg 24 50.16 -0.2
 eSg 24 55.12
 SRS 0.32 335 ePg 24 50.28 -0.1
 eSg 24 54.72
 OUR 0.51 162 ePg 24 54.12 0.0
 KNT 0.74 297 ePg 24 58.60 0.3
 eSg 25 09.04
 S.D. = 0.4 on 4 of 4 obs.

? APR 22, 1993 09h 33m 31.29±10.75s
 36.248 N ±93.9km 29.172 E ±15.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

ELL 0.78 50 iPg 33 46.10 -0.4
 eSg 34 01.10
 YER 1.14 321 iPg 33 52.50 -0.1
 BCK 1.66 43 ePn 34 01.00 0.4
 KHL 2.09 8 ePn 34 07.00 0.1
 S.D. = 0.6 on 4 of 4 obs.

? APR 22, 1993 09h 38m 42.58±3.54s
 10.913 N ±12.9km 62.254 W ±31.8km
 DEPTH = 33.0km (normal)
 NEAR COAST OF VENEZUELA (97)
 MD 3.3 (TRN).

TCE 0.54 114 eP 38 53.96 0.2
 eS 39 03.59

TRN 0.88 107 eP 38 58.35 -0.2
 eS 39 10.83
 TPP 0.99 127 eP 39 00.06 0.0
 eS 39 14.81
 GRW 1.37 25 eP 39 05.64 0.0
 eS 39 24.51
 TPR 1.48 79 eP 39 07.36 0.3
 BOT 1.53 80 eP 39 07.58 -0.3
 S.D. = 0.3 on 6 of 6 obs.

? APR 22, 1993 10h 08m 17.29±2.72s
 40.374 N ±10.4km 23.263 E ±27.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

SOH 0.45 9 ePg 08 25.96 -0.5
 eSg 08 32.20
 PAIG 0.55 144 iPg 08 28.44 0.1
 OUR 0.55 94 ePg 08 28.36 -0.1
 eSg 08 36.44
 SRS 0.78 19 ePg 08 33.20 0.7
 S.D. = 0.9 on 4 of 4 obs.

? APR 22, 1993 10h 17m 04.02±3.96s
 39.523 N ±28.8km 29.515 E ±17.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

DST 0.69 277 ePg 17 17.40 -0.3
 eSg 17 28.00
 YLV 1.05 354 ePn 17 23.20 -0.6
 KCT 1.15 309 ePn 17 26.20 0.7
 EYL 1.15 25 ePn 17 26.00 0.4
 HRT 1.30 5 ePn 17 28.00 -0.1
 S.D. = 0.7 on 5 of 5 obs.

APR 22, 1993 10h 24m 35.63±0.92s
 16.479 N ±5.9km 122.189 E ±11.5km
 DEPTH = 55.2 ±10.8 km
 4.3mb (4 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

CVP 1.27 344 iPd 24 57.80 0.4
 iS 25 16.00
 BCP 1.52 268 eP 25 00.00 -1.0
 eS 25 18.00
 BAG 1.55 268 iPd 25 00.20 -1.2
 iS 25 21.00
 SZP 1.97 303 ePd 25 09.00 1.8
 OCP 2.12 210 eP 26 02.00 52.7X
 QVP 2.17 212 ePc 25 10.00 0.0
 PIP 2.37 321 iPd 25 13.00 0.2
 iS 25 43.00
 TGY 2.65 207 ePd 25 18.00 1.1
 eS 25 59.00
 PGP 3.19 202 ePc 25 25.00 0.5
 eS 26 12.60
 BBP 3.95 357 ePc 25 33.50 -1.6
 PLP 5.94 152 ePc 26 03.00 -0.1
 WB2 38.12 161 iPc 31 49.70 -1.5
 1.0s 4.10nm 4.3mb
 INK 80.00 21 eP 36 42.00 1.8
 MBC 80.54 12 eP 36 43.50 0.5
 SLL 84.77 332 ePKP 37 04.40 -0.6
 0.4s 2.40nm 4.7mb
 NB2 85.46 333 P 37 07.70 -0.8
 0.6s 1.70nm 4.4mb
 YKA 89.67 23 eP 37 29.00 0.3
 0.6s 0.50nm 4.0mb
 S.D. = 1.2 on 16 of 17 obs.

? APR 22, 1993 10h 50m 03.76±8.39s
 39.341 N ±59.1km 29.701 E ±36.4km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

DST 0.87 288 ePg 50 20.40 -0.6
 eSg 50 32.40
 YLV 1.25 348 iPn 50 27.20 -0.3
 EYL 1.27 16 ePn 50 28.10 0.2
 KCT 1.38 312 iPn 50 31.10 1.5
 S.D. = 1.6 on 4 of 4 obs.

& APR 22, 1993 11h 03m 35.43s
 32.405 N 115.121 W

DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 3.7 (PAS), 3.9 (GS).

GLA 0.69 21 (P) 03 47.32 -2.0
 PLM 1.74 303 eP 04 03.38 -3.2
 PEC 2.26 311 (P) 04 10.75 -3.3
 SSK 2.81 311 eP 04 18.97 -2.9
 GSC 3.21 335 (P) 04 28.23 0.8
 TUC 3.67 90 eP 04 27.69 -6.4
 S 05 29.54
 ISA 4.28 320 (P) 04 41.66 -1.0
 TPNV 4.63 349 (P) 04 48.17 0.5
 S 06 02.27
 ARUT 5.54 14 eP 04 59.20 -1.5
 TNP 5.92 344 (P) 05 08.00 2.1
 BONR 6.12 336 (P) 05 10.15 1.3
 MSU 6.55 21 (Pn) 05 12.58 -2.4
 ePg 05 33.52
 SRU 7.66 28 (P) 05 28.62 -1.8
 PV10 7.75 38 eP 05 31.15 -0.7
 PV09 7.80 37 eP 05 31.35 -1.1
 S 07 40.40
 DUG 7.99 13 eP 05 33.60 -1.4
 S 07 48.74
 PV08 8.11 39 eP 05 36.01 -0.8
 S 07 49.11
 EMUT 8.17 24 (P) 05 35.96 -1.7
 S 07 46.65

18 obs. associated
 ? APR 22, 1993 11h 07m 00.71±7.55s
 33.418 S ±23.0km 72.865 W ±57.3km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)
 MD 4.0 (SAN).

LCCH 1.08 93 iP 07 21.11 0.0
 iS 07 37.72
 LNV 1.33 114 iP 07 25.26 0.1
 iS 07 44.52
 TACH 1.63 99 iP 07 29.19 -0.3
 PEL 1.85 82 iP 07 32.70 0.0
 iS 07 59.10
 CHCH 1.91 106 iP 07 33.74 0.0
 iS 07 59.97
 PCH 1.97 97 iP 07 34.70 0.1
 iS 08 01.69
 FCH 2.16 88 iP 07 37.70 0.2
 iS 08 07.12

S.D. = 0.2 on 7 of 7 obs.
 & APR 22, 1993 11h 15m 28.97s
 32.416 N 115.106 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 3.0 (PAS).

GLA 0.68 20 iPc 15 41.05 -1.5
 PLM 1.75 303 (P) 15 59.83 -0.4
 S 16 19.49
 PEC 2.27 311 (P) 16 09.55 2.0
 GSC 3.21 334 (P) 16 21.95 1.0
 4 obs. associated

& APR 22, 1993 11h 19m 29.53s
 32.397 N 115.105 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 2.8 (PAS).

GLA 0.69 20 iPc 19 41.80 -1.6
 PLM 1.76 303 (P) 19 59.27 -1.6
 PEC 2.28 311 (P) 20 06.75 -1.6
 GSC 3.22 334 (P) 20 27.05 5.3
 4 obs. associated

? APR 22, 1993 11h 34m 34.32±1.22s
 36.910 N ±14.7km 29.246 E ±7.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

ELL 0.56 107 iPg 34 45.60 -0.1
 iSg 34 55.60
 YER 0.80 287 iPg 34 50.00 0.1
 iSg 35 03.00

22d 11h

BCK 1.21 62 ePn 34 57.00 0.2
 KHL 1.43 9 ePn 35 00.20 -0.1
 DST 2.74 350 iPn 35 59.30 40.2X
 BNT 3.59 344 ePn 36 05.10 33.9X
 S.D. = 0.3 on 4 of 6 obs.

& APR 22, 1993 11h 41m 06.25s
 32.408 N 115.109 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 3.2 (PAS).

PLM 1.75 303 eP 41 40.13 2.6
 PEC 2.27 311 eP 41 47.44 2.5
 GSC 3.21 334 (P) 42 02.48 4.2
 TUC 3.66 90 (P) 42 06.75 2.0
 S 42 56.58
 ARUT 5.54 14 (P) 42 36.34 4.9
 PV10 7.75 38 (P) 43 13.94 11.4
 6 obs. associated

% APR 22, 1993 11h 51m 51.04± 0.69s
 42.429 N ± 6.3km 19.256 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.3 (TTG).

TTG 0.00 79 iPg 51 54.47 1.6
 iSg 51 56.92
 BDV 0.35 246 iPg 51 58.14 -0.1
 iSg 52 04.05
 NKY 0.43 334 ePg 51 59.75 -0.1
 iSg 52 06.38
 ULC 0.47 181 iPg 52 00.10 -0.4
 iSg 52 07.48
 PVY 0.56 72 iPg 52 01.92 -0.5
 iSg 52 10.58
 IVA 0.65 47 iPg 52 03.33 -0.7
 iSg 52 13.28
 BRY 0.71 312 iPg 52 04.54 -0.5
 iSg 52 15.18
 S.D. = 1.0 on 7 of 7 obs.

APR 22, 1993 12h 31m 56.67± 0.28s
 10.656 N ± 4.0km 62.567 W ± 3.6km
 DEPTH = 104.8 ± 3.5 km
 4.5mb (11 obs.)
 NEAR COAST OF VENEZUELA (97)
 MD 4.1 (TRN). Felt (III) on
 Trinidad.

TCE 0.80 87 eP 32 14.88 -0.8
 TRN 1.14 90 eP 32 18.73 -0.6
 eS 32 32.84
 TPP 1.15 107 eP 32 19.30 -0.1
 TBH 1.49 96 eP 32 22.95 -0.4
 CAIV 1.59 263 eP 32 46.30 21.6X
 GRW 1.74 31 eP 32 26.38 -0.3
 PIG 1.77 73 eP 32 27.27 0.4
 TPR 1.84 73 eP 32 27.37 -0.4
 eS 32 49.66
 BOT 1.89 74 eP 32 27.60 -0.8
 eS 32 50.46
 TGRV 2.40 221 iPc 32 35.70 0.4
 iS 33 02.70
 SVB 2.90 26 eP 32 41.77 -0.2
 SVV 2.96 26 eP 32 42.70 0.0
 eS 33 17.68
 GUAN 3.11 257 eP 32 46.30 1.4
 eS 33 22.80
 SLB 3.49 25 eP 32 49.57 -0.4
 eS 33 28.10
 SLW 3.70 25 eP 32 52.54 -0.4
 eS 33 36.35
 BIM 4.11 21 iPd 32 59.64 1.2
 MVM 4.20 23 iPc 32 01.36 -58.4X
 OLLA 4.22 262 eP 33 00.20 0.2
 eS 33 49.30
 FDF 4.28 19 iPc 32 02.33 -58.5X
 CAR 4.29 268 eP 33 01.90 0.9
 eS 33 51.00
 CRM 4.38 21 ePd 32 04.02 -58.2X
 GUAC 4.65 265 ePd 33 06.40 0.4
 eS 34 01.80
 PAG 5.41 9 eP 33 17.50 1.0
 S 34 17.70
 SFG 5.72 13 eP 33 22.20 1.5

DEG 5.81 14 eP 33 22.75 0.8
 CEOS 5.91 255 eP 33 22.30 -1.0
 eS 34 26.70
 MGH 6.04 3 eP 33 25.30 0.2
 BPA 6.39 6 eP 33 30.00 0.1
 TOV 7.16 264 eP 33 40.70 0.2
 eS 34 59.70
 SDV 8.14 258 eP 33 52.00 -2.0
 ZOBO 27.31 192 P 37 35.20 1.0
 LPB 27.56 192 eP 37 36.00 -0.3
 CNCB 27.81 191 P 37 40.90 2.2
 PRM 29.53 325 eP 37 54.04 0.7
 NAV 31.21 331 eP 38 09.26 1.1
 ELC 35.76 322 eP 38 47.29 0.0
 OLY 36.06 318 eP 38 50.01 0.1
 WMOK 40.77 312 eP 39 27.72 -1.4
 0.6s 6.74nm 4.6mb
 LTX 42.58 302 eP 39 43.53 -0.6
 JAO 44.30 349 eP 39 57.00 -0.6
 GOL 47.68 315 eP 40 23.89 -0.9
 0.8s 6.12nm 4.5mb

ULM 48.07 332 ePc 40 28.50 1.2
 RSSD 48.86 321 (P) 40 33.26 -0.5
 0.6s 2.03nm 4.2mb
 PV10 49.78 312 eP 40 40.89 -0.1
 SRU 51.13 312 eP 40 50.75 -0.4
 BW06 51.83 317 ePc 40 54.93 -1.5
 0.4s 5.18nm 4.9mb
 FRB 53.18 357 eP 41 04.50 -1.2
 0.7s 6.00nm 4.7mb
 FCC 53.59 340 eP 41 09.50 0.7
 HVU 53.67 314 eP 41 09.35 -0.5
 LCCM 54.59 319 eP 41 15.80 -0.9
 YKA 63.68 336 eP 42 15.60 -3.1X
 0.4s 3.30nm 4.6mb
 MBC 72.11 348 ePd 43 10.10 -0.9
 0.6s 2.00nm 4.1mb
 KBA 72.68 44 iPc 43 16.20 1.0
 0.8s 5.30nm 4.4mb
 NB2 72.90 29 P 43 16.80 0.9
 0.9s 3.60nm 4.2mb
 GEC2 73.02 42 ePc 43 17.20 0.2
 0.7s 2.68nm 4.1mb
 e 43 20.90
 INK 73.15 338 eP 43 17.00 -0.2
 HFS 73.99 30 eP 43 22.10 -0.1
 0.5s 6.20nm 4.7mb
 S.D. = 0.9 on 52 of 57 obs.

% APR 22, 1993 12h 36m 37.15± 1.96s
 36.607 N ± 17.0km 4.551 W ± 9.2km
 DEPTH = 31.9 ± 14.3 km
 STRAIT OF GIBRALTAR (385)
 mbLg 2.9 (MDD).

EPRU 0.65 303 iPg 36 50.99 0.9
 eSg 36 58.70
 EJIF 0.76 258 ePg 36 50.86 -0.6
 eSg 37 00.40
 EGUA 0.82 74 ePg 36 51.92 -0.5
 eSg 37 04.00
 ELUO 0.98 13 ePg 36 55.17 0.5
 eSg 37 08.40
 ECOG 1.03 49 ePg 36 56.19 0.6
 eSg 37 09.80
 EHOR 1.34 336 iPnd 36 58.46 -1.2
 eSn 37 15.40
 EBAN 1.67 21 iPnc 37 03.45 -1.1
 eSn 37 23.40
 S.D. = 1.2 on 7 of 7 obs.

? APR 22, 1993 12h 42m 39.42± 5.75s
 18.622 N ± 71.9km 65.149 W ± 42.0km
 DEPTH = 120.0km (geophysicist)
 PUERTO RICO REGION (90)

LPR 0.75 246 iP 42 59.70 0.2
 S 43 13.90
 CPD 0.93 232 iP 43 01.00 -0.1
 SJG 1.08 242 i(P) 43 02.50 -0.1
 PORP 1.52 248 iP 43 07.30 -0.2
 PNP 1.56 249 iP 43 08.00 0.0
 S 43 29.00
 LRS 1.64 259 iP 43 08.70 -0.3
 S 43 29.70
 MGP 1.94 252 iP 43 13.00 0.4
 S.D. = 0.3 on 7 of 7 obs.

? APR 22, 1993 12h 44m 06.71± 1.08s
 39.222 N ± 7.8km 27.405 E ± 13.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZM 0.83 188 iPg 44 22.80 0.0
 iSg 44 34.80
 DST 1.02 68 ePn 44 26.10 0.0
 KGT 1.23 356 ePn 44 29.60 0.0
 KCT 1.26 35 ePn 44 30.10 0.0
 S.D. = 0.1 on 4 of 4 obs.

APR 22, 1993 12h 45m 55.09± 0.12s
 56.885 N ± 2.0km 154.638 W ± 1.8km
 DEPTH = 34.8km (44 depth phases)
 5.4mb (121 obs.) 4.4Msz (34 obs.)
 KODIAK ISLAND REGION (13)

Mw 5.0 (HRV). ML 5.2 (PMR), 5.0
 (AEIC). Felt (IV) at Akhiak and
 Larsen Bay; (III) at Korluk and
 Kodiak; (I) at Chiniak and Old
 Harbor.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 225, 37C
 Centroid Location:
 Origin Time 12:45:57.7 0.4
 Lat 56.80N 0.09 Lon 153.81W 0.10
 Dep 27.4 5.1 Half-duration 1.0
 Moment Tensor; Scale 10**16 Nm
 Mrr=-3.36 0.31 Mtt= 1.84 0.33
 Mff= 1.52 0.31 Mrt= 0.50 0.84
 Mrf= 1.87 0.95 Mtf= 1.80 0.38
 Principal Axes:
 T Val= 3.87 Plg=14 Azm=314
 N 0.12 13 221
 P -3.99 71 90
 Best Double Couple: Mo=3.9*10**16
 NP1:Strike= 61 Dip=33 Slip= -67
 NP2: 214 60 -105

KDC 1.45 52 ePd 46 18.54 -0.8
 SYI 2.11 34 iP 46 29.26 0.5
 CDD 2.12 14 eP 46 30.66 1.7
 MCNL 2.31 4 iP 46 33.51 1.9
 AUI 2.54 14 eP 46 36.72 1.9
 eS 47 07.08
 AUH 2.57 14 eP 46 37.24 2.0
 AUE 2.57 15 eP 46 37.39 2.2
 AUL 2.58 14 eP 46 37.38 1.9
 OPT 2.87 14 P 46 37.70 -1.9
 XLV 3.00 30 eP 46 42.46 1.0
 CNPM 3.20 33 iP 46 44.40 0.1
 eS 47 20.83
 INW 3.29 13 eP 46 46.80 1.2
 INE 3.29 14 eP 46 46.51 0.8
 BRK 3.50 33 eP 46 48.15 -0.3
 eS 47 24.89
 SDN 3.63 247 ePd 46 51.25 1.1
 RS1 3.72 15 eP 46 52.66 0.9
 RS2 3.72 15 eP 46 52.45 0.7
 RSO 3.72 15 eP 46 52.45 0.7
 RDW 3.73 14 eP 46 52.56 0.6
 RDN 3.77 14 eP 46 53.30 0.9
 NCT 3.79 13 eP 46 53.59 0.8
 DFR 3.86 14 eP 46 54.17 0.6
 NKA 4.25 23 eP 47 00.55 1.4
 SVW 4.27 354 eP 47 00.50 1.1
 SLKM 4.30 31 eP 46 58.38 -1.5
 eS 47 46.12
 CKL 4.49 14 iP 47 02.78 0.2
 CKT 4.51 15 iP 47 02.90 0.1
 SPU 4.51 16 iP 47 02.75 -0.1
 eS 47 55.70
 CKN 4.53 15 iP 47 03.74 0.6
 BGL 4.54 14 eP 47 03.71 0.4
 MPA 4.54 35 eP 47 01.60 -1.6
 CP2 4.56 15 eP 47 04.00 0.3
 CPAM 4.57 15 eP 47 03.83 0.1
 CRP 4.58 15 eP 47 04.06 0.2
 PTE 4.94 34 eP 47 06.81 -2.1
 SUA 5.01 22 eP 47 09.15 -0.9
 MID 5.08 56 eP 47 06.20 -4.6X
 PMS 5.10 29 eP 47 09.60 -1.5
 SKT 5.35 16 eP 47 14.82 0.1

PWA	5.37	25	eS	48 14.21	LMEM	26.91	113	eP	51 36.12	1.4	GLA	36.11	114	ePcP	55 19.68
PMR	5.50	29	ePc	47 14.00				pP	51 45.53	33km				iPc	52 56.10
HIN	5.52	47	eP	47 14.23	ORV	27.68	115	eP	51 41.33	-0.3				ePd	53 05.69
SML	5.90	31	eP	47 19.96				epP	51 50.69	33km	GLD	36.13	97	ePc	52 57.18
CVA	5.91	48	eP	47 19.07	MGD	28.01	300	eP	51 44.00	-0.3		1.1s	52.26nm	pP	53 06.82
VLZ	6.04	42	eP	47 21.54						5.0mb				iPd	52 58.70
			eS	48 26.38	Z	16s	0.90um			4.5MszX	YAK	36.75	310		
TTA	6.10	354	eP	47 21.61	N	16s	0.70um					Z	17s	0.80um	4.6MszX
			eSg	49 07.78	E	16s	0.70um					N	18s	0.30um	
KAIM	6.18	56	eP	47 22.28				e	52 04.00			E	17s	0.50um	
			eS	48 29.66				e	52 35.00					i	53 09.00
SCM	6.21	34	eP	47 24.65	LCCM	28.43	94	ePd	51 48.00	-0.5				i	55 21.00
			eS	48 32.51	COE	29.39	118	(P)	51 57.53	0.6				eS	58 37.00
RAGM	6.27	52	eP	47 23.97	CMB	29.41	115	P	52 10.00	12.8X	YSS	38.54	283	iPc	53 15.70
			eS	48 30.81								Z	21s	0.60um	4.4Msz
KLU	6.43	40	eP	47 27.14	KVN	29.79	111	eP	52 01.32	0.6	TUC	38.76	110	ePd	53 18.49
			eS	48 36.43				pP	52 11.04	34km		1.0s	21.96nm		4.9mb
HUR	6.61	20	eP	47 31.88	SAO	29.89	118	P	52 10.00	8.6X		Z	21s	0.26um	4.0Msz
			eS	48 42.98										pP	53 28.41
TRF	6.93	16	eP	47 35.80	Z	18s	0.51um			4.2Msz	ALO	38.99	103	ePd	53 19.43
TZL	6.98	38	eP	47 35.85	MMPM	30.42	114	ePd	52 07.19	0.7		1.1s	25.65nm		4.9mb
SNH	7.00	57	eP	47 34.16				epP	52 17.04	34km		Z	21s	0.19um	3.9Msz
CROM	7.12	52	eP	47 35.96	HVU	30.62	101	eP	52 08.79	0.8				ePcP	55 29.57
RND	7.15	21	eP	47 39.20	MTUM	30.85	114	iPd	52 10.89	0.8				e	55 40.77
GLB	7.20	46	iP	47 37.22				epP	52 20.56	34km					
			eS	48 55.34	TNP	30.97	111	ePc	52 11.56	0.3	KUSJ	39.99	277	eP	53 25.90
TGL	7.25	53	eP	47 37.58						4.8mb	FRB	40.07	44	ePd	53 27.40
SDG	7.29	35	eP	47 39.75	FCC	31.35	61	eP	52 12.46	35km		0.9s	27.00nm		5.0mb
MCK	7.43	20	eP	47 42.66	BW06	31.68	97	ePd	52 17.21	-0.2	ASAJ	40.44	279	eP	53 31.00
BALM	7.59	52	eP	47 42.31						5.1mb	HOJ	41.25	277	eP	53 36.00
PAX	7.64	33	eP	47 45.03	DUG	31.72	104	ePc	52 17.74	0.1	ACO	41.64	95	iPc	53 41.20
CTGM	8.00	54	eP	47 48.03							MRRJ	42.43	279	eP	53 47.30
NEA	8.18	17	eP	47 51.09	Z	19s	0.42um			4.1Msz	JAQ	42.65	59	ePd	53 48.20
WRH	8.26	20	eP	47 52.35				iPcP	55 07.97					pP	53 58.50
MLY	8.39	11	eP	47 55.23	ISA	32.22	116	P	52 30.00	8.0X	WMOK	43.29	96	ePd	53 54.70
HDA	8.43	23	eP	47 55.86								0.8s	61.74nm		5.4mb
CCB	8.47	20	eP	47 55.10	Z	21s	0.95um			4.5Msz				pP	54 05.04
DOT	8.57	33	eP	47 58.20	TPNV	32.33	112	eP	52 23.75	0.7	MEO	43.37	96	iPc	53 55.20
MDM	8.68	18	eP	47 58.03						5.3mb	DAG	43.73	13	iPc	53 57.30
FBA	8.70	20	eP	47 57.83	DAU	32.39	102	eP	52 23.95	0.2		0.9s	114.29nm		5.6mb
GLM	8.86	20	eP	48 00.38	EMUT	33.06	102	eP	52 29.81	0.3	KBS	44.21	4	eP	54 02.60
IMA	9.23	2	eP	48 05.97				epP	52 39.57	34km	OFUJ	44.43	275	eP	54 03.70
SIT	10.54	81	eP	48 20.90				ePcP	55 11.82		LTX	44.83	106	iPd	54 07.54
ADK	13.76	258	(P)	49 07.86	ARUT	33.15	107	eP	52 30.34	0.1				eP	54 18.06
BRW	14.51	357	eP	49 16.70				epP	52 40.33	35km	FVM	45.49	86	ePd	54 10.86
INK	14.91	31	eP	49 24.00	MSU	33.28	105	ePd	52 32.16	0.8		1.2s	57.96nm		5.4mb
				4.7mb				eP	52 41.88	34km				ePcP	55 49.53
ILT	15.55	325	eP	49 36.00				ePcP	55 12.79		BOD	45.55	312	iPd	54 12.50
				2.9				e	55 23.81			0.7s	40.00nm		5.4mb
				4.6mb	GSC	33.33	114	eP	52 31.74	0.0	EEO	45.57	69	eP	54 14.50
				4.5MszX				epP	52 41.77	35km	NRI	46.15	334	iPd	54 16.70
					TIK	33.55	326	iPc	52 32.00	-1.1				e	54 32.00
										5.3mb				e	55 53.00
					Z	15s	0.80um			4.6MszX				e	56 13.00
								i	52 42.00					e	56 47.00
SMY	18.40	270	eP	50 08.18				eS	57 50.00		MIAR	46.29	92	ePd	54 17.67
				5.1mb				e	58 08.00			1.1s	54.69nm		5.4mb
PGC	20.44	100	eP	50 32.00				iPd	52 35.52	0.3		Z	19s	0.39um	4.4Msz
YKA	20.70	58	eP	50 32.30	SRU	33.72	103	iPd	52 45.60	35km				epP	54 28.38
				4.9mb				epP	55 12.50					iPcP	55 52.86
MCW	20.76	100	P	50 35.96				ePcP	55 12.50		ELC	46.66	86	eP	54 19.95
GMW	21.45	102	eP	50 42.37	SSK	33.76	116	(P)	52 35.68	0.1	MDJ	47.04	289	iPc	54 23.60
JCW	21.53	100	P	50 43.52	RSSD	33.82	90	iPc	52 35.89	-0.1		1.0s	28.00nm		5.2mb
BMW	21.89	105	eP	50 46.67										pP	54 34.20
LON	22.47	103	eP	50 53.13						5.5mb					36km
SHW	22.60	104	eP	50 52.68	Z	20s	0.90um			4.5Msz	ACTO	47.11	73	P	54 24.85
WTV	22.89	99	P	50 57.67				epPd	52 45.97	35km		47.21	275	P	54 25.80
ASR	22.97	104	P	50 58.82				iPcP	55 13.00			47.57	73	P	54 28.10
SAW	23.19	98	P	51 00.72	PEC	34.28	116	eP	52 39.68	-0.2	WLVO	47.77	71	P	54 29.73
MBC	23.24	21	ePd	51 00.30				e	55 23.70		GAC	48.04	68	eP	54 31.50
				5.4mb						5.0mb	CHJJ	48.08	274	P	54 32.80
WAH2	23.68	100	P	51 05.73				epP	52 49.58	34km		48.15	275	iPd	54 32.80
VBEM	23.68	106	P	51 06.20	ULM	34.55	75	ePd	52 44.00	2.0	MAT	0.7s	19.18nm		5.2mb
DPW	23.74	97	eP	51 05.12	PLM	34.86	116	eP	52 44.95	-0.1				eS	01 32.00
VGB	23.81	104	eP	51 06.79				ipPd	52 55.48	37km					
			pP	51 17.09	PV09	34.91	102	eP	52 45.38	-0.2	MTMJ	48.34	275	P	54 34.70
CROR	24.05	105	P	51 09.33				ePcP	55 16.53			49.10	274	P	54 40.80
NEW	24.11	95	ePd	51 08.97	PV10	35.05	102	ePd	52 46.86	0.2	RSNY	49.32	68	eP	54 40.07
				5.1mb				ePcP	55 17.44			0.8s	17.46nm		5.1mb
				34km				e	55 28.60			Z	19s	0.29um	4.3Msz
JBO	24.35	103	P	51 11.67				iPd	52 47.17	-0.2	CIT	49.72	306	eP	54 46.00
VIPM	24.57	106	P	51 14.33	PV08	35.12	101	iPd	52 47.17	-0.2		49.75	291	Pd	54 44.80
LNOR	24.92	101	P	51 17.13				epP	52 56.96	33km	CN2	1.0s	80.00nm		5.7mb
LGPM	25.99	114	eP	51 27.49				ePcP	55 17.70						4.4Msz
WDC	26.39	114	P	51 40.00	HON	35.60	185	P	53 00.00	8.9X		Z	20s	0.43um	54 54.00
				10.2X										epP	55 02.00
PET	26.69	282	eP	51 32.00	GOL	36.08	97	ePc	52 55.97	0.5				eS	01 50.00
				-0.4						5.3mb	TSRJ	50.11	276	P	54 47.20
				4.1Msz						4.3Msz					-1.3

22d 12h

GBTN	50.58	B3	eP	54	50.42	-1.7	N	21s	1.60um		TNS	72.34	11	iPd	57	19.10	0.3			
CBM	50.83	62	eP	54	51.40	-2.5	SSE	61.49	284	Pc	56	10.00	-0.4	KSP	72.38	6	iPd	57	18.60	-0.3
	1.0s	62.10nm			5.5mb			0.8s	12.00nm			0.8s	40.00nm			5.5mb				
Z	19s	0.45um			4.5Msz		NB2	61.89	8	P	56	11.90	-1.0	FRU	72.38	324	iPd	57	20.00	0.9
		epP		55	01.97	36km		0.8s	31.40nm			5.5mb			2.0s	180.00nm		5.7mb		
BNH	50.95	66	eP	54	52.59	-2.2	NJ2	61.98	286	Pc	56	13.00	-0.7	Z	16s	0.60um		5.0MszX		
MYNC	51.07	84	ePd	54	54.14	-1.7		1.2s	27.00nm			5.3mb			i		57	33.50		
	0.8s	56.19nm			5.6mb		NAO	62.08	8	P	56	11.52	-2.5	FLN	72.55	18	iPd	57	19.60	-0.4
Z	18s	0.81um			4.8Msz		NUR	62.95	0	iP	56	19.20	-0.5		0.6s	23.25nm		5.3mb		
		epP		55	03.91	33km		0.7s	6.00nm			4.8mb		Z	21s	0.22um		4.4Msz		
NAV	51.22	79	iPd	54	55.47	-1.5	HFS	62.96	7	eP	56	18.10	-1.7	HOF	72.59	9	iPd	57	20.30	0.1
		epPc		55	05.55	34km		0.4s	26.30nm			5.7mb			0.7s	23.00nm		5.3mb		
WKYJ	51.30	275	P	54	57.80	0.1	Z	20s	0.07um			3.8Msz		WLF	72.63	13	P	57	21.00	0.6
BLA	51.50	79	ePd	54	57.56	-1.6			LR	19	54.00				e		57	31.00		
	0.6s	24.70nm			5.4mb		KONO	63.14	9	eP	56	21.00	0.0	LDF	72.78	17	iPd	57	20.80	-0.5
		pP		55	07.88	35km	SVE	63.15	339	iPd	56	20.00	-1.2		0.7s	17.75nm		5.2mb		
YONJ	51.74	277	P	55	00.30	-0.6		1.2s	120.00nm			5.9mb		GYA	72.78	292	iPd	57	21.40	-0.4
GPD	51.88	71	eP	54	59.88	-2.0	Z	20s	0.40um			4.6Msz			1.0s	38.00nm		5.3mb		
TBR	51.91	71	eP	55	00.64	-1.5	N	20s	0.30um					GRR	72.85	18	iPd	57	21.60	-0.1
SNY	52.12	290	iPd	55	03.50	-0.2	E	20s	0.30um						0.7s	23.25nm		5.3mb		
	1.2s	91.00nm			5.6mb		UPP	63.44	4	iP	56	21.90	-1.1	PRU	73.12	7	Pd	57	23.30	0.1
Z	20s	0.61um			4.6Msz		ARU	63.93	340	iPd	56	24.50	-1.8		1.0s	17.50nm		5.0mb		
		S		02	25.00			1.6s	160.00nm			5.9mb		GRF	73.15	10	iPd	57	24.10	0.6
PAL	52.17	71	eP	55	02.78	-1.3	XAN	65.51	295	iPd	56	35.60	-1.2		0.9s	57.00nm		5.6mb		
HRV	52.29	68	P	55	10.00	5.0X		1.0s	46.00nm			5.5mb		Z	22s	0.10um		4.1Msz		
		0.33um			4.4Msz		GTA	65.51	305	iPd	56	36.00	-0.9		e(pP)		57	36.70	43km	
TKSJ	52.33	276	P	55	05.30	0.0			S	05	20.00				e(sP)		57	42.80		
GOGA	52.68	85	eP	55	05.54	-2.4		1.2s	78.00nm			5.7mb		OJC	73.16	4	iP	57	23.10	-0.4
	0.8s	32.60nm			5.3mb		Z	20s	1.38um			5.2Msz			i		57	26.00		
EMM	52.71	63	iPd	55	05.92	-2.2		E	15s	0.49um				LPF	73.17	18	iPd	57	23.70	0.2
		epP		55	16.09	34km			pP	56	43.00	22kmX			0.7s	32.50nm		5.4mb		
PRM	52.77	83	iPd	55	06.69	-2.0			sP	56	46.50			LANF	73.50	12	P	57	25.77	0.3
		epP		55	16.77	33km			eS	05	18.50			WET	73.83	8	iPd	57	27.90	0.5
CEH	53.19	79	ePd	55	09.64	-2.1	WHN	65.52	289	Pd	56	36.00	-0.9		1.5s	58.00nm		5.3mb		
	0.5s	26.94nm			5.5mb				pP	56	48.50	43km	KHC	73.90	8	iPd	57	28.90	1.0	
Z	18s	0.28um			4.4Msz		EKA	65.77	17	Pc	56	38.00	-0.1		0.9s	22.90nm		5.2mb		
		epP		55	19.99	34km			0.8s	35.90nm		5.5mb		VRAC	73.92	6	eP	57	28.30	0.4
LMN	53.21	61	ePd	55	12.50	0.7	LZH	66.33	300	iPd	56	41.80	-0.5		0.6s	54.00nm		5.7mb		
		pP		55	23.00	35km		1.5s	51.00nm			5.4mb		CDF	74.00	12	P	57	28.58	0.1
JSC	53.23	82	iPd	55	10.05	-2.0	Z	20s	0.50um			4.7Msz		WLS	74.01	12	P	57	28.58	0.1
		epP		55	20.22	34km	E	15s	0.34um					VITF	74.03	13	P	57	28.75	0.2
LHS	53.32	82	iPd	55	10.67	-2.0			pP	56	52.50	35km		ECH	74.18	13	P	57	29.60	0.1
		epP		55	21.00	34km			sP	56	56.00			GEC2	74.19	8	ePd	57	29.70	0.1
AKU	53.42	21	iP	55	12.90	-0.1			ScS	06	29.00				0.7s	22.90nm		5.3mb		
	1.0s	24.00nm			5.1mb		DMU	66.48	20	eP	56	42.50	-0.2			e		57	36.10	
IRK	53.50	311	iPc	55	13.00	-0.8	WMO	66.91	316	iPd	56	46.00	0.3			e		57	39.10	
	1.0s	31.00nm			5.3mb			1.0s	35.00nm			5.4mb				e		57	42.60	
Z	16s	0.55um			4.7MszX		Z	18s	0.52um			4.8Msz				e		57	45.50	
		0.33um							pP	56	51.00	16kmX				e		57	50.10	
TRO	53.70	3	eP	55	14.50	-0.5			sP	56	56.00					e		57	53.70	
SHNJ	53.82	278	eP	55	15.80	-0.5	DCN	66.93	21	eP	56	45.00	-0.6	SPC	74.21	3	eP	57	30.10	0.3
SGS	54.45	82	eP	55	19.34	-1.7		0.8s	142.00nm			6.1mb		HAU	74.29	13	iPd	57	30.20	0.1
		epP		55	29.73	34km	DLF	67.12	20	eP	56	46.00	-0.8		0.7s	43.90nm		5.6mb		
KUMJ	55.18	277	eP	55	26.10	-0.2	ETA	67.75	20	eP	56	50.50	-0.2	Z	23s	0.13um		4.1MszX		
MOY	55.30	313	eP	55	27.10	0.1	ECB	67.96	21	eP	56	51.50	-0.5			12	P	57	30.37	0.3
ZAK	55.35	310	ePd	55	26.60	-0.7		0.8s	126.00nm			6.1mb		LIBD	74.29	12	P	57	30.37	0.3
	1.2s	18.00nm			5.0mb			0.7s	39.00nm			5.6mb		HYF	74.50	16	iPd	57	31.80	0.5
Z	16s	0.50um			4.7MszX		BSD	68.04	6	iP	56	52.70	0.2	BSF	74.51	13	iPd	57	31.50	0.0
		0.29um						0.7s	39.00nm			5.6mb			0.7s	23.60nm		5.3mb		
N	17s	0.48um					ECP	68.21	20	eP	56	53.00	-0.6	MOF	74.53	13	P	57	31.65	0.0
E	15s						HCG	68.58	19	eP	56	55.40	-0.5			12	P	57	31.90	-0.2
		e		56	28.00		HTR	68.88	18	eP	56	57.60	-0.1	LOR	74.68	15	iPd	57	32.40	0.0
PPM	55.83	109	(P)	55	31.00	-0.8	HAE	69.04	18	eP	56	58.90	0.2		0.9s	47.15nm		5.5mb		
III	55.97	110	(P)	55	30.00	-2.4	HGH	69.38	18	eP	57	00.70	-0.1	Z	22s	0.15um		4.2Msz		
SDF	56.01	360	iP	55	31.20	-0.7		1.3s	21.00nm			5.0mb		MFF	74.70	18	iPd	57	32.70	0.2
KAGJ	56.18	276	P	55	33.10	-0.4	MNK	69.56	359	eP	56	59.00	-2.8		0.6s	38.95nm		5.6mb		
IISM	56.55	107	(P)	55	35.00	-1.3	WIT	69.59	12	eP	57	03.50	1.4	SLE	74.77	12	ePd	57	32.80	-0.1
BJI	57.21	294	eP	55	40.00	-0.8	WTS	70.42	12	eP	57	07.00	-0.1	UZH	74.82	2	eP	57	34.20	1.1
	1.7s	82.00nm			5.5mb			0.7s	57.50nm			5.7mb			1.0s	56.00nm		5.5mb		
Z	20s	0.36um			4.5Msz		CD2	70.59	297	iPd	57	08.00	-0.6			i		57	45.50	
		epP		55	38.00	-12.1X		1.0s	100.00nm			5.8mb		SSF	74.83	15	iPd	57	33.40	0.2
OXH	58.47	108	(P)	55	52.00	-0.6	UCC	71.29	14	P	57	11.00	-1.4		0.8s	58.85nm		5.6mb		
		epP		55	52.00	-0.6	PRZ	71.44	321	iPc	57	14.50	0.8	BBS	74.96	12	P	57	33.93	-0.1
	1.0s	99.00nm			5.9mb			0.8s	70.00nm			5.7mb		KSH	74.97	322	P	57	35.00	0.7
Z	18s	0.73um			4.8Msz		ENN	71.52	13	eP	57	14.00	0.2		1.0s	30.00nm		5.2mb		
		0.17um						1.0s	59.00nm			5.6mb		Z	18s	0.73um		5.0Msz		
N	11s	0.16um							e		57	32.50				0.47um				
E	11s						SNF	71.56	14	iPd	57	14.00	0.0			PP		00	20.00	
		S		03	54.00		CLL	71.69	8	iPd	57	14.50	-0.3			S		07	08.00	
ELT	59.49	322	iPd	55	55.80	-0.7		1.1s	39.00nm			5.3mb				sS		07	19.00	
	1.2s	85.00nm			5.8mb		DOU	72.01	14	Pd	57	16.80	0.1			SKS		07	37.00	
Z	16s	1.00um			5.0MszX			1.0s	80.50nm			5.7mb				ScS		07	42.00	
		eS		04	03.00		GZH	72.06	285	Pc	57	18.00	0.6	LBF	74.97	15	iPd	57	33.9	

22d 13h

THZ	1.05	147	P	07	32.40	-1.3
			S	07	44.40	
KHZ	1.86	146	P	07	46.70	0.8
			S	08	08.00	
LTZ	1.90	177	P	07	46.70	0.0
			S	08	10.80	
MRW	1.97	101	P	07	47.60	0.1
WEL	2.02	102	eP	07	48.80	0.5
KIW	2.10	90	P	07	50.10	0.7
CAW	2.22	97	eP	07	51.70	0.4
MOW	2.41	104	eP	07	53.80	-0.1
WVZ	2.43	205	P	07	54.50	0.3
MNG	2.55	85	eP	07	55.90	0.0
MTW	2.55	97	eP	07	55.00	-1.0
EWZ	2.80	200	P	08	00.10	0.7
MOZ	3.13	42	eP	08	03.60	-0.5
ODZ	4.31	194	P	08	18.90	-1.9

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

? APR 22, 1993 13h 11m 26.83±1.57s
 6.568 N ±18.3km 124.769 E ±29.7km
 DEPTH = 274.1 ±18.2 km
 3.9mb (5 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

CTB	0.84	318	eP	12	43.00	37.8X
BIP	2.21	42	ePd	12	13.50	0.0
			eS	12	52.00	
PLP	4.57	3	ePd	12	55.50	16.6X
WRA	27.98	161	P	16	47.20	-7.5X
	0.8s		0.60nm			3.2mb
WB2	27.98	160	eP	16	53.70	-1.1
ASPA	31.35	164	eP	17	23.60	-0.6
	0.5s		3.10nm			4.1mb
WARB	32.61	177	eP	17	38.00	2.9X
	0.3s		3.00nm			4.4mb
STK	41.47	158	eP	18	50.40	1.6
	0.7s		2.10nm			3.6mb
PKI	42.76	304	P	19	00.00	0.2
BRS	43.29	142	iPd	19	04.00	0.3
MBC	89.62	12	eP	24	27.00	32.7X
YKA	97.72	24	eP	24	31.20	-0.3
	0.8s		0.50nm			3.9mb

S.D. = 1.2 on 7 of 12 obs.

% APR 22, 1993 13h 34m 07.67±0.72s
 43.058 N ±6.7km 0.369 W ±5.4km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)
ML 1.0 (STR).

JAU	0.02	181	Pg	34	09.68	-0.1
BTH	0.14	61	i(Pg)d	34	11.00	0.1
			iSg	34	13.90	
OGE	0.13	325	Pg	34	10.58	-0.3
			Sg	34	12.53	
ESCF	0.15	278	Pg	34	11.01	-0.2
			Sg	34	13.37	
LHE	0.24	232	Pg	34	12.90	0.1
			Sg	34	16.45	
ATE	0.24	277	Pg	34	12.96	0.1
			Sg	34	16.20	
ISSF	0.31	265	Pg	34	13.83	-0.4
			Sg	34	19.12	
MADF	0.34	285	Pg	34	15.45	0.7
			Sg	34	20.03	

S.D. = 0.4 on 8 of 8 obs.

APR 22, 1993 13h 58m 13.48±0.38s
 49.126 N ±3.4km 6.889 E ±3.8km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
ML 2.9 (STR).

RUP	0.59	11	ePg	58	24.30	-1.1
LANF	0.62	103	Pg	58	25.66	-0.3
WLF	0.72	319	iPd	58	28.00	0.3
HOFF	0.73	104	Pg	58	28.13	0.3
CDF	0.76	160	Pg	58	27.97	-0.4
			Sg	58	39.68	
WLS	0.78	157	Pg	58	27.97	-0.7
			Sg	58	39.62	
KTD	0.81	76	ePg	58	29.38	0.2
ABH	0.87	29	ePg	58	26.74	-3.5X
ECH	0.93	169	Pg	58	31.29	0.1
VITF	1.09	214	Pg	58	34.00	0.0
			Sg	58	48.47	

MOF	1.29	173	Pg	58	38.08	0.7
			Sg	58	56.21	
TOD	1.34	68	ePg	58	38.49	0.3
FEL	1.46	149	ePg	58	40.81	0.9
TNS	1.50	42	ePnc	58	41.50	1.1
			eSn	59	00.70	
			eSg	59	03.60	
ENN	1.76	340	eP	58	45.50	1.4
	0.5s		17.20nm			
			eS	59	08.00	
LOMF	1.78	181	Pg	58	47.36	2.8X
DOU	1.78	304	Pn	58	43.70	-0.8
			iPb	58	46.60	
SNF	2.18	310	P	58	49.80	-0.5
KHC	4.39	87	Pn	59	20.90	-0.8
			e	59	36.00	
			eSn	00	11.00	
			eSg	00	32.50	
GEC2	4.50	91	Pn	59	22.70	-0.5
			Sg	00	20.60	

S.D. = 0.8 on 18 of 20 obs.

% APR 22, 1993 14h 07m 00.16±0.65s
 43.318 N ±5.9km 12.502 E ±6.9km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS	0.27	155	Pc	07	05.80	-0.1
			eSg	07	10.40	
ARV	0.37	60	Pc	07	07.70	0.0
			eSg	07	14.20	
CRE	0.51	308	P	07	10.10	-0.4
			eSg	07	18.00	
SFI	0.77	322	P	07	15.40	0.3
			eSg	07	26.90	
PGD	0.80	315	P	07	15.80	0.1
			eSg	07	28.00	
MNS	0.94	172	P	07	18.30	0.2
			eSg	07	32.90	

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

& APR 22, 1993 14h 42m 07.72s
 32.400 N 115.111 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 2.9 (PAS).

GLA	0.69	20	ePc	42	19.96	-1.7
PLM	1.75	303	eP	42	39.23	0.2
TUC	3.66	90	(P)	43	10.47	4.3
			S	44	00.24	

3 obs. associated

& APR 22, 1993 14h 46m 04.80s
 32.389 N 115.100 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 3.2 (PAS).

PLM	1.77	303	eP	46	36.00	-0.3
PEC	2.29	311	(P)	46	46.23	2.5
SSK	2.83	311	(P)	46	53.97	2.4
GSC	3.23	334	(P)	47	02.63	5.5
TUC	3.65	90	(P)	47	02.32	-0.8
			S	47	59.53	

5 obs. associated

APR 22, 1993 14h 56m 37.07±0.50s
 42.533 N ±5.1km 21.965 E ±4.7km
 DEPTH = 8.7 ±2.7 km
 NORTHWESTERN BALKAN REGION (383)
 ML 3.4 (THE), 2.9 (TTG).

SKO	0.68	215	iPg	56	49.50	-1.2
	0.1s		229.00nm			
			i	56	58.50	
			iSg	57	00.80	
			Lg	57	01.70	
PVY	1.47	273	iPg	57	03.97	0.0
			iSg	57	24.29	
KNT	1.54	153	ePb	57	05.04	0.3
			iSb	57	25.32	
IVA	1.56	283	iPg	57	04.79	-0.3
			iSg	57	25.91	
GRG	1.61	168	ePb	57	05.80	0.0
FNA	1.80	194	ePb	57	08.60	0.0
			iSb	57	30.24	

SRS	1.87	139	ePb	57	10.08	0.6
			eSb	57	34.20	
SOH	2.00	148	ePn	57	12.24	0.8
TTG	2.00	268	iPnc	57	11.12	-0.3
			iSn	57	39.40	
PLE	2.05	294	iPnc	57	11.55	-0.7
			iSn	57	37.61	
ULC	2.10	255	iPnd	57	14.75	1.9X
			iSn	57	43.14	
NKY	2.21	278	iPnd	57	14.67	0.1
			iSn	57	43.10	
BDV	2.34	265	iPnd	57	17.39	1.1
			iSn	57	47.69	
BRY	2.55	279	iPnc	57	19.44	0.0
			iSn	57	51.10	
HCY	2.57	269	iPnd	57	20.10	0.6
			iSn	57	52.72	
OUR	2.67	145	ePn	57	20.52	-0.5
DRA	2.71	37	ePc	58	03.00	41.3X
PAIG	2.91	153	ePn	57	23.60	-0.8
GZR	2.92	11	ePd	57	24.00	-0.6
BZS	3.09	355	iPc	57	24.00	-2.9X
CMP	3.52	38	ePc	58	10.00	36.9X
MLR	4.12	43	eP	58	11.00	29.3X
VBY	5.68	304	eP	58	04.10	0.5

S.D. = 0.7 on 18 of 23 obs.

& APR 22, 1993 15h 22m 03.52s
 62.542 N 150.001 W
 DEPTH = 16.6km
 2.6mb (1 obs.)
 CENTRAL ALASKA (1)
 <AEIC>. ML 3.0 (AEIC), 3.2 (PMR).

CUT	0.19	222	eP	22	08.19	0.0
			eS	22	11.53	
HUR	0.47	21	iP	22	12.83	-0.1
			eS	22	19.11	
PWA	0.90	176	eP	22	20.20	0.0
SKT	0.91	232	eP	22	20.47	0.0
			S	22	33.86	
TRF	0.92	352	eP	22	21.09	0.3
RND	1.01	31	eP	22	22.15	-0.1
			iS	22	36.01	
PMR	1.04	156	ePc	22	22.10	-0.5
			S	22	34.86	
SML	1.07	133	eP	22	23.05	-0.3
			eS	22	37.63	
SUA	1.14	198	iP	22	24.62	0.2
MCK	1.29	22	eP	22	27.31	0.5
PMS	1.32	171	eP	22	26.90	-0.3
SCM	1.44	118	eP	22	29.04	0.1
CRP	1.64	220	eP	22	34.43	2.6
			eS	22	55.68	
CPAM	1.64	219	eP	22	33.90	2.0

22d 15h

GLM 2.72 24 eP 22 46.63 -0.6
 HIN 2.73 140 eP 22 49.10 1.7
 TTA 2.79 281 eP 22 49.08 0.7
 S 23 32.20
 CVA 2.86 133 eP 22 50.06 0.9
 INE 2.89 212 eP 22 50.43 0.6
 INW 2.91 213 eP 22 50.19 0.2
 CNPM 3.09 192 eP 22 53.25 0.8
 GLB 3.12 108 eP 22 54.43 1.4
 RAGM 3.35 128 eP 22 56.47 0.3
 IMA 3.89 337 eP 23 03.40 -0.5
 YKA 16.22 74 eP 26 00.10 8.3
 0.6s 0.30nm 2.6mb
 49 obs. associated

& APR 22, 1993 15h 40m 30.51s
 32.392 N 115.102 W
 DEPTH = 6.0km (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION(45)
 <PAS-P>. ML 3.3 (PAS).

PLM 1.76 303 eP 41 01.54 -0.4
 PEC 2.28 311 (P) 41 10.71 1.3
 SSK 2.83 311 (P) 41 18.45 1.2
 GSC 3.23 334 (P) 41 24.50 1.7
 TUC 3.66 90 (P) 41 28.98 0.1
 S 42 23.48
 5 obs. associated

APR 22, 1993 16h 08m 07.69±0.44s
 24.261 S ± 5.0km 67.303 W ± 7.4km
 DEPTH = 174.4 ± 4.7 km
 4.7mb (11 obs.)

CHILE-ARGENTINA BORDER REGION (127)

SLA 1.71 106 iPd 08 42.50 0.7
 S 09 07.60
 HJA 2.03 59 iPd 08 46.00 1.0
 FSA 2.16 147 iPd 08 47.50 1.0
 S 09 16.00
 YJA 2.66 39 iPd 08 52.90 0.0
 S 09 27.50
 ANT 2.90 280 iP+ 08 56.70 1.4
 S 09 32.50
 CYA 4.38 162 ePd 09 14.30 0.1
 S 10 04.80
 CCH 6.93 9 P 09 46.00 -2.1
 CFA 7.36 186 e(P) 09 52.00 -1.6
 CNCB 7.44 355 iPc 09 55.60 0.5
 S 11 19.00
 TCA 7.45 162 iPd 09 53.00 -1.7
 LPB 7.73 354 P 09 59.00 0.2
 S 11 22.00
 ZOBO 7.99 354 iPc 10 01.80 -0.6
 S 11 32.00
 MRA 8.24 171 ePd 10 02.00 -3.1X
 ARE 8.70 332 eP 10 10.00 -1.5
 S 11 44.00
 SIV 10.09 37 P 10 39.20 9.7X
 PPD 14.88 85 eP 11 30.90 0.2
 VAO 18.68 90 ePd 12 11.60 -3.5X
 S 12 13.10
 BAO 20.06 68 iPc 12 26.20 -3.2X
 S 12 27.10
 MIAR 63.58 336 eP 18 21.08 -0.7
 S 0.5s 3.96nm 4.6mb
 LTX 63.73 325 eP 18 21.85 -1.1
 ALO 69.61 326 eP 19 00.94 0.9
 S 0.9s 8.14nm 4.5mb
 TUC 69.91 322 eP 19 02.65 0.9
 S 1.0s 5.14nm 4.3mb
 RSSD 75.91 334 eP 19 37.49 0.7
 S 0.7s 3.46nm 4.2mb
 FRS 80.48 118 iPc 20 01.70 0.0
 S 0.8s 13.00nm 4.7mb
 BLF 81.42 118 iPd 20 06.50 -0.4
 S 0.8s 26.00nm 5.0mb
 SEK 82.89 118 iPd 20 14.70 0.2
 S 0.7s 27.00nm 5.1mb
 PRY 83.33 116 eP 20 13.00 -3.7X
 S 0.8s 20.00nm 4.9mb
 SLR 84.47 116 iPd 20 21.60 -0.8
 S 1.0s 50.00nm 5.3mb
 DPW 85.10 328 eP 20 26.03 1.2
 BUL 87.05 111 iPd 20 34.70 -0.5
 S 1.0s 11.00nm 4.7mb
 LSZ 88.70 106 iPd 20 44.20 1.1

YKA 94.27 340 eP 21 07.00 -0.6
 0.6s 1.60nm 4.4mb
 WB2 131.26 208 ePKP 27 01.40 0.2
 S 0.2s 3.00nm
 WRA 131.27 207 PKP 27 02.70 1.5
 S 0.6s 0.90nm
 GBA 145.10 101 PKP 27 26.00 -0.4
 HYB 147.43 95 ePKP 27 36.00 5.7X
 MAT 154.90 305 ePKP 27 59.00 18.3X
 S.D. = 1.0 on 30 of 37 obs.

* APR 22, 1993 16h 25m 27.03±1.15s
 53.000 N ± 11.7km 170.236 W ± 8.2km
 DEPTH = 104.5 ± 9.8 km
 4.3mb (10 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.10 257 eP 26 29.18 0.6
 S 27 16.01
 SDN 6.18 64 eP 26 55.82 -1.4
 MCNL 10.81 49 eP 28 00.00 0.0
 MCNL 10.81 49 eP 27 59.81 -0.2
 KDC 11.15 58 eP 28 00.55 -3.8X
 SYI 11.49 54 iP 28 05.56 -3.3X
 INW 11.78 46 eP 28 13.10 0.3
 NCT 12.11 44 eP 28 16.77 -0.4
 RDW 12.12 45 eP 28 15.51 -1.9
 RS1 12.13 45 eP 28 14.78 -2.8X
 RS2 12.13 45 eP 28 16.71 -0.9
 RSO 12.14 45 eP 28 16.19 -1.4
 DFR 12.23 45 eP 28 19.08 0.3
 CNPM 12.39 51 iP 28 18.70 -2.1X
 TTA 12.46 31 eP 28 23.37 1.7
 S 0.8s 6.44nm 4.3mb
 CKL 12.69 43 eP 28 25.77 1.0
 CKT 12.75 43 eP 28 24.70 -0.8
 CP2 12.77 42 eP 28 25.01 -0.9
 SPU 12.80 43 eP 28 25.56 -0.6
 CPAM 12.80 43 eP 28 27.19 0.9
 NKA 12.93 46 eP 28 29.88 2.2
 SLKM 13.27 48 eP 28 30.15 -2.0X
 SKT 13.44 41 eP 28 35.35 0.9
 SUA 13.49 43 eP 28 35.14 0.0
 MPA 13.64 48 iP 28 34.06 -3.0X
 PTE 13.95 47 eP 28 38.44 -2.6X
 SML 14.67 44 iP 28 48.60 -1.6X
 HIN 14.93 51 iP 28 50.30 -3.2X
 VLZ 15.26 48 eP 28 55.10 -2.6X
 CVA 15.33 51 iP 28 55.59 -2.9X
 KLU 15.58 47 iP 28 58.91 -2.9X
 RAGM 15.79 52 eP 29 02.67 -1.7X
 TZL 16.01 46 eP 29 08.01 0.9
 SDG 16.16 44 eP 29 08.48 -0.5
 GLB 16.51 49 eP 29 10.65 -2.7X
 INK 23.12 34 eP 30 24.00 0.1
 S 0.5s 2.00nm 3.7mb
 MBC 30.14 22 eP 31 30.00 1.7
 YKA 30.23 50 eP 31 30.00 0.7
 S 0.4s 0.60nm 3.7mb
 NEW 33.37 76 eP 31 57.01 0.1
 S 0.8s 13.62nm 4.8mb
 MCMT 37.77 79 iPd 32 33.90 0.3
 BW06 40.80 79 iPc 32 59.79 0.3
 S 0.6s 3.88nm 4.4mb
 SRU 42.47 84 eP 33 13.73 0.6
 PV09 43.69 84 eP 33 23.29 0.1
 GOL 45.18 80 eP 33 35.34 0.3
 S 0.6s 6.91nm 4.6mb
 LTX 53.26 89 eP 34 35.32 -1.6
 LMN 62.78 49 eP 35 45.00 1.9
 KAF 64.49 351 iP 35 52.80 -1.2
 S 0.3s 1.30nm 4.3mb
 NB2 66.30 359 P 36 04.10 -1.5
 S 0.5s 1.00nm 4.0mb
 HFS 67.17 358 eP 36 09.40 -1.7
 S 0.4s 4.50nm 4.8mb
 GEC2 78.48 357 ePc 37 17.70 0.2
 S 0.6s 0.69nm 3.7mb
 S.D. = 1.1 on 36 of 50 obs.

* APR 22, 1993 16h 34m 00.25±3.16s
 19.909 S ± 17.3km 177.680 W ± 12.6km
 DEPTH = 586.4 ± 43.7 km
 4.6mb (13 obs.)

FIJI ISLANDS REGION (181)

DZM 14.98 259 iPc 37 08.10 -0.4

KUZ 17.74 198 P 37 37.10 2.3X
 WLZ 18.83 197 P 37 46.90 1.9
 URZ 18.84 193 P 37 44.90 -0.2
 S 0.3s 36.00nm 5.4mb
 NOZ 19.01 190 P 37 48.20 1.5
 ORZ 22.47 200 eP 38 18.40 0.2
 THZ 23.21 198 eP 38 24.20 -0.7
 DSZ 23.53 200 P 38 27.40 -0.4
 KHZ 23.64 196 eP 38 27.30 -1.4
 LTZ 24.33 198 P 38 32.90 -2.0
 WVZ 25.07 200 eP 38 40.80 -0.5
 LSCZ 27.33 200 eP 38 59.50 -1.7
 BRS 28.02 249 eP 39 18.00 10.7X
 ARMA 29.60 243 iPc 39 21.80 0.8
 S 0.4s 7.00nm 4.6mb

RMO 31.48 252 eP 39 37.20 0.5
 CNB 32.81 235 iPd 39 49.30 1.4
 CAN 33.09 235 iPc 39 51.00 0.7
 CMS 34.69 243 eP 40 00.00 -3.6X
 S 0.7s 14.00nm 4.7mb

QLP 35.52 252 iPc 40 10.50 0.0
 TOO 36.49 233 iPc 40 19.40 1.1
 S 0.9s 44.00nm 5.1mb
 STK 38.32 244 eP 40 34.00 0.7
 S 0.6s 5.20nm 4.3mb
 BFD 38.62 235 eP 40 36.50 0.8
 ASPA 44.95 256 iPd 41 25.60 -0.3
 S 0.8s 35.60nm 4.9mb

WB2 44.97 261 iPc 41 25.00 -1.1
 S 0.2s 40.40nm 5.6mb
 WRA 44.98 261 P 41 25.60 -0.5
 S 0.4s 3.20nm 4.2mb

WARB 51.30 252 eP 42 12.70 -0.6
 S 0.4s 3.00nm 4.1mb

ADK 71.49 1 eP 44 21.89 -1.7
 S 1.4s 83.81nm 5.1mb
 ALO 86.80 51 eP 45 45.77 1.2
 S 0.8s 1.45nm 3.8mb

FBA 87.60 12 eP 45 46.64 -0.7
 S 0.7s 6.11nm 4.5mb
 LCCM 88.42 40 eP 45 53.40 1.6
 YKA 95.85 25 eP 46 25.00 -0.1
 S 0.8s 0.40nm 3.7mb

CLL 147.55 347 iPKP 52 40.90 4.3X
 GEC2 149.71 345 ePKPc 52 46.80 6.6X
 S 1.2s 3.64nm 5.2mb

FLN 151.13 4 ePKP 52 49.80 7.7X
 S 0.5s 4.65nm 5.2mb
 LDF 151.32 3 ePKP 52 50.10 7.7X
 S 0.4s 1.45nm 3.8mb

GRR 151.47 4 ePKP 52 50.70 8.0X
 S 0.4s 3.00nm 3.7mb
 LPF 151.81 5 ePKP 52 51.50 8.4X
 S 0.5s 5.25nm 5.2mb
 S.D. = 1.1 on 28 of 37 obs.

? APR 22, 1993 16h 46m 55.71±6.05s

41.805 N ± 42.9km 19.580 E ± 14.0km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.0 (TTG).

ULC 0.29 303 iPgD 47 01.74 -0.1
 S 0.5s 3.96nm 4.6mb
 TTG 0.67 339 iPgD 47 08.68 -0.3
 S 0.9s 8.14nm 4.5mb

BDV 0.74 311 iPgD 47 09.73 -0.4
 S 1.0s 5.14nm 4.3mb
 PVY 0.84 20 iPgC 47 11.43 -0.6
 S 0.7s 3.46nm 4.2mb

HCV 1.03 309 iPgC 47 15.14 0.0
 S 0.8s 13.00nm 4.7mb
 IVA 1.09 12 iPgC 47 16.22 -0.1
 S 0.9s 11.00nm 4.7mb

NKY 1.10 337 iPgD 47 16.55 0.2
 S 1.0s 11.00nm 4.7mb
 BRY 1.34 325 iPgD 47 20.72 0.3
 S 1.0s 11.00nm 4.7mb
 PLE 1.53 355 iPnc 47 24.22 1.0
 S 1.0s 11.00nm 4.7mb
 S.D. = 0.6 on 9 of 9 obs.

? APR 22, 1993 17h 14m 34.27±5.08s
 24.048 S ± 34.0km 177.257 W ± 36.0km
 DEPTH = 266.1 ± 38.2 km

22d 17h

4.6mb (8 obs.)
SOUTH OF FIJI ISLANDS (171)

VUN	7.22	326	ePd	16	18.40	-0.1
BKM	14.96	292	iPc	17	59.00	4.2X
DZM	15.13	274	iPc	17	56.90	0.0
BRS	27.17	257	iPc	19	57.00	1.5
ARMA	28.33	250	iPd	20	06.60	0.7
	0.7s	17.00nm			4.8mb	
RMQ	30.78	258	iPc	20	28.40	1.0
	0.9s	33.00nm			4.9mb	
CMS	33.38	249	eP	20	49.70	0.0
	0.5s	8.00nm			4.6mb	
CTA	33.98	269	iPd	20	54.20	-0.8
	0.5s	12.32nm			4.8mb	
TOO	34.49	238	eP	20	58.30	-0.8
QLP	34.82	258	eP	21	02.40	0.5
STK	37.00	248	eP	21	20.20	0.0
	0.6s	3.70nm			4.1mb	
WB2	44.88	265	iPd	22	24.20	-0.3
	0.4s	21.30nm			4.8mb	
				23	08.30	
					27	29.10
WRA	44.90	265	P	22	24.60	0.0
	0.5s	4.70nm			4.1mb	
WARB	50.51	255	eP	23	06.00	-1.8
	0.4s	4.00nm			4.2mb	
BAL	58.30	248	eP	24	03.50	-0.3
MRWA	59.18	249	eP	24	10.00	0.1
NB2	142.57	353	PKP	33	36.80	0.2X
	0.8s	1.90nm				
HFS	143.13	351	ePKP	33	38.00	0.5
	0.4s	2.40nm				
GVMR	150.13	294	iPKPd	34	00.20	10.5X
ZNT	150.47	293	ePKP	34	01.10	10.9X
MBH	150.84	288	iPKPd	34	01.80	10.9X
KSP	151.26	342	iPKPc	34	02.20	11.4X
SPC	151.38	336	ePKP	34	07.30	16.0X
CLL	151.66	346	iPKPc	34	02.40	11.0X
	0.9s	17.00nm				
BRG	151.85	345	iPKP	34	03.40	11.7X
	0.9s	10.00nm				
KHC	153.55	344	ePKP	34	07.50	13.3X
				34	21.50	
GEC2	153.78	343	ePKP	33	59.20	4.6X
	1.0s	0.99nm				
				34	07.40	
				34	11.50	
				34	15.40	
				34	22.70	
				34	24.60	

S.D. = 0.9 on 16 of 27 obs.

APR 22, 1993 17h 20m 18.84±0.62s
33.154 S ± 4.5km 70.306 W ± 5.0km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.7 (SAN).

FCH	0.17	176	iP	20	22.67	-0.3
			iS	20	25.47	
PEL	0.32	272	iP	20	25.74	0.3
			iS	20	32.55	
PCH	0.50	200	iP	20	28.96	0.0
			iS	20	36.71	
JACH	0.53	333	iP	20	29.16	-0.4
			iS	20	38.29	
TACH	0.73	227	iP	20	33.23	0.1
			iS	20	43.56	
CHCH	0.83	200	iP	20	34.77	-0.1
			iS	20	46.53	
LCCH	1.11	253	iP	20	39.88	0.3
			iS	20	55.32	
LVN	1.22	229	iP	20	41.36	-0.2
			iS	20	57.93	
MDZ	1.25	78	e(P)	20	42.50	0.3

S.D. = 0.3 on 9 of 9 obs.

% APR 22, 1993 17h 20m 32.98±1.30s
41.832 N ± 11.1km 19.541 E ± 5.1km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.4 (TTG).

ULC	0.25	301	iPgc	20	38.41	0.0
			iSg	20	45.32	
TTG	0.63	341	iPgc	20	45.61	-0.1

BDV	0.70	311	iSg	20	58.54	
			iPgd	20	46.42	-0.3
			iSg	20	59.73	
PVY	0.83	23	iPgc	20	48.52	-0.6
			iSg	21	03.54	
HCY	0.99	309	iPgd	20	51.61	-0.1
			iSg	21	09.04	
NKY	1.06	338	iPgc	20	53.34	0.3
			iSg	21	12.27	
IVA	1.07	14	iPgc	20	53.37	0.1
			iSg	21	12.12	
BRY	1.30	326	iPgc	20	57.37	0.3
			iSg	21	18.71	
SKO	1.42	84	ePn	20	59.00	0.1
			iSg	21	20.50	
PLE	1.50	356	iPnc	21	00.31	0.3
			iSn	21	23.63	

S.D. = 0.3 on 10 of 10 obs.

APR 22, 1993 17h 22m 57.89±0.57s
38.359 N ± 6.2km 0.278 E ± 4.6km
DEPTH = 27.9 ± 5.3 km
SPAIN (377)
ML 3.5 (LDG). mLg 3.3 (MDD).

ACU	0.56	286	ePg	23	09.90	0.7
			eSg	23	17.80	
EALH	1.43	250	ePn	23	23.20	1.0
			eSn	23	40.00	
ECHE	1.57	322	ePn	23	25.30	1.1
			eSn	23	44.90	
EVIA	2.20	278	ePn	23	33.40	0.0
			eSn	24	00.20	
EHUE	2.33	257	ePn	23	36.00	0.8
			eSn	24	02.00	
EROQ	2.46	2	ePn	23	37.30	0.3
			eSn	24	05.20	
ESEL	2.48	55	ePn	23	37.20	0.0
			eSn	24	05.00	
ETOR	3.05	324	ePn	23	46.00	0.6
			eSn	24	20.40	
EBAN	3.20	268	ePn	23	46.90	-0.7
			eSn	24	24.00	
ECOG	3.23	252	ePn	23	48.00	0.0
			eSn	24	23.90	
EGUA	3.41	245	ePn	23	50.00	-0.5
			eSn	24	28.50	
PAB	3.80	290	ePn	23	55.00	-1.0
			ePb	24	04.00	
			ePg	24	19.00	
			iSg	25	10.00	
EGRA	3.86	353	ePn	23	56.30	-0.4
			eSn	24	38.10	
GUD	4.12	305	ePn	24	01.00	0.4
			eSn	24	46.00	
EPF	4.67	1	Pn	24	09.90	1.6
			Sn	25	00.60	
ECRI	4.75	334	ePn	24	08.90	-0.6
			eSn	25	00.50	
LPO	6.36	6	Pn	24	31.90	-0.2
			Sn	25	39.90	
LFF	6.58	3	Pn	24	35.30	0.0
			Sn	25	47.40	
CAF	6.70	11	Pn	24	36.70	-0.2
			Sn	25	48.20	
LMR	6.86	42	Pn	24	38.80	-0.3
			Sn	25	50.80	
LRG	6.86	40	Pn	24	40.10	0.9
RJF	7.00	7	Pn	24	41.00	-0.2
SBF	7.71	42	Pn	24	51.50	0.4
			Sn	25	12.10	
PGF	7.86	55	Pn	24	52.80	-0.5
			Sn	26	13.80	
MAF	8.04	11	Pn	24	54.00	-1.7
TCF	8.05	10	Pn	24	55.60	-0.3
MFF	8.24	358	Pn	24	58.20	-0.3
BGF	8.41	12	Pn	25	00.10	-0.7
SMF	8.69	16	Pn	25	05.50	0.8
AVF	8.73	14	Pn	25	05.00	-0.2
GRR	10.06	356	Pn	25	23.90	0.4
LDF	10.23	359	Pn	25	26.50	0.6

S.D. = 0.7 on 32 of 32 obs.

APR 22, 1993 17h 43m 17.14±1.01s
41.748 N ± 9.4km 19.465 E ± 7.7km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)

ML 2.6 (TTG).

ULC	0.27	323	iPgc	43	23.04	0.2
			iSg	43	29.28	
TTG	0.70	347	iPgd	43	30.59	-0.3
			iSg	43	43.13	
BDV	0.72	319	iPgc	43	31.03	-0.2
			iSg	43	43.98	
PVY	0.93	24	iPgd	43	33.95	-1.0
			iSg	43	48.60	
HCY	1.00	314	iPgd	43	36.35	0.2
			iSg	43	53.49	
NKY	1.12	342	iPgd	43	37.85	-0.3
			iSg	43	57.23	
IVA	1.17	16	iPgd	43	38.65	-0.4
			iSg	43	57.27	
OHR	1.19	122	iPn	43	37.80	-1.5
	0.6s	41.00nm				
			iSn	43	57.50	
			Lg	44	04.30	
BRY	1.34	330	iPgc	43	41.83	-0.1
			iSg	44	04.50	
SKO	1.49	81	iPn	43	44.80	0.8
	0.7s	84.00nm				
			i	44	04.40	
			iSg	44	05.60	
			Lg	44	09.40	
PLE	1.58	358	iPnc	43	46.54	1.2
			iSn	44	11.08	
VAY	2.37	99	ePn	43	58.00	1.3

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

APR 22, 1993 18h 03m 40.79±0.22s
16.323 S ± 5.1km 167.443 E ± 6.5km
DEPTH = 33.0km (normol)
5.0mb (22 obs.)

VANUATU ISLANDS						(186)
BKM	1.54	150	iPd	04	05.00	-1.3
PVC	1.64	150	iPd	04	06.70	-0.9
			iS	04	26.90	
DZM	5.79	189	iPd	05	04.00	-2.8X
			iS	06	09.60	
HNR	10.01	312	eP	06	05.00	-0.5
BRS	17.49	229	iP	07	45.00	1.1
RMQ	20.10	237	iPd	08	15.30	0.6
	1.0s	83.00nm			5.0mb	
ARMA	20.15	223	eP	08	15.40	0.1
	0.9s	43.00nm			4.8mb	
QLP	23.85	241	iPc	08	53.00	0.9
CMS	24.80	229	iPc	09	02.00	0.8
	1.0s	92.00nm			5.3mb	
BWA	24.83	220	iPc	09	00.90	-0.7
CNB	24.87	217	iPc	09	03.30	1.3
	0.8s	44.00nm			5.1mb	
CAN	25.09	218	iPc	09	04.60	0.6
STK	28.12	232	iPd	09	31.80	-0.1
	0.7s	13.20nm			4.7mb	
			i	12	44.90	
TOO	28.69	218	eP	09	36.70	-0.3
	0.6s	11.00nm			4.7mb	
BFD	30.26	222	iPc	09	50.90	-0.1
	0.7s	13.00nm			4.8mb	
WRA	31.63	258	P	10	01.80	-1.5
	0.7s	2.10nm			4.1mb	
ASPA	32.30	251	iPd	10	07.80	-1.3
	0.9s	43.80nm			5.4mb	
Z	19s	0.70um			4.4msz	
WARB	39.13	248	iPc	11	07.20	0.0
	0.4s	4.00nm			4.5mb	
COOL	44.52	242	eP	11	50.50	-0.8
MEEK	46.34	249	iPc	12	05.70	-0.1
	0.4s	9.00nm			5.1mb	
KLB	47.49	242	eP	12	13.60	-1.1
LEM	59.19	272	iPc	13	41.70	0.1
MAT	59.39	333 (P)		13	40.00	-2.4
CSY	62.13	203	eP	14	00.00	-0.7
	0.7s	34.70nm			5.6mb	
NJ2	66.93	316	Pd	14	32.00	-0.3
MDJ	69.76	332	eP	14	49.10	-0.5
CN2	71.09	329	Pd	14	57.40	-0.3
	0.8s	2.90nm			4.4mb	
			epP	15	09.00	39kmX
GYA	72.76	305	P	15	08.00	-0.2
	1.0s	12.00nm			4.8mb	
BJI	73.61	321	eP	15	12.50	-0.2
SPA	73.78	180	iPc	15	12.90	-0.7

WKEYJ	2.19	226	iP+	19 52.70	0.5	BOD	26.99	332	eP	24 36.90	0.6	ZOBO	150.04	56	PKP	38 46.00	5.3X
KAKJ	2.22	78	iP+	19 31.00	1.1	LZH	27.17	281	eP	24 37.00	-1.4	LPB	150.24	57	ePKP	38 44.00	3.2X
			S	19 59.60			1.3s	26.00nm		4.7mb		CNCB	150.52	57	PKP	38 47.10	5.7X
YAMJ	3.15	40	P	19 45.10	1.0		Z 13s	0.68um		4.4MszX		S.D. = 1.1 on 56 of 87 obs.					
			eS	20 30.40		ZAK	E 12s	0.49um									
YONJ	3.34	261	P	19 47.20	0.5		28.65	311	eP	24 51.00	-0.3	? APR 22, 1993	20h	44m	28.19±	6.96s	
			S	20 38.00		GTA	1.0s	6.00nm		4.3mb		16.699 S ±112.km			73.161 W ±58.0km		
TKSJ	3.34	239	P	19 47.10	0.3		29.93	288	eP	25 02.00	-1.2	DEPTH = 101.7 ± 28.7 km					
OFUJ	4.69	44	eP	20 08.30	2.4		Z 14s	0.58um		4.4MszX		4.1mb (1 obs.)					
AOMJ	5.30	25	eP	20 17.90	3.4X	KMI	E 10s	0.26um				NEAR COAST OF PERU				(115)	
SHNJ	5.49	255	P	20 17.40	0.2		31.63	260	eP	25 22.50	4.1X						
KUMJ	6.39	242	P	20 31.40	1.4		Z 16s	1.20um		4.7MszX		ARE	1.62	82	iPd	44 56.20	-0.5
KAGJ	7.16	232	P	20 40.70	0.0		N 12s	1.10um					iS			45 12.50	
MRRJ	7.21	22	eP	20 46.10	4.8X		E 12s	0.50um		25 33.00		ZOBO	4.85	86	iPc	45 40.80	0.1
HOQJ	8.00	33	eP	20 54.30	1.9	UER		sP		25 55.20	11.9X	LPB	4.86	89	P	45 36.40	-4.2X
KUSJ	9.21	35	eP	21 09.50	0.4	TIK	34.57	311	eP	25 55.00	-2.1X	CNCB	4.96	92	P	45 43.40	1.1
ASAJ	9.23	24	eP	21 13.20	3.7X		36.22	355	eP			NNA	5.89	322	iPd	45 54.50	-0.1
MDJ	10.70	328	eP	21 34.00	4.3X		1.0s	18.00nm		4.9mb			0.7s	47.95nm		4.8mb X	
		Z 16s	0.83um			WMQ	Z 14s	0.40um		4.3MszX			i			45 56.70	
		N 12s	0.82um				38.60	298	eP	26 17.40	-0.2		eS			46 57.00	
		E 12s	0.67um			ILT	Z 12s	0.27um		4.3MszX		CCH	6.76	97	P	46 06.50	-0.3
		pP	21 41.60				40.48	24	iPc	26 33.50	0.9	SIV	11.63	88	P	47 20.00	7.8X
YSS	11.90	18	iPc	21 46.80	0.9	GUN	2.0s	27.00nm		4.6mb		BAO	24.19	91	(P)	49 36.00	-0.7
		0.9s	20.00nm		5.3mb	PKI	44.12	275	P	27 02.60	-0.8	YKA	85.38	342	eP	56 55.20	0.3
		Z 13s	1.00um		4.9Msz	KKN	44.64	275	P	27 06.80	-0.8		0.7s	1.70nm		4.1mb	
		N 13s	1.00um			DMN	44.65	275	P	27 08.60	1.1	S.D. = 0.9 on 7 of 9 obs.					
CN2	12.25	315	eP	21 53.80	3.2X	GKN	44.87	275	P	27 08.40	-0.9						
		1.0s	12.00nm		5.0mb	PRZ	45.09	276	P	27 10.20	-0.8	* APR 22, 1993	21h	06m	44.64±	0.88s	
		Z 16s	0.35um		4.7Msz	IPM	45.53	297	eP	27 14.50	0.2	36.952 N ±12.3km			31.714 E ±11.7km		
		N 1															

22d 22h

MAT	91.39	343	eP	28	27.00	1.2	HRV	144.89	87	PKP	35	10.00	12.9X	ZAK	31.94	294	eP	40	58.40	0.0
	1.6s	36.67nm				5.5mb		Z	19s	0.38um		5.2Msz			1.0s	10.00nm			4.5mb	
GYA	91.67	314	P	28	30.00	2.5X	BNH	146.26	84	ePKP	34	59.31	-0.1	IMA	33.45	37	eP	41	10.69	-0.9
KMI	92.25	311	Pc	28	33.60	3.3X	MOS	146.99	298	ePKP	35	04.00	3.9X		0.5s	2.45nm			4.3mb	
	2.0s	80.00nm				5.8mb			2.0s	140.00nm				XAN	35.14	263	Pc	41	26.20	-0.1
Z	22s	1.00um				5.2Msz	OBN	147.31	297	ePKP	35	03.00	2.4X		0.9s	27.00nm			5.1mb	
XAN	97.42	320	P	28	54.60	1.1	CFR	147.71	275	ePKP	35	04.00	2.4	FBA	35.83	39	(P)	41	31.14	-0.6
	1.2s	10.00nm				5.3mb	MIM	147.94	85	(PKP)	35	13.15	11.2X	GTA	38.41	278	P	41	54.30	0.5
Z	30s	0.44um				4.8MszX	JAO	147.97	67	ePKPd	35	02.80	1.0		1.0s	14.00nm			4.8mb	
ZOBO	99.56	134	P	29	04.00	-0.5				pP	35	12.00		CD2	40.50	264	iPc	42	11.90	0.9
		S				39									1.0s	120.00nm			5.6mb	
		LR				57								ELT	41.21	303	eP	42	16.20	-0.3
LZH	101.22	317	ePdiff	29	16.00	5.1X	KIS	148.24	279	ePKP	35	09.00	6.6X		1.4s	18.00nm			4.7mb	
	1.3s	16.00nm				5.5mb		Z	22s	0.50um		5.3Msz			41.24	33	ePc	42	18.00	1.5
Z	25s	0.38um				4.8MszX	EMM	148.59	87	(PKP)	35	01.39	-1.6	INK	41.45	256	iPc	42	19.60	0.7
		pP				29	VAY	148.84	265	iPKP	35	07.40	3.8X	GYA	1.0s	25.00nm			5.0mb	
SMY	106.42	9	PKP	33	50.00	5.6X	VR1	148.93	276	ePKP	35	09.00	5.4X		44.02	20	ePd	42	39.40	0.3
	Z	20s				5.7Msz	HNME	149.05	84	(PKP)	35	05.86	2.1X		0.5s	2.00nm			4.2mb	
ISA	113.44	62	PKP	34	10.00	11.6X	MLR	149.19	274	ePKP	35	07.50	3.3X	MBC	44.22	290	P	42	41.60	0.4
	Z	19s				5.2Msz	CVO	149.23	275	ePKP	35	09.00	4.9X		44.95	258	Pc	42	47.50	0.1
CMB	114.25	59	PKP	34	10.00	10.1X	CBM	149.36	83	PKP	35	10.00	5.8X		1.3s	60.00nm			5.2mb	
	Z	20s				5.0Msz		Z	20s	0.39um		5.2Msz		LSA	49.78	272	P	43	26.50	1.2
WMO	114.58	311	PKP	34	02.40	2.0	CMP	149.62	273	ePKPc	35	05.00	0.3		0.6s	27.00nm			5.4mb	
	Z	29s				4.8MszX	OHR	149.77	263	iPKP	35	09.70	4.6X	YKA	50.57	37	eP	43	29.20	-1.1
TUC	115.10	69	PKP	34	10.00	8.3X	SOI	150.58	254	PKP	35	12.20	5.9X		0.5s	1.50nm			4.2mb	
	Z	21s				5.4Msz	LMN	150.79	87	ePKP	35	14.00	7.6X	CHG	51.86	255	iPc	43	41.40	0.8
WDC	115.10	55	PKP	34	10.00	8.7X	MNO	151.26	252	PKP	35	15.50	7.9X		1.0s	25.00nm			5.1mb	
	Z	20s				5.4Msz	ROI	151.29	256	PKP	35	14.80	7.4X	SVE	52.96	316	ePd	43	48.00	-0.2
MSU	118.91	64	(PKP)	34	10.73	1.7X	CZI	151.31	255	PKP	35	13.20	5.9X	ARU	54.13	317	eP	43	55.00	-1.9
ALO	119.47	70	PKP	34	20.00	9.9X	TDS	151.48	256	PKP	35	14.40	6.8X	GUN	54.49	274	Pc	44	00.20	-0.1
	Z	22s				5.4Msz	CSI	151.58	256	PKP	35	15.10	7.3X	KKN	54.97	274	Pc	44	03.60	0.0
DUG	119.79	62	PKP	34	20.00	9.5X	PUL	151.83	304	ePKPc	35	25.00	17.6X	PKI	55.02	274	Pc	44	04.00	-0.2
	Z	20s				5.1Msz			1.8s	120.00nm				DMN	55.20	274	Pc	44	05.80	0.4
FRU	120.13	302	ePKP	34	19.00	8.1X	BZS	151.85	271	ePKP	35	24.00	16.1X	GKN	55.26	275	Pc	44	06.00	0.3
SRU	120.23	64	ePKP	34	10.33	-1.1	MGR	152.25	256	PKP	35	16.00	7.3X	NDI	59.81	281	eP	44	37.00	-0.3
DAU	120.77	63	(PKP)	34	15.11	2.5X	UZH	152.90	278	ePKP	35	20.00	10.7X	FCC	60.86	33	eP	44	45.50	1.5
PMR	121.62	26	(PKP)	34	18.54	5.5X	FRB	153.57	48	ePKP	35	17.00	7.2X	KAF	62.54	335	iP	44	53.20	-2.0
	Z	20s				5.1Msz			1.0s	9.00nm					0.4s	4.60nm			4.8mb	
ILT	122.03	10	iPKPc	34	14.00	0.4	VBY	155.60	266	ePKP	35	18.00	4.9X	NUR	64.30	334	eP	45	05.00	-1.8
	1.2s	12.00nm					KSP	157.35	279	ePKP	35	14.50	-0.8	HYB	66.53	270	eP	45	21.20	-0.5
ELT	122.36	317	ePKP	34	17.20	2.5X	GEC2	158.13	272	ePKPc	35	28.90	12.5X	NB2	67.34	341	P	45	25.00	-1.2
	2.2s	24.00nm								e	35	34.90			0.6s	12.50nm			5.0mb	
DPW	122.58	52	(PKP)	34	14.68	-0.7				e	35	39.20		HFS	67.56	339	eP	45	26.00	-1.6
BW06	123.35	62	(PKP)	34	18.65	1.4				e	35	49.40			0.4s	12.60nm			5.2mb	
NEW	123.37	53	ePKP	34	18.62	1.7				e	35	51.90		WRA	69.11	198	P	45	36.80	-0.7
GOL	123.46	67	PKP	34	30.00	12.3X				ec	36	03.80			0.6s	0.70nm			3.7mb X	
	Z	22s				5.3Msz	CLL	159.47	278	e(PKP)	35	26.00	8.4X	KIV	69.93	314	eP	45	41.30	-1.2
MAIO	123.71	287	ePKP	34	20.00	1.9				e	36	09.00			1.1s	21.00nm			4.9mb	
WMOK	123.72	76	(PKP)	34	14.88	-3.1X								GBA	69.98	268	P	45	42.00	-1.0
	Z	21s				5.3Msz							KRV	70.48	309	iP	45	44.00	-1.8	
LCCM	124.26	58	ePKP	34	19.10	0.2									1.0s	12.00nm			4.7mb	
FBA	124.70	24	(PKP)	34	14.28	-4.6X								BSD	71.66	336	iPd	45	52.40	-0.1
ASH	125.52	288	ePKP	34	29.40	8.0X									0.9s	20.00nm			4.9mb	
TIK	126.54	348	ePKP	34	20.00	-2.3								ASPA	72.81	198	iPd	45	59.00	-0.7
	1.6s	13.00nm				5.1Msz									1.0s	6.80nm			4.4mb	
Z	18s	0.40um				6.4X								KSP	75.00	333	iPc	46	11.50	-0.5
MIAR	126.63	80	PKP	34	30.00									SPC	75.15	330	eP	46	13.90	0.7
	Z	19s				5.0Msz								EKA	75.47	346	P	46	14.00	-0.7
RSSD	127.20	64	ePKP	34	23.61	-1.1									0.6s	4.50nm			4.5mb	
	Z	21s				5.2Msz	YSS	6.64	269	ePnc	36	23.20	5.0X	VR1	75.54	324	eP	46	15.50	0.3
OLY	128.54	80	(PKP)	34	28.96	1.7	KUSJ	7.03	234	eP	36	21.80	-1.7	CLL	75.56	335	iPc	46	14.60	-0.6
FVM	130.84	79	ePKP	34	28.78	-2.8X				eS	37	36.30			0.7s	41.00nm			5.3mb	
	Z	19s				5.7Msz	ASAJ	7.65	247	P	36	36.30	4.3X	BRG	75.68	334	iP	46	15.00	-0.9
		e				34	HOOU	8.29	235	eP	36	40.50	-0.1		1.1s	14.00nm			4.7mb	
INK	131.01	27	ePKP	34	33.50	2.6X				eS	38	08.70		CVO	75.80	324	iPc	46	17.50	0.8
	1.0s	2.00nm					MRRJ	9.54	242	eP	36	58.10	0.6			e			17	03.00
MYNC	132.62	86	PKP	34	40.00	5.0X	OFUJ	11.52	227	eP	37	20.30	-3.6X	MLR	76.16	324	ePc	46	19.00	0.1
	Z	20s				5.0Msz				eS	39	19.30		VRAC	76.24	332	iP	46	19.40	0.3
GBTN	132.97	85	(PKP)	34	37.34	1.7									0.9s	44.20nm			5.3mb	
YKA	133.59	40	ePKP	34	25.90	-10.0X	SEY	15.40	360	eP	38	20.00	6.2X	PRU	76.28	334	Pc	46	19.40	0.1
	0.6s	0.40nm					MDJ	16.11	268	eP	38	22.00	-0.9		0.7s	6.40nm			4.5mb	
ULM	135.36	62	ePKP	34	48.00	8.3X	CN2	19.19	269	eP	38	59.00	-0.1	MOX	76.55	336	eP	46	20.70	-0.1
CEH	136.19	89	PKP	34	50.00	8.3X				1.0s	14.00nm		4.3mb		1.1s	20.00nm			4.8mb	
	Z	20s				5.2Msz	YAK	19.39	327	eP	39	00.00	-1.0	WTS	76.58	339	eP	46	21.00	0.1
ARU	136.69	307	ePKP	34	49.00	7.0X				e	42	30.00			0.7s	17.10nm			5.0mb	
MCWV	138.20	84	PKP	35	00.00	14.6X				0.8s	52.00nm		4.9mb	SRO	76.99	330	iP	46	24.20	1.0
	Z	20s				5.5Msz								ZST	77.05	331	iP	46	23.90	0.3
KIV	138.43	284	(PKP)	34	43.90	-2.0	SNY	21.23	265	Pd	39	20.50	0.6	KHC	77.33	334	iPc	46	26.00	0.8
	1.1s	10.00nm					BOD	25.05	309	eP	39	55.80	-0.9		0.9s	6.00nm			4.4mb	
Z	21s	0.20um				4.8Msz				0.8s	14.00nm		4.5mb	LTX	77.50	60	(P)	46	24.30	-2.2
MBC	139.05	2																		

23d 00h

LSF 21.24 308 eP 56 45.00 3.4X
0.6s 4.25nm 4.0mb
LFF 21.31 304 eP 56 46.20 3.9X
MFF 22.45 308 eP 56 57.30 3.8X
LDF 23.21 313 eP 57 03.60 2.8X
0.3s 4.75nm 4.4mb
FLN 23.49 313 eP 57 06.70 3.1X
0.4s 46.30nm 5.3mb X
LPF 23.54 311 eP 57 07.50 3.5X
0.4s 3.80nm 4.2mb
GRR 23.57 312 eP 57 07.70 3.4X
0.3s 16.85nm 4.9mb
HFS 25.97 346 eP 57 26.90 0.1
0.2s 0.30nm 3.4mb
NB2 27.31 345 P 57 39.20 0.2
0.4s 0.30nm 3.2mb
EKA 28.15 324 P 57 49.00 2.5X
1.2s 11.40nm 4.4mb
GKN 49.99 81 P 00 53.00 4.9X
0.5s 10.00nm 5.0mb
DMN 50.53 81 P 00 57.40 5.1X
KKN 50.59 81 P 00 57.60 4.8X
PKI 50.79 81 P 00 59.60 5.2X
GUN 51.03 81 P 01 00.60 4.4X
YKA 77.39 342 eP 03 50.70 4.0X
0.4s 0.30nm 3.4mb
S.D. = 1.0 on 57 of 97 obs.

* APR 23, 1993 01h 09m 33.14 ± 1.11s
2.159 S ± 12.1km 145.212 E ± 18.0km
DEPTH = 33.0km (normal)
4.6mb (5 obs.) 4.4Msz (1 obs.)
ADMIRALTY ISLANDS REGION, P.N.G. (199)

LAT 4.82 158 eP 10 46.70 1.4
MTN 17.52 232 eP 13 37.50 0.8
0.8s 47.00nm 4.7mb
WB2 20.62 210 iPc 14 10.20 -2.2X
1.2s 29.60nm 4.5mb
KNA 21.10 229 iPc 14 16.90 -0.4
0.9s 36.00nm 4.8mb
ASPA 24.02 206 iPc 14 45.70 -0.5
1.2s 22.30nm 4.6mb
Z 21s 1.40um 4.4Msz
eS 19 11.90
RMQ 24.43 172 eP 14 48.30 -1.8
GUN 64.30 302 P 20 08.00 -0.4
PKI 64.60 302 P 20 10.20 -0.2
KKN 64.77 302 P 20 11.60 0.3
DMN 64.87 302 P 20 12.80 0.8
GKN 65.38 302 P 20 12.80 -2.4X
YKA 96.61 27 eP 22 52.60 -8.2X
1.2s 1.00nm 4.2mb
SIV 148.38 126 PKP 29 27.00 11.8X
S.D. = 1.1 on 9 of 13 obs.

APR 23, 1993 01h 18m 24.83 ± 0.36s
36.667 N ± 4.5km 5.009 W ± 3.8km
DEPTH = 27.9 ± 5.1 km
STRAIT OF GIBRALTAR (385)
mbLg 3.7 (MDD).

EPRU 0.35 329 iPg 18 33.03 0.2
eSg 18 39.30
LIJA 0.40 306 iP 18 33.50 -0.1
EJIF 0.43 240 iPg 18 33.18 -0.8
eSg 18 39.30
ALJ 0.48 271 iP 18 35.50 0.6
MAL 0.48 B3 iPnd 18 34.40 -0.5
iSg 18 41.80
OJEN 0.71 217 iP 18 39.00 0.4
GIBL 0.77 282 iP 18 40.00 0.3
PLAT 0.81 228 iP 18 40.50 0.2
CNIL 0.89 251 iP 18 40.50 -0.9
SFS 0.98 258 eP 18 47.00 4.3X
CPS 0.99 208 iP 18 46.00 3.2X
iS 20 03.00
ELUQ 1.07 33 iPg 18 44.77 0.7
eSg 18 58.50
EHOR 1.17 351 iPnd 18 46.38 1.0
eSn 19 01.70
NKM 1.26 195 iPg 18 47.50 0.9
i 18 48.50
eSg 19 08.50
i 19 09.50
i 19 10.50
ECOG 1.31 62 iPnd 18 48.54 1.1

TSY 1.51 211 eSn 19 04.10
eP 18 54.00 3.8X
iS 20 11.00
EBAN 1.78 33 iPnd 18 54.62 0.4
eSn 19 17.00
EHUE 2.24 59 ePn 19 00.53 -0.4
eSn 19 26.80
ENIJ 2.27 81 ePn 19 00.53 -0.7
PAB 2.92 10 ePn 19 08.00 -2.5X
ePg 19 21.00
eSn 19 48.00
iSb 19 58.00
iSg 20 02.00
IFR 3.14 182 iPn 19 13.50 -0.3
iSn 19 49.50
i 19 50.00
EPLA 3.50 346 ePn 19 17.76 -0.9
GUD 4.03 9 ePnd 19 25.15 -1.1
eSn 20 10.40
S.D. = 0.8 on 19 of 23 obs.

? APR 23, 1993 01h 47m 09.30 ± 2.65s
32.088 S ± 20.3km 68.417 W ± 14.8km
DEPTH = 118.4 ± 30.6 km
MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.50 18 ePc 47 27.50 0.1
S 47 41.00
RTCB 0.68 331 eP 47 28.70 0.0
RTLL 0.76 357 iPd 47 29.00 -0.3
S 47 41.20
RTBS 0.98 295 iPc 47 31.30 0.1
S 47 47.50
MRA 2.32 99 iPc 47 47.40 0.2
S 48 15.80
RTPR 2.42 43 e(P) 47 48.80 0.3
TCA 3.34 78 iP 48 00.50 -0.4
(S) 48 38.20
S.D. = 0.4 on 7 of 7 obs.

APR 23, 1993 02h 02m 34.38 ± 0.24s
39.976 N ± 2.3km 28.878 E ± 2.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.8 (ATH), 3.6 (ISK). ML 3.9 (THE).

DST 0.42 208 iPg 02 42.60 -0.3
KCT 0.48 304 iPg 02 44.50 0.3
YLV 0.70 33 iPg 02 48.00 -0.3
BNT 0.83 298 iPg 02 50.60 0.2
eSg 03 02.60
EDC 0.86 296 iPg 02 51.00 0.0
iSg 03 03.00
HRT 1.04 35 iPg 02 54.00 0.0
ISK 1.10 7 iPg 02 55.00 0.0
iSg 03 10.00
GPA 1.14 74 iPg 02 55.50 -0.3
EYL 1.14 59 iPg 02 55.50 -0.3
CTT 1.22 344 iPn 02 57.50 0.4
KGT 1.30 292 ePn 02 59.00 0.6
ALT 1.32 134 iPn 02 59.40 0.5
KHL 1.72 163 iPn 03 04.90 0.2
IZM 2.01 219 iPn 03 08.60 -0.2
DMK 2.03 336 iPn 03 09.40 0.4
PRK 2.14 251 ePn 03 11.00 0.4
eSn 03 47.20
ALN 2.35 294 ePn 03 18.38 4.8X
eSn 03 49.50
RDO 2.80 296 ePn 03 20.30 0.3
BCK 2.85 151 ePn 03 20.50 -0.2
ELL 3.32 166 ePn 03 28.10 0.5
OUR 3.77 277 ePn 03 33.18 -0.6
SRS 4.19 288 ePn 03 38.98 -0.7
SOH 4.30 283 ePn 03 40.70 -0.7
KNT 4.71 287 ePn 03 46.74 -0.4
VAY 4.98 288 ePn 03 51.00 0.0
AGG 5.15 261 ePn 03 53.58 0.1
MLR 5.92 340 eP 04 07.00 2.7X
CVO 6.17 342 eP 04 10.00 2.3X
S.D. = 0.4 on 25 of 28 obs.

APR 23, 1993 02h 09m 08.40 ± 0.79s
35.961 N ± 9.2km 32.489 E ± 9.1km
DEPTH = 10.0km (geophysicist)
CYPRUS REGION (372)
MD 3.6 (ISK). ML 3.6 (CSS).

PPCY 1.08 186 eP 09 29.00 0.3
eS 09 42.20
CSS 1.21 145 ePd 09 29.90 -1.1
eS 09 42.90
FAM 1.57 128 eP 09 41.50 5.2X
eS 10 03.50
BCK 2.14 315 ePn 09 43.80 -0.9
ELL 2.23 291 iPn 09 47.10 1.1
KHL 3.34 316 ePn 10 00.00 -1.8
YER 3.58 290 ePn 10 06.00 0.8
CIN 3.89 296 eP 10 10.00 0.5
GAZ 3.99 71 ePn 10 12.00 1.1
S.D. = 1.3 on 8 of 9 obs.

? APR 23, 1993 02h 09m 28.56 ± 1.32s
45.571 N ± 15.2km 15.395 E ± 9.0km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

VBY 0.12 236 iPg 09 31.50 0.0
iSg 09 33.10
PTJ 0.51 50 iPg 09 39.00 0.0
iSg 09 47.10
CEY 0.70 284 ePg 09 42.50 0.1
eSg 09 52.00
VOY 1.15 294 ePg 09 50.00 -0.1
iSg 10 06.00
S.D. = 0.1 on 4 of 4 obs.

? APR 23, 1993 02h 53m 27.98 ± 4.89s
16.955 S ± 50.4km 177.504 W ± 30.8km
DEPTH = 311.0 ± 46.0 km
3.9mb (10 obs.)
FIJI ISLANDS REGION (181)

DZM 15.96 249 iPd 56 57.90 0.2
STK 39.85 240 eP 00 25.60 -8.0X
0.3s 1.30nm 3.7mb
WB2 45.65 258 iPc 01 20.20 -0.1
0.2s 4.60nm 4.4mb
i 01 27.10
WRA 45.66 258 P 01 20.80 0.5
0.3s 1.70nm 3.8mb
ASPA 45.89 253 P 01 21.39 -0.7
0.5s 1.80nm 3.6mb
WARB 52.42 250 eP 02 06.70 -4.8X
0.4s 1.00nm 3.6mb
TNP 78.68 44 ePc 04 57.29 -0.5
0.8s 3.82nm 4.3mb
MSU 82.32 46 eP 05 16.70 -0.1
SRU 83.74 46 eP 05 23.58 -0.3
PV09 84.42 47 eP 05 26.70 -0.8
IMA 84.69 10 eP 05 29.00 1.0
1.1s 4.06nm 4.2mb
FBA 84.70 12 eP 05 26.87 -1.0
0.8s 9.97nm 4.7mb
e 05 37.76
MCMT 84.96 40 eP 05 20.20 -9.7X
GOL 87.58 47 eP 05 44.50 1.7
0.8s 1.93nm 4.1mb
INK 90.75 15 eP 05 56.50 0.0
YKA 93.11 24 eP 06 02.10 -5.4X
0.8s 0.50nm 3.6mb
KSP 144.43 345 ePKP 12 28.00 -0.7
CLL 144.71 349 ePKP 12 27.00 -2.1
BRG 144.94 347 ePKP 12 30.50 1.0
e 12 43.70
PRU 145.64 346 ePKP 12 30.00 -0.7
KHC 146.66 347 ePKP 12 34.00 1.5
e 12 50.00
GEC2 146.91 346 ePKP 12 34.00 1.1
0.6s 1.00nm
e 12 40.40
e 12 46.00
e 12 49.30
S.D. = 1.1 on 18 of 22 obs.

& APR 23, 1993 03h 03m 49.36s
60.157 N 152.417 W
DEPTH = 89.7km
SOUTHERN ALASKA (2)
<AEIC>.

INE 0.34 254 eP 04 02.85 -0.5
eS 04 13.44
RS1 0.35 331 ePc 04 02.79 -0.7
RSO 0.35 331 iPc 04 02.78 -0.7

23d 03h

RS2	0.35	331	iPc	04 02.78	-0.7
			eS	04 13.84	
INW	0.37	256	ePc	04 02.82	-0.7
			eS	04 13.80	
RDW	0.38	329	ePc	04 02.80	-0.9
			eS	04 14.20	
RDT	0.42	1	eP	04 03.00	-0.8
DFR	0.46	343	P	04 03.40	-0.7
NCT	0.48	328	eP	04 03.53	-0.7
OPT	0.65	219	iPd	04 04.86	-0.8
			eS	04 17.35	
NKA	0.83	44	iPc	04 08.38	1.0
BRK	0.87	116	eP	04 07.15	-0.7
			eS	04 20.98	
CNPM	0.87	136	ePc	04 07.11	-0.8
			eS	04 21.35	
AUL	0.93	214	ePd	04 07.59	-1.0
AUE	0.94	212	eP	04 07.52	-1.0
AUH	0.95	214	eP	04 07.92	-0.9
AUW	0.95	214	ePd	04 07.83	-0.9
AUI	0.97	212	eP	04 07.91	-1.1
			eS	04 22.42	
CKL	1.04	2	iPd	04 09.02	-0.9
SPU	1.04	10	iPd	04 08.97	-0.9
			eS	04 24.75	
CKT	1.05	6	iPd	04 09.04	-1.0
			eS	04 24.75	
CKN	1.08	6	eP	04 09.54	-0.7
			eS	04 26.77	
BGL	1.11	1	iPd	04 09.89	-0.9
CPAM	1.11	7	iPd	04 09.97	-0.8
CP2	1.11	4	iPd	04 10.13	-0.8
			eS	04 26.63	
CRP	1.12	6	iPd	04 10.17	-0.8
			eS	04 26.48	
SLKM	1.15	71	eP	04 09.70	-1.4
			eS	04 26.46	
MCNL	1.38	226	iPd	04 12.39	-1.6
			eS	04 30.34	
CDD	1.38	207	iPd	04 12.48	-1.5
SUA	1.55	31	eP	04 15.82	-0.4
SYI	1.55	179	iPd	04 15.09	-1.0
MPA	1.56	76	iPc	04 14.94	-1.3
PTE	1.82	66	ePc	04 18.10	-1.6
SKT	1.88	13	ePd	04 19.32	-1.2
PMR	2.16	47	(P)	04 21.26	-2.9
			eS	04 45.92	
SML	2.59	48	iPc	04 28.08	-2.0
HIN	2.96	83	eP	04 32.87	-2.3
SCM	3.00	54	eP	04 34.15	-1.6
VLZ	3.15	69	eP	04 34.80	-3.0
KLU	3.45	64	iPc	04 39.14	-2.9

40 obs. associated

% APR 23, 1993 03h 05m 14.72±0.63s
 26.927 N ± 5.7km 26.781 E ± 6.9km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.7 (PRE).

BFS	0.03	8	iPd	05 16.20	0.2
			S	05 16.60	
PRY	0.62	90	eP	05 26.00	-1.1
			S	05 33.50	
KSR	1.06	6	eP	05 35.50	0.2
			S	05 47.50	
SWZ	1.32	259	eP	05 39.50	-0.2
			S	05 54.60	
SEK	1.58	152	iPc	05 45.00	1.4
			S	06 06.10	
SLR	1.80	49	iPd	05 47.00	0.3
			S	06 10.00	
BLF	2.24	193	eP	05 53.50	0.4
			S	06 21.70	
FRS	3.09	204	iPc	06 04.00	-1.1
			S	06 40.00	

S.D. = 1.0 on 8 of 8 obs.

% APR 23, 1993 03h 29m 46.44±0.89s
 44.339 N ± 7.6km 7.275 E ± 10.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.4 (GEN).

STV	0.10	160	P	29 49.17	-0.1
			S	29 50.50	
ENR	0.15	137	P	29 50.04	0.0

PZZ	0.21	323	P	29 52.15	
			S	29 51.22	0.2
ROB	0.43	96	P	29 54.62	
			S	29 55.36	0.1
BHB	0.50	359	P	30 01.24	
			S	29 56.44	-0.2

S.D. = 0.2 on 5 of 5 obs.

* APR 23, 1993 03h 31m 20.84±1.45s
 47.538 N ± 12.4km 147.266 E ± 8.3km
 DEPTH = 365.3 ± 16.7 km
 4.2mb (15 obs.)

NORTHWEST OF KURIL ISLANDS (220)

MDJ	12.62	263	eP	34 11.20	0.4
MAT	12.87	215	eP	34 14.00	0.0
CN2	15.69	264	eP	34 43.30	-1.0
	1.0s		23.00nm		4.5mb
HHC	26.29	269	Pd	36 26.00	-0.1
XAN	31.67	259	P	37 13.50	0.2
	0.7s		4.60nm		3.9mb
LZH	33.91	266	iPc	37 34.00	1.6
	1.4s		37.00nm		4.5mb
GTA	34.92	274	P	37 41.60	0.8
	1.0s		17.00nm		4.3mb
IMA	35.55	37	eP	37 44.15	-1.7
	0.3s		1.67nm		3.8mb
FBA	38.04	39	ePc	38 06.62	0.4
	0.7s		4.05nm		3.9mb
INK	43.12	32	ePc	38 38.20	-9.3X
	0.5s		5.00nm		4.0mb
GUN	50.98	270	P	39 48.20	-0.7
KKN	51.46	271	P	39 52.60	0.4
	0.5s		10.00nm		4.4mb
PKI	51.52	270	P	39 52.20	-0.6
DMN	51.70	271	P	39 54.20	0.2
GKN	51.76	271	P	39 54.20	-0.2
	0.6s		16.00nm		4.5mb
YKA	52.64	35	eP	39 58.70	-1.4
	0.5s		1.60nm		3.6mb
FCC	62.72	31	eP	41 11.00	1.5
BGMT	64.43	50	eP	41 21.40	0.3
NB2	66.11	338	P	41 29.60	-1.6
	0.7s		1.60nm		3.9mb
BW06	67.42	51	iPc	41 39.79	-0.1
	0.8s		5.75nm		4.4mb
WB2	68.16	193	iPd	41 43.60	-0.6
	0.6s		5.50nm		4.5mb
WRA	68.17	193	P	41 43.80	-0.4
	0.6s		2.80nm		4.2mb
ULM	68.45	38	eP	41 48.00	2.3
MSU	68.98	56	iPc	41 50.29	0.8
RSSD	69.28	47	iP	41 50.82	-0.4
	1.0s		5.42nm		4.2mb
SRU	69.48	54	eP	41 52.41	0.0
HNME	81.71	24	iP	43 00.05	0.0
PPD	150.48	37	(PKP)	50 30.00	5.0X

S.D. = 1.0 on 26 of 28 obs.

% APR 23, 1993 04h 00m 18.21±1.18s
 37.885 N ± 8.1km 27.612 E ± 11.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

IZM	0.58	332	iPc	00 29.60	-0.4
			iSg	00 29.60	
YER	0.92	144	iPc	00 36.00	0.2
			eSg	00 48.00	
KHL	1.57	73	ePn	00 46.00	-0.2
DST	1.89	24	iPn	00 51.40	0.5
ALT	2.28	58	ePn	00 56.00	-0.6
KCT	2.43	14	ePn	00 59.00	0.4
YLV	3.01	26	ePn	01 07.00	0.2

S.D. = 0.5 on 7 of 7 obs.

? APR 23, 1993 04h 36m 20.85±3.84s
 46.504 N ± 26.8km 11.622 E ± 13.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (VIE).

SCE	0.54	6	iPd	36 31.80	0.0
WTTA	0.76	1	iPd	36 35.80	0.0
			iSg	36 46.70	
SOTA	0.77	339	iPc	36 35.80	-0.2
			iSg	36 46.80	

WATA	0.83	358	iPd	36 37.10	0.0
			iSg	36 48.90	
MOTA	0.91	337	iPd	36 38.60	0.2
			i	36 43.40	
			iSg	36 50.70	
KBA	1.32	63	iPd	36 45.30	0.0
			iSg	37 02.60	

S.D. = 0.1 on 6 of 6 obs.

* APR 23, 1993 05h 15m 07.26±1.71s
 44.093 N ± 9.4km 16.580 E ± 26.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (363)
 MD 2.7 (TRI).

HVAR	0.92	186	iPc	15 24.80	0.0
			iSg	15 40.60	
VBY	1.70	327	iPn	15 35.60	-1.4
			iSn	15 57.70	
ZAG	1.77	346	ePg	15 41.80	3.6X
			eSn	16 04.50	
PTJ	1.86	346	iPnc	15 40.60	1.1
			iSn	16 04.40	
RIY	2.00	309	ePn	15 40.20	-1.3
			iSn	16 05.40	
CEY	2.25	318	ePn	15 45.00	-0.1
			eSn	16 13.50	
LJU	2.43	324	e(Pn)	15 48.50	0.9
			eSn	16 17.80	
TRI	2.57	310	e(Pn)	15 51.10	1.5
			e(Sn)	16 17.50	
			e(Sg)	16 21.70	
VOY	2.72	316	ePn	15 52.30	0.5
			e	15 52.80	
			eSn	16 26.10	
KBA	3.75	324	iP	16 51.10	44.5X
	0.4s		2.60nm		
			i	17 07.60	
GEC2	5.15	338	Pn	16 25.20	-1.1
			Sn	17 22.20	

S.D. = 1.2 on 9 of 11 obs.

APR 23, 1993 05h 22m 05.79±0.70s
 37.629 N ± 6.2km 22.167 E ± 5.3km
 DEPTH = 25.4 ± 6.2 km
 4.0mb (4 obs.)
 SOUTHERN GREECE (368)
 ML 3.7 (ATH), 3.6 (THE).

VLI	1.10	146	ePg	22 25.30	-0.2
ATH	1.27	74	ePb	22 29.00	1.0
			eSb	22 49.00	
VLS	1.36	294	ePb	22 29.00	-0.3
AGG	1.40	5	ePb	22 29.68	-0.1
			eSb	22 49.48	
IGT	2.38	323	ePn	22 44.88	0.9
LIT	2.48	6	ePn	22 44.96	-0.5
PAIG	2.58	27	iPn	22 45.48	-1.3
KZN	2.69	354	ePn	22 51.50	3.1X
KEK	2.79	319	ePn	22 51.50	1.8
SRN	2.81	324	ePn	22 50.80	0.8
			iSn	23 24.30	
TPE	3.15	328	ePn	22 59.60	4.8X
KBN	3.18	341	ePn	22 56.80	1.5
FNA	3.21	349	iPn	22 57.88	2.1
SOH	3.32	16	ePn	22 57.04	-0.2
GRG	3.33	3	ePn	22 57.92	0.5
VLO	3.52	325	ePn	23 05.50	5.4X
KNT	3.57	9	ePn	23 00.32	-0.6
OHR	3.64	343	iPn	23 04.50	2.7X
NPS	3.65	129	ePn	23 02.50	0.5
SRS	3.65	17	ePn	23 01.68	-0.4
VAY	3.70	5	iPn	23 02.20	-0.5
TIR	4.12	335	ePn	23 11.00	2.4X
SKO	4.37	353	ePn	23 13.20	1.0
			i	24 08.50	
ROI	4.79	296	P	23 17.40	-0.9
TDS	4.99	296	P	23 22.40	1.4
CZI	5.00	290	P	23 21.00	0.0
CSI	5.07	297	P	23 21.90	-0.3
ORI	5.08	300	P	23 23.70	1.4
MGR	5.73	298	P	23 30.40	-1.1
			eSn	24 34.60	
MNO	5.93	275	P	23 33.20	-1.2
SGO	6.08	301	P	23 35.50	-0.9
			eSn	24 45.50	
HVAR	7.05	324	e(Pn)	23 48.40	-1.6

23d 05h

DUI 7.18 306 P 23 54.10 2.2
 VBY 9.42 329 ePn 24 21.50 -1.3
 VOY 10.41 326 eP 24 34.90 -1.7
 eS 26 28.70
 HFS 23.16 349 eP 27 09.10 -1.8
 0.5s 4.50nm 4.3mb
 NB2 24.43 347 P 27 22.20 -1.1
 0.5s 1.30nm 3.8mb
 EKA 24.63 324 P 27 25.00 -0.2
 0.5s 4.80nm 4.3mb
 YKA 74.34 341 eP 33 43.50 1.0
 0.7s 0.30nm 3.4mb
 S.D. = 1.2 on 34 of 39 obs.

* APR 23, 1993 06h 05m 32.02 ± 2.34s
 33.235 S ± 6.5km 70.041 W ± 17.3km
 DEPTH = 10.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 4.4 (SAN).

FCH 0.23 246 iP 05 37.38 0.3
 PEL 0.55 279 iP 05 43.07 0.0
 iS 05 50.80
 PCH 0.55 226 iP 05 43.21 -0.1
 iS 05 51.14
 SAN 0.56 247 iP 05 43.57 0.1
 iS 05 51.34
 JACH 0.72 320 iP 05 46.29 0.0
 iS 05 56.37
 TACH 0.86 241 iP 05 48.57 0.0
 iS 06 00.43
 CHCH 0.86 216 iP 05 48.77 0.1
 iS 06 00.71
 MDZ 1.06 71 eP 06 05.60 13.6X
 i 06 17.10
 LCCH 1.30 259 iP 05 56.11 0.0
 iS 06 13.55
 LNV 1.35 237 iP 05 56.39 -0.4
 iS 06 14.61
 MRA 3.74 78 iPd 06 45.20 14.2X
 CNCB 16.46 7 eP 09 40.00 14.8X
 LPB 16.72 6 eP 09 49.00 20.6X
 ZOBO 16.98 6 P 09 43.00 11.2X
 S.D. = 0.2 on 9 of 14 obs.

APR 23, 1993 06h 16m 37.57 ± 0.65s
 33.345 S ± 6.2km 68.479 W ± 6.0km
 DEPTH = 14.9 ± 3.6 km
 MENDOZA PROVINCE, ARGENTINA (139)
 MD 4.6 (SAN). Felt (III) at Mendoza.

MDZ 0.56 326 iP 16 48.20 -0.3
 iS 16 58.60
 RFA 1.42 180 iP 17 01.70 -1.2
 RTCV 1.48 358 iPc 17 03.50 -0.2
 S 17 23.00
 FCH 1.52 270 iP 17 03.56 -0.9
 iS 17 22.09
 PCH 1.72 260 iP 17 06.94 -0.3
 iS 17 27.89
 CFA 1.74 7 ePd 17 07.70 0.2
 S 17 32.20
 SAN 1.83 266 iP 17 08.53 -0.2
 iS 17 32.00
 PEL 1.86 276 iP 17 09.01 -0.2
 iS 17 32.36
 RTBS 1.87 334 iPd 17 09.80 0.6
 RTCB 1.87 352 eP 17 09.70 0.3
 JACH 1.90 290 iP 17 10.23 0.5
 iS 17 34.00
 CHCH 1.91 251 iP 17 09.83 0.0
 iS 17 34.06
 TACH 2.08 261 iP 17 12.57 0.3
 iS 17 37.49
 MRA 2.51 69 iPd 17 19.20 0.8
 LNV 2.52 255 iP 17 19.58 1.0
 iS 17 51.11
 LCCH 2.59 266 iP 17 20.88 1.3
 iS 17 53.43
 RTPR 3.46 29 ePc 17 33.90 1.9
 TCA 3.85 60 iP 17 37.00 -0.6
 (S) 17 48.00
 CYA 5.40 26 ePd 17 58.00 -1.5
 S 18 58.00
 FSA 7.55 17 e(P) 18 28.00 -1.6
 CNCB 16.47 2 P 20 29.40 -0.8

LPB 16.74 1 P 20 35.00 1.5
 ZOBO 17.00 1 P 20 35.20 -1.8
 SIV 18.53 23 eP 21 06.00 10.6X
 PPD 18.89 58 eP 21 01.30 1.5
 S.D. = 1.1 on 24 of 25 obs.

% APR 23, 1993 08h 48m 39.66 ± 0.76s
 68.188 N ± 7.7km 16.396 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN NORWAY (646)
 MD 2.7 (BER).

LOF 1.07 268 iPc 48 59.34 -0.4
 TRO 1.72 31 eP 49 10.70 1.0
 eSg 49 34.00
 MOR7 2.02 199 eP 49 14.97 0.9
 eSg 49 44.33
 NSD 3.16 161 eP 49 30.80 0.5
 0.1s 1.10nm
 ARA0 3.57 64 Pn 49 35.14 -1.0
 Pg 49 44.89
 NRA0 7.77 198 P 50 34.74 -0.6
 S 52 02.47
 FIA0 7.92 144 Pn 50 37.08 -0.4
 Sn 52 03.87
 Lg 52 48.67
 S.D. = 1.0 on 7 of 7 obs.

APR 23, 1993 09h 04m 29.99 ± 0.96s
 40.460 N ± 9.8km 21.861 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.9 (THE).

FNA 0.49 311 ePg 04 39.24 -0.7
 eSg 04 48.16
 LIT 0.60 126 ePg 04 42.00 -0.1
 GRG 0.64 39 ePg 04 42.28 -0.6
 VAY 1.01 32 ePn 04 55.30 6.1X
 OHR 1.04 309 eP 04 50.40 0.8
 KNT 1.05 48 ePg 04 50.56 0.7
 PAIG 1.49 110 iPb 04 56.80 0.0
 S.D. = 0.8 on 6 of 7 obs.

* APR 23, 1993 09h 21m 28.50 ± 1.08s
 40.463 N ± 12.5km 21.767 E ± 10.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.8 (THE).

FNA 0.44 317 ePg 21 36.56 -0.9
 eSg 21 44.10
 LIT 0.66 123 ePg 21 41.56 -0.1
 OHR 0.98 312 ePn 21 48.00 0.9
 VAY 1.05 35 ePn 21 48.40 0.1
 PAIG 1.56 109 ePb 21 56.30 0.0
 S.D. = 0.9 on 5 of 5 obs.

APR 23, 1993 09h 23m 02.56 ± 1.37s
 54.861 N ± 11.5km 153.578 W ± 6.2km
 DEPTH = 33.0km (normol)
 3.5mb (1 obs.)
 SOUTH OF ALASKA (17)
 ML 3.8 (AEIC).

KDC 2.96 11 ePd 23 48.17 0.0
 SYI 3.81 9 eP 24 00.99 0.6
 SDN 4.00 280 ePc 24 02.08 -1.0
 CDD 4.08 360 eP 24 05.11 0.9
 S 24 51.31
 MCNL 4.36 355 iP 24 08.57 0.5
 eS 24 56.09
 AUI 4.49 1 eP 24 11.37 1.4
 eS 25 00.21
 AUE 4.51 1 eP 24 11.56 1.3
 AUH 4.52 1 eP 24 11.56 1.1
 eS 25 01.34
 AUL 4.53 1 eP 24 12.46 1.8
 CNPM 4.85 14 eP 24 15.12 0.1
 S 25 07.66
 BRK 5.13 15 eP 24 18.43 -0.7
 INE 5.22 3 eP 24 20.90 0.4
 eS 25 17.50
 INW 5.23 2 eP 24 20.64 0.1
 eS 25 17.45
 RS1 5.63 4 eP 24 26.36 0.1

RSO 5.63 4 eS 25 28.09
 eP 24 26.35 0.0
 eS 25 27.93
 RS2 5.63 4 iP 24 26.43 0.1
 eS 25 28.56
 RDW 5.65 4 iP 24 26.58 0.0
 eS 25 29.36
 REF 5.66 4 eP 24 26.95 0.2
 NCT 5.73 3 eP 24 26.68 -0.9
 DFR 5.77 4 eP 24 26.98 -1.2
 SLKM 5.94 16 iP 24 29.36 -1.2
 NKA 6.03 11 eP 24 34.09 2.4
 MPA 6.08 20 eP 24 31.45 -1.0
 CKL 6.39 5 eP 24 36.43 -0.5
 SPU 6.39 7 eP 24 36.17 -0.7
 CKT 6.40 6 eP 24 36.57 -0.5
 BCL 6.45 5 eP 24 38.47 0.7
 CPAM 6.46 6 eP 24 37.84 0.0
 CP2 6.46 6 eP 24 38.31 0.3
 CRP 6.47 6 eP 24 37.59 -0.5
 PTE 6.49 20 eP 24 36.81 -1.4
 HIN 6.72 31 eP 24 40.58 -0.9
 SUA 6.79 12 eP 24 42.97 0.5
 CVA 7.07 33 eP 24 45.65 -0.7
 KAIM 7.09 41 eP 24 46.80 0.2
 SKT 7.22 8 eP 24 49.29 0.8
 RAGM 7.31 37 eP 24 49.55 -0.2
 VLZ 7.37 29 eP 24 49.91 -0.5
 SML 7.49 19 eP 24 51.87 -0.4
 SCM 7.72 23 eP 24 54.78 -0.8
 KLU 7.78 28 eP 24 56.17 -0.2
 SNH 7.86 43 eP 24 58.22 0.8
 CROM 8.12 39 eP 25 01.37 0.2
 TTA 8.19 352 ePc 25 01.06 -1.0
 TGL 8.23 40 eP 25 02.72 0.1
 GLB 8.37 34 eP 25 03.82 -0.7
 BALM 8.59 39 eP 25 07.45 -0.2
 CTGM 8.93 42 eP 25 12.19 -0.1
 FBA 10.48 14 eP 25 31.32 -2.1
 INK 16.39 27 eP 26 55.50 4.2X
 YKA 21.35 53 eP 27 51.30 2.6
 0.8s 1.70nm 3.5mb
 MBC 24.96 19 eP 28 28.00 4.2X
 S.D. = 0.9 on 50 of 52 obs.

? APR 23, 1993 09h 43m 00.43 ± 2.10s
 31.356 S ± 19.6km 68.627 W ± 13.6km
 DEPTH = 97.3 ± 20.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.14 79 ePc 43 14.20 -0.4
 S 43 24.00
 RTCB 0.20 229 eP 43 14.80 -0.1
 CFA 0.41 127 iPc 43 16.00 0.4
 S 43 28.00
 RTBS 0.77 246 e(P)c 43 18.50 0.1
 S 43 33.00
 RTPR 2.10 61 e(P) 43 35.20 0.5
 MRA 2.70 114 eP 43 43.00 0.3
 S 44 14.80
 TCA 3.45 91 eP 43 52.50 -0.7
 S.D. = 0.6 on 7 of 7 obs.

& APR 23, 1993 09h 51m 08.61s
 34.110 N 116.915 W
 DEPTH = 5.4km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.9 (PAS), 2.8 (GS).
 Felt (IV) at Forest Falls. Also
 felt at Highland.

PEC 0.30 223 iPd 51 14.33 -0.3
 SSK 0.65 279 iPc 51 20.92 -0.8
 eS 51 30.15
 PLM 0.76 177 iPd 51 22.73 -1.2
 eS 51 33.72
 GSC 1.19 4 iPd 51 30.58 -0.7
 eS 51 46.49
 ISA 2.01 321 eP 51 44.42 0.8
 eS 52 09.53
 GLA 2.04 121 ePn 51 42.20 -1.8
 BCH 2.82 293 (Pn) 51 55.70 0.4
 TPNV 2.88 11 ePg 52 02.11 5.9
 8 obs. associated

? APR 23, 1993 09h 57m 52.99 ± 0.96s
 39.746 N ± 8.5km 21.932 E ± 9.0km

DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.9 (THE).
 LIT 0.56 50 ePg 58 05.00 0.7
 eSg 58 14.84
 AGG 0.79 157 ePg 58 07.88 -0.4
 eSg 58 20.68
 FNA 1.12 338 ePg 58 13.28 -0.8
 IGT 1.25 261 ePb 58 16.80 0.5
 S.D. = 1.2 on 4 of 4 obs.

& APR 23, 1993 10h 05m 06.06s
 62.175 N 148.508 W
 DEPTH = 30.9km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.5 (AEIC).

SML 0.38 167 iPc 05 14.28 -0.5
 eS 05 21.31
 SCM 0.65 121 iPc 05 17.74 -1.3
 eS 05 28.34
 PMR 0.66 207 ePc 05 16.93 -2.0
 eS 05 26.11
 HUR 0.96 328 iPc 05 22.26 -1.1
 eS 05 35.01
 RND 1.25 353 iPc 05 26.41 -1.1
 eS 05 42.76
 SUA 1.28 237 ePd 05 27.08 -0.9
 eS 05 45.19
 PTE 1.34 191 iPc 05 27.59 -1.1
 eS 05 46.15
 KLU 1.41 118 iPc 05 28.55 -1.3
 eS 05 47.78
 SDG 1.43 74 eP 05 30.00 -0.1
 SKT 1.44 264 eP 05 29.15 -1.0
 eS 05 47.77
 TZL 1.46 94 ePd 05 30.57 0.1
 eS 05 50.56
 VLZ 1.47 134 ePc 05 28.76 -1.9
 eS 05 48.65
 TRF 1.52 328 iPc 05 30.26 -1.3
 MCK 1.58 353 iPc 05 31.56 -0.7
 PAX 1.62 59 ePd 05 32.74 -0.2
 eS 05 53.88
 MPA 1.74 194 ePc 05 33.15 -1.4
 eS 05 55.68
 SLKM 1.87 207 iPc 05 35.38 -1.1
 CGLM 1.88 244 eP 05 35.69 -1.0
 NKA 1.95 224 eP 05 37.75 0.2
 CPAM 1.96 244 eP 05 37.60 -0.3
 CRP 1.96 244 eP 05 38.40 0.4
 SPU 1.96 241 eP 05 37.49 -0.4
 CKN 1.99 243 eP 05 38.94 0.6
 CP2 2.00 244 eP 05 38.77 0.2
 CKT 2.02 243 eP 05 39.28 0.6
 HIN 2.03 151 iPc 05 37.05 -1.8
 BGL 2.06 245 eP 05 39.09 -0.3
 CKL 2.07 243 eP 05 39.73 0.2
 CVA 2.11 140 eP 05 38.53 -1.3
 WRH 2.31 4 eP 05 41.22 -1.6
 HDA 2.35 17 eP 05 42.13 -1.1
 GLB 2.35 106 eP 05 42.08 -1.3
 NEA 2.43 354 eP 05 43.65 -0.8
 CCB 2.50 7 eP 05 44.51 -1.0
 DOT 2.52 52 eP 05 45.42 -0.3
 DFR 2.56 234 eP 05 45.64 -0.8
 RAGM 2.58 132 eP 05 45.20 -1.4
 REF 2.64 232 eP 05 45.54 -2.0
 NCT 2.67 235 eP 05 47.54 -0.5
 RDW 2.68 233 eP 05 48.48 0.3
 FBA 2.75 6 ePc 05 46.74 -2.3
 MDM 2.80 2 eP 05 48.38 -1.3
 GLM 2.87 10 eP 05 50.17 -0.5
 CROM 2.94 117 eP 05 50.66 -1.2
 CNPM 2.97 208 eP 05 51.20 -1.0
 KAIM 3.01 137 eP 05 51.34 -1.3
 MLY 3.04 342 iPc 05 51.21 -1.9
 TGL 3.07 115 eP 05 52.12 -1.6
 BALM 3.16 108 eP 05 53.35 -1.5
 IMA 4.52 332 eP 06 10.95 -3.3
 50 obs. associated

* APR 23, 1993 10h 36m 45.04 ± 1.18s
 49.172 N ± 8.5km 6.880 E ± 11.7km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)

ML 2.1 (UCC).
 RUP 0.54 12 ePg 36 55.49 -0.5
 WLF 0.68 316 iPc 36 58.77 0.2
 IS 37 07.94
 ABH 0.83 31 ePg 37 00.55 -0.6
 TNS 1.46 43 ePnd 37 12.80 1.3
 eSn 37 31.20
 FEL 1.50 149 ePg 37 11.80 -0.3
 S.D. = 1.1 on 5 of 5 obs.

% APR 23, 1993 11h 04m 39.28 ± 0.75s
 44.389 N ± 6.6km 7.336 E ± 8.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.5 (GEN).

STV 0.14 183 P 04 42.60 -0.1
 S 04 44.56
 ENR 0.17 159 P 04 43.10 -0.2
 S 04 45.52
 PZZ 0.20 305 P 04 44.20 0.4
 S 04 47.68
 ROB 0.39 104 P 04 47.68 0.3
 S 04 53.76
 BHB 0.46 354 P 04 48.20 -0.4
 S.D. = 0.4 on 5 of 5 obs.

? APR 23, 1993 11h 06m 05.35 ± 1.02s
 37.481 N ± 9.8km 30.066 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

BCK 0.42 93 iPg 06 14.30 0.4
 eSg 06 22.80
 ELL 0.74 190 iPn 06 19.10 -0.9
 KHL 0.94 333 ePn 06 22.70 -0.7
 YER 1.46 257 ePn 06 33.00 1.2
 S.D. = 1.7 on 4 of 4 obs.

? APR 23, 1993 11h 07m 06.25 ± 3.45s
 38.187 N ± 56.2km 71.815 E ± 32.1km
 DEPTH = 33.0km (normol)
 4.0mb (3 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

MAIO 10.00 263 eP 09 31.00 0.2
 eS 11 11.00
 HFS 42.16 321 eP 14 56.80 -0.1
 0.4s 2.90nm 4.4mb
 NB2 43.44 322 P 15 07.20 -0.2
 0.7s 1.90nm 4.0mb
 MBC 65.62 3 eP 17 49.50 0.9
 INK 72.14 10 eP 18 30.00 1.1
 YKA 79.53 3 eP 19 08.80 -1.9
 0.7s 0.50nm 3.6mb
 S.D. = 1.4 on 6 of 6 obs.

APR 23, 1993 12h 14m 45.25 ± 0.16s
 44.485 N ± 2.1km 114.791 W ± 1.6km
 DEPTH = 5.0km (geophysicist)
 WESTERN IDAHO (33)
 ML 3.9 (GS), 4.0 (BUT). Felt
 (III) at Clayton and (II) at
 Challis.

MCMT 1.43 75 iPnc 15 12.23 0.1
 HBMT 2.02 49 iPnc 15 20.54 -0.1
 BGMT 2.09 68 ePn 15 21.47 -0.2
 LRM 2.13 50 ePn 15 21.94 -0.2
 BUT 2.19 45 ePn 15 22.97 -0.1
 iPg 15 27.10
 eSn 15 51.90
 eSg 15 55.66
 LCCM 2.46 56 ePnc 15 26.21 -0.7
 EBI 2.53 339 iPnc 15 27.94 0.1
 LNOR 2.83 301 Pd 15 32.91 0.8
 HRY 3.04 42 iPnd 15 34.40 -0.7
 HVU 3.08 151 eP 15 36.74 1.1
 S 16 17.41
 ET3 3.59 307 P 15 43.17 0.5
 JBO 3.71 287 P 15 44.67 0.1
 WIW 3.72 303 P 15 44.68 0.2
 PATW 3.78 293 P 15 45.44 0.0
 PRW 3.86 298 P 15 46.42 -0.2
 RSW 3.88 301 P 15 47.05 0.1

GBL 3.90 304 P 15 46.96 -0.2
 WRD 3.93 311 P 15 47.66 0.1
 CRF 3.98 308 P 15 48.93 0.7
 OD2 3.99 318 P 15 48.76 0.3
 WAH2 4.05 306 P 15 49.35 0.2
 MDW 4.09 303 P 15 50.16 0.4
 NEW 4.11 338 ePn 15 49.65 -0.4
 ePg 16 01.29
 S 16 54.51

DPW 4.13 326 ePn 15 50.68 0.2
 ePg 16 01.86
 S 16 54.95

VTHM 4.16 282 P 15 51.43 0.5
 BW06 4.17 112 eP 15 52.86 1.8
 BRVW 4.17 300 P 15 51.07 0.1
 VIPM 4.17 272 P 15 51.06 0.0
 BVW 4.26 305 P 15 52.33 0.0
 VGB 4.37 286 ePnc 15 53.20 -0.7
 MXC 4.40 300 P 15 54.74 0.5
 CROR 4.44 279 P 15 55.04 0.1
 GL2 4.51 291 P 15 54.92 -0.9
 YAKW 4.52 299 P 15 56.58 0.6
 DUG 4.53 160 eP 15 55.27 -0.9
 S 17 01.36

EBG 4.72 303 P 15 59.21 0.4
 NAC 4.79 300 P 15 59.89 0.0
 VFP 4.81 282 P 15 59.75 -0.6
 DAU 4.84 146 (P) 16 00.73 0.0
 TBM 4.87 306 P 16 00.93 0.0
 VBEM 4.87 279 P 16 01.25 0.1
 ETW 4.96 311 P 16 01.82 -0.5

GULW 5.02 289 P 16 03.06 -0.1
 TDH 5.04 282 P 16 04.29 0.9
 ASR 5.08 292 P 16 03.45 -0.5
 GLK 5.22 296 P 16 05.71 -0.3
 WPW 5.23 297 P 16 06.25 0.1
 RCS 5.42 299 P 16 09.21 0.2
 LON 5.42 297 P 16 08.51 -0.3
 LON 5.42 297 ePc 16 08.06 -0.7
 REMR 5.47 298 P 16 09.47 -0.1
 GSM 5.60 302 P 16 10.49 -0.8
 RVC 5.60 299 P 16 11.17 -0.1

KVN 5.97 206 (P) 16 16.19 -0.4
 SRU 6.24 148 eP 16 20.97 0.5
 S 17 56.68

MSU 6.28 161 (P) 16 20.18 -0.9
 S 18 01.37
 TNP 6.65 197 (P) 16 25.64 -0.7
 ARUT 6.77 171 eP 16 28.04 0.2
 S 18 23.60

RSSD 7.72 89 (P) 16 41.41 0.1
 Lg 18 49.77
 YKA 18.04 0 eP 18 54.70 -3.4X
 0.8s 0.60nm 2.8mb
 S.D. = 0.5 on 59 of 60 obs.

? APR 23, 1993 12h 31m 19.68 ± 3.48s
 42.887 N ± 30.4km 23.996 E ± 12.1km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 3.1 (THE).

SRS 1.79 190 ePb 31 50.90 0.0
 iSb 32 12.82
 VAY 1.89 215 iPn 31 53.40 1.1
 KNT 1.91 206 ePb 31 52.70 0.1
 eSb 32 15.90

SKO 2.10 245 ePn 31 55.00 -0.4
 i 32 29.50
 SOH 2.12 193 ePn 31 54.66 -1.0
 GRG 2.27 212 ePn 31 57.74 0.0
 ALN 2.51 142 iPn 32 01.30 0.2
 eSn 32 33.94

OHR 2.97 234 eP 32 26.70 18.9X
 S.D. = 0.8 on 7 of 8 obs.

APR 23, 1993 12h 49m 39.66 ± 0.35s
 44.255 N ± 4.0km 17.486 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 3.9mb (1 obs.)

NORTHWESTERN BALKAN REGION (383)
 ML 3.4 (TTG).

BRY 1.56 150 iPg 50 06.06 -1.5
 iSg 50 25.74
 PLE 1.66 123 iPg 50 09.05 0.0
 iSg 50 31.15

23d 12h

NKY 1.81 142 iPgc 50 11.42 0.2
 iSg 50 34.54
 HCY 1.95 157 iPnc 50 13.74 0.6
 iSn 50 38.27
 iSn 50 42.00
 VBY 2.02 309 iPnd 50 14.80 0.7
 iSn 50 42.00
 BDV 2.20 153 iPnc 50 17.31 0.5
 iSn 50 44.20
 IVA 2.23 127 iPnc 50 17.95 0.6
 iSn 50 46.29
 TTG 2.24 144 iPnc 50 17.80 0.5
 iSn 50 45.05
 PVY 2.46 132 iPnc 50 21.20 0.7
 iSn 50 51.31
 CEY 2.63 305 ePn 50 23.00 0.1
 e 50 31.50
 e(Sn) 50 57.00
 ULC 2.63 150 iPnd 50 23.32 0.4
 iSn 50 54.45
 LJU 2.75 312 e(Pn) 50 27.50 2.9X
 eSn 51 02.00
 TRI 3.01 300 P 50 34.70 6.4X
 VOY 3.10 306 ePnd 50 32.70 3.1X
 eSn 51 10.30
 eSg 51 18.70
 BZS 3.23 64 ePc 50 31.00 -0.4
 ARV 3.37 259 P 50 34.50 1.1
 DUI 3.41 222 P 50 33.40 -0.7
 eSn 51 07.70
 SRO 3.61 9 iP 50 35.60 -1.1
 SKO 3.69 127 ePn 50 38.70 0.8
 i 50 46.20
 i 51 31.50
 ASS 3.70 253 P 50 39.20 1.1
 SDI 3.71 228 P 50 37.00 -1.3
 ZST 3.95 356 eP 50 40.70 -0.9
 MNS 3.97 244 P 50 41.30 -0.7
 OHR 3.98 141 ePn 50 45.60 3.5X
 CRE 4.05 263 P 50 43.00 0.0
 KBA 4.05 316 iPd 50 43.90 0.7
 i 51 47.60
 MGR 4.36 200 P 50 45.30 -2.1
 WTTA 5.08 308 iP 51 00.00 2.2
 GEC2 5.28 332 ePgc 50 59.60 -1.0
 1.1s 3.38nm 3.9mb
 KHC 5.57 333 eP 51 04.00 -0.6
 e 52 27.00
 S.D. = 1.0 on 26 of 30 obs.

? APR 23, 1993 13h 14m 19.39±8.00s
 58.138 N ±72.5km 6.417 E ±28.8km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.6 (BER).

KMY 1.24 331 eP 14 41.98 -0.4
 eSg 14 57.97
 ODD1 1.78 3 eP 14 51.26 0.8X
 eSg 15 12.64
 EGD 2.23 345 eP 14 56.98 0.2
 eSg 15 26.14
 ASK 2.43 346 eP 15 00.19 0.4
 eS 15 27.94
 HYA 3.04 358 eP 15 09.84 1.5X
 NRA0 3.69 43 ePn 15 17.47 -0.2
 ePg 15 26.82
 eSn 16 00.24
 eLg 16 12.22
 HFS 4.25 59 eP 15 25.80 0.2
 0.1s 0.40nm
 FIA0 10.43 63 eP 16 51.80 -0.1
 S.D. = 0.4 on 6 of 8 obs.

* APR 23, 1993 13h 19m 19.99±0.67s
 3.777 S ±9.5km 151.885 E ±16.2km
 DEPTH = 33.0km (normal)
 4.2mb (5 obs.) 4.3Msz (1 obs.)
 NEW IRELAND REGION, P.N.G. (190)

RAB 0.50 146 iPd 19 31.00 0.4
 0.8s 835.82nm
 CTA 17.12 198 iPc 23 18.10 -0.4
 RMO 22.78 187 eP 24 19.30 -1.6X
 DZM 23.03 143 iPc 24 30.00 6.6X
 WB2 23.46 225 iPc 24 22.40 -5.2X
 0.6s 4.70nm 4.2mb
 eS 27 31.30

iPcP 27 42.00
 STK 29.58 198 eP 25 24.20 0.0
 0.8s 1.90nm 3.9mb
 MDJ 52.15 340 eP 28 25.00 -4.5X
 XAN 55.26 316 P 28 53.00 0.4
 0.9s 3.80nm 4.4mb
 CHG 56.73 295 eP 28 58.50 -4.9X
 LZH 59.86 316 eP 29 25.50 0.3
 1.5s 16.00nm 4.9mb
 Z 20s 0.25um 4.3Msz
 INK 87.83 21 eP 32 07.50 0.6
 YKA 94.95 28 eP 32 38.70 -1.3
 1.0s 0.90nm 4.2mb
 S.D. = 0.8 on 7 of 12 obs.

APR 23, 1993 13h 55m 00.35±0.54s
 41.195 N ±5.8km 21.979 E ±3.9km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.1 (THE), 1.7 (SKO).

GRG 0.40 127 ePg 55 08.02 -0.5
 eSg 55 14.06
 VAY 0.46 74 iPg 55 09.60 -0.2
 iSg 55 16.50
 FNA 0.61 228 ePg 55 12.17 -0.6
 eSg 55 21.46
 KNT 0.69 92 iPg 55 13.57 -0.5
 eSg 55 23.38
 SKO 0.88 333 iPg 55 17.60 0.4
 0.3s 29.00nm
 i 55 29.00
 OHR 0.89 265 ePg 55 17.40 -0.1
 eSg 55 32.10
 SOH 1.11 109 iPg 55 21.26 0.1
 LIT 1.16 160 ePb 55 22.66 0.6
 SRS 1.22 93 ePb 55 22.98 -0.1
 PAIG 1.81 134 ePb 55 32.70 0.9
 S.D. = 0.6 on 10 of 10 obs.

* APR 23, 1993 14h 08m 39.29±1.10s
 53.074 N ±17.3km 161.373 W ±12.4km
 DEPTH = 33.0km (normal)
 3.7mb (5 obs.)
 SOUTH OF ALASKA (17)
 ML 3.5 (AEIC).

SDN 2.33 12 eP 09 16.68 0.6
 eS 09 43.18
 MCNL 7.28 30 eP 10 25.83 -0.1
 CDD 7.29 33 eP 10 26.39 0.2
 CNPM 8.57 37 eP 10 44.12 0.1
 S 12 11.37
 RS1 8.78 29 eP 10 47.37 0.3
 RS2 8.78 29 eP 10 47.78 0.7
 RDW 8.78 29 eP 10 47.28 0.2
 RSO 8.78 29 eP 10 48.08 1.0
 CKL 9.50 27 eP 10 56.40 -0.5
 BGL 9.54 27 eP 10 57.79 0.4
 SPU 9.57 28 eP 10 58.23 0.5
 SLKM 9.63 35 eP 10 58.94 0.4
 MPA 9.92 37 eP 11 02.38 -0.1
 SUA 10.18 30 eP 11 05.26 -0.9
 PTE 10.30 36 eP 11 07.32 -0.4
 SKT 10.37 27 eP 11 08.20 -0.5
 HIN 10.96 42 eP 11 15.40 -1.4
 SML 11.20 33 eP 11 18.21 -1.9
 CVA 11.35 43 eP 11 20.92 -1.1
 SCM 11.56 35 eP 11 23.95 -1.0
 RAGM 11.71 45 eP 11 26.57 -0.4
 KLU 11.85 39 eP 11 28.01 -0.8
 GLB 12.64 42 eP 11 38.62 -0.7
 TGL 12.68 45 eP 11 40.67 0.6
 BALM 13.03 45 eP 11 44.21 -0.4
 INK 20.18 30 eP 13 15.50 2.3
 0.8s 2.00nm 3.5mb
 YKA 26.08 50 eP 14 13.90 2.8
 0.8s 0.90nm 3.4mb
 MBC 28.17 20 eP 14 32.00 2.0
 0.8s 1.00nm 3.6mb
 pP 14 43.00 4.1kmX
 NB2 66.08 4 P 19 24.90 0.3
 0.8s 1.40nm 4.1mb
 HFS 67.08 3 eP 19 30.40 -0.5
 0.4s 1.70nm 4.5mb
 GUN 80.51 304 PKP 20 49.60 -0.2
 KKN 80.91 305 PKP 20 52.20 0.4

PKI 81.03 304 PKP 20 51.00 -1.5
 GKN 81.05 305 PKP 20 52.00 -0.4
 DMN 81.14 305 PKP 20 52.80 -0.3
 S.D. = 1.0 on 35 of 35 obs.

& APR 23, 1993 15h 08m 17.59s
 61.644 N 150.667 W
 DEPTH = 52.5km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.9 (AEIC), 3.0
 (PMR). Felt (III) at Skwentna.

SUA 0.18 191 iPc 08 26.66 0.3
 eS 08 34.36
 PWA 0.38 89 iPc 08 27.90 0.2
 SKT 0.53 310 iPd 08 28.69 -0.8
 PMS 0.67 127 iPc 08 30.70 -0.5
 CGLM 0.73 243 iPd 08 31.56 -0.4
 eS 08 42.69
 PMR 0.74 93 ePd 08 30.88 -1.1
 S 08 41.84
 CPAM 0.81 242 iPd 08 32.58 -0.5
 CRP 0.81 243 iPd 08 32.61 -0.5
 eS 08 44.86
 SPU 0.81 236 iPd 08 32.28 -0.8
 iS 08 44.23
 CKN 0.84 241 iPd 08 32.96 -0.5
 CP2 0.85 244 iPd 08 33.12 -0.6
 CKT 0.86 240 iPd 08 32.97 -0.8
 eS 08 45.42
 BGL 0.91 246 iPd 08 33.72 -0.7
 CKL 0.92 242 iPd 08 33.72 -0.9
 NKA 0.95 197 iPd 08 35.97 1.2
 PTE 1.11 134 iPd 08 36.33 -0.8
 eS 08 51.98
 SML 1.12 81 iPd 08 36.61 -0.7
 eS 08 51.73
 SLKM 1.16 169 iPd 08 36.68 -1.1
 MPA 1.32 151 eP 08 39.12 -0.9
 eS 08 56.21
 HUR 1.42 19 eP 08 41.02 -0.4
 eS 09 00.16
 DFR 1.44 224 iPd 08 40.86 -0.9
 eS 08 59.46
 RDN 1.52 223 eP 08 42.08 -0.9
 NCT 1.55 226 ePd 08 42.58 -0.7
 eS 09 02.39
 RSO 1.56 221 iPd 08 42.79 -0.8
 eS 09 03.18
 RS2 1.56 222 ePd 08 42.80 -0.8
 RDW 1.56 223 iPd 08 42.86 -0.7
 RS1 1.56 221 iPd 08 42.85 -0.7
 SCM 1.60 82 iPd 08 43.01 -1.0
 TRF 1.82 5 eP 08 46.06 -1.2
 RND 1.96 25 eP 08 48.01 -1.0
 INE 1.97 217 eP 08 48.35 -1.0
 INW 1.99 218 eP 08 48.43 -1.1
 CNPM 2.14 188 eP 08 51.49 -0.1
 VLZ 2.15 102 eP 08 49.44 -2.1
 KLU 2.28 92 iPd 08 51.48 -2.0
 OPT 2.36 213 eP 08 54.44 -0.3
 HIN 2.38 120 eP 08 52.15 -2.8
 SVW 2.45 259 eP 08 53.50 -2.4
 TZL 2.52 79 ePd 08 56.09 -0.8
 SDG 2.57 68 ePd 08 56.57 -1.0
 CVA 2.63 113 eP 08 55.43 -3.0
 AUL 2.65 212 eP 08 57.13 -1.6
 AUE 2.65 211 eP 08 58.48 -0.3
 AUH 2.67 212 eP 08 58.06 -0.2
 AUI 2.69 212 P 09 00.80 1.5
 PAX 2.77 59 iPc 08 59.49 -1.0
 TTA 2.81 300 eP 08 58.67 -2.5
 MCNL 3.07 218 eP 09 02.96 -1.7
 WRH 3.07 21 eP 09 03.70 -1.1
 CDD 3.10 210 eP 09 03.61 -1.6
 SYI 3.16 197 eP 09 04.37 -1.7
 RAGM 3.18 111 eP 09 03.61 -2.7
 HDA 3.25 30 ePc 09 05.55 -1.7
 CCB 3.28 22 eP 09 06.45 -1.3
 GLB 3.29 91 eP 09 05.23 -2.7
 MLY 3.40 359 eP 09 07.51 -2.0
 FBA 3.52 20 ePc 09 08.61 -2.4
 GLM 3.67 22 P 09 09.50 -3.7
 CROM 3.75 100 eP 09 12.26 -2.3
 TGL 3.90 100 eP 09 13.65 -2.8
 BALM 4.06 95 eP 09 16.45 -2.3
 CTGM 4.55 94 eP 09 23.23 -2.5

IMA 4.64 345 eP 09 22.80 -4.1
eLg 10 13.83
63 obs. associated

% APR 23, 1993 15h 11m 38.32 ± 0.81s
26.366 S ± 6.4km 27.414 E ± 8.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

PRY 0.56 175 eP 11 48.50 -1.1
S 11 54.00
KSR 0.68 317 eP 11 51.50 -0.5
S 11 59.00
SLR 1.00 51 eP 11 58.10 0.2
S 12 10.00
SEK 1.96 175 iPc 12 12.70 0.0
S 12 36.60
SWZ 2.04 246 eP 12 13.90 0.1
S 12 38.00
BLF 2.94 201 e(P) 12 28.00 1.3
S.D. = 1.0 on 6 of 6 obs.

APR 23, 1993 16h 01m 12.42 ± 1.55s
32.095 S ± 9.9km 70.119 W ± 9.4km
DEPTH = 150.4 ± 15.5 km
CHILE-ARGENTINA BORDER REGION (127)
MD 3.7 (SAN).

JACH 0.71 214 iP 01 34.65 -0.8
iS 01 50.07
RTBS 0.71 53 iPd 01 35.30 0.1
S 01 50.00
PEL 1.15 204 iP 01 38.53 -0.4
iS 01 55.77
FCH 1.24 187 iP 01 40.20 0.1
iS 01 58.55
RTC8 1.28 62 iPd 01 40.20 0.0
S 02 01.00
MDZ 1.33 127 iP 01 40.70 0.0
iS 01 59.50
PCH 1.56 192 iP 01 43.52 0.5
iS 02 05.35
RTLL 1.60 62 iPc 01 43.50 0.0
S 02 04.50
CFA 1.67 74 ePc 01 44.70 0.5
S 02 06.00
TACH 1.70 204 iP 01 44.48 0.0
iS 02 06.82
LCCH 1.84 221 iP 01 46.57 0.5
CHCH 1.89 194 iP 01 46.95 0.3
iS 02 11.11
LNV 2.15 210 iP 01 49.43 -0.3
iS 02 15.85
RFA 3.01 153 eP 02 00.30 -0.2
S 03 09.00
MRA 3.75 96 ePd 02 10.00 0.0
TCA 4.77 82 iP 02 23.30 -0.4
(S) 03 14.50
S.D. = 0.4 on 16 of 16 obs.

% APR 23, 1993 16h 05m 34.93 ± 0.55s
44.378 N ± 5.1km 7.318 E ± 5.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV 0.13 178 Pc 05 38.30 0.1
S 05 40.18
ENR 0.17 154 Pc 05 38.87 0.1
S 05 41.33
PZZ 0.20 309 Pd 05 39.98 0.6
S 05 43.19
ROB 0.40 102 P 05 43.58 0.3
S 05 49.57
BHB 0.47 355 Pd 05 43.81 -0.6
S 05 51.13
IMI 0.62 138 Pd 05 46.91 -0.6
S 05 54.71
FIN 0.66 104 Pd 05 47.81 -0.3
S 05 56.61
RRL 0.66 325 P 05 48.14 -0.2
S 05 57.56
PCP 0.89 79 P 05 52.71 0.6
S 06 04.59
S.D. = 0.5 on 9 of 9 obs.

APR 23, 1993 16h 35m 40.43 ± 0.34s
13.304 S ± 8.0km 44.582 E ± 8.8km
DEPTH = 10.0km (geophysicist)
5.0mb (52 obs.) 4.4Msz (7 obs.)
NORTHWEST OF MADAGASCAR (574)

NAI 14.22 327 iP 39 03.00 -1.3
Z 20s 0.99um
iS 41 45.00
SUL 16.73 244 iPd 39 37.50 0.8
1.0s 41.50nm 4.5mb
i 39 41.90
i 43 13.90
BFT 18.41 226 iPd 39 55.70 -2.0
1.2s 100.00nm 4.9mb
SLR 19.69 229 iPc 40 11.60 -1.6
1.3s 80.00nm 4.9mb
Z 18s 5.42um 5.8Msz
e 43 50.00
KSR 20.79 230 iPc 40 24.00 -0.7
0.5s 83.00nm 5.4mb
PRY 20.98 227 eP 40 25.00 -1.6
1.3s 80.00nm 4.9mb
e 44 25.00
BFS 21.46 228 iPc 40 31.80 0.4
0.6s 123.00nm 5.5mb
SEK 21.74 224 iPc 40 34.60 0.4
0.5s 158.00nm 5.7mb
SWZ 22.69 230 iPd 40 43.70 0.0
0.7s 77.00nm 5.3mb
BLF 23.21 224 eP 40 49.10 0.3
0.8s 16.00nm 4.6mb
FRS 24.20 224 iPc 40 59.30 1.1
0.7s 55.00nm 5.3mb
WIN 27.68 247 iPd 41 33.00 2.0
1.0s 60.00nm 5.3mb
e 49 59.00
SUR 28.87 225 iPc 41 51.00 9.3X
0.9s 259.00nm 6.0mb
CER 30.48 225 iPd 41 53.00 -2.8X
0.7s 55.00nm 5.5mb
TUH 30.54 225 iPd 41 48.00 -8.3X
0.6s 12.00nm 4.9mb
BLE 31.23 225 iPd 42 04.00 1.6
1.0s 122.00nm 5.8mb
GBA 42.12 52 P 43 34.00 -0.7
HYB 45.35 49 eP 44 03.00 2.1
QUE 48.31 26 eP 44 25.30 1.0
VAN 52.54 13 eP 44 54.80 -1.4
GRS 52.55 2 eP 44 57.00 0.6
KIC 52.73 289 P 45 04.78 6.7X
LIC 52.95 288 P 45 06.08 6.5X
Z 20s 0.32um 4.4Msz
TIC 53.10 289 P 45 07.50 6.8X
KIV 57.01 358 iPd 45 28.70 -0.1
1.5s 28.00nm 5.1mb
Z 19s 0.30um 4.4Msz
PYA 57.07 359 eP 45 29.00 -0.1
i 45 38.00
VAY 58.03 341 eP 45 39.00 3.1X
SKO 58.99 340 iP 45 46.20 3.6X
KSH 60.09 28 P 45 54.00 3.6X
1.0s 30.00nm 5.4mb
Z 26s 0.83um 4.8MszX
NVL 60.85 192 iPc 45 56.00 1.0
0.8s 52.00nm 5.7mb
VRI 61.06 346 ePd 46 01.50 4.8X
LSA 61.99 46 eP 46 02.70 -1.2
1.0s 3.00nm 4.4mb
FRU 62.28 25 (P) 46 05.20 0.1
2.0s 40.00nm 5.3mb
e 46 16.00
e 46 37.80
CHG 62.35 60 eP 46 03.50 -2.4
VBY 64.26 338 e(P) 46 23.50 5.5X
CEY 64.77 337 e(P) 46 28.00 6.7X
SRO 65.20 341 eP 46 30.80 6.8X
VOY 65.21 337 eP 46 29.20 4.9X
e 46 52.00
SPC 65.83 343 eP 46 33.20 4.9X
ZST 65.92 340 eP 46 34.00 5.3X
KBA 66.30 337 iPd 46 35.90 4.6X
i 46 39.00
i 46 47.00
WTTA 67.11 336 i(P) 46 44.60 8.1X
MOTA 67.38 336 i(P) 46 45.10 6.9X
GEC2 67.65 338 eP 46 43.10 3.3X

1.2s 7.26nm 4.8mb
e 46 46.50
e 46 49.90
e 46 52.90
LPG 67.77 332 eP 46 45.30 4.4X
0.9s 8.70nm 4.9mb
LPL 67.80 332 eP 46 45.40 4.5X
0.8s 7.10nm 4.9mb
KHC 67.93 339 eP 46 45.00 3.5X
e 46 54.50
KMI 68.34 56 Pc 46 49.50 4.8X
1.5s 50.00nm 5.5mb
pP 46 56.00 21kmX
OBN 68.47 355 eP 46 49.00 4.4X
1.2s 18.00nm 5.1mb
Z 20s 0.30um 4.5Msz
WMO 69.11 32 P 46 50.60 1.7
1.5s 8.00nm 4.7mb
pP 46 56.60 19kmX
sP 47 00.60
PcP 47 16.40
EPF 69.15 327 eP 46 56.00 6.9X
0.8s 6.30nm 4.8mb
GRF 69.26 338 e(P) 46 58.00 8.4X
BRG 69.28 340 e(P) 46 57.40 7.7X
BSF 69.55 334 eP 46 56.40 4.8X
0.9s 7.20nm 4.8mb
CAF 69.58 329 eP 46 57.50 5.8X
1.0s 15.40nm 5.1mb
CDF 69.79 335 eP 46 57.70 4.7X
1.0s 6.80nm 4.7mb
LPO 69.85 329 eP 46 59.00 5.7X
0.6s 3.50nm 4.7mb
HAU 69.87 334 eP 46 57.30 3.9X
1.1s 14.90nm 5.0mb
Z 20s 0.10um 4.1Msz
MOX 69.90 338 e(P) 47 01.40 7.9X
CLL 69.97 340 eP 47 02.00 8.1X
SMF 69.97 331 eP 46 58.50 4.5X
0.8s 5.90nm 4.8mb
RJF 70.13 329 eP 47 01.40 6.4X
0.9s 11.45nm 5.0mb
Z 20s 0.25um 4.5Msz
LBF 70.16 332 eP 47 00.40 5.2X
LFF 70.26 328 eP 47 02.30 6.5X
1.1s 25.90nm 5.3mb
AVF 70.31 331 eP 47 01.30 5.2X
BGF 70.38 331 eP 47 02.10 5.6X
ARU 70.42 8 eP 46 56.50 -0.1
e 47 05.00
LOR 70.43 332 eP 47 02.20 5.4X
1.1s 14.40nm 5.0mb
Z 22s 0.25um 4.4Msz
SSF 70.44 332 eP 47 02.00 5.2X
1.0s 7.60nm 4.8mb
TCF 70.49 330 eP 47 03.40 6.2X
1.2s 19.05nm 5.1mb
LSF 70.79 330 eP 47 04.50 5.5X
SVE 71.12 9 ePd 47 04.00 3.2X
CD2 71.83 51 eP 47 07.20 1.5
GTA 73.41 42 eP 47 15.50 0.6
1.5s 21.00nm 5.0mb
pP 47 21.50 19kmX
sP 47 26.00
LZH 74.40 46 eP 47 27.00 6.2X
1.0s 22.00nm 5.1mb
pP 47 32.00 16kmX
NUR 75.28 350 eP 47 24.80 -0.3
0.4s 1.30nm 4.3mb
ELT 75.28 24 iPc 47 24.80 -0.4
1.6s 44.00nm 5.3mb
NVS 75.33 22 eP 47 24.50 -1.0
1.9s 65.00nm 5.4mb
KAF 76.53 351 eP 47 32.10 -0.1
0.6s 2.50nm 4.5mb
XAN 77.13 50 P 47 34.60 -1.6
1.5s 25.00nm 5.1mb
HFS 77.28 345 eP 47 36.50 0.1
0.4s 0.50nm 3.9mb X
Z 19s 0.11um 4.2Msz
LR 17 17.00
UER 77.53 29 eP 47 39.00 1.2
NB2 78.70 344 P 47 51.90 7.7X
0.9s 2.00nm 4.2mb
EKA 79.26 335 Pd 47 57.00 9.7X
0.9s 6.10nm 4.6mb
BTO 80.80 45 eP 48 01.00 5.0X

23d 16h

MOY 81.00 32 eP 48 02.00 5.4X
 ZAK 81.48 34 eP 48 03.00 3.8X
 1.6s 17.00nm 4.9mb
 HHC 81.96 45 eP 48 03.80 1.7
 ASPA 84.15 113 iPd 48 12.70 -1.0
 0.8s 11.70nm 5.2mb
 BJI 84.87 47 eP 48 20.00 3.3X
 1.0s 11.00nm 5.0mb
 WRA 85.33 109 P 48 19.20 -0.4
 0.7s 10.80nm 5.2mb
 WB2 85.34 109 iPc 48 18.90 -0.7
 0.7s 15.10nm 5.3mb
 BAO 88.90 254 (P) 48 41.00 3.9X
 YKA 128.68 348 ePKP 54 53.40 4.2X
 0.6s 0.50nm
 BW06 143.10 328 ePKP 55 20.55 3.6X
 HVU 145.46 329 ePKP 55 23.97 3.1X
 VGB 145.57 342 ePKP 55 26.68 5.9X
 DAU 145.67 326 ePKP 55 24.98 3.5X
 ALO 146.11 314 ePKP 55 25.02 2.8X
 SRU 146.17 324 ePKP 55 24.71 2.5X
 MSU 147.51 325 ePKP 55 27.65 3.3X
 TUC 150.57 314 ePKP 55 32.97 3.9X
 S.D. = 1.2 on 39 of 102 obs.

% APR 23, 1993 16h 48m 55.44 ± 0.68s
 44.355 N ± 6.0km 7.307 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

STV 0.11 174 P 48 58.58 0.2
 S 49 00.55
 ENR 0.15 148 P 48 59.13 0.1
 S 49 01.56
 PZZ 0.21 316 P 49 00.23 0.1
 S 49 03.61
 ROB 0.41 98 P 49 04.25 0.4
 S 49 09.79
 BHB 0.49 356 P 49 05.17 -0.2
 S 49 11.43
 IMI 0.61 136 P 49 07.27 -0.5
 S 49 15.05
 FIN 0.66 102 P 49 08.56 -0.1
 S 49 17.07
 S.D. = 0.4 on 7 of 7 obs.

* APR 23, 1993 16h 49m 09.73 ± 2.41s
 31.892 S ± 21.6km 69.989 W ± 18.2km
 DEPTH = 151.3 ± 20.5 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 3.6 (SAN).

RTBS 0.51 63 iPd 49 31.40 -0.1
 S 49 44.10
 JACH 0.94 213 iP 49 34.22 -0.3
 iS 49 50.72
 RTCB 1.09 69 ePd 49 36.00 0.2
 S 49 51.50
 PEL 1.38 205 iP 49 38.33 -0.2
 iS 49 57.37
 FCH 1.45 190 iP 49 39.68 0.1
 iS 50 00.21
 CFA 1.52 80 ePc 49 40.00 0.1
 S 49 59.90
 PCH 1.78 194 iP 49 43.02 0.1
 iS 50 07.32
 TACH 1.93 204 iP 49 44.50 0.0
 iS 50 09.34
 LCCH 2.07 220 iP 49 46.60 0.5
 CHCH 2.11 195 iP 49 46.89 0.2
 iS 50 13.68
 LNV 2.38 210 iP 49 49.35 -0.5
 iS 50 17.79
 TCA 4.64 85 iP 50 19.10 -0.1
 S.D. = 0.3 on 12 of 12 obs.

APR 23, 1993 16h 52m 34.12 ± 1.03s
 21.211 S ± 8.0km 69.241 W ± 9.6km
 DEPTH = 128.6 ± 13.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 3.9 (SAN).

RTCB 0.47 126 iPd 52 52.70 -0.5
 S 53 02.20

RTBS 0.48 202 iPd 52 52.60 -0.5
 RTLL 0.67 100 iPc 52 53.80 -0.7
 S 53 04.00
 RTCV 0.88 137 iPd 52 56.00 -0.2
 CFA 0.94 115 iPc 52 57.00 0.3
 S 53 11.30
 RTRS 1.05 350 iPd 52 58.60 0.9
 MDZ 1.70 169 iP 53 05.90 1.0
 iS 53 30.50
 JACH 1.86 218 iP 53 07.30 0.4
 PEL 2.28 212 iP 53 12.20 0.1
 (S) 53 38.19
 FCH 2.29 203 iP 53 13.66 1.2
 iS 53 43.32
 PCH 2.63 204 iP 53 17.19 0.6
 (S) 53 50.27
 TACH 2.83 210 iP 53 18.65 -0.4
 CHCH 2.96 203 iP 53 21.06 0.2
 LCCH 3.00 221 (P) 53 20.44 -0.8
 iS 53 51.00
 LNV 3.29 213 iP 53 23.69 -1.5
 CYA 4.07 48 eP 53 35.40 -0.3
 (S) 54 20.70
 S.D. = 0.8 on 16 of 16 obs.

% APR 23, 1993 17h 20m 22.16 ± 1.18s
 39.351 N ± 10.9km 23.019 E ± 10.1km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.5 (THE).

AGG 0.63 239 ePg 20 34.80 0.0
 iSg 20 45.84
 PAIG 0.77 41 ePg 20 37.20 0.1
 eSg 20 48.24
 LIT 0.85 332 ePg 20 38.36 -0.2
 eSg 20 52.12
 OUR 1.23 37 ePb 20 44.76 -0.3
 eSb 21 00.76
 SOH 1.49 10 ePb 20 49.08 0.1
 KNT 1.81 357 iPb 20 53.98 0.4
 eSb 21 17.30
 S.D. = 0.3 on 6 of 6 obs.

* APR 23, 1993 17h 42m 46.59 ± 0.69s
 8.984 N ± 10.9km 126.487 E ± 14.6km
 DEPTH = 33.0km (normal)
 4.5mb (8 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

SSE 22.55 348 Pd 47 47.00 1.9
 0.8s 9.00nm 4.3mb
 WB2 29.77 165 eP 48 52.20 -0.4
 0.5s 2.20nm 4.2mb
 SNY 32.81 356 Pd 49 20.40 1.4
 0.9s 21.00nm 5.0mb
 CN2 34.70 359 eP 49 35.40 0.0
 0.6s 3.70nm 4.5mb
 epP 49 41.00 19kmX
 WARB 34.96 180 eP 49 38.70 0.9
 0.4s 4.00nm 4.7mb
 MDJ 35.60 4 eP 49 42.00 -1.1
 GUN 42.61 302 P 50 42.00 0.0
 0.9s 31.00nm 5.0mb
 PKI 42.90 301 P 50 44.00 -0.4
 KKN 43.08 301 P 50 45.60 -0.1
 DMN 43.17 301 P 50 46.40 -0.1
 GKN 43.69 301 P 50 48.00 -2.5
 HYB 47.31 285 eP 51 20.00 0.6
 GBA 48.26 280 P 51 28.00 1.2
 INK 85.40 22 eP 55 19.50 -2.1
 KAF 86.86 332 eP 55 28.90 0.0
 0.3s 0.70nm 4.4mb
 NUR 88.02 331 eP 55 34.30 -0.2
 YKA 94.84 24 eP 56 07.20 1.0
 0.6s 1.10nm 4.5mb
 S.D. = 1.2 on 17 of 17 obs.

% APR 23, 1993 19h 57m 49.28 ± 0.78s
 26.375 S ± 5.9km 27.371 E ± 7.5km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.6 (PRE).

PRY 0.56 171 eP 57 59.50 -1.0
 S 58 06.00
 KSR 0.66 320 eP 58 02.00 -0.6

BFS 0.74 225 eP 58 12.00
 S 58 04.50 0.4
 S 58 13.70
 SLR 1.04 52 eP 58 09.80 0.4
 S 58 22.00
 SEK 1.95 173 iPc 58 24.10 0.5
 S 58 48.50
 SWZ 2.00 246 eP 58 24.50 0.3
 S 58 49.30
 BLF 2.92 201 eP 58 43.00 5.6X
 S.D. = 0.8 on 6 of 7 obs.

APR 23, 1993 20h 04m 36.95 ± 0.57s
 26.356 S ± 5.1km 27.410 E ± 6.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.2 (PRE). mbLg 3.2 (BUL).

PRY 0.57 174 eP 04 47.50 -0.9
 S 04 54.00
 KSR 0.67 316 eP 04 50.50 0.1
 S 04 59.50
 BFS 0.78 226 eP 04 52.30 -0.3
 S 05 01.20
 SLR 1.00 52 eP 04 56.50 0.1
 S 05 09.00
 SEK 1.97 174 iPc 05 12.40 0.9
 S 05 35.50
 SWZ 2.04 246 eP 05 13.00 0.5
 S 05 34.10
 BFT 2.46 75 eP 05 19.00 0.4
 BLF 2.95 201 eP 05 31.00 5.5X
 S 06 01.50
 BUL 6.28 10 iPn 06 12.00 -0.7
 iSg 07 21.40
 SUR 8.32 222 e(P) 06 50.00 8.7X
 S 08 06.50
 CER 9.92 223 e(P) 06 45.00 -18.2X
 S 08 52.50
 S.D. = 0.8 on 8 of 11 obs.

APR 23, 1993 21h 13m 23.97 ± 0.47s
 33.380 S ± 4.8km 68.486 W ± 4.2km
 DEPTH = 10.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)
 MD 4.2 (SAN).

MDZ 0.58 328 iP 13 35.60 -0.2
 iS 14 13.20
 RFA 1.39 179 eP 13 49.20 -0.2
 FCH 1.51 271 iP 13 50.22 -1.2
 (S) 14 08.95
 RTCV 1.52 358 iPc 13 50.60 -0.6
 PCH 1.71 261 iP 13 53.60 -0.5
 iS 14 15.34
 CFA 1.78 7 ePd 13 55.10 0.1
 S 14 19.00
 SAN 1.82 267 iP 13 55.34 -0.3
 iS 14 18.84
 PEL 1.86 277 iP 13 56.03 -0.1
 iS 14 19.11
 CHCH 1.89 252 iP 13 56.77 0.1
 iS 14 20.83
 RTBS 1.90 334 iPc 13 57.40 0.7
 JACH 1.90 291 iP 13 56.91 0.1
 iS 14 20.91
 TACH 2.07 262 iP 13 59.25 0.1
 iS 14 25.06
 LNV 2.51 256 iP 14 06.14 0.8
 (S) 14 38.82
 MRA 2.53 68 iPd 14 06.70 1.0
 i 14 12.00
 (S) 14 45.00
 LCCH 2.58 267 iP 14 07.36 0.9
 (S) 14 41.95
 RTRS 3.31 345 iPd 14 17.50 0.7
 (S) 14 57.00
 TCA 3.87 59 iPc 14 24.40 -0.5
 (S) 14 25.00
 i 14 36.00
 CYA 5.44 26 ePd 14 46.30 -0.8
 S 15 44.20
 S.D. = 0.7 on 18 of 18 obs.

? APR 23, 1993 21h 15m 12.25 ± 1.76s
 28.939 N ± 17.8km 139.670 E ± 23.7km

DEPTH = 428.5 ± 23.2 km
4.2mb (3 obs.)
BONIN ISLANDS REGION (212)

MAT	7.68	351	(P)	17	05.00	0.0
			eS	18	30.00	
GUN	46.97	282	P	23	05.40	0.5
	0.8s	19.00nm				4.5mb
PKI	47.46	282	P	23	08.00	-0.6
KKN	47.51	282	P	23	08.00	0.0
DMN	47.71	282	P	23	10.40	0.0
GKN	48.01	283	P	23	12.60	0.1
WB2	48.87	187	iPc	23	18.00	0.0
	0.2s	2.60nm				4.3mb
HFS	80.85	336	eP	26	40.70	0.0
	0.3s	0.30nm				3.4mb

S.D. = 0.4 on 8 of 8 obs.

% APR 23, 1993 22h 05m 59.94±0.65s
40.676 N ± 5.5km 23.400 E ± 6.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.9 (THE).

SOH	0.15	346	iPg	06	03.82	0.4
			eSg	06	05.58	
THE	0.33	263	ePg	06	06.74	-0.1
			eSg	06	11.86	
SRS	0.46	18	ePg	06	09.14	-0.2
OUR	0.56	127	ePg	06	11.30	0.0
KNT	0.62	322	iPg	06	12.30	-0.1
			eSg	06	20.46	
PAIG	0.78	164	ePg	06	15.10	0.0

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

APR 23, 1993 22h 16m 34.92±0.45s
60.248 N ± 4.8km 143.253 W ± 3.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ALASKA (2)
ML 3.1 (PGC), 2.9 (AEIC).

SNH	0.22	108	ePd	16	39.03	-0.6
			eS	16	43.95	
CYK	0.42	113	iPc	16	44.25	0.8
			eS	16	53.18	
CRQM	0.51	6	iPd	16	44.86	-0.5
			eS	16	53.68	
TGL	0.55	22	iPd	16	45.56	-0.6
			eS	16	54.42	
KAIM	0.67	242	iPc	16	49.18	1.0
			eS	17	01.37	
RAGM	0.72	282	iPc	16	50.01	0.9
			eS	17	04.59	
BALM	0.91	29	iPd	16	51.89	-0.5
			eS	17	06.60	
CTGM	1.19	52	iPd	16	56.81	-0.4
			eS	17	14.09	
GLB	1.23	347	ePd	16	57.11	-0.7
			eS	17	14.92	
CVA	1.28	285	ePc	16	58.54	0.0
HIN	1.62	277	eP	17	03.13	-0.5
			eS	17	27.43	
VLZ	1.76	302	eP	17	05.70	0.2
KLU	1.81	315	iPc	17	06.95	0.6
			eS	17	31.67	
TZL	2.09	331	eP	17	11.83	1.4
SDG	2.54	335	eP	17	17.57	0.7
SCM	2.54	311	eP	17	18.12	1.2
HYT	2.90	76	P	17	22.70	0.6
PTE	2.92	285	ePc	17	21.10	-1.1
SML	2.93	305	eP	17	22.68	0.3
PAX	2.93	340	eP	17	22.75	0.3
MPA	3.04	277	eP	17	22.57	-1.4
PMR	3.17	298	(P)	17	26.42	0.7
SLKM	3.47	277	eP	17	28.46	-1.6
SKT	4.38	297	eP	17	42.95	0.0
BGL	4.60	287	eP	17	44.86	-1.3
FBA	5.12	338	(P)	17	54.18	0.8
YKA	13.86	68	eP	20	01.70	8.2X

0.8s 0.30nm 3.2mb X
S.D. = 0.9 on 26 of 27 obs.

? APR 23, 1993 22h 19m 31.48±20.42s
34.368 S ±106.km 172.171 W ±125.km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.8 (SAN).

LNK	0.75	57	iP	19	45.23	-0.4
			iS	19	55.29	
LCCH	1.02	29	iP	19	49.22	-0.3
			iS	20	04.19	
TACH	1.25	56	iP	19	52.38	-0.3
			iS	20	08.54	
CHCH	1.33	71	eP	19	54.01	0.1
			iS	20	11.11	
PCH	1.57	62	eP	19	57.75	0.4
			iS	20	17.90	
PEL	1.74	46	iP	20	00.29	0.4
			iS	20	22.72	
FCH	1.88	57	iP	20	01.71	-0.4
JACH	2.14	39	iP	20	05.96	0.3

S.D. = 0.4 on 8 of 8 obs.

* APR 23, 1993 23h 00m 35.93±1.39s
49.179 N ±12.3km 6.965 E ± 7.8km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.6 (UCC).

RUP	0.53	7	ePg	00	46.49	-0.1
WLF	0.72	313	iPd	00	49.79	-0.3
			iS	00	58.92	
ABH	0.80	28	ePg	00	51.70	0.2
ENN	1.73	337	eP	01	08.50	2.4X
	0.5s	17.80nm				
			eS	01	30.00	
DOU	1.79	302	Pn	01	07.40	0.3
			iPb	01	09.80	
			iSn	01	30.80	
GRF	2.83	78	e(Pn)	01	34.20	12.2X
			e(Pg)	01	39.30	
			eSg	02	10.20	
GEC2	4.45	92	Pn	01	44.90	-0.1
			Sn	02	36.10	
			Sg	02	56.40	

S.D. = 0.3 on 5 of 7 obs.

APR 23, 1993 23h 15m 11.11±0.44s
49.187 N ± 3.6km 6.962 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.7 (STR), 2.4 (UCC).

RUP	0.52	7	ePg	15	21.22	-0.4
LANF	0.59	110	Pg	15	22.70	-0.4
HOFF	0.70	110	Pg	15	25.00	0.0
WLF	0.71	312	iPd	15	24.38	-0.7
			iS	15	33.67	
ABH	0.79	29	ePg	15	26.23	-0.3
CDF	0.80	165	Pg	15	25.77	-1.0
			Sg	15	37.07	
WLS	0.82	161	Pg	15	25.94	-1.0
			Sg	15	37.75	
ECH	0.98	172	Pg	15	29.76	0.0
			Sg	15	42.52	
VITF	1.17	214	Pg	15	31.80	-1.1
			Sg	15	47.38	
MOF	1.34	175	Pg	15	35.87	0.0
			Sg	15	54.69	
TNS	1.42	42	ePnc	15	38.20	1.2
			iSn	15	57.00	
			eSg	16	00.70	
FEL	1.49	152	ePg	15	38.29	0.3
ENN	1.72	337	eP	15	43.00	1.8
	0.4s	58.30nm				
			e	16	05.00	
SLE	1.75	144	eP	15	42.50	0.8
DOU	1.79	301	Pn	15	41.50	-0.7
			iPb	15	44.30	
			iSn	16	03.60	
LOMF	1.84	183	Pg	15	45.24	2.2
GRF	2.83	78	ePg	16	05.70	8.6X
			eSg	16	45.30	
VDL	3.19	147	iPd	16	03.50	1.1
MMK	3.21	167	eP	16	03.10	0.3
MOX	3.34	62	(Pg)	16	16.10	11.6X
			eSg	16	58.40	
KHC	4.34	88	ePn	16	17.50	-1.2
			ePg	16	37.00	
			eSn	17	07.40	
			eSg	17	30.50	
GEC2	4.45	92	Pn	16	19.50	-0.7
			Sg	17	34.60	

S.D. = 1.0 on 20 of 22 obs.

% APR 24, 1993 00h 03m 12.39±2.08s
38.693 N ±17.3km 12.843 E ±13.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ERC	0.69	197	P	03	25.10	-0.9
			eSg	03	33.20	
LVI	0.81	210	P	03	28.80	0.7
CVT	1.01	182	P	03	31.80	0.2
			eSg	03	43.10	
FAI	1.56	155	P	03	42.10	1.9
MNO	1.64	117	P	03	41.20	-0.4
PTS	2.00	200	P	03	45.80	-0.8
			eSn	04	08.80	
MEU	2.29	133	P	03	50.10	-0.8
			eSn	04	16.70	
SOI	2.60	103	P	03	54.60	-0.5
ROI	3.03	72	P	04	01.80	0.5

S.D. = 1.1 on 9 of 9 obs.

% APR 24, 1993 01h 05m 48.78±1.36s
38.509 N ±11.2km 15.210 E ±15.7km
DEPTH = 33.0km (normal)
SICILY (398)

ATN	0.40	150	P	05	59.40	1.5
			eSg	06	10.40	
MNO	0.71	215	Pc	06	02.10	-0.4
SOI	0.80	123	Pc	06	02.10	-1.4
			eSg	06	16.10	
CZI	1.01	45	P	06	07.00	0.4
ROI	1.50	44	P	06	13.60	-0.1

S.D. = 1.5 on 5 of 5 obs.

% APR 24, 1993 01h 09m 58.10±0.61s
40.679 N ± 5.5km 23.082 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.1 (THE).

THE	0.10	242	iPg	10	01.18	0.4
			eSg	10	02.88	
SOH	0.25	55	iPg	10	03.84	0.4
			eSg	10	07.24	
KNT	0.50	344	ePg	10	08.24	0.0
			eSg	10	15.16	
SRS	0.58	41	ePg	10	09.56	-0.4
			eSg	10	17.80	
GRG	0.59	298	ePg	10	09.80	-0.2
OUR	0.77	116	ePg	10	13.28	0.2
			eSg	10	23.48	
PAIG	0.88	149	ePg	10	14.48	-0.5
			eSg	10	26.32	

S.D. = 0.4 on 7 of 7 obs.

APR 24, 1993 01h 24m 51.01±1.01s
37.748 S ± 6.7km 177.579 E ± 8.2km
DEPTH = 60.9 ± 27.6 km
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ	0.59	76	P	25	04.10	0.0
PUZ	0.63	121	P	25	04.60	0.0
			S	25	14.10	
URZ	0.63	216	P	25	04.20	-0.4
			S	25	13.40	
NOZ	0.94	158	P	25	08.60	0.2

24d 02h

ERC 0.27 108 P eSg 18 30.10
 18 27.50 -0.9
 CVT 0.61 137 P eSg 18 33.70
 18 35.80 0.9
 18 44.70
 PTS 1.33 190 P eSg 18 46.90 -0.3
 FAI 1.40 127 P 18 48.50 0.3
 MNO 1.93 95 P 18 56.20 0.2
 S.D. = 0.8 on 6 of 6 obs.

* APR 24, 1993 02h 23m 19.18 ± 0.73s
 29.301 N ± 8.9km 130.553 E ± 12.1km
 DEPTH = 33.4km (2 depth phases)
 3.9mb (6 obs.)

RYUKYU ISLANDS (238)

KAGJ 1.90 9 P 23 50.50 0.6
 eS 24 14.60
 KUMJ 3.23 4 P 24 09.70 0.9
 S 24 46.70
 SHNJ 4.83 5 P 24 31.40 0.0
 GUN 39.07 279 P 30 45.60 0.3
 PKI 39.55 279 P 30 49.20 -0.1
 0.8s 26.00nm 5.0mb X
 KKN 39.61 279 P 30 49.80 0.1
 DMN 39.80 279 P 30 51.60 0.3
 GKN 40.12 280 P 30 53.80 0.0
 0.6s 17.00nm 5.0mb
 WRA 49.09 175 P 32 06.30 0.9
 0.7s 0.60nm 3.7mb
 MBC 66.36 14 eP 34 06.00 -0.3
 0.9s 2.00nm 4.2mb
 pP 34 16.50 34km
 YKA 74.88 26 eP 34 57.20 -0.8
 0.7s 0.40nm 3.5mb
 NB2 77.47 334 P 35 11.00 -1.6
 0.6s 0.70nm 3.9mb
 GEC2 83.98 324 ePKP 35 46.90 -0.5
 0.7s 0.42nm 3.7mb
 e 35 54.20
 ePP 35 57.80
 FCC 84.74 22 eP 35 55.50 4.6X
 pP 36 06.00 33km
 S.D. = 0.8 on 13 of 14 obs.

? APR 24, 1993 03h 13m 14.04 ± 10.30s
 47.408 N ± 71.0km 7.726 E ± 31.5km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.1 (LDG).

FEL 0.51 22 ePg 13 24.33 0.0
 BSF 0.76 304 Pg 13 28.80 -0.2
 Sg 13 38.70
 CDF 1.05 343 Pg 13 33.90 0.0
 Sg 13 46.50
 HAU 1.11 303 Pg 13 35.00 0.2
 Sg 13 49.10
 S.D. = 0.3 on 4 of 4 obs.

* APR 24, 1993 03h 22m 18.11 ± 3.47s
 43.779 N ± 18.9km 8.550 E ± 16.8km
 DEPTH = 10.0km (geophysicist)
 CORSICA (380)
 ML 2.2 (LDG), 2.1 (GEN).

FIN 0.50 330 P 22 28.24 0.1
 S 22 34.37
 IMI 0.50 286 P 22 28.01 -0.2
 S 22 34.14
 CKI 0.67 343 P 22 31.40 -0.1
 eSg 22 40.00
 ROB 0.71 317 P 22 31.85 -0.3
 S 22 40.55
 PCP 0.76 360 P 22 33.18 0.1
 S 22 42.55
 SBF 0.81 276 Pn 22 33.90 0.0
 Sn 22 44.80
 ENR 0.93 299 P 22 36.15 0.2
 S 22 47.64
 STV 1.00 298 P 22 37.16 0.1
 S 22 49.38
 PZZ 1.27 305 P 22 42.11 0.3
 S 22 56.90
 FRF 1.40 262 Pn 22 41.90 -1.7X
 Sn 22 58.70
 BHB 1.41 319 P 22 43.55 -0.2

LMR 1.55 254 Pn 23 00.22
 22 44.10 -1.6X
 Sn 23 02.30
 LRG 1.62 259 Pn 22 44.70 -2.1X
 Sn 23 04.70
 S.D. = 0.2 on 10 of 13 obs.

% APR 24, 1993 03h 22m 38.57 ± 1.04s
 42.201 N ± 7.0km 19.604 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.7 (TTG).

TTG 0.34 312 iPg 22 46.10 0.5
 iSg 22 51.85
 ULC 0.35 228 iPg 22 46.13 0.2
 iSg 22 52.05
 PVY 0.48 35 iPg 22 48.36 0.0
 iSg 22 55.91
 BDV 0.58 278 iPg 22 50.01 -0.4
 iSg 22 59.25
 IVA 0.70 18 iPg 22 52.29 -0.2
 iSg 23 03.24
 NKY 0.76 324 iPg 22 53.21 -0.3
 iSg 23 05.01
 HCY 0.86 287 iPg 22 54.71 -0.3
 iSg 23 08.08
 BRY 1.05 312 ePg 22 58.63 0.2
 iSg 23 14.53
 PLE 1.14 352 ePg 23 00.26 0.3
 iSg 23 17.48
 S.D. = 0.4 on 9 of 9 obs.

APR 24, 1993 03h 34m 23.16 ± 0.61s
 5.729 S ± 4.8km 147.730 E ± 5.6km
 DEPTH = 138.3 ± 5.7 km
 5.0mb (17 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

LAT 1.18 218 iPc 34 48.70 -0.1
 PMG 3.70 189 iPc 35 18.00 -1.8
 eS 35 59.00
 MNDI 4.07 264 eP 35 27.00 1.9
 RA8 4.67 71 iPd 35 33.00 0.1
 CTA 14.34 186 iPd 37 35.00 -6.1X
 e 40 18.00
 e 42 09.00
 e 42 56.00
 MTN 17.83 245 iP 38 23.00 -1.2
 0.4s 125.00nm 5.6mb
 WB2 19.21 221 iPd 38 38.20 -0.7
 0.5s 426.40nm 6.0mb X
 eS 42 08.20
 RMQ 20.67 177 iPc 38 54.70 0.9
 0.7s 35.00nm 4.9mb
 OLP 21.00 189 iPc 38 58.00 0.8
 BRS 22.07 168 P 39 09.00 1.3
 ASPA 22.26 215 iPd 39 10.60 1.1
 0.5s 205.20nm 5.8mb
 Z 18s 0.40um 3.9Msz
 iS 43 07.70
 iScS 50 14.10
 DZM 24.32 134 iPd 39 29.20 -0.3
 ARMA 24.83 172 eP 39 35.70 1.4
 0.5s 8.00nm 4.5mb
 e 40 03.20
 CMS 25.69 184 eP 39 41.30 -0.7
 0.7s 3.00nm 4.0mb X
 STK 26.64 192 eP 39 51.30 0.5
 0.4s 5.80nm 4.5mb
 WARB 28.63 222 iPd 40 07.20 -1.6
 0.4s 39.00nm 5.5mb
 CAN 29.47 178 eP 40 15.00 -1.2
 MEEK 34.68 230 iPd 41 01.00 0.2
 0.4s 30.00nm 5.4mb
 NANU 35.30 238 iPd 41 06.80 0.0
 0.5s 28.00nm 5.3mb
 COOL 35.34 222 iPd 41 07.00 -0.1
 0.5s 25.00nm 5.2mb
 MRWA 38.00 228 iPd 41 29.40 -0.1
 0.4s 15.00nm 5.1mb
 KLB 38.06 224 iPd 41 29.90 -0.1
 0.4s 14.00nm 5.1mb
 BAL 38.24 226 eP 41 31.50 0.1
 MUN 39.36 224 eP 41 41.10 0.4
 XAN 53.94 320 P 43 34.20 -0.6
 1.0s 8.90nm 4.6mb

LZH 58.48 319 eP 44 07.50 0.2
 1.2s 23.00nm 5.0mb
 GTA 63.00 320 eP 44 38.00 0.3
 1.0s 9.00nm 4.7mb
 GUN 68.33 303 P 45 12.00 -0.2
 PKI 68.61 302 P 45 14.60 0.7
 KKN 68.79 303 P 45 14.80 -0.1
 DMN 68.88 302 P 45 15.40 -0.1
 YAK 68.97 351 eP 45 15.00 0.0
 1.2s 50.00nm 5.2mb
 GKN 69.40 303 P 45 18.20 -0.3
 IMA 83.05 21 iPd 46 34.69 0.5
 0.8s 1.49nm 3.9mb X
 FBA 84.65 23 eP 46 41.23 -0.9
 0.6s 6.95nm 4.7mb
 YKA 98.60 28 eP 47 46.80 -0.3
 1.0s 1.60nm 4.5mb
 GEC2 122.09 326 ePKP 53 01.80 -1.2
 0.9s 0.83nm
 e 53 13.10
 e 53 18.80
 PRM 125.81 52 ePKP 53 10.67 0.1
 JSC 126.61 51 ePKP 53 12.35 0.3
 CNCB 138.19 123 PKP 53 26.00 -9.3X
 LPB 138.23 123 PKP 53 30.00 -5.1X
 ZOBO 138.33 122 PKP 53 26.80 -8.7X
 SIV 144.24 128 iPKPd 53 57.00 11.8X
 PPD 146.70 147 ePKP 53 50.00 0.8
 e 53 52.50
 VAO 148.03 154 ePKP 53 54.10 2.7X
 KIC 152.62 273 PKP 54 05.60 7.2X
 TIC 152.89 273 PKP 54 06.70 7.9X
 LIC 152.90 272 PKP 54 06.40 7.6X
 BAO 153.68 144 iPKPd 54 08.10 8.1X
 i 54 21.00
 S.D. = 0.8 on 39 of 49 obs.

APR 24, 1993 03h 45m 13.90 ± 0.65s
 33.154 N ± 5.9km 35.615 E ± 6.6km
 DEPTH = 24.4 ± 7.4 km
 3.1mb (1 obs.)
 JORDAN - SYRIA REGION (374)
 ML 3.6 (JER). Felt in the
 Galilee region, Israel.

HRI 0.16 42 iPc 45 19.20 0.1
 MMR 0.23 225 iPc 45 19.80 -0.2
 KSHT 0.24 132 iPd 45 20.10 0.0
 ADI 0.34 257 iPc 45 21.60 0.2
 ATZ 0.44 221 iPc 45 23.00 -0.1
 eS 45 29.10
 GLH 0.44 175 iPc 45 23.10 -0.1
 GVMR 0.57 201 iPc 45 25.60 0.4
 BRNI 0.68 231 iPc 45 27.00 -0.1
 MML 0.74 193 iPc 45 27.90 -0.1
 GAZ 4.22 18 ePn 46 27.00 8.8X
 GEC2 22.67 320 eP 50 14.50 -0.1
 0.5s 0.34nm 3.1mb
 e 50 19.30
 e 50 22.60
 S.D. = 0.2 on 10 of 11 obs.

APR 24, 1993 04h 13m 55.31 ± 0.30s
 36.448 N ± 4.6km 26.762 E ± 3.1km
 DEPTH = 154.9 ± 4.6 km
 4.1mb (23 obs.)
 DODECANESE ISLANDS (369)
 MD 4.3 (HLW).

YER 1.40 60 iPn 14 25.00 0.4
 CIN 1.56 42 iPnc 14 26.00 -0.2
 iSg 14 46.00
 IZM 1.99 11 iPn 14 30.60 -0.4
 KSL 2.30 97 ePn 14 35.00 0.3
 eSn 15 02.40
 ELL 2.55 82 iPn 14 38.10 0.2
 PRK 2.82 352 iPnd 14 40.50 -0.6
 ATH 2.87 303 ePn 14 43.00 1.3
 KHL 2.89 49 ePn 14 41.50 -0.5
 VLI 3.09 276 ePn 14 45.00 0.5
 BCK 3.23 71 iPn 14 46.20 -0.2
 DST 3.48 24 iP 14 49.20 -0.4
 ALT 3.72 45 eP 14 52.00 -0.7
 EDC 3.99 12 eP 14 55.00 -1.2
 BNT 4.01 13 eP 14 54.60 -1.8
 PAIG 4.24 326 ePn 14 44.04 -15.4X

24d 06h

STAN 0.46 171 ePd 22 50.82 -0.1
eS 22 57.56
NTYM 0.62 330 eP 22 53.42 -0.7
eS 23 03.31
MHC 0.71 136 ePc 22 55.11 -0.8
eS 23 05.95
ARN 0.77 131 ePc 22 55.73 -1.1
eS 23 07.73
SAO 1.27 149 eP 23 03.11 -2.3
eS 23 24.29
CMB 1.50 83 eP 23 06.88 -1.9
eS 23 26.05
ORV 1.80 19 ePc 23 10.17 -3.0
eS 23 31.28
MEMM 2.64 93 (P) 23 24.56 -0.6
9 obs. associated

APR 24, 1993 06h 24m 38.79±0.81s
60.198 N ± 6.9km 141.147 W ± 5.2km
DEPTH = 5.0km (geophysicist)
SOUTHEASTERN ALASKA (19)
ML 2.6 (AEIC), 2.6 (PGC).

CYK 0.68 261 eP 24 53.18 0.8
eS 25 04.63
CTGM 0.78 353 iP 24 54.75 0.3
eS 25 07.59
SNH 0.85 270 iP 24 55.98 0.4
eS 25 09.50
TGL 1.00 305 iP 24 58.60 0.3
eS 25 15.60
BALM 1.03 325 iP 24 58.89 0.1
eS 25 15.47
CRQM 1.13 300 eP 25 00.56 -0.1
S 25 17.81
KAIM 1.66 262 eP 25 08.71 0.0
RAGM 1.77 278 eP 25 09.54 -0.7
GLB 1.81 315 eP 25 10.99 0.1
eS 25 36.14
HYT 1.91 69 P 25 12.50 0.1
CVA 2.31 281 eP 25 17.72 -0.4
KLU 2.67 301 iP 25 23.64 0.3
HIN 2.67 277 eP 25 23.17 -0.1
VLZ 2.72 292 eP 25 22.98 -0.9
FBA 5.63 330 (P) 26 04.89 -0.3
S.D. = 0.5 on 15 of 15 obs.

? APR 24, 1993 06h 37m 39.94±10.58s
38.696 N ± 76.4km 23.515 E ± 44.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (THE).

AGG 0.98 290 ePg 37 58.60 0.0
eSg 38 13.60
PAIG 1.24 6 ePb 38 02.92 0.0
eSb 38 20.32
LIT 1.61 331 iPb 38 08.40 -0.1
eSb 38 30.24
SOH 2.13 357 ePn 38 16.08 0.1
GRG 2.42 340 ePn 38 20.20 0.1
SRS 2.42 1 ePn 38 20.08 -0.1
KNT 2.51 349 ePn 38 21.40 0.0
eSn 38 52.92
S.D. = 0.1 on 7 of 7 obs.

? APR 24, 1993 08h 16m 41.13±2.21s
36.368 N ± 22.7km 70.379 E ± 18.5km
DEPTH = 221.9 ± 26.2 km
4.9mb (6 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

NDI 9.59 141 iPd 18 55.50 -0.2
eS 20 35.50
GKN 14.66 121 P 20 01.00 1.3
0.4s 21.00nm 4.9mb
DMN 15.23 121 P 20 06.80 0.1
0.6s 41.00nm 5.0mb
KKN 15.24 120 P 20 06.80 0.0
0.4s 22.00nm 4.9mb
PKI 15.46 120 P 20 09.20 -0.4
0.6s 32.00nm 4.9mb
GUN 15.59 118 P 20 10.40 -0.8
0.4s 20.00nm 4.9mb
HFS 42.86 322 eP 24 18.90 0.2
0.3s 0.90nm 3.6mb X
NB2 44.19 323 P 24 29.10 -0.3

0.4s 0.90nm 3.6mb X
KIC 74.28 266 P 27 56.00 0.1
WB2 82.36 121 iPd 28 39.40 -0.1
1.0s 3.20nm 4.0mb
i 28 41.30
S.D. = 0.7 on 10 of 10 obs.

APR 24, 1993 08h 32m 21.95±0.94s
40.876 N ± 6.6km 20.850 E ± 8.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.4 (THE), 2.2 (SKO).

OHR 0.24 351 iPg 32 26.20 -0.9
iSg 32 31.70
FNA 0.41 103 iPg 32 29.28 -1.1
eSg 32 36.44
GRG 1.18 86 ePb 32 43.58 -0.4
eSb 33 03.48
SKO 1.18 22 iPg 32 44.50 0.5
iSg 33 01.50
Lg 33 04.20
VAY 1.37 71 ePn 32 48.30 1.2
IGT 1.40 197 ePb 32 47.72 0.2
LIT 1.47 121 ePb 32 48.52 0.0
KNT 1.58 79 ePb 32 50.44 0.4
eSb 33 11.90
S.D. = 0.9 on 8 of 8 obs.

% APR 24, 1993 08h 36m 07.16±1.05s
33.468 S ± 12.5km 70.206 W ± 18.1km
DEPTH = 110.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

FCH 0.16 333 iP 36 23.11 -0.1
iS 36 35.13
PCH 0.30 239 iP 36 23.43 0.1
iS 36 35.38
SAN 0.38 272 iP 36 23.52 0.0
iS 36 35.92
PEL 0.52 309 iP 36 24.56 0.2
iS 36 37.68
CHCH 0.60 219 iP 36 25.24 0.3
iS 36 39.05
TACH 0.64 253 iP 36 25.14 -0.1
iS 36 39.00
JACH 0.85 337 iP 36 27.16 -0.1
iS 36 43.19
LNV 1.12 244 iP 36 29.50 -0.3
iS 36 47.23
LCCH 1.14 269 iP 36 30.38 0.3
iS 36 48.36
S.D. = 0.2 on 9 of 9 obs.

* APR 24, 1993 08h 46m 33.01±0.84s
63.277 N ± 8.3km 151.256 W ± 10.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ALASKA (1)
ML 2.9 (PMR), 2.4 (AEIC).

PWA 1.75 158 eP 47 03.50 -0.1
PMR 1.96 149 eP 47 05.71 -0.9
eS 47 30.74
PMS 2.19 158 eP 47 10.10 0.1
TTA 2.19 263 eP 47 11.35 1.3
eS 47 38.42
FBA 2.23 41 eP 47 12.08 1.6
eS 47 40.95
SVW 2.99 225 eP 47 21.20 -0.1
IMA 2.99 341 eP 47 19.53 -1.9
S.D. = 1.5 on 7 of 7 obs.

* APR 24, 1993 09h 06m 17.43±0.70s
42.585 N ± 7.4km 143.728 E ± 10.3km
DEPTH = 80.4 ± 8.7 km
3.8mb (1 obs.)
HOKKAIDO, JAPAN REGION (224)

HOOJ 0.38 238 iPd 06 29.90 -0.5
S 06 37.90
KUSJ 0.89 54 iP+ 06 35.80 0.4
S 06 48.50
ASAJ 1.73 333 iP+ 06 45.90 -0.3
eS 07 07.20
MRRJ 1.97 266 eP 06 49.90 0.4
S 07 12.80

AOMJ 3.23 232 eP 07 07.10 0.3
eS 07 45.60
OFUJ 3.83 205 eP 07 14.70 -0.5
eS 07 57.90
YAMJ 5.23 214 P 07 34.80 0.0
MAT 7.39 217 eP 08 05.00 0.4
NB2 69.75 338 P 17 20.10 -0.3
0.4s 0.50nm 3.8mb
S.D. = 0.5 on 9 of 9 obs.

APR 24, 1993 09h 08m 02.40±0.42s
42.401 S ± 5.0km 174.224 E ± 4.5km
DEPTH = 28.3 ± 3.2 km
OFF E. COAST OF S. ISLAND, N.Z. (164)
ML 3.9 (WEL).

KHZ 0.51 268 Pd 08 12.30 -0.5
S 08 19.60
THZ 1.17 302 P 08 22.60 -0.4
S 08 38.70
WEL 1.19 20 P 08 23.60 0.5
S 08 39.70
TCW 1.19 2 Pc 08 23.00 -0.1
MRW 1.22 17 Pc 08 23.90 0.3
S 08 39.50
MOW 1.24 38 P 08 24.40 0.4
BLW 1.39 43 P 08 26.30 0.2
CAW 1.44 26 P 08 27.10 0.4
LTZ 1.49 255 P 08 28.00 0.4
eS 08 46.30
MTW 1.57 38 P 08 28.40 -0.2
KIW 1.62 19 Pc 08 29.60 0.2
MOZ 1.74 221 eP 08 31.30 0.2
S 08 52.80
DSZ 1.92 289 P 08 34.00 0.3
MNG 2.02 28 P 08 34.70 -0.5
eS 08 59.10
ORZ 2.02 320 P 08 35.20 0.0
eS 08 58.80
PGZ 2.35 42 P 08 39.00 -0.9
WVZ 2.66 254 eP 08 44.30 0.1
EWZ 2.71 245 eP 08 45.30 0.3
CNZ 3.35 18 P 08 54.20 0.0
NGZ 3.39 18 P 08 54.60 -0.1
ODZ 3.70 223 P 08 58.60 -0.5
MOZ 3.92 7 eP 09 02.00 -0.1
S.D. = 0.4 on 22 of 22 obs.

APR 24, 1993 09h 19m 19.15±0.86s
17.547 S ± 8.3km 71.119 W ± 7.9km
DEPTH = 92.1 ± 9.9 km
4.4mb (2 obs.)
NEAR COAST OF PERU (115)

LPB 3.06 71 P 20 08.00 1.2
1.0s 500.00nm
CNCB 3.09 77 P 20 07.00 -0.3
ZOBO 3.14 67 P 20 07.00 -1.0
i 21 00.00
CCH 4.76 89 P 20 30.20 0.0
ANT 6.16 174 eP 20 49.00 -0.3
YJA 7.00 132 e(P) 21 02.00 0.6
NNA 7.82 314 eP 21 12.00 -0.2
0.9s 18.49nm 4.7mb
e 21 22.80
eS 22 46.00
SIV 9.75 82 P 21 47.30 8.9X
PPD 19.16 107 (P) 23 38.00 -0.1
CACB 23.33 104 eP 24 19.80 -0.3
e 24 27.50
e 24 29.80
KIC 69.70 76 P 30 20.90 -0.5
YKA 86.79 341 eP 31 54.70 0.8
0.6s 1.10nm 4.1mb
S.D. = 0.8 on 11 of 12 obs.

APR 24, 1993 09h 23m 54.69±0.85s
32.045 S ± 7.1km 69.662 W ± 6.2km
DEPTH = 141.4 ± 10.6 km
MENDOZA PROVINCE, ARGENTINA (139)
MD 4.2 (SAN).

RTBS 0.42 25 iPd 24 15.00 0.1
RTCV 0.97 79 iPc 24 18.20 -0.6
S 24 34.30
JACH 1.01 231 iP 24 18.99 -0.2
MDZ 1.08 141 iP 24 19.90 0.1

CFA	1.29	71	iPd	24 36.90	0.2	BLW	23.72	188	eP	58 48.40	-1.3	VAH	31.26	90	iPd	59 54.20	-0.9
			S	24 21.90		QRZ	23.73	194	eP	58 50.30	0.5	TPT	1.1s	466.90nm			6.0mb
FCH	1.38	202	iP	24 23.42	0.3	TCW	23.75	190	eP	58 49.20	-0.8		31.31	90	iPd	59 54.90	-0.7
			iS	24 43.59		SNZO	23.77	190	P	58 49.00	-1.1	RUV	1.5s	1604.60nm			6.4mb
PEL	1.40	218	iP	24 22.56	-0.3				e	00 31.20			31.50	90	iPd	59 56.30	-0.9
			iS	24 42.34					e	01 24.00		CTA	1.1s	804.90nm			6.3mb
SAN	1.64	211	iP	24 25.61	0.1				e	02 23.00			31.82	261	iP	59 55.50	-4.3X
			iS	24 47.83		MOW	23.80	189	eP	58 49.00	-1.5	Z	1.0s	260.00nm			5.8mb
PCH	1.73	204	iP	24 27.07	0.5	THZ	24.54	193	P	58 56.40	-0.6		18s	20.62um			5.9Msz
			iS	24 50.83					S	02 33.20					id	00 00.00	16kmX
TACH	1.93	213	iP	24 28.87	0.0	DSZ	24.77	194	P	58 58.90	-0.1				ic	00 15.00	
			iS	24 53.44					e	00 35.40					i	00 21.00	
CHCH	2.06	204	iP	24 30.93	0.5				ePP	02 42.00					ePP	02 42.00	
			iS	24 57.65		KHZ	25.05	191	P	59 00.00	-1.4				eS	03 30.00	
LCCH	2.15	228	iP	24 31.50	0.0				e	01 40.50					e	04 13.00	
LNV	2.41	217	iP	24 34.08	-0.6				e	59 00.00					e	04 27.00	
			iS	25 03.48					e	00 17.60					iScP	05 26.00	
RFA	2.90	160	iP	24 40.70	-0.3	LTZ	25.65	193	P	59 05.30	-1.5	CTAO	31.82	261	ePd	59 59.61	-0.2
			(S)	25 12.00			0.8s	426.00nm		00 39.60	6.1mb		1.3s	1148.98nm			6.3mb
MRA	3.37	97	iPc	24 47.00	-0.1				e	01 50.20		CNB	32.15	231	iPc	00 03.90	1.4
			S	25 21.40		WVZ	26.29	195	P	59 11.10	-1.1		0.5s	288.00nm			6.2mb
TCA	4.38	82	iP	25 00.80	0.2				eS	02 48.90					e	04 38.00	
			(S)	25 48.00					e	00 45.70		CAN	32.42	231	iPd	00 05.50	0.7
CYA	4.91	44	ePc	25 07.70	0.1				e	01 54.70		BWA	32.50	233	iPd	00 04.40	-1.1
			S	25 53.30		MQZ	26.46	192	P	59 12.60	-1.1	PMG	32.82	280	eP	00 09.00	0.8
S.D. = 0.3 on 17 of 17 obs.						EWZ	26.67	195	eP	59 14.80	-0.7	CMS	33.60	240	iPd	00 15.30	0.6
APR 24, 1993 09h 54m 21.05± 0.09s						BRS	26.68	244	iPc+	59 16.30	0.5				eS	04 57.00	
17.871 S ± 2.7km 179.849 E ± 3.1km							0.5s	96.00nm		5.7mb		QLP	34.00	249	iPd	00 18.30	0.3
DEPTH = 599.3km (35 depth phases)						Z	18s	82.00um		6.3MszX					e	02 40.30	
5.5mb (95 obs.)									ipPc	59 31.70	65kmX				eS	05 02.00	
FIJI ISLANDS (182)									isP	59 50.00		TOO	35.92	230	iPd	00 35.30	1.6
Mw 6.3 (HRV). mb 5.4 (BRK).									i	01 25.50			0.9s	471.00nm			6.1mb
CENTROID, MOMENT TENSOR (HRV)									eS	02 00.00					i	05 33.50	
Data Used: GDSN									e	03 10.00		STK	37.20	241	iPd	00 45.50	1.2
L.P.B.: 42S, **C									i	05 04.00			0.7s	237.40nm			5.9mb
Centroid Location:									eScS	09 03.00					e	01 28.00	197kmX
Origin Time 09:54:28.5 0.2						WBZ	27.87	195	P	59 24.50	-1.4				iS	05 50.60	
Lat 17.51S 0.02 Lon 179.97E 0.01						ODZ	28.17	194	P	59 27.40	-1.2	BFD	37.95	232	iPd	00 51.20	0.9
Dep 610.4 0.9 Half-duration 3.2									e	01 01.10			0.8s	161.00nm			5.6mb
Mament Tensor: Scale 10**18 Nm									eS	03 29.40		ADE	40.27	237	iPd	01 09.80	0.7
Mrr=-1.26 0.02 Mtt= 1.43 0.03						LRCZ	28.50	196	P	59 30.50	-1.1	WB2	42.99	260	iPd	01 29.50	-1.3
Mtf=-0.16 0.03 Mrt= 0.81 0.03						MSCZ	28.51	196	P	59 30.70	-0.9		0.8s	439.90nm			6.0mb
Mrf=-2.04 0.04 Mtf=-0.89 0.03									e	01 07.60					i	01 32.10	9kmX
Principal Axes:						MHZ	28.52	196	P	59 30.50	-1.2				eScP	06 06.90	
T Val= 2.62 Plg=26 Azm= 38						MSZ	28.53	198	P	59 32.70	1.0				eS	07 12.90	
N 0.21 24 141						ARMA	28.53	239	iPd	59 32.80	0.7	WRA	43.00	260	P	01 30.00	-0.9
P -2.83 53 268							0.7s	286.00nm		04 27.80	6.0mb		0.8s	117.90nm			5.5mb
Best Double Couple:Mo=2.7*10**18									eScP	05 13.00		ASPA	43.21	254	iPd	01 32.00	-0.5
NP1:Strike= 86 Dip=29 Slip=-148						SBCZ	28.54	196	P	59 30.60	-1.2		0.7s	2754.60nm			6.9mb X
NP2: 327 75 -65						LSCZ	28.54	196	P	59 30.90	-1.0				i	01 34.00	7kmX
VUN	1.33	264	iPc	55 37.30	3.0X	CMCZ	28.60	196	P	59 31.50	-0.9				iS	07 14.50	
			eS	56 38.80					e	01 05.50					eScS	10 27.20	
SVA	1.35	259	ePc	55 35.00	0.7				P	59 32.50	-0.7	KKH	44.18	34	eP	01 38.49	-1.4
			eS	56 36.30		TLC	28.69	196	P	59 32.50	-0.7	HON	44.59	30	P+	01 47.61	4.6X
PVC	10.99	269	iPd	56 53.00	3.1X				e	01 08.00		Z	20s	0.36um			4.3Msz
BKM	11.06	269	iPc	56 53.50	2.9X	AFR	28.92	94	iPd	59 34.10	-1.2				S	07 45.40	
			iS	58 57.00			0.6s	373.70nm		6.2mb					SS	11 13.10	
DZM	13.28	249	iPc	57 14.00	1.6	PAE	29.10	94	iPd	59 35.60	-1.2	DHH	44.64	30	eP	01 40.80	-2.5X
			iS	59 33.40			0.9s	252.20nm		5.8mb		KIP	44.67	30	eP	01 42.36	-1.2
			ScP	04 24.90		PPT	29.11	94	iPd	59 35.90	-1.0		0.8s	239.08nm			5.8mb
OUZ	18.15	197	P	58 02.70	3.6X		0.6s	243.10nm		6.0mb		MHA	44.68	33	eP	01 42.14	-1.6
WCZ	18.65	194	eP	58 07.30	3.6X	PPN	29.25	94	iPd	59 37.00	-1.1	OPA	44.90	30	eP	01 43.94	-1.4
KUZ	19.15	190	eP	58 10.30	1.9		0.8s	123.60nm		5.6mb		HKL	44.93	32	eP	01 44.37	-1.8
RAR	19.49	103	eP	58 12.02	0.5	TUZ	29.26	195	P	59 38.10	0.2	GUA	46.50	310	eP	01 56.70	-1.0
	0.9s	431.52nm		6.0mb					eS	03 48.40			0.8s	1522.39nm			6.6mb X
HBZ	19.70	184	P	58 13.80	0.4	TVO	29.40	95	iPd	59 38.50	-1.0				eS	08 04.50	
WLZ	20.27	190	eP	58 20.80	2.2		0.8s	395.40nm		6.1mb		PJG	46.57	310	eP	01 57.21	-1.0
URZ	20.45	186	eP	58 18.80	-1.5	BCZ	29.78	197	P	59 42.90	0.6	MTN	47.14	269	iPd	02 01.20	-1.5
			e	59 43.40		RMO	29.98	248	iPd	59 45.10	0.8		0.6s	1026.00nm			6.5mb X
			eS	01 34.60					e	00 00.30		FORT	48.52	245	iPd	02 11.80	-1.1
NOZ	20.73	184	eP	58 23.20	0.4				ipP	01 16.00		KNA	48.82	264	iPd	02 14.30	-0.9
			eS	01 42.60					esP	02 29.00			0.5s	378.00nm			6.2mb
MOZ	21.03	191	eP	58 27.00	1.5				i	03 16.40		WARB	49.73	251	iPd	02 21.00	-0.8
HNR	21.06	291	eP	58 25.00	-1.0				eS	04 03.20		COOL	54.47	245	iPd	02 54.00	-1.8
NGZ	21.55	189	eP	58 30.20	-0.2				eScP	05 20.00		MEEK	56.89	250	iPd	03 11.30	-1.2
BSZ	22.26	190	eP	58 36.70	0.1	RIV	30.18	233	eP	59 46.60	0.7		0.4s	167.00nm			5.6mb
PGZ	22.88	187	eP	58 39.80	-2.4		1.0s	*****nm		01 23.20	7.4mb X	KLB	57.36	244	iPd	03 14.30	-1.3
MNG	22.98	189	eP	58 40.80	-2.3				esP	02 32.00		NWAO	57.76	242	eP	03 17.50	-0.8
			eS	02 08.70					iS	04 05.50		RKG	57.92	240	iPd	03 19.00	-0.4
			e	04 53.50		RAB	30.32	293	iP-	59 46.00	-1.2	WSI	58.22	270	ePc	03 21.20	-0.4
KIW	23.31	189	P	58 44.70	-1.3	SIZ	30.50	196	eP	59 49.20	0.8	BAL	58.30	245	iPd	03 20.70	-1.3
MTW	23.51	188	eP	58 45.90	-1.9	PMO	31.05	90	iPd	59 52.70	-0.6		0.4s	96.00nm			5.4mb
CAW	23.52	189	P	58 46.50	-1.5		1.1s	890.80nm		6.3mb		MUN	58.66	243	eP	03 23.90	-0.5
MRW	23.70	190	eP	58 47.70	-1.8												

24d 10h																
BIP	58.93	292	ePd	03	24.50	-1.8	Z	19s	0.60um	4.9Msz	Z	19s	0.60um	5.0Msz		
MRWA	59.00	246	iPd	03	25.60	-1.1			epP	07 23.71	578kmX		epP	07 31.19	600km	
DAV	59.04	290	eP+	03	24.80	-2.2			ePP	08 21.71			sP	08 35.29		
NANU	60.14	254	iPd	03	33.70	-0.5			eS	14 26.71			S	14 38.63		
SBA	60.36	183	iPd	03	37.00	2.2			eSP	15 12.71		PEC	79.02	49 eP	05 24.49	-0.9
PLP	61.37	294	ePc	03	39.50	-2.8X			eSS	18 34.71			1.3s	132.82nm		5.2mb
KHKI	63.02	270	ePc	03	51.50	-1.5	SAO	77.56	45 eP+	05 17.18	-0.4			epP	07 28.14	584kmX
			e	07	17.30			1.3s	230.28nm		5.4mb	ORV	79.07	42 eP	05 24.91	-0.6
CSY	65.48	205	eP	04	08.40	0.8		Z	19s	0.72um	5.0Msz			epP	07 30.10	593km
	0.6s	334.60nm			5.9mb				pP	07 24.06	607km	WHN	79.25	307 Pd	05 26.50	0.0
KAKJ	65.58	325	P	04	07.20	-1.3			sP	08 29.97			1.0s	110.00nm		5.2mb
PGP	65.93	294	eP	04	07.00	-4.1X			S	14 24.77				PP	08 35.00	
TRT	66.04	269	eP	04	09.00	-2.8X	BCH	77.63	47 eP	05 18.23	0.1			iS	14 40.00	
CHJJ	66.10	325	P	04	10.70	-1.1			epP	07 23.99	600km	MIN	79.45	42 eP	05 26.97	-0.6
TGY	66.22	295	ePd	04	13.00	0.1	BKS	77.65	43 ePd	05 18.48	0.4		1.2s	110.00nm		5.1mb
IIDJ	66.30	323	P	04	11.70	-1.3		1.2s	190.00nm		5.4mb	Z	20s	1.00um		5.2Msz
QCP	66.34	295	eP	04	17.00	3.4X		Z	18s	0.70um	5.0Msz			epP	07 34.97	609km
WKYJ	66.77	321	P	04	15.30	-0.6			epP	06 59.09	455kmX			ePP	08 42.97	
SJI	66.85	269	iPd	04	17.00	0.2			ePP	08 21.09				eS	14 44.97	
			e	07	24.30				ePPP	10 27.09				eScS	15 18.97	
MAT	66.90	324	iPd	04	15.00	-1.6			eS	14 26.09				esS	18 47.97	
	0.8s	115.67nm			5.5mb				eSKS	14 45.09				eSS	19 06.97	
		eS	12	21.00					eScS	15 10.09				esSS	23 06.97	
OFUJ	66.97	328	P	04	15.40	-1.6			esS	18 08.09		MEMM	79.73	45 eP	05 29.75	0.9
NIJJ	66.97	325	P	04	15.90	-1.1			eSS	18 30.09				epP	07 36.36	600km
YAMJ	67.12	327	P	04	16.90	-1.0	NTYM	77.67	43 eP	05 18.54	0.5	LBFM	79.84	41 eP	05 29.76	0.1
CVP	67.14	299	eP	04	19.00	0.6		77.74	44 eP	05 18.63	-0.1			pP	07 35.70	596km
MTMJ	67.15	324	P	04	16.60	-1.7	MHC	77.74	44 eP	05 18.63	-0.1	GSC	79.98	48 eP	05 30.16	-0.2
TSRJ	67.45	322	P	04	19.40	-0.6		1.2s	170.00nm		5.4mb			epP	07 36.89	600km
TKSJ	67.54	320	P	04	19.80	-0.8		Z	19s	0.60um	4.9Msz	TIA	80.01	313 P	05 30.40	0.0
BAG	67.58	297	ePd-	04	19.40	-2.0			epP	07 22.14	586kmX		1.0s	120.00nm		5.3mb
	1.0s	490.00nm			6.0mb				ePP	08 27.14				pP	07 35.00	587kmX
		eS	12	32.00					ePPP	11 19.14				sP	08 37.00	
KAGJ	67.75	316	P	04	21.20	-0.7			eS	14 27.14		BONR	80.31	45 eP	05 32.61	0.3
PIP	68.44	299	eP	04	26.00	-0.3			eSKS	14 47.14		GLA	80.31	51 eP	05 32.61	0.5
KUMJ	68.64	317	P	04	26.30	-0.9			eScS	15 00.14				epP	07 39.85	602km
YONJ	68.71	320	P	04	26.80	-0.8			eSP	15 16.14		IPM	80.80	278 ePd	05 35.50	0.5
KUSJ	68.73	333	eP	04	26.60	-0.9	PHAM	77.76	46 eP	05 17.73	-1.0	KVN	81.01	44 eP	05 35.89	0.1
AOMJ	68.75	329	eP	04	29.70	2.0	KGM	77.82	276 ePd	05 19.60	0.2	TNP	81.10	45 eP	05 36.47	0.2
HOIJ	68.78	332	eP	04	29.80	2.0	ARN	77.82	44 eP	05 18.99	0.0		1.1s	129.15nm		5.4mb
SHNJ	69.47	318	eP	04	29.70	-2.4X			epP	07 24.21	596km	SVW	81.13	12 eP	05 34.50	-1.2
ADK	69.52	2	ePc	04	28.20	-3.8X	QIZ	77.92	295 eP	05 19.60	-0.2	MGD	81.19	346 ePd	05 34.00	-1.9
	0.6s	64.35nm			5.3mb			S	14 28.00			1.0s	100.00nm		5.3mb	
MRRJ	69.84	330	eP	04	34.70	0.6	FHC	78.23	40 eP	05 22.11	1.0			epP	07 40.00	593km
ASAJ	70.44	332	P	04	38.00	0.4		1.3s	312.85nm		5.6mb			esP	08 42.00	
SMY	70.48	356	eP	04	34.81	-2.8X	DL2	78.43	317 Pd	05 22.00	-0.1			iS	14 54.00	
	0.7s	129.61nm			5.6mb			1.0s	220.00nm		5.5mb			eSP	15 50.00	
LEM	71.06	269	iPd	04	42.20	0.1			S	14 30.00				eSS	20 26.00	
SPA	72.24	180	iPd	04	49.00	1.0	KDC	78.76	15 eP	05 21.86	-1.5	TPNV	81.19	47 eP	05 37.28	0.6
	0.5s	527.78nm			6.3mb			0.9s	55.98nm		5.0mb		0.5s	34.52nm		5.1mb
YSS	72.72	334	ePd-	04	49.70	-1.0	SSK	78.80	49 eP	05 24.22	-0.2	BMW	82.02	36 eP	05 40.36	-0.1
		e	05	03.30		47kmX	SNY	78.90	321 iPd	05 24.00	-0.4			epP	07 48.34	603km
		e	07	40.70				1.0s	32.00nm		4.7mb	SHW	82.41	36 eP	05 42.15	-0.4
		iS	13	30.00					pP	07 28.00	586kmX	PMS	82.56	14 eP	05 41.00	-1.9
		e	14	07.00					iS	14 38.00			1.2s	264.80nm		5.6mb
PET	72.94	347	eP	04	50.00	-1.8			ePc	05 24.54	-0.4	BJI	82.60	316 eP	05 43.50	0.1
		e	06	53.00		596km	CMB	78.96	44 ePc	05 24.54	-0.4		2.0s	370.00nm		5.6mb
		e	07	56.00				1.0s	120.00nm		5.3mb			epP	07 54.00	617kmX
		eS	13	30.00				Z	19s	0.70um	5.0Msz			eSKS	15 08.00	
		ePS	13	56.00					epP	07 33.69	618kmX			eS	15 16.00	
		e	18	24.00					ePP	08 39.69		TTA	82.74	11 eP	05 42.64	-1.1
		e	21	48.00					ePPP	10 57.69			1.2s	68.46nm		5.1mb
OZH	73.27	304	iPd	04	53.80	-0.5			eS	14 40.69				epP	07 51.18	605km
	0.7s	170.00nm			5.7mb				eScS	15 00.69		VGB	82.86	38 eP	05 43.95	-0.8
SSE	74.45	310	iPd	04	58.00	-2.7X			eSP	15 22.69		GMW	82.90	35 eP	05 43.99	-0.8
	1.0s	63.00nm			5.1mb				esS	18 26.68				epP	07 52.50	604km
SDN	74.81	11 eP	04	59.45	-2.7X				eSS	18 44.68		PMR	82.97	14 iPd	05 42.76	-2.0
	0.6s	252.17nm			5.9mb				eSSS	22 43.68			1.0s	132.68nm		5.4mb
VLA	74.97	326 eP	05	02.00	-1.3				eSSS	23 05.68			Z	19s	0.34um	4.7Msz
	5.0s	3283.00nm			6.1mb X				eLO	26 12.68				pP	07 44.92	567kmX
		i	05	16.00		49kmX	PLM	78.97	50 eP	05 25.50	0.2	LON	82.98	36 eP	05 43.95	-1.3
		e	09	56.00					epP	07 32.11	602km			epP	07 52.78	606km
		iS	13	58.00			CN2	78.99	323 Pd	05 24.80	-0.1			S	15 12.58	
NJ2	76.64	310 iPd	05	13.00	0.3			1.0s	170.00nm		5.4mb			e	19 47.10	
	0.8s	59.00nm			5.1mb				epP	07 30.00	593km	TUC	83.00	53 ePc	05 46.44	0.7
		sP	08	14.00					eS	14 40.00			1.5s	221.57nm		5.5mb
GZH	76.66	300 iPd	05	13.00	0.0				eP	05 25.16	0.1	Z	19s	0.66um		5.0Msz
	0.8s	130.00nm			5.4mb				epP	07 29.94	591km			epP	07 54.24	600km
		iS	14	14.00					S	14 35.08				sP	08 56.57	
MDJ	77.21	326 Pd	05	15.50	0.0			Z	18s	0.63um	5.0Msz			S	15 13.35	
	1.1s	130.00nm			5.3mb				epP	07 29.94	591km	PGC	83.20	34 eP	05 47.00	0.8
		PP	08	22.00					S	14 35.08			0.5s	23.00nm		5.0mb
		S	14	20.50			ISA	79.00	47 eP	05 24.81	-0. -					

	1.1s	271.74nm		5.7mb		LZH	89.56	308	iPd	06	17.50	0.6		0.6s	14.00nm		5.7mb		
MCW	83.54	34 eP	05	48.14	0.1		1.5s	130.00nm	sP	09	22.50	5.6mb	GKN	102.65	296 Pd	07	15.60	-0.8	
ARUT	83.56	47 eP	05	48.66	0.2				SS	22	28.00		FCC	103.08	32 ePd	07	25.00	7.7X	
		epP	07	56.73	600km								CNCB	104.86	113 Pd	11	40.00	253.1X	
GYA	83.58	300 iPd	05	49.00	0.2	GOL	90.07	48 ePd	06	19.51	0.2		ZOBO	104.96	113 Pd	11	41.00	253.6X	
	1.0s	46.00nm		5.0mb			1.3s	216.73nm				5.9mb	HYB	105.59	284 ePKP	11	40.50	1.3	
		S	15	17.00		Z	18s	0.43um				4.9Msz	POO	110.21	284 ePKP	11	48.50	0.6	
TIY	84.01	313 Pc	05	51.00	0.4				epP	08	26.46	582kmX	SIV	111.20	116 PKP	12	03.20	13.4X	
	1.0s	140.00nm		5.5mb					ePP	10	01.16		BOM	111.24	284 ePKP	11	50.20	0.4	
LOE	84.46	290 eP	05	54.00	0.9				e	15	44.76				eS	21	26.20		
MSU	84.78	47 ePc	05	54.51	0.0				SP	17	40.63		KSH	111.70	306 PKP	11	52.00	1.7	
		epP	08	03.30	602km	CIT	90.15	326 eP	06	19.50	0.4				PP	12	44.00		
		ePP	09	16.95					e	16	27.00				SKS	18	00.00		
XAN	84.92	308 iPd	05	55.50	0.4	BRW	90.39	7 eP	06	18.30	-1.4				SKKS	18	33.00		
	1.5s	220.00nm		5.6mb		NVL	91.20	184 iPd	06	23.50	-0.2	FRU	113.00	310 ePKP	11	52.00	-0.6		
		pP	08	05.00	606km		1.4s	83.00nm				5.6mb				e	12	52.40	
		sP	09	05.00					epP	08	37.00	619kmX			e	17	45.00		
		SKS	15	22.00					eS	16	28.00				e	27	56.00		
		S	15	38.00					e	17	48.00		CBM	117.84	46 PKP	12	10.00	8.4X	
DUG	85.12	45 eP	05	55.64	-0.4				e	19	10.00			Z 19s	0.68um			5.3Msz	
	0.6s	6.67nm		4.5mb X					esS	20	20.00		QUE	118.26	295 ePKP	12	04.30	1.1	
		epP	08	04.18	600km				e	21	26.00		LMN	120.20	47 ePKP	12	09.00	2.8X	
		ePP	09	22.24					e	23	05.00		SVE	120.69	326 iPKPd	12	05.20	-1.5	
		S	15	27.65		SNA	92.04	179 e(P)	06	28.50	1.0				80.00nm				
		e	20	13.64			1.0s	276.00nm				6.2mb			ePPP	15	16.00		
NST	85.30	288 eP	05	58.00	0.9	RSSD	92.69	44 ePc+	06	30.42	-0.8				e	18	03.00		
ILT	85.53	1 iPc	05	56.00	-1.1		1.2s	43.90nm				5.4mb		ARU	121.88	326 ePKP	12	08.00	-1.0
	1.4s	25.00nm		4.7mb		Z	20s	0.38um				4.8Msz			e	13	52.00		
		isP	08	05.00				epP	08	40.06	596km			BAO	122.29	122 ePKP	12	10.70	-0.4
		i	09	20.00				ePP	10	14.85					i	12	12.90		
		i	15	24.00				e	16	24.09			MAIO	124.65	302 ePKP	12	14.00	-1.2	
		iS	15	37.00		BOD	92.75	331 eP	06	28.70	-2.1				1.0s	19.50nm			
		iSP	16	35.00			1.5s	35.00nm				5.2mb		ASH	125.46	304 ePKP	12	16.00	-0.6
		iSS	21	30.00		WMOK	93.17	55 eP	06	33.22	-0.2			BLE	125.49	199 iPKPd	12	17.50	0.7
DPW	85.64	37 eP	05	57.58	-0.6		1.7s	37.33nm				5.2mb			1.1s	100.00nm			
		epP	08	07.04	604km	Z	18s	0.75um				5.2Msz		KEV	125.51	349 ePKP	12	11.00	-4.7X
HVU	85.90	44 ePc	05	59.60	-0.1			pP	08	44.38	604km			VAN	125.66	304 iPKPd	12	15.50	-1.5
		epP	08	07.23	593km			sP	09	46.17					1.3s	65.00nm			
		ePP	09	26.02		MEO	93.34	55 iPd	06	36.60	2.4X				i	14	17.80		
IMA	86.03	11 eP	05	58.02	-1.8	ACO	93.54	53 iPc	06	34.70	-0.4		CER	125.78	200 ePKP	12	13.40	-4.0X	
	0.6s	6.63nm		4.5mb		GTA	93.74	310 Pd	06	36.00	0.0			1.0s	140.00nm				
HHC	86.07	315 iPd	06	01.00	0.5		1.0s	28.00nm				5.4mb		TUH	125.88	200 iPKPc	12	15.50	-2.0
	1.0s	33.00nm		5.0mb				PP	10	28.00				0.4s	7.00nm				
FBA	86.14	13 ePc	05	57.74	-2.5	YKA	95.00	25 eP	06	39.70	-1.3		SUR	126.15	202 ePKP	12	26.00	7.6X	
	1.0s	58.32nm		5.3mb			0.7s	8.90nm				5.1mb			1.0s	168.00nm			
		epP	08	05.14	591km	ZAK	95.32	321 eP	06	42.00	-0.6				e	14	57.50		
SRU	86.20	47 ePc	06	01.08	-0.2		1.6s	25.00nm				5.2mb	FRS	126.66	208 iPKPc	12	19.50	0.4	
		epP	08	08.32	590km			e	10	39.00				0.9s	100.00nm				
		ePP	09	30.45		IRK	95.42	323 eP+	06	38.00	-5.2X				e	14	29.00		
DAU	86.28	46 ePd	06	01.90	0.1		1.5s	11.00nm				4.9mb	SEK	126.79	211 iPKPc	12	20.00	0.4	
		epP	08	09.60	593km			e	09	50.00				0.6s	33.00nm				
		ePP	09	30.81				e	10	40.00					e	14	22.50		
EMUT	86.31	46 eP	06	01.66	-0.2			eS	17	10.00			BLF	126.82	209 iPKPc	12	21.70	2.0	
		epP	08	11.26	604km			e	18	38.00				0.9s	83.00nm				
		ePP	09	32.06				eSSS	23	50.00					e	14	28.50		
KMI	86.34	298 Pd	06	03.00	0.7	TIK	95.69	346 iPd	06	42.00	-2.0		KAT	126.96	306 ePKP	12	22.00	2.6X	
	1.8s	220.00nm		5.6mb			1.2s	24.00nm				5.3mb			i	14	24.00		
	Z 30s	1.90um		5.3MszX				ipP	08	54.00	608km				e	15	40.00		
	N 11s	0.70um						e	10	44.00			SDF	127.62	347 ePKP	12	14.00	-5.8X	
	E 11s	0.40um						iS	16	21.00			BFT	127.68	215 ePKP	12	21.50	0.0	
NEW	86.46	37 ePc	06	00.87	-1.3			iPS	17	10.00			PRY	128.02	212 ePKP	12	21.50	-0.5	
	1.2s	114.45nm		5.5mb				e	18	30.00				0.5s	37.00nm				
		epP	09	33.20		MOY	97.13	322 eP	06	50.00	-0.8				e	14	37.00		
BDT	86.85	289 eP	06	00.00	-4.5X	MIAR	97.19	56 eP	06	51.41	-0.2		SLR	128.58	213 ePKP	12	19.10	-4.0X	
	0.8s	16.00nm		4.8mb			0.6s	2.45nm				4.7mb		1.1s	70.00nm				
BTO	87.00	314 P	06	04.00	-0.9			epP	08	59.75	586kmX				e	14	29.00		
		S	15	57.50				sP	10	09.83			KAF	132.07	344 ePKP	12	18.10	-10.3X	
		eSS	22	02.00				e	16	16.75			SHE	132.49	309 iPKPd	12	32.00	2.2	
ALQ	87.38	52 eP	06	06.85	-0.1			SP	19	00.47				0.8s	160.00nm				
	1.4s	133.78nm		5.5mb		LSA	97.56	299 P	06	53.00	-1.0				i	15	03.00		
	Z 18s	0.62um		5.0Msz		FVM	100.56	53 ePd	07	08.36	1.7		MOS	132.63	332 ePKP	12	29.00	-0.6	
CHG	87.43	291 iPd	06	08.00	0.7		1.2s	21.53nm				5.5mb			e	15	02.00		
	1.0s	57.50.																	

GEC2	147.12	343	ePKPc	12	55.30	-0.5
			ec	12	58.70	
			e	13	00.30	
			e	13	01.60	
			e	13	08.40	
SNF	147.24	355	iPKPc	12	58.29	2.6X
CPZ	147.50	7	ePKP	12	57.10	0.9
ELL	147.54	311	iPKP	12	58.10	1.2
DOU	147.63	354	PKPc	12	57.80	1.4
			e	13	00.00	
			e	13	35.80	
			e	15	17.00	
DOMF	147.66	355	PKP	12	55.62	-0.8
KMR	147.71	342	iPKP+	12	57.40	0.8
			i	13	03.40	
			ipPKP	15	19.00	
ALN	147.86	321	e(PKP)	12	57.60	0.6
WLF	147.88	352	iPKPc	12	59.04	2.3X
			id	13	02.72	
			e	15	19.00	
LANF	148.30	350	PKP	12	58.76	1.2
8HG	148.37	343	iPKPd	13	01.60	3.9X
FUR	148.38	345	ePKP	13	00.20	2.5X
			i	13	03.40	
			i	15	17.70	
			i	15	20.80	
CIN	148.40	314	ePKP	12	58.00	0.0
YER	148.50	313	iPKP	13	02.00	3.7X
IZM	148.53	316	iPKP	13	02.20	3.9X
KBA	148.82	342	ePKP	13	00.00	1.4
WLS	148.93	350	PKP	12	59.04	0.5
CDF	148.94	350	PKP	12	59.47	0.8
PTJ	149.01	338	ePKP	13	00.60	1.8
ZAG	149.07	338	ePKP	13	01.10	2.4
WTTA	149.12	344	ePKP	13	00.00	0.9
			i	13	03.40	
			i	13	11.70	
			i	15	21.10	
LIBD	149.14	350	PKP	12	59.83	1.1
SRS	149.14	324	e(PKP)	12	59.24	0.2
ECH	149.15	350	PKP	13	00.41	1.6
MOTA	149.18	345	ePKP	13	00.00	0.9
			i	13	03.70	
			i	13	12.50	
FLN	149.19	0	ePKP	12	58.80	0.0
	0.9s	40.45nm				
SOTA	149.27	345	ePKP	13	00.00	0.8
			i	13	03.80	
			i	13	12.00	
VITF	149.32	352	PKP	13	00.15	1.1
RBL	149.33	341	PKP	13	02.10	2.9X
FEL	149.34	349	PKP	12	59.81	0.5
LDF	149.36	360	ePKP	12	59.00	-0.1
	0.9s	27.85nm				
LJU	149.38	340	ePKP	12	58.00	-1.2
			e	13	02.00	
			i	13	05.50	
			e(PP)	15	24.50	
FVI	149.43	342	PKP	13	01.20	2.0
SOH	149.47	323	i(PKP)	13	03.12	3.5X
HAU	149.48	351	ePKP	12	59.40	0.0
	1.1s	30.05nm				
KNT	149.50	324	e(PKP)	13	03.28	3.7X
MOF	149.51	350	PKP	13	00.49	1.0
GRR	149.56	1	ePKP	12	59.60	0.2
	0.9s	24.55nm				
VAY	149.57	325	ePKP	13	01.00	1.4
	0.9s	263.00nm				
			i	13	05.60	
BSF	149.58	351	ePKP	12	59.50	-0.1
	1.2s	44.05nm				
VOY	149.59	340	ePKP	13	00.90	1.2
			i	13	04.30	
			e	14	15.00	</

THE	149.82	324	e(PKP)	13	00.60	0.6	RJF	152.61	357	ePKP	13	04.50	0.5	1.2s	20.00nm	e	44	29.00		
IVA	149.82	330	iPKPc	12	59.55	-0.6		1.3s	56.30nm					OBN	29.07	130	ePc	44	31.00	-1.1
BBS	149.82	350	PKP	13	00.92	1.0	ASS	152.63	339	PKP	13	05.80	1.6	1.2s	26.00nm	e	45	28.00	4.9mb	
PAIG	149.87	322	e(PKP)	12	59.32	-0.8		0.8s	39.60nm											
LPF	149.91	1	ePKP	13	00.20	0.3	BRT	152.64	331	PKP	13	06.03	1.9	MNK	29.32	141	eP	44	29.00	-5.3X
	0.9s	32.45nm						1.0s	236.30nm					SVE	30.55	103	ePd	44	45.00	-0.3
GRG	149.92	325	e(PKP)	13	00.72	0.5	LCI	152.70	329	PKP	13	05.34	1.1	ARU	30.66	105	eP	44	46.00	-0.2
TRI	149.92	340	PKP	13	02.43	2.4X		0.8s	341.20nm						1.7s	70.00nm			5.3mb	
	0.9s	2460.50nm					PII	152.70	343	PKP	13	03.90	-0.2	Z	16s	0.50um			4.3Mszx	
PVY	150.00	329	iPKPc	12	59.58	-0.8	PZZ	152.76	349	PKP	13	06.24	1.8	N	16s	0.50um				
RIY	150.04	339	iPKP	13	01.50	1.3	FG2	152.78	334	PKP	13	06.40	2.1							
LOMF	150.05	350	PKP	13	01.51	1.2		1.3s	189.50nm					ILT	30.69	356	iPc	44	46.00	-0.4
CTI	150.24	343	PKP	12	59.00	-1.7	ROB	152.81	347	PKP	13	05.60	1.2		1.0s	12.00nm			4.7mb	
NKY	150.29	331	iPKPc	13	00.40	-0.4	FIN	152.82	347	PKP	13	05.83	1.5	CLL	30.84	159	iPc	44	47.30	-0.5
BRY	150.43	331	iPKPc	13	00.59	-0.5	SURF	152.83	349	PKP	13	06.72	2.1		1.6s	38.00nm			5.0mb	
PHP	150.44	328	ePKP	13	02.40	1.4	CAF	152.96	357	ePKP	13	05.30	0.8	BRG	31.32	158	iPc	44	52.00	-0.1
LIT	150.45	323	e(PKP)	13	01.00	-0.1		1.2s	26.20nm						1.0s	28.00nm			5.1mb	
TTG	150.46	330	iPKPc	13	00.64	-0.3	ENR	152.96	348	PKP	13	06.56	1.9	MOX	31.43	161	ePd	44	53.20	0.1
LOR	150.50	354	ePKP	13	01.20	0.3	STV	152.96	348	PKP	13	06.33	1.7		1.3s	38.00nm			5.1mb	
	1.0s	26.60nm					AQU	153.00	338	PKP	13	12.80	8.1X							
HYF	150.59	356	ePKP	13	00.90	-0.1	LFF	153.00	359	ePKP	13	05.00	0.5	KSP	31.49	155	eP	44	58.00	-0.6
FNA	150.60	325	e(PKP)	13	06.36	5.0X		0.8s	11.15nm											
SDA	150.64	329	ePKP	13	03.80	2.6X	SAOF	153.17	348	PKP	13	07.42	2.6X	YKA	31.62	304	eP	45	00.30	5.7X
OHR	150.67	327	iPKP	13	02.60	1.2	IMI	153.17	347	PKP	13	06.65	1.8		1.0s	1.30nm			3.8mb X	
	1.3s	91.00nm					AUTN	153.18	348	PKP	13	07.79	2.7X	IMA	31.69	337 (P)		44	55.40	0.0
		i	13	06.80			FG4	153.19	333	PKP	13	14.02	9.1X		1.0s	2.00nm			4.0mb	
SSF	150.73	355	ePKP	13	01.60	0.4		0.2s	36.50nm					PRU	32.24	158	eP	44	58.30	-1.9
	0.9s	25.90nm					TOUF	153.20	348	PKP	13	09.37	4.3X	OJC	32.34	151	eP	45	01.20	0.1
LBF	150.77	354	ePKP	13	01.60	0.2	MNS	153.23	339	PKP	13	04.75	-0.2	GRF	32.37	162	iPd	45	01.80	0.5
	1.2s	25.60nm						1.0s	151.00nm						1.2s	27.00nm			5.1mb	
BDV	150.78	330	iPKPc	13	01.14	-0.3	LPO	153.25	358	ePKP	13	05.40	0.5							
HCY	150.81	331	iPKPc	13	01.29	-0.2	AURF	153.31	348	PKP	13	09.74	4.6X	FBA	32.47	332	eP	45	02.77	0.7
ULC	150.82	329	iPKPc	13	01.14	-0.4	SBF	153.31	348	PKP	13	08.62	3.5X		1.0s	4.45nm			4.3mb	
LACI	150.84	328	ePKP	13	07.30	5.8X	SDI	153.40	336	PKP	13	05.80	0.5	FCC	32.48	284	eP	45	06.00	3.9X
SAL	150.95	344	PKP	13	07.79	6.2X		0.8s	56.70nm					VRAC	33.04	155	eP	45	07.40	0.4
	0.8s	558.10nm					ORI	153.63	330	PKP	13	16.38	10.8X		1.3s	105.20nm			5.6mb	
TIR	150.98	328	ePKP	13	04.10	2.3	RMP	153.73	338	PKP	13	15.60	10.0X	KHC	33.04	159	Pc	45	08.10	0.9
MDI	150.99	346	PKP	13	07.01	5.4X	SGO	153.75	333	PKP	13	07.09	1.5							
	0.6s	73.10nm						0.8s	39.50nm				GEC2	33.33	159	ePd	45	10.30	0.5	
AVF	151.02	355	ePKP	13	01.70	0.1	RDP	153.77	338	PKP	13	15.90	10.2X		0.9s	12.26nm			4.8mb	
VAI	151.12	347	PKP	13	01.93	0.2	CSI	153.94	330	PKP	13	04.60	-1.4							
	1.0s	272.20nm					MGR	153.99	332	PKP	13	05.11	-0.9							
HVAR	151.12	334	iPKPd	13	06.90	5.0X		1.1s	102.90nm				SPC	33.40	151	eP	45	11.90	1.4	
SMF	151.12	354	ePKP	13	02.00	0.2	TDS	154.00	330	PKP	13	05.51	-0.5	HAU	33.86	168	eP	45	14.20	-0.1
	1.0s	10.40nm						1.1s	34.40nm					0.7s	12.00nm			4.9mb		
AGG	151.25	322	e(PKP)	13	03.04	0.7	PGF	154.20	344	PKP	13	08.27	1.9	BSF	34.05	167	eP	45	15.80	-0.2
BGF	151.29	356	ePKP	13	02.60	0.5	GRI	154.62	329	PKP	13	01.28	-5.7X		1.1s	11.70nm			4.7mb	
	0.8s	16.50nm						0.1s	19.60nm				UZH	34.10	149	ePc	45	18.50	2.2	
MFF	151.35	360	ePKP	13	02.40	0.3	EPF	154.92	359	ePKP	13	08.00	0.8	YAK	34.48	37	eP	45	18.00	-1.4
LSK	151.46	325	ePKP	13	10.80	8.2X	SOI	155.38	328	PKP	13	07.92	0.0		0.9s	56.00nm			5.5mb	
ORO	151.51	348	PKP	13	08.63	6.1X		1.1s	95.90nm				LOR	34.53	171	eP	45	19.30	-0.8	
	0.7s	72.40nm					ERC	157.02	334	PKP	13	17.87	7.7X		0.9s	13.25nm			4.8mb	
TCF	151.60	357	ePKP	13	02.90	0.4	PAB	158.10	9	ePKP	13	14.00	2.6X	JAQ	34.59	264	eP	45	20.50	0.0
	1.1s	36.65nm					AVE	163.31	22	iPKP	13	19.00	2.2	SSF	34.73	171	eP	45	21.20	-0.6
MAF	151.64	356	ePKP	13	02.70	0.1		S.D. = 1.1	on 434 of 537 obs.						0.8s	12.75nm			4.9mb	
	1.7s	59.55nm											LBF	34.82	171	eP	45	21.80	-0.8	
LSF	151.67	358	ePKP	13	02.60	0.0									1.0s	21.60nm			5.0mb	
	1.0s	16.00nm											AVF	35.00	172	eP	45	23.40	-0.6	
VLO	151.82	327	ePKP	13	13.10	10.1X		APR 24, 1993	10h 38m 30.12±0.22s					1.2s	26.20nm			5.0mb		
LSD	151.83	349	PKP	13	05.74	2.5X		81.577 N ± 3.5km	3.693 W ± 4.1km				SMF	35.16	171	eP	45	24.50	-0.9	
LPL	151.84	350	ePKP	13	03.90	0.7		DEPTH = 10.0km	(geophysicist)					0.8s	5.25nm			4.5mb		
LPG	151.86	350	ePKP	13	03.90	0.6		4.9mb (51 obs.)					BGF	35.22	172	eP	45	25.50	-0.5	
	1.5s	30.30nm					NORTH OF SVALBARD	(641)						1.1s	33.20nm			5.1mb		
RSM	151.93	340	PKP	13	06.19	3.2X	DAG	5.58	218	iPc	39	52.10	-2.9	TCF	35.48	173	eP	45	27.60	-0.6
	1.0s	432.60nm						0.9s	193.28nm					1.2s	21.70nm			4.9mb		
SRN	151.98	326	ePKP	13	04.50	1.3	KEV	13.75	132	iP	41	45.70	-1.3	LSF	35.51	174	eP	45	27.60	-0.8
BOB	152.00	345	PKP	13	04.20	1.0		0.8s	11.70nm						1.2s	22.30nm			4.9mb	
IGT	152.04	325	e(PKP)	13	03.72	0.4	ARA0	13.80	134	Pn	41	44.39	-3.3X	MAF	35.55	173	eP	45	28.20	-0.6
RSP	152.10	349	PKP	13	04.59	1.2			Sn	44	09.71			1.1s	19.80nm			4.9mb		
SFI	152.13	341	PKP	13	05.30	2.0	SDF	15.93	135	iP	42	14.00	-1.4	RBL	35.73	159	P	45	31.00	0.7
ARV	152.16	339	PKP	13	03.80	0.4	MBC	19.08	319	eP	42	55.00	0.4	CTI	36.02	162	P	45	33.70	0.8
	0.8s	151.20nm						1.0s	6.00nm				VOY	36.15	159	e(P)d	45	33.70	-0.3	
PGD	152.21	341	PKP	13	06.98	3.3X	NB2	21.03	160	P	43	14.20	-1.7							
	0.6s	55.60nm						0.8s	15.20nm											
BNI	152.30	350	PKP	13	06.25	2.5X	KAF	21.10	139	iP	43	15.50	-1.0	LJU	36.17	158	e(P)	45	34.50	0.5
	0.5s	43.70nm						1.1s	39.00nm				LPL	36.36	168	eP	45	36.60	0.7	
CRE	152.36	341	PKP	13	03.54	-0.3								0.9s	23.75nm			5.0mb		
	1.0s	67.00nm					NRA0	21.35	159	P	43	18.19	-0.9	LPG	36.38	168	eP	45	36.90	0.8
BDI	152.36	343	PKP	13	05.10	1.3	FIA0	21.73	140	P	43	22.56	-0.3		1.2s	43.75nm			5.2mb	
SSB	152.39	353	PKP	13	05.84	2.1	HFS	22.07	157	eP	43	25.30	-1.0	RJF	36.45	174	eP	45	36.00	-0.4
BHB	152.40	349	PKP	13	04.69	1.0		0.9s	28.70nm					1.1s	33.95nm					

• APR 24, 1993 10h 49m 00.46 \pm 1.39s
20.946 S \pm 7.2km 177.802 W \pm 10.5km
DEPTH = 381.6 \pm 14.9 km
4.7mb (20 obs.)

(181)

VUN	4.58	309	iPc	50	17.50	-0.2
DZM	14.71	263	iPd	52	14.80	1.8
KUZ	16.73	198	eP	52	36.90	3.0X
URZ	17.81	193	eP	52	43.40	-1.4
	0.3s	47.00nm				5.3mb
NOZ	17.97	191	P	52	47.50	1.0
	0.3s	25.00nm				5.0mb
MNG	20.43	195	eP	53	09.40	-1.1
	0.2s	17.00nm				5.1mb
KIW	20.80	196	eP	53	13.80	-0.3
MTW	20.94	194	eP	53	14.40	-1.0
CAW	20.99	195	eP	53	15.10	-0.9
MRW	21.20	196	eP	53	17.90	0.0
TCW	21.29	197	eP	53	18.50	-0.3
QRZ	21.46	200	eP	53	21.90	1.5
THZ	22.19	199	eP	53	28.20	0.8
KHZ	22.61	197	eP	53	30.70	-0.5
LTZ	23.31	199	eP	53	36.10	-1.6
WVZ	24.06	201	eP	53	43.60	-0.9
RMQ	31.06	253	iPc	54	47.30	0.7
	1.0s	21.00nm				4.4mb
CNB	32.13	236	iPc	54	57.80	1.9
	0.3s	11.00nm				4.7mb
CTA	33.63	265	iPd	55	09.00	0.4
	0.8s	33.58nm				4.7mb
CMS	34.14	245	eP	55	14.80	2.1
	0.8s	6.00nm				4.0mb
QLP	35.11	253	eP	55	21.00	0.1
PMG	35.62	283	eP	55	25.00	-0.4
TOO	35.79	234	iPd	55	28.20	1.6
	0.3s	17.00nm				4.9mb
STK	37.77	245	eP	55	43.80	0.8
	0.3s	2.50nm				4.0mb
ASPA	44.60	257	iPd	56	37.50	-0.8
	0.6s	31.20nm				4.8mb
		eS	02	43.60		
WBZ	44.71	262	iPd	56	37.80	-1.4
	0.3s	36.00nm				5.1mb
		eS	02	47.90		
WRA	44.72	262	P	56	38.20	-1.1
	0.6s	8.40nm				4.2mb
GUA	50.16	310	e(P)	57	14.80	-6.2X
	0.7s	164.38nm				5.5mb
		e	57	19.90		
PJG	50.23	310	e(P)	57	17.80	-3.7X
		eP	57	20.30		
MAT	70.68	324	eP	59	36.00	-1.7
ADK	72.52	1	eP	59	45.17	-2.8X
	0.5s	19.37nm				5.0mb
SMY	73.70	355	(P)	59	52.34	-2.5
	0.4s	21.96nm				5.2mb
PLM	79.31	48	eP	00	28.20	1.8
PEC	79.40	48	eP	00	28.10	1.4
	0.6s	4.41nm				4.4mb
MSU	85.28	46	eP	00	58.38	1.7
SRV	86.70	46	eP	01	04.38	0.9
PU09	87.34	47	eP	01	07.00	0.3
FBA	88.64	12	iPc	01	09.27	-2.5
	0.7s	6.55nm				4.6mb
IMA	88.65	10	eP	01	10.41	-1.6
	0.7s	1.25nm				3.9mb
8W06	89.17	43	eP	01	15.33	0.3
	0.6s	1.49nm				4.0mb
LCCM	89.29	40	eP	01	16.40	1.0
RSSD	93.34	44	eP	01	34.93	0.7
	0.8s	2.99nm				4.4mb
KAF	135.63	344	ePKP	07	34.50	-2.4X
	0.6s	3.20nm				
NUR	137.42	344	ePKP	07	30.30	-10.0X
HFS	140.01	351	ePKP	07	34.50	-10.6X
	0.6s	2.30nm				
EKA	145.43	5	PKPc	07	54.00	-0.6
	1.0s	7.90nm				
WIT	148.00	355	ePKP	08	03.00	4.2X
KSP	148.17	343	iPKPd	08	02.40	3.2X
	0.6s	23.00nm				
CLL	148.54	347	iPKPd	08	03.10	3.4X
	0.9s	40.00nm				
		i	08	07.00		
BRG	148.74	346	iPKP	08	03.80	3.8X
	0.8s	18.00nm				
		i	08	08.20		
WTS	148.80	354	ePKP	08	04.00	4.0X
	0.8s	22.70nm				
PRU	149.41	344	iPKPd	08	05.30	4.2X

	0.6 s		6.10nm	e	08 11.00	
MOX	149.44	348	ePKP	08 05.50	4.4X	
	1.1 s		13.00nm			
ENN	150.10	355	ePKP	08 07.50	5.5X	
	0.9 s		15.70nm			
			e	08 13.50		
GRF	150.43	348	iPKPd	08 08.30	5.6X	
			e	08 15.70		
KHC	150.44	345	PKP	08 08.00	5.3X	
	1.0 s		5.40nm			
			e	08 16.00		
SNF	150.45	357	PKPc	08 15.30	12.7X	
GEC2	150.68	344	ePKPd	08 08.30	5.1X	
	0.7 s		3.80nm			
			e	08 16.70		
DOU	150.85	357	PKPc	08 09.10	5.9X	
	0.7 s		20.00nm			
WLF	151.17	355	PKP	08 10.00	6.3X	
FLN	152.16	4	ePKP	08 11.30	6.1X	
	0.3 s		3.00nm			
CDF	152.29	353	ePKP	08 11.90	6.4X	
	0.6 s		2.45nm			
LDF	152.35	3	ePKP	08 11.60	6.1X	
	0.5 s		3.45nm			
GRR	152.51	4	ePKP	08 12.30	6.6X	
	0.5 s		5.85nm			
HAU	152.80	354	ePKP	08 12.90	6.7X	
	0.4 s		1.60nm			
LPF	152.85	5	ePKP	08 13.10	6.9X	
	0.5 s		6.50nm			
BSF	152.92	353	ePKP	08 13.20	6.7X	
	0.6 s		2.25nm			
VOY	153.21	342	i(PKP)	08 13.70	6.8X	
			ePKPa b	08 26.20		
VBY	153.25	339	ePKP	08 14.20	7.4X	
LOR	153.71	357	ePKP	08 15.10	7.7X	
	0.5 s		1.40nm			
SSF	153.93	358	ePKP	08 15.40	7.7X	
MFF	154.34	4	ePKP	08 18.00	9.8X	
S.D. = 1.3 on 39 of 72 obs.						
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APR 24, 1993 11h 23m 55.75± 0.27s						
42.954 N ± 3.9km 18.013 E ± 3.2km						
DEPTH = 5.0km (geophysicist)						
NORTHWESTERN BALKAN REGION (383)						
ML 3.4 (TTG), 3.0 (TIR). Felt at Metkovic, Croatia.						
BRY	0.39	98	iPg c	24 03.30	-0.4	
			iSg	24 09.50		
H CY	0.62	145	iPg c	24 07.56	-0.6	
			iSg	24 18.01		
NKY	0.74	101	iPg d	24 09.15	-1.4	
			iSg	24 20.68		
BDV	0.90	138	iPg c	24 12.60	-0.9	
			iSg	24 27.26		
TTG	1.06	119	iPg c	24 14.96	-1.2	
			iSg	24 32.13		
PLE	1.08	69	iPg c	24 15.20	-1.4	
			iSg	24 31.05		
HVAR	1.17	282	iPg c	24 15.40	-2.6X	
			iSg	24 33.40		
ULC	1.35	137	iPg d	24 20.25	-0.9	
			iSg	24 41.90		
I VA	1.39	93	iPg c	24 21.42	-0.4	
			iSg	24 41.72		
SDA	1.42	129	iPnc	24 23.90	1.7	
			iSn	24 45.60		
PVY	1.49	103	iPg d	24 23.48	0.2	
			iSg	24 44.92		
LAC I	1.82	136	ePn	24 30.20	2.2	
			iSn	24 59.30		
TIR	2.12	139	ePn	24 33.00	0.8	
			iSn	25 08.50		
BRT	2.16	197	P	24 31.60	-1.3	
			eSn	24 58.60		
PHP	2.20	124	ePn	24 36.00	2.5	
			iSn	25 11.00		
SKO	2.72	110	iPn	24 42.50	1.6	
			i	25 23.80		
			Lg	25 33.50		
OHR	2.77	131	iPn	24 47.30	5.6X	
TPE	3.05	150	ePn	24 50.50	5.0X	
SGO	3.13	221	P	24 47.10	0.4	
ZAG	3.21	334	e(Pn)	24 49.00	1.2	
			eSn	25 26.50		

VBV	3.23	323	ePn	24 48.80	0.7	S.D. = 0.1 on 4 of 4 obs. % APR 24, 1993 13h 45m 01.67±3.69s 42.973 N ±13.0km 18.032 E ±25.2km DEPTH = 10.0km (geophysicist) NORTHWESTERN BALKAN REGION (383) ML 2.3 (TTG).	DZM	38.96	116	iPc	13 27.10	-0.1
PTJ	3.29	334	iSn	25 29.50			CHG	39.35	311	eP	13 31.30	1.0
			iPn	24 48.90	-0.2			1.0s	12.50nm			4.6mb
			iSn	25 26.70			XAN	45.21	336	P	14 17.00	-0.8
FNA	3.32	130	eP	24 56.18	6.7X	S.D. = 0.6 on 9 of 9 obs. APR 24, 1993 14h 06m 11.63±0.76s 7.179 S ±5.1km 129.049 E ±4.7km DEPTH = 126.7 ± 7.7 km 5.0mb (15 obs.) BANDA SEA (280)	LZH	1.2s	6.60nm			4.2mb
SDI	3.35	250	P	24 50.90	1.0			49.12	333	eP	14 49.00	0.5
MGR	3.37	214	P	24 48.70	-1.3			1.5s	24.00nm			4.8mb
			eSn	25 28.60			MNG	53.05	136	P	15 16.10	-1.7
LSK	3.41	144	ePn	24 57.80	7.1X	S.D. = 0.9 on 38 of 43 obs. & APR 24, 1993 14h 13m 42.19s 59.866 N 148.620 W DEPTH = 9.2km KENAI PENINSULA, ALASKA (14) <AEIC>. ML 3.5 (AEIC).	GTA	53.68	332	P	15 21.50	-1.1
SRN	3.42	153	ePn	25 01.50	10.8X			1.2s	16.00nm			4.8mb
ARV	3.75	280	P	24 54.80	-0.7		GUN	54.36	312	P	15 27.80	-0.3
			eSn	25 38.00			PKI	54.53	311	P	15 28.60	-0.7
VAY	3.76	114	ePn	25 05.70	10.0X	S.D. = 1.1 on 41 of 48 obs. % APR 24, 1993 12h 09m 23.13±1.47s 18.485 N ±19.7km 66.172 W ±8.9km DEPTH = 60.0km (geophysicist) PUERTO RICO REGION (90)	KKN	0.6s	21.00nm			5.2mb
CEY	3.79	318	ePn	24 56.50	0.4		DMN	54.78	311	P	15 30.60	-0.1
			e	25 08.50				0.6s	28.00nm			5.4mb
			eSn	25 44.50			GBA	55.24	292	P	15 33.00	-1.1
GRG	3.83	120	eP	24 57.34	0.6	S.D. = 0.3 on 7 of 7 obs.	GKN	55.34	311	P	15 34.40	-0.5
IGT	3.84	152	eP	24 55.50	-1.3		WMQ	63.03	328	eP	16 28.40	0.9
ASS	3.93	274	P	24 58.30	0.2		CNCB	150.81	145	PKP	25 54.00	7.7X
			eSn	25 44.70			LPB	150.97	144	ePKP	26 05.00	18.7X
LJU	3.97	322	e(Pn)	24 57.00	-1.6	S.D. = 0.3 on 7 of 7 obs.	ZOBO	151.16	144	PKP	25 55.30	8.5X
			eSn	25 48.00								
MNS	3.97	264	P	24 57.60	-1.1							
			eSn	25 44.90								
KNT	4.05	115	eP	25 00.14	0.3	S.D. = 0.3 on 7 of 7 obs.						
TRI	4.11	314	e(Pn)	25 00.20	-0.3							
			e(Pg)	25 11.20								
			e(Sn)	25 49.20								
			e(Sb)	26 03.80		S.D. = 0.3 on 7 of 7 obs.						
			e(Sg)	26 07.80								
			e(SgSg)	26 12.50								
			e(Pn)	25 02.40	-0.4							
VOY	4.26	318	e(Pg)	25 15.00		S.D. = 0.3 on 7 of 7 obs.						
			eSn	25 53.50								
			e(Sg)	26 10.90								
			e(Sg)	26 10.90								
CRE	4.48	281	P	25 06.70	0.8	S.D. = 0.3 on 7 of 7 obs.	MPA	0.73	330	iP	13 55.51	-1.0
SFI	4.59	284	P	25 08.20	0.8		PTE	1.02	349	P	14 00.60	-1.0
RBL	4.71	319	P	25 09.80	0.6							
FVI	5.21	316	P	25 16.50	0.4		SLKM	1.03	310	P	14 00.60	-1.1
CTI	5.50	306	P	25 20.90	0.4	S.D. = 0.3 on 7 of 7 obs.	BRK	1.15	266	eP	14 02.44	-1.3
WTTA	6.24	316	iPnc	25 31.50	0.6							
			iSn	26 42.00			HIN	1.19	62	iP	14 02.75	-1.7
			iPnc	25 31.40	-0.6							
WATA	6.32	316	iPnc	25 31.40	-0.6	S.D. = 0.3 on 7 of 7 obs.	CNPM	1.37	257	eP	14 05.57	-1.9
			iSn	26 53.20								
MOTA	6.57	314	iPnd	25 34.90	-0.6		NKA	1.57	305	eP	14 10.89	0.6
			iSn	26 46.50			CVA	1.59	63	iP	14 08.01	-2.5
GEC2	6.61	334	Pg	25 35.00	-1.1	S.D. = 0.3 on 7 of 7 obs.						
			Sg	26 48.40			VLZ	1.70	41	iP	14 10.35	-1.8
KHC	6.90	335	ePn	25 40.00	-0.1							
			e	25 55.90			PMR	1.75	352	ePd	14 10.58	-2.3
			e	26 26.00		S.D. = 0.3 on 7 of 7 obs.						
			e	26 40.00			SUA	1.91	328	eP	14 13.42	-1.9
			eSg	26 55.00			SML	1.95	4	eP	14 14.06	-1.8
							RAGM	2.04	73	eP	14 14.39	-2.8
						S.D. = 0.3 on 7 of 7 obs.	SCM	2.07	17	P	14 16.20	-1.4
							KLU	2.10	38	iP	14 16.39	-1.7
							KAIM	2.12	87	P	14 16.20	-2.0
							SFU	2.15	309	eP	14 17.14	-1.6
						S.D. = 0.3 on 7 of 7 obs.						
							RSO	2.15	288	eP	14 17.63	-1.2
							RS1	2.15	288	eP	14 17.39	-1.5
							RS2	2.15	288	eP	14 17.48	-1.4
						S.D. = 0.3 on 7 of 7 obs.	DFR	2.16	292	P	14 19.60	0.8
							RDW	2.18	288	eP	14 17.72	-1.6
							CKT	2.22	309	eP	14 18.60	-1.2
							CKN	2.23	309	eP	14 19.20	-0.6
						S.D. = 0.3 on 7 of 7 obs.	CPAM	2.23	310	eP	14 18.54	-1.4
							CRP	2.24	310	eP	14 19.37	-0.8
							INE	2.24	277	eP	14 19.86	-0.3
							NCT	2.26	290	eP	14 18.67	-1.7
						S.D. = 0.3 on 7 of 7 obs.	CKL	2.27	308	P	14 19.60	-0.9
							CP2	2.27	310	eP	14 19.61	-1.0
							INW	2.28	277	eP	14 20.75	0.1
						S.D. = 0.3 on 7 of 7 obs.	SYI	2.31	239	eP	14 20.32	-0.6
							BGL	2.33	309	eP	14 20.09	-1.3
							OPT	2.34	267	eP	14 22.71	1.2
						S.D. = 0.3 on 7 of 7 obs.	AUE	2.47	260	eP	14 22.82	-0.3
							AUL	2.49	261	eP	14 24.21	0.7
							AUI	2.50	260	P	14 25.60	2.0
							AUH	2.50	260	P	14 25.60	1.9
SRS	0.87	305	ePg	45 18.14	0.1	S.D. = 0.3 on 7 of 7 obs.	AUW	2.51	261	eP	14 23.97	0.1
			eSg	45 31.06			SKT	2.55	327	P	14 23.10	-1.3
SOH	0.92	282	ePg	45 18.98	0.0		TZL	2.68	34	eP	14 25.49	-0.8
			eSg	45 32.50			CDD	2.74	252	eP	14 26.10	-1.0
PAIG	0.96	223	ePg	45 19.66	0.0	S.D. = 0.3 on 7 of 7 obs.	GLB	2.85	54	iP	14 26.26	-2.4
			eSg	45 33.66								
			eSg	45 33.66								
KNT	1.35	294	ePb	45 26.20	-0.1							

24d 14h

CROM 2.87 69 iP 14 26.28 -2.8
 SNH 2.92 81 eP 14 27.25 -2.4
 KDC 2.93 225 ePn 14 26.31 -3.4
 ePg 14 35.01
 S 15 14.53
 MCNL 2.99 259 eP 14 30.23 -0.4
 TGL 3.02 70 iP 14 28.10 -3.0
 SDG 3.06 28 eP 14 30.53 -1.0
 HUR 3.16 352 eP 14 32.91 -0.1
 BALM 3.32 67 iP 14 32.62 -2.9
 PAX 3.46 25 eP 14 36.28 -1.1
 RND 3.55 358 eP 14 37.53 -1.2
 TRF 3.68 348 eP 14 39.55 -1.1
 CTGM 3.78 70 eP 14 39.28 -2.7
 MCK 3.88 358 eP 14 42.41 -0.9
 HDA 4.62 9 eP 14 52.09 -1.7
 WRH 4.63 3 eP 14 51.96 -1.9
 TTA 4.70 314 eP 14 52.86 -2.1
 S 16 08.83
 NEA 4.73 358 eP 14 53.26 -2.1
 CCB 4.81 4 eP 14 54.04 -2.5
 FBA 5.07 4 eP 14 56.50 -3.6
 MLY 5.28 350 iP 15 00.91 -2.2
 IMA 6.64 342 eP 15 18.21 -4.1
 MBC 19.33 21 eP 18 07.00 -3.0
 65 obs. associated

% APR 24, 1993 15h 23m 14.70 ± 0.84s
 39.072 N ± 5.2km 27.508 E ± 9.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

Izm 0.70 196 iPg 23 28.80 0.2
 iSg 23 37.30
 DST 1.02 58 iPg 23 34.60 0.6
 eSg 23 48.40
 EDC 1.30 12 iPn 23 38.00 -0.8
 BNT 1.32 14 iPn 23 39.20 0.1
 KCT 1.35 29 ePn 23 40.10 0.6
 KHL 1.75 115 ePn 23 45.00 -0.3
 ALT 2.03 90 ePn 23 49.00 -0.4
 YLV 2.07 43 ePn 23 50.00 0.0
 EYL 2.53 53 ePn 23 56.50 -0.1
 S.D. = 0.5 on 9 of 9 obs.

APR 24, 1993 15h 45m 37.93 ± 1.39s
 11.926 N ± 5.8km 124.124 E ± 9.2km
 DEPTH = 42.6 ± 13.0 km
 4.6mb (22 obs.) 4.1Msz (5 obs.)
 LEYTE, PHILIPPINE ISLANDS (256)

OCP 4.01 313 eP 46 07.50 -30.9X
 DAV 5.02 163 eP 46 55.00 2.3
 BAG 5.63 323 eP 47 00.50 -1.1
 QIZ 15.46 299 eP 49 13.40 -1.4
 NJ2 20.61 347 Pd 50 16.50 0.4
 WHN 20.62 335 ePd 50 19.50 3.2X
 1.4s 68.00nm 4.8mb
 Z 18s 0.73um 4.1Msz
 KGM 22.85 246 eP 50 39.50 0.8
 IPM 23.98 254 ePc 50 50.80 1.1
 KMI 24.11 306 eP 50 55.00 3.9X
 Z 14s 0.60um 4.2MszX
 TIA 24.99 347 eP 50 58.90 -0.4
 1.2s 40.00nm 4.9mb
 Z 21s 0.62um 4.1Msz
 XAN 26.02 330 iPc 51 08.00 -0.9
 1.0s 13.00nm 4.4mb
 Z 15s 0.59um 4.2MszX
 N 12s 0.21um
 E 12s 0.31um
 SCS 01 57.00
 CD2 26.68 318 iPc 51 14.70 -0.3
 TIY 27.73 340 eP 51 20.00 -4.6X
 Z 24s 0.68um 4.1MszX
 E 17s 0.75um
 BJI 28.87 347 eP 51 34.50 -0.2
 1.2s 16.00nm 4.6mb
 Z 16s 0.29um 4.0MszX
 LZH 30.23 326 eP 51 46.50 -0.6
 1.2s 15.00nm 4.6mb
 Z 22s 0.32um 3.9Msz
 N 20s 1.17um
 HHC 30.86 341 eP 51 52.00 -0.5
 1.0s 9.90nm 4.5mb
 MDJ 32.91 7 eP 52 10.60 0.3

WB2 33.23 162 iPc 52 11.50 -1.8
 0.7s 5.20nm 4.5mb
 GTA 34.83 326 eP 52 27.20 0.1
 1.5s 14.00nm 4.7mb
 Z 20s 0.46um 4.2Msz
 LSA 35.36 305 eP 52 34.50 2.4
 ASPA 36.64 165 iPc 52 42.40 0.0
 0.7s 14.70nm 5.0mb
 WARB 37.96 176 eP 52 53.00 -0.4
 0.6s 9.00nm 4.8mb
 MEEK 38.70 188 eP 52 58.50 -1.2
 0.7s 15.00nm 4.9mb
 GUN 39.12 300 P 53 04.60 1.0
 0.8s 30.00nm 5.1mb
 PKI 39.43 299 P 53 06.40 0.2
 KKN 39.60 299 P 53 08.00 0.5
 DMN 39.70 299 P 53 11.80 3.5X
 GKN 40.20 299 P 53 11.60 -0.8
 WMQ 44.63 322 eP 53 47.50 -0.7
 Z 22s 0.55um 4.4Msz
 N 20s 0.88um
 GBA 45.51 277 P 53 59.00 3.6X
 STK 46.66 159 iPc 54 04.40 0.1
 0.7s 4.60nm 4.5mb
 CMS 47.92 155 eP 54 19.00 4.8X
 0.8s 7.00nm 4.7mb
 YAK 50.17 3 eP 54 30.50 -0.6
 0.7s 32.00nm 5.5mb
 BFD 51.82 161 eP 54 41.40 -2.5
 IMA 76.02 25 eP 57 23.04 0.6
 1.4s 6.94nm 4.4mb
 FBA 78.48 26 (P) 57 36.75 0.9
 0.8s 2.73nm 4.3mb
 OBN 78.91 324 eP 57 38.00 -0.4
 i 57 42.00
 SDF 82.04 337 iP 57 55.90 1.1
 KAF 83.19 332 iP 58 01.20 0.4
 NUR 84.33 331 iP 58 07.10 0.5
 0.7s 2.70nm 4.5mb
 MBC 84.56 12 eP 58 08.50 1.0
 1.0s 4.00nm 4.5mb
 NB2 90.35 333 P 58 34.90 -0.9
 0.8s 0.90nm 4.2mb
 YKA 93.10 23 eP 58 48.70 0.3
 0.9s 0.90nm 4.2mb
 GEC2 94.10 322 ePd 58 53.90 0.5
 0.6s 0.48nm 4.1mb
 e 58 59.30
 e 59 06.00
 e 59 10.40
 S.D. = 1.1 on 37 of 44 obs.

? APR 24, 1993 16h 25m 26.73 ± 3.45s
 31.666 S ± 48.0km 68.977 W ± 17.0km
 DEPTH = 90.1 ± 24.7 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.23 40 iPd 25 40.60 0.2
 S 25 53.00
 RTBS 0.41 270 iPd 25 40.90 -0.1
 S 25 52.80
 RTLL 0.55 52 iPc 25 42.00 -0.2
 S 25 54.50
 CFA 0.63 85 ePc 25 42.90 0.0
 S 25 57.00
 SIV 17.19 27 P 29 22.60 0.0
 S.D. = 0.2 on 5 of 5 obs.

? APR 24, 1993 17h 07m 14.62 ± 3.33s
 31.186 S ± 13.2km 64.517 W ± 29.5km
 DEPTH = 97.4 ± 30.0 km
 CORDOBA PROVINCE, ARGENTINA (141)

TCA 0.17 203 iPd 07 29.00 0.0
 CYA 2.95 338 ePc 08 00.40 0.0
 S 08 38.30
 CFA 3.21 262 e(P) 08 03.20 -0.8
 S 08 38.30
 RTLL 3.39 267 eP 08 06.30 -0.2
 S 08 42.50
 RTCB 3.68 264 eP 08 11.50 1.0
 (S) 08 46.20
 RFA 4.88 222 eP 08 27.00 0.0
 (S) 09 39.30
 S.D. = 0.9 on 6 of 6 obs.

% APR 24, 1993 17h 50m 10.96 ± 0.73s

26.894 S ± 7.2km 26.750 E ± 6.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.5 (PRE).

BFS 0.03 98 eP 50 11.80 -0.5
 S 50 12.10
 PRY 0.65 93 eP 50 23.00 -0.9
 S 50 30.00
 KSR 1.03 7 eP 50 31.50 0.4
 S 50 44.00
 SWZ 1.30 257 eP 50 34.80 -0.8
 S 50 50.00
 SEK 1.62 152 iPc 50 41.40 1.0
 S 51 01.50
 SLR 1.80 50 iPd 50 43.50 0.5
 S 51 07.00
 BLF 2.26 193 eP 50 50.00 0.3
 S 51 19.00
 FRS 3.11 204 eP 51 05.00 3.4X
 S.D. = 0.9 on 7 of 8 obs.

% APR 24, 1993 17h 53m 23.71 ± 1.17s
 32.819 S ± 12.4km 70.910 W ± 11.8km
 DEPTH = 70.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.2 (SAN).

JACH 0.30 63 iP 53 35.05 -0.1
 iS 53 44.13
 PEL 0.37 150 iP 53 35.80 0.1
 iS 53 44.89
 FCH 0.73 134 iP 53 39.69 0.2
 iS 53 51.79
 TACH 0.83 182 iP 53 40.20 -0.2
 iS 53 53.26
 LCCH 0.86 220 iP 53 40.75 0.1
 iS 53 53.92
 PCH 0.87 158 iP 53 40.87 0.0
 iS 53 54.19
 CHCH 1.13 169 iP 53 44.04 -0.2
 iS 54 00.10
 LNV 1.21 200 iP 53 45.21 0.1
 iS 54 02.10
 S.D. = 0.2 on 8 of 8 obs.

% APR 24, 1993 19h 11m 48.94 ± 0.80s
 39.104 N ± 9.3km 113.552 E ± 8.2km
 DEPTH = 33.0km (normal)
 NORTHEASTERN CHINA (658)
 ML 3.5 (BJI).

TIY 1.64 213 iPg 12 15.00 -1.0
 Sg 12 35.80
 BJI 2.23 64 Pn 12 24.50 0.2
 Pg 12 28.00
 Sg 13 00.00
 HMC 2.32 319 iPg 12 25.80 0.1
 Sg 12 56.00
 TIA 4.05 134 ePn 12 49.80 -0.3
 Pg 12 59.20
 eSg 13 50.50
 XAN 6.28 218 Pn 13 23.20 1.5
 GTA 10.66 276 eP 14 22.00 -0.6
 S.D. = 1.1 on 6 of 6 obs.

% APR 24, 1993 19h 45m 33.43 ± 2.78s
 39.039 N ± 21.7km 23.338 E ± 15.4km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.3 (THE).

AGG 0.78 269 ePg 45 48.84 0.1
 eSg 46 01.20
 PAIG 0.93 17 ePg 45 51.68 0.6
 eSg 46 03.30
 LIT 1.25 329 ePb 45 56.44 -0.2
 eSb 46 12.44
 OUR 1.39 21 ePb 45 58.24 -0.5
 SOH 1.78 0 ePb 46 04.52 0.0
 KNT 2.15 351 ePn 46 09.68 -0.1
 S.D. = 0.5 on 6 of 6 obs.

APR 24, 1993 20h 23m 58.54 ± 0.79s
 42.925 N ± 5.8km 19.804 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)

24d 20h

ML 2.4 (TTG).						WMO						DOU						
IVA	0.09	128	iPgc	24 01.18	0.0		29.28	47 P	36 11.00	-1.0			1.5s	56.40nm		5.3mb		
			iSg	24 03.08			1.0s	7.00nm		4.3mb			46.39 315 P		38 41.20	5.7X		
PVY	0.35	159	iPg	24 05.83	0.0			pP	36 16.50	19kmX			46.45 310 eP		38 35.60	-0.5		
			iSg	24 10.98				sP	36 22.00				1.2s	55.95nm		5.4mb		
PLE	0.50	324	iPgc	24 08.80	0.0			eP	36 35.00	-0.8			46.50 311 eP		38 35.80	-0.7		
			iSg	24 16.42			Z	20s	0.40um	4.1MsZ			46.71 63 Pd		38 38.20	-0.1		
NKY	0.60	260	iPgc	24 10.52	-0.3		N	20s	0.40um				Z	30s	0.94um	4.6MsZ		
			iSg	24 19.47									SSF	46.72 310 eP		38 37.90	-0.3	
TTG	0.64	219	iPg	24 10.88	-0.4									0.9s	15.55nm		5.0mb	
			iSg	24 20.31									AVF	46.80 310 eP		38 38.30	-0.5	
BRY	0.93	269	iPgc	24 16.35	0.0									0.7s	5.50nm		4.6mb	
			iSg	24 30.18			BZS	34.19 312 eP	36 54.00	-0.9			BGF	47.13 310 eP		38 41.10	-0.3	
BDV	0.96	229	iPg	24 17.03	0.1		UZH	34.92 318 eP	37 02.50	1.3				0.6s	8.05nm		4.9mb	
			iSg	24 31.27			SPC	36.39 318 eP	37 14.30	0.5			MAF	47.29 309 eP		38 42.60	-0.2	
ULC	1.05	203	iPg	24 18.46	0.2		GTA	36.87 60 Pd	37 18.00	0.1				1.3s	35.00nm		5.2mb	
			iSg	24 33.80									TCF	47.55 309 eP		38 44.50	-0.3	
HCY	1.07	244	iPg	24 19.11	0.4									0.8s	7.50nm		4.8mb	
			iSg	24 35.00			Z	16s	0.34um	4.2MsZ			CAF	47.57 307 eP		38 45.00	0.0	
SKO	1.54	128	iPn	24 29.20	3.1X		OJC	37.07 319 eP	37 19.40	0.1				1.1s	37.35nm		5.3mb	
OHR	1.96	157	ePn	24 34.60	2.4X		SRO	37.08 315 eP	37 19.60	0.2				47.98 308 eP		38 48.30	0.2	
S.D. = 0.3 on 9 of 11 obs.							MGR	37.23 301 P	37 21.20	0.4				1.2s	50.30nm		5.4mb	
APR 24, 1993 20h 30m 10.59±0.32s							SGO	37.47 302 P	37 24.30	1.5				LSF	48.01 309 eP		38 47.90	-0.5
27.072 N ± 6.3km 57.865 E ± 3.3km							ZST	37.97 315 eP	37 26.90	0.0				LPO	48.19 307 eP		38 49.80	0.0
DEPTH = 33.0km (normal)							DUI	38.26 304 P	37 31.90	2.3					1.4s	41.40nm		5.3mb
4.7mb (45 obs.) 4.1MsZ (4 obs.)							VBV	38.43 310 e(P)c	37 31.30	0.5				LFF	48.51 307 eP		38 52.50	0.2
SOUTHERN IRAN (353)							LJU	39.05 311 e(P)	37 36.00	0.0					1.2s	52.35nm		5.4mb
							CEY	39.05 310 eP	37 36.00	-0.1				LDF	49.28 312 eP		38 57.40	-0.7
							KSP	39.38 318 eP	37 38.50	-0.1					0.4s	2.25nm		4.6mb
							VOY	39.48 310 eP	37 39.40	-0.3				BOD	49.69 36 eP		38 56.80	-4.3X
QUE	8.57	67	eP	32 15.70	0.2									1.0s	14.00nm		4.9mb	
			e(S)	34 11.50			TRI	39.50 310 P	37 39.80	0.1				TIK	58.58 21 eP		40 04.00	-2.0
RYD	10.40	259	eP	32 35.00	-5.6X		ARV	39.65 306 P	37 42.20	1.2					1.5s	13.00nm		4.8mb
			eS	34 28.00			ASS	39.79 306 P	37 44.50	2.3				YSS	67.36 48 (P)		41 04.20	-0.4
VAN	10.85	1	iPc	32 47.00	0.4		RBL	39.80 311 P	37 42.60	0.3				ILT	76.52 19 eP		41 58.00	-0.6
ASH	10.85	2	eP	32 46.00	-0.7		LZH	39.88 65 eP	37 43.50	0.3							42 13.00	
KER	11.76	311	eP	32 56.00	-3.1X									M8C	76.92 359 eP		42 08.50	-0.2
QASM	12.86	269	iPc	33 08.93	-5.0X		Z	20s	26.00nm	4.8mb				IMA	84.07 12 eP		42 38.20	-0.9
TAB	14.64	321	eP	33 39.00	1.7										0.6s	2.22nm		4.5mb
GRS	15.68	325	eP	33 51.00	0.2		KBA	40.10 312 iPd	37 45.00	0.2				F8A	86.18 11 eP		42 49.29	-0.2
															0.8s	2.14nm		4.4mb
														WRA	87.55 114 P		42 58.20	1.4
															0.6s	1.80nm		4.5mb
														WB2	87.56 114 iPc		42 57.90	1.0
															0.6s	3.50nm		4.8mb
														ASPA	89.05 117 eP		43 07.90	3.9X
															1.4s	4.20nm		4.6mb
														YKA	90.54 357 eP		43 10.80	0.5
															1.0s	1.30nm		4.2mb
S.D. = 0.9 on 94 of 108 obs.																		
APR 24, 1993 20h 58m 11.90±1.14s																		
35.446 N ± 11.5km 28.203 E ± 11.4km																		
DEPTH = 87.1 ± 15.3 km																		
3.6mb (2 obs.)																		
EASTERN MEDITERRANEAN SEA (371)																		
														YER	1.69 2 iPn		58 40.00	-0.4
														ELL	1.90 46 iPn		58 45.10	1.8
														BCK	2.78 43 ePn		58 56.10	0.8
														IZM	3.04 346 iPn		58 56.90	-1.9
														KHL	3.06 20 ePn		58 58.00	-1.1
														ALT	3.91 22 eP		59 01.00	-9.9X
														HRI	6.60 107 eP		59 48.00	-0.2
														JVI	6.91 118 eP		59 52.10	-0.4
														SAGI	7.53 132 eP		00 00.80	-0.1
															eS		01 24.20	
														OHR	8.12 316 eP		00 10.30	1.3
														SKO	8.39 323 eP		00 12.50	-0.2
														VBV	14.05 320 e(P)		01 30.70	2.6X
														CEY	14.65 319 e(P)		01 36.00	0.1
														VOY	15.12 319 eP		01 41.50	-0.5
														KHC	17.39 326 eP		02 11.00	0.7
															e		02 20.00	
														MOX	19.37 327 e(P)		02 34.50	1.4
														HFS	26.43 344 eP		03 41.70	-0.2
															0.8s	2.20nm		3.8mb
														N82	27.82 342 P		03 53.40	-1.2
															0.6s	0.80nm		3.5mb
S.D. = 1.1 on 16 of 18 obs.																		
APR 24, 1993 21h 02m 07.50±0.57s																		
40.844 N ± 4.9km 22.906 E ± 5.2km																		
DEPTH = 10.0km (geophysicist)																		
GREECE (364)																		
ML 2.1 (THE), 1.9 (SKO).																		
														THE	0.22 168 iPg		02 12.06	-0.1

24d 21h

KNT 0.32 359 eSg 02 15.08
ePg 02 14.32 0.2
eSg 02 19.00
SOH 0.34 94 iPg 02 14.65 0.1
eSg 02 18.80
ePg 02 15.68 0.0
eSg 02 21.44
VAY 0.54 332 iPg 02 18.40 0.0
iSg 02 26.20
SRS 0.59 62 iPg 02 18.80 -0.6
eSg 02 26.76
OUR 0.96 122 ePg 02 26.56 0.7
PAIG 1.09 147 ePg 02 27.60 -0.4
eSg 02 42.56

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

? APR 24, 1993 21h 03m 53.51 ± 4.66s
18.814 N ± 56.7km 66.743 W ± 23.5km
DEPTH = 78.1 ± 55.3 km

PUERTO RICO REGION (90)

APR 0.36 178 iP 04 06.30 0.2
S 04 15.30
LRS 0.53 191 iP 04 07.20 -0.3
S 04 16.40
CLLP 0.75 168 iP 04 09.80 0.1
S 04 20.30
PORP 0.76 172 iP 04 09.80 -0.1
S 04 19.30
MGP 0.87 202 iP 04 11.20 0.1
S 04 23.70
SJG 0.90 141 iP 04 11.60 0.1
LPR 0.97 121 iP 04 12.30 -0.1

S.D. = 0.3 on 7 of 7 obs.

? APR 24, 1993 21h 51m 41.15 ± 4.52s
17.627 N ± 31.7km 62.115 W ± 12.4km
DEPTH = 49.2 ± 40.6 km

LEEWARD ISLANDS (92)

MD 3.7 (TRN).

CPB 0.28 87 eP 51 49.91 -0.1
BPA 0.63 157 eP 51 54.15 0.1
S 52 03.50
NEV 0.65 222 iPd 51 54.51 0.1
eS 52 04.01
MGH 0.91 186 eP 51 57.70 -0.1
SFG 1.62 147 eP 52 08.40 0.6
PAG 1.64 165 ePc 52 07.99 -0.1
S 52 27.40
DOG 1.66 163 ePc 52 08.19 -0.1
MGG 1.86 156 eP 52 10.80 -0.4

S.D. = 0.4 on 8 of 8 obs.

* APR 24, 1993 22h 13m 32.07 ± 2.06s
34.917 S ± 9.6km 179.824 W ± 21.7km
DEPTH = 33.0km (normal)
4.7mb (3 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.08 209 eP 14 18.80 -0.6
PUZ 3.51 206 P 14 25.90 0.3
eS 15 04.80
KUZ 4.05 242 P 14 33.60 0.3
NOZ 4.07 204 eP 14 34.50 0.9
URZ 4.15 216 eP 14 33.70 -0.9
eS 15 17.10
WLZ 4.73 230 eP 14 43.00 0.2
OUZ 5.40 265 eP 14 52.50 0.1
MNG 6.80 212 eP 15 06.80 -5.3X
eS 16 19.20
ASPA 41.56 273 iPd 21 18.70 0.3
0.4s 14.10nm 5.0mb
WB2 42.95 278 iPc 21 29.10 -0.6
0.5s 9.00nm 4.8mb
WRA 42.96 278 P 21 30.00 0.2
0.5s 1.90nm 4.1mb
KAF 148.19 337 ePKP 33 13.30 1.5X
0.3s 0.40nm
NUR 149.91 336 ePKP 33 18.80 4.3X
0.2s 0.60nm

S.D. = 0.6 on 10 of 13 obs.

& APR 24, 1993 23h 36m 49.23s
63.069 N 150.792 W
DEPTH = 130.4km
2.7mb (1 obs.)

CENTRAL ALASKA
<AEIC>.

TRF 0.45 31 iPc 37 08.13 -0.4
eS 37 22.58
HUR 0.53 99 iPc 37 08.32 -0.5
eS 37 23.31
CUT 0.71 160 P 37 10.10 0.2
RND 0.94 68 iPc 37 11.53 -0.5
eS 37 28.84
MCK 1.07 51 iPc 37 12.82 -0.3
eS 37 30.28
SKT 1.15 198 iPc 37 13.37 -0.5
eS 37 32.02
SUA 1.61 179 ePc 37 18.78 -0.3
eS 37 41.91
PMR 1.67 152 eP 37 18.30 -1.4
NEA 1.69 26 iPd 37 18.89 -1.1
eS 37 40.87
SML 1.71 137 iPc 37 19.35 -0.8
WRH 1.85 39 iPd 37 21.01 -0.8
eS 37 46.25
CGLM 1.86 198 eP 37 22.59 0.6
CRP 1.92 200 ePc 37 22.31 -0.5
CPAM 1.93 200 ePc 37 22.39 -0.5
CP2 1.94 201 eP 37 22.81 -0.3
BGL 1.96 203 eP 37 23.11 -0.2
CKN 1.96 200 eP 37 23.45 0.2
MLY 1.97 1 iPd 37 22.26 -1.1
SPU 1.99 198 iPc 37 22.67 -0.9
CKT 1.99 200 ePc 37 22.89 -0.7
CKL 2.01 202 iPc 37 23.37 -0.6
SCM 2.03 126 ePc 37 23.10 -1.0
CCB 2.06 39 iPd 37 23.51 -0.9
eS 37 49.39
HDA 2.17 50 ePc 37 24.95 -0.8
MDM 2.21 30 iPd 37 25.32 -1.0
FBA 2.26 34 iPd 37 25.68 -1.3
eS 37 51.31
THY 2.31 79 eP 37 28.20 0.7
NKA 2.34 185 eP 37 29.62 1.7
PTE 2.37 159 iPc 37 27.23 -1.0
eS 37 57.38
TTA 2.39 269 iPd 37 27.03 -1.5
eS 37 51.32
PAX 2.43 90 iPc 37 28.70 -0.5
eS 37 58.60
GLM 2.44 36 iPd 37 28.42 -0.8
SDG 2.47 100 ePd 37 29.25 -0.4
SLKM 2.58 174 iPc 37 30.34 -0.8
MPA 2.68 165 ePc 37 31.25 -1.0
eS 38 02.33
TZL 2.69 110 eP 37 32.35 -0.1
NCT 2.71 203 eP 37 33.35 0.5
RDW 2.77 201 eP 37 33.10 -0.5
KLU 2.77 123 ePc 37 31.91 -1.7
eS 38 05.85
RS2 2.78 201 eP 37 33.22 -0.5
RSO 2.78 200 eP 37 33.29 -0.5
RS1 2.78 201 eP 37 33.55 -0.2
VLZ 2.86 131 eP 37 32.74 -1.8
DOT 3.09 76 iPc 37 36.53 -1.1
INE 3.21 201 eP 37 39.77 0.4
INW 3.21 201 eP 37 39.35 0.0
IMA 3.26 339 iPd 37 38.21 -1.8
BRLK 3.32 181 eP 37 40.60 -0.1
HIN 3.37 141 ePd 37 39.87 -1.5
CVA 3.48 134 eP 37 42.01 -0.8
CNPM 3.56 184 iPd 37 43.04 -0.9
eS 38 24.37
OPT 3.62 200 eP 37 44.87 0.1
GLB 3.65 113 iPc 37 44.00 -1.2
eS 38 25.77
AUL 3.91 200 eP 37 49.46 0.8
AUE 3.93 200 eP 37 48.51 -0.3
AUW 3.93 200 eP 37 48.89 0.0
AUH 3.93 200 eP 37 48.59 -0.4
RAGM 3.96 130 eP 37 47.80 -1.5
FYU 4.24 32 eP 37 51.90 -1.0
MCNL 4.26 205 eP 37 52.42 -0.9
CROM 4.30 119 eP 37 52.95 -1.0
CDD 4.38 200 eP 37 54.34 -0.6
KAIM 4.39 133 eP 37 53.59 -1.4
TGL 4.42 118 iPd 37 54.05 -1.5
BALM 4.47 113 eP 37 54.53 -1.7
SYI 4.54 191 eP 37 56.11 -0.9
SNH 4.77 124 eP 37 58.93 -1.3

(1)

CTGM 4.93 111 eP 38 01.57 -0.9
YKA 16.43 76 eP 40 33.70 0.6
0.5s 0.20nm 2.7mb
69 obs. associated

APR 25, 1993 00h 07m 08.73 ± 0.15s
15.679 S ± 5.1km 172.960 W ± 4.1km
DEPTH = 33.0km (normal)
5.4mb (62 obs.) 5.7MsZ (61 obs.)

SAMOA ISLANDS REGION (169)

Mw 6.0 (HRV). Mo=1.6*10**18 Nm
(PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 42S, *C

Centroid Location:

Origin Time 00:07:15.0 0.2

Lat 15.42S 0.02 Lon 172.69W 0.02

Dep 15.0 BDY Half-duration 2.4

Moment Tensor; Scale 10**17 Nm

Mrr= 6.29 0.09 Mtt= 0.05 0.12

Mff=-6.34 0.14 Mrt= 0.36 0.28

Mrf= 8.54 0.39 Mtf= 1.13 0.09

Principal Axes:

T Val= 10.66 Plg=63 Azm=280

N 0.05 6 178

P -10.71 26 85

Best Double Couple: Mo=1.1*10**18

NP1: Strike=160 Dip=19 Slip= 71

NP2: 0 72 96

VUN 8.53 253 ePc 09 18.10 5.1X

SVA 8.56 252 eP 09 14.80 1.4

RAR 13.67 116 P 10 17.00 -5.6X

S 13 06.00

DZM 20.49 249 iPc 11 45.90 -0.8

AFR 22.29 98 iPc 12 04.60 -0.2

1.3s 223.80nm 5.5mb

PAE 22.48 98 iPc 12 06.50 -0.2

1.4s 362.50nm 5.6mb

PPT 22.48 98 iPc 12 06.70 -0.1

1.0s 210.40nm 5.6mb

PPN 22.62 98 iPc 12 08.00 -0.1

1.6s 258.70nm 5.5mb

TVO 22.80 99 iPc 12 09.90 0.0

1.3s 389.90nm 5.7mb

KUZ 23.27 204 eP 12 15.50 1.2

1.1s 340.00nm 5.8mb

URZ 24.14 199 eP 12 23.10 0.4

24.18 92 iPc 12 23.20 0.0

1.5s 323.80nm 5.6mb

NOZ 24.19 197 eP 12 26.80 3.7X

VAH 24.41 92 iPc 12 24.90 -0.6

1.0s 102.40nm 5.3mb

TPT 24.45 92 iPc 12 25.50 -0.3

0.9s 117.30nm 5.4mb

RUV 24.66 92 iPc 12 27.30 -0.6

1.0s 155.60nm 5.5mb

PGZ 26.55 199 eP 12 46.90 1.5

MNG 26.80 200 eP 12 52.20 4.4X

HNR 27.15 280 eP 12 46.00 -5.1X

eS 17 45.00

QRZ 28.05 204 eP 13 01.80 2.8X

THZ 28.71 202 eP 13 06.60 1.5

KHZ 29.06 201 eP 13 08.00 -0.1

DSZ 29.12 204 eP 13 08.60 -0.1

LTZ 29.83 202 eP 13 13.90 -1.2

BRS 33.83 244 e(P) 13 49.00 -1.3

Z 18s 50.00um 6.3MsZ

e(S) 19 00.00

e(SS) 19 36.00

ARMA 35.56 239 iPc 14 04.50 -0.8

0.9s 20.00nm 5.0mb

RAB 36.13 285 eP 14 12.00 2.0

RMQ 37.18 247 eP 14 18.00 -0.7

CNB 38.92 233 iPc 14 32.90 -0.4

0.9s 24.00nm 5.0mb

CAN 39.20 233 eP 14 33.70 -1.9

BWA 39.35 234 eP 14 33.10 -3.8X

i 14 44.90

HON 39.59 22 P 14 50.00 11.1X

Z 20s 2.67um 5.1MsZ

KIP 39.68 22 (P) 14 40.60 1.0

CMS 40.65 240 iPd 14 46.40 -1.2

0.7s 24.00nm 5.0mb

QLP 41.20 247 eP 14 51.20 -1.0

TOO 42.62 231 iPd 15 02.80 -0.9

STK	1.0s	86.00nm	5.4mb	SSE	78.46	307 P	19 08.00	-0.2	MAW	87.66	199 eP	19 57.00	2.1	
	44.27	240 eP	15 16.00	-1.1	Z	24s	2.50um	5.5MszX		1.1s	54.35nm		5.7mb	
	0.7s	15.90nm	5.0mb	DUG	78.78	43 eP	19 09.43	-0.6	TIY	87.75	310 iPc	19 57.50	1.6	
BFD	44.73	233 eP	15 20.00	-0.8		1.3s	19.00nm	4.9mb	Z	22s	2.84um		5.6Msz	
	1.0s	23.00nm	5.0mb	Z	19s	2.41um		5.6Msz	E	23s	3.69um			
WB2	50.18	257 iPd	16 01.60	-2.0		S	29 09.08				SKS	30 18.00		
	0.9s	12.40nm	4.9mb	PMS	78.91	11 eP	19 09.10	-1.0	INK	88.44	14 eP	19 59.00	0.6	
WRA	50.19	257 P	16 02.20	-1.5		1.2s	41.90nm	5.3mb		1.0s	4.00nm		4.7mb	
	1.0s	6.20nm	4.6mb	SIT	78.94	20 P	19 20.00	9.7X	GYA	88.55	298 iPc	20 01.20	1.2	
ASPA	50.43	252 iPc	16 03.70	-1.0	Z	21s	1.92um	5.4Msz		1.0s	19.00nm		5.4mb	
	0.9s	78.10nm	5.7mb	PMR	79.31	11 P	19 10.60	-1.6	Z	28s	1.48um		5.3MszX	
Z	20s	18.00um	6.1Msz		1.4s	62.30nm		5.4mb			PP	23 30.00		
		iS	23 13.70		Z	19s	1.65um	5.4Msz			SKS	30 20.00		
PJG	50.84	303 eP	15 54.20	-14.4X	TTA	79.47	8 eP	19 13.00	-0.2		S	30 35.00		
MTN	54.13	265 eP	16 33.00	-0.3	MDJ	79.50	322 eP	19 14.20	0.6	XAN	89.14	306 P	20 04.00	1.5
	0.6s	22.00nm	5.4mb			1.7s	100.00nm	5.5mb		2.0s	76.00nm		5.7mb	
WARB	56.95	249 eP	16 50.00	-3.6X	HVU	79.63	41 P	19 13.40	-1.3	Z	20s	1.76um		5.5Msz
	0.6s	21.00nm	5.3mb	SRU	79.74	44 P	19 13.20	-2.1	N	20s	1.31um			
COOL	61.62	243 eP	17 24.00	-1.8	DPW	79.88	34 P	19 14.80	-0.9	E	18s	1.08um		
SBA	63.01	185 iPd	17 37.50	3.3X	EMUT	79.90	44 P	19 16.30	0.1		pP	20 15.00	35kmX	
MEEK	64.10	248 eP	17 38.00	-4.3X	DAU	79.91	43 P	19 06.00	-10.4X	YAK	89.51	337 eP	20 02.00	-1.6
	0.7s	26.00nm	5.4mb	ALQ	80.65	50 P	19 20.30	0.0		2.0s	80.00nm		5.7mb	
KLB	64.48	242 eP	17 42.50	-2.2		2.1s	99.19nm	5.4mb			e	23 32.00		
DAV	64.93	286 eP	17 47.00	-0.7	Z	21s	2.72um	5.6Msz			e	30 30.00		
BAL	65.44	243 eP	17 50.00	-0.9	NEW	80.70	34 P	19 18.20	-1.8	HHC	89.53	313 P	20 06.00	1.7
MRWA	66.17	245 eP	17 54.00	-1.6		1.1s	17.75nm	5.0mb		1.8s	150.00nm		6.0mb	
CTB	66.24	285 ePd	18 06.00	9.8X	HKC	80.71	296 eP	19 23.00	2.5X	Z	32s	1.47um		5.2MszX
NANU	67.37	252 eP	18 02.50	-0.8	MGD	80.98	343 ePc+	19 20.00	-1.2	E	15s	0.42um		
SMY	69.04	352 P	18 20.00	7.0X	Z	18s	1.30um	5.3Msz	YKA	90.18	23 eP	20 05.00	-1.7	
	Z	19s	8.17um	6.0Msz	N	18s	0.60um			0.9s	5.50nm		4.8mb	
MAT	69.42	320 iPd+	18 13.10	-2.6X	E	18s	1.00um		MIAR	90.29	54 P	20 20.00	12.2X	
	2.0s	205.88nm	5.8mb			e	22 22.00		Z	20s	2.26um		5.6Msz	
	Z	20s	4.96um	5.8Msz		eS	29 28.00		BTO	90.54	312 iPd	20 10.00	1.0	
		eS	27 26.00			ePS	30 19.00		N	15s	0.69um			
KUR	70.27	332 (P)	18 18.00	-2.6X	CN2	81.57	320 P	19 24.80	0.2	E	15s	0.49um		
	Z	16s	5.60um	5.9MszX		1.4s	59.00nm	5.4mb	NST	91.26	286 eP	20 14.50	1.9	
	N	16s	5.60um		Z	22s	2.52um	5.5Msz	KMI	91.53	296 P	20 15.00	1.0	
	E	16s	5.60um		N	20s	1.68um			2.0s	60.00nm		5.6mb	
		(S)	27 28.00		E	20s	2.55um		Z	24s	2.50um		5.6MszX	
CSY	70.34	205 eP	18 23.40	2.6X	DL2	81.68	314 eP	19 26.40	1.2	E	15s	0.70um		
	0.1s	8.60nm	5.8mb		Z	22s	1.27um	5.2Msz			pP	20 24.50	30kmX	
BCH	71.21	44 P	18 34.00	7.2X	N	15s	1.06um		OLY	92.23	54 P	20 17.00	0.3	
ISA	72.56	44 eP	18 35.40	0.7	GZH	81.70	297 P	19 27.00	1.3	CIT	92.37	324 eP	20 18.00	0.9
	1.1s	22.82nm	5.1mb		Z	18s	1.21um	5.3Msz	CHG	93.20	289 eP	20 22.50	1.0	
Z	19s	4.64um	5.8Msz	SNY	81.77	317 iPc	19 26.00	0.4	NVL	93.71	182 (P)	20 25.00	2.0	
		S	27 57.43		Z	2.0s	250.00nm	5.9mb	Z	18s	2.00um		5.6Msz	
PET	72.66	342 eP	18 34.00	-0.9	Z	18s	1.95um	5.5Msz	N	18s	1.00um			
	1.2s	40.00nm	5.3mb		N	15s	1.08um				e	30 32.00		
Z	18s	3.00um	5.6Msz	BW06	82.20	42 P	19 27.20	-1.0			eS	31 40.00		
E	18s	1.50um			2.8s	186.12nm		5.6mb	LZH	93.73	306 eP	20 25.00	1.2	
		e	18 47.00	LCCM	82.32	38 ePd	19 29.20	0.5		1.8s	39.00nm		5.5mb	
		eS	27 56.00	FBA	82.59	11 eP	19 28.70	-0.8	Z	20s	1.69um		5.5Msz	
		ePS	28 48.00		0.9s	51.30nm		5.6mb	E	20s	1.54um			
CMB	72.69	41 ePc	18 35.95	0.5	IMA	82.78	8 eP	19 30.10	-0.5		PP	24 12.00		
	1.3s	21.84nm	5.0mb		1.5s	31.10nm		5.2mb			SKS	31 00.00		
Z	20s	2.94um	5.6Msz	OIZ	83.40	292 P	19 35.00	0.4			eS	31 31.00		
		S	28 12.85	E	19s	1.77um					sS	31 41.00		
BAG	72.91	293 eP+	18 36.00	-1.3	ILT	83.45	358 iPc+	19 33.40	-0.3	FVM	93.77	52 P	20 22.80	-1.0
ORV	72.92	39 P	18 35.90	-0.8		1.8s	70.00nm	5.5mb		1.8s	56.31nm		5.7mb	
WDC	72.94	38 P	18 50.00	13.2X		i	19 39.00		Z	19s	5.74um		6.0Msz	
	Z	20s	5.6Msz			i	19 46.00		ULM	93.88	39 eP	20 27.50	3.5X	
GSC	73.48	45 P	18 40.90	0.7		iS	29 56.00		SLM	94.10	51 P	20 40.00	14.8X	
GLA	73.66	48 P	18 41.70	0.5		ePS	30 48.00		Z	19s	1.81um		5.5Msz	
YSS	74.00	330 iPd+	18 41.80	-0.9	GOL	83.54	46 P	19 35.10	-0.2	BOD	94.31	329 eP	20 25.20	-0.5
	1.8s	170.00nm	5.7mb		1.3s	43.93nm		5.4mb		1.7s	22.00nm		5.3mb	
		e	18 51.80		Z	20s	2.91um	5.7Msz	JFWS	95.30	47 P	20 40.00	9.3X	
		e	21 21.00		WHN	83.60	304 P	19 36.00	0.6	Z	19s	0.00um		2.8MszX
		eS	28 16.00		Z	20s	2.49um	5.6Msz	TIK	95.37	344 eP	20 30.00	-0.4	
		ePPS	28 58.00			eS	30 00.00			1.4s	13.00nm		5.2mb	
SPA	74.42	180 iPc	18 46.40	1.2	TIA	83.71	310 eP	19 37.00	1.2		e	20 43.00		
	1.1s	111.90nm	5.8mb			0.8s	12.00nm	5.1mb			e	24 21.00		
Z	20s	1.26um	5.2Msz		Z	24s	2.45um	5.5MszX			e	31 06.00		
		i	50 42.00		E	16s	1.00um				eS	31 47.00		
KDC	75.09	11 eP	18 47.90	-1.0		eS	30 00.00		MBC	97.12	11 eP	20 38.00	-0.3	
TUC	76.24	50 eP	18 55.61	-0.5	BJI	85.97	313 eP	19 48.50	1.5	FCC	97.60	31 eP	20 44.00	3.3X
	1.8s	67.34nm	5.3mb		Z	2.0s	310.00nm	6.2mb	GTA	97.68	309 P	20 42.00	0.3	
Z	19s	2.61um	5.6Msz		Z	26s	2.05um	5.4MszX		2.0s	37.00nm		5.6mb	
		S	28 46.00		E	20s	1.76um		Z	21s	3.78um		5.9Msz	
SHW	76.68	34 P	18 59.40	1.1		eSKS	30 12.00		E	19s	1.43um			
ARUT	77.10	44 P	19 00.30	-0.6	WMOK	86.33	53 P	19 48.60	-0.4		sP	20 52.50		
LON	77.26	33 P	19 05.90	4.5X		1.8s	34.64nm	5.3mb			SKS	31 18.00		
VLA	77.28	322 iPc	19 00.00	-1.5	Z	20s	2.93um	5.7Msz	ZAK	98.00	320 eP	20 43.00	0.3	
	2.0s	133.00nm	5.6mb	RSSD	86.38	42 P	19 48.40	-0.9		1.4s	12.00nm		5.2mb	
		i	21 57.00			1.0s	8.55nm	4.9mb	Z	19s	2.23um		5.7Msz	
		i	29 32.00		Z	20s	1.36um	5.3Msz	E	19s	2.50um			
SVW	77.77	9 eP	19 02.50	-1.4	MEO	86.50	53 iPc	19 49.10	-0.7		e	24 37.50		
MSU	78.33	44 P	19 08.30	0.6	ACO	86.79	51 iPc	19 51.50	0.3		eS	32 00.00		

25d 00h

GOGA	98.05	58	ePS	33	35.00	6.7X	KIV	138.68	320	ePKP	26	32.90	-0.6	Z	20s	1.90um	5.9Msz
			ePPS	34	20.00												
			P	20	50.00												
LPB	99.27	110	(P)	20	57.00	7.3X	Z	22s	22.00nm	e	29	32.30	5.7Msz	N	20s	1.10um	
			2.22um	5.6Msz													
			LR	53	54.00												
CNCB	99.28	110	P	20	59.00	9.0X	SOC	140.69	322	iPKP	26	26.00	-10.9X	WET	146.28	353	iPKPc
			LR	53	38.00												
			P	20	54.30												
ZOBO	99.33	110	SKS	31	40.00	4.1X	L	20s	1.70um	e	41	43.70	5.8Msz	MLR	146.30	336	ePKPd
			LR	53	38.00												
			P	20	54.30												
CEH	102.09	56	Pdiff	21	10.00	8.4X	LVV	143.26	342	ePKP	26	36.00	-5.2X	Z	20s	1.55um	5.8Msz
			1.43um	5.5Msz													
			Pdiff	21	10.00												
MCWV	102.19	52	Pdiff	21	10.00	8.1X	DBN	143.63	2	ePKP	26	40.00	-1.7	GEC2	146.48	352	ePKPc
			2.59um	5.7Msz													
			Pdiff	21	10.00												
CRZF	106.18	211	ePdiff	21	30.00	10.5X	Z	20s	0.70um	e	30	00.00	5.4Msz	e	26	53.80	1.0
			ePP	25	54.00												
			eSP	35	03.00												
RSNY	106.78	48	PKP	25	40.00	7.5X	KIS	143.87	334	ePKP	26	39.00	-3.3X	ZST	146.53	348	ePKP
			2.15um	5.7Msz													
			PKP	25	50.00												
HRV	108.76	50	PKP	25	50.00	13.7X	Z	20s	1.40um	e	30	00.00	5.9Msz	VKA	146.62	349	ePKP
			2.65um	5.8Msz													
			PKP	25	50.00												
CBM	111.39	45	PKP	25	50.00	8.9X	OJC	144.03	346	ePKP	26	40.50	-2.0	SRO	146.63	346	ePKP
			2.12um	5.7Msz													
			iPKPc	26	02.00												
SVE	122.60	328	iPKPc	26	02.00	-0.2	CLL	144.14	354	ePKP	26	43.00	0.4	LDF	146.65	9	ePKP
			e	27	36.80												
			ePPP	30	17.00												
QUE	123.54	296	ePKP	26	06.30	1.1	KSP	144.14	350	ePKP	26	40.50	-2.2	BUD	146.77	345	ePKP
			e	33	08.00												
			eSS	44	21.00												
ARU	123.79	328	ePKP	26	06.00	1.4	BRG	144.46	352	ePKP	26	41.40	-1.8	HOFF	146.82	359	PKP
			e	48	52.00												
			e	27	50.00												
MAIO	129.23	304	ePKP	26	16.00	0.2	Z	18s	1.50um	e	30	00.00	5.8Msz	MTUR	147.06	10	ePKP
			e	30	22.00												
			e	30	22.00												
ASH	129.83	307	ePKP	26	18.00	1.3	N	18s	1.50um	e	26	52.50	-0.3	STR	147.19	359	PKP
			e	26	18.00												
			iPKPd	26	17.50												
VAN	130.02	307	iPKPd	26	17.50	0.4	E	18s	0.50um	e	26	43.00	-1.0	KMR	147.19	351	iPKP+
			i	28	27.00												
			i	28	27.00												
KAT	131.14	309	ePKP	26	21.00	1.8	RAC	144.51	348	ePKP	26	43.00	-0.3	WLS	147.36	360	PKP
			e	28	34.00												
			ePPP	31	33.00												
KAF	131.65	348	ePKP	26	21.10	1.7	BNS	144.80	360	iPKPd	26	42.80	-1.0	CDF	147.36	360	PKP
			ePS	38	41.00												
			ePKP	26	21.10												
PUL	132.80	344	(PKP)	26	22.00	0.4	Z	20s	2.60um	e	26	42.50	-1.4	FUR	147.42	355	ePKP
			e	26	32.00												
			e	28	44.00												
NUR	133.45	348	ePKP	26	28.00	5.1X	MOX	144.93	355	iPKPd	26	43.30	-0.8	VITF	147.54	1	PKP
			e	31	36.00												
			e	39	00.00												
MOS	133.67	337	ePKP	26	38.00	14.6X	Z	20s	71.00nm	e	26	43.70	-0.6	EYL	148.09	326	ePKP
			e	26	32.00												
			e	28	44.00												
OBN	134.53	337	ePKP	26	25.00	-0.1	ARO	144.98	268	ePKP+	26	46.00	0.7	WATA	148.21	354	iPKPd
			e	31	36.00												
			e	39	00.00												
HFS	135.35	355	ePKP	26	06.60	-19.9X	ENN	144.99	1	ePKP	26	43.50	-0.6	MOTA	148.25	355	iPKPd
			e	26	28.00												
			e	26	28.00												
SHE	136.26	313	iPKP	26	31.00	2.2X	SNF	145.19	3	PKP	26	43.30	-1.1	KBA	148.26	352	iPKPd
			1.6s	75.00nm													
			3.00um	6.1Msz													
GRO	137.10	318	ePKP	26	33.00	2.6X	PRU	145.24	351	PKPc	26	43.80	-0.8	WTTA	148.28	354	iPKPd
			2.20um	5.8Msz													
			1.70um														
GRS	138.33	313	ePKP	26	31.00	-2.1	Z	22s	2.00um	e	26	49.00	5.8Msz	HYF	148.29	6	ePKP
			0.60um														
			1.55um														
PYA	138.42	320	ePKP	26	34.00	1.1	BMR	145.31	340	ePKPd	26	46.00	1.2	BBS	148.30	359	PKP
			2.10um	5.8Msz													
			2.50um														
BUL	138.57	211	ePKP	26	30.10	-3.9X	KAS	145.52	323	iPKPc	26	47.30	1.8	ITU	148.31	327	ePKP
			1.86um	5.8Msz													
			1.86um														
MNK	138.62	342	iPKP	26	30.00	-2.8X	TNS	145.53	358	ePKPc	26	40.70	-4.5X	SOTA	148.36	355	iPKPd
			e	29	18.00												
			e	29	18.00												

25d 00h

ZAG	149.03	348	ePKP	26	50.00	-0.8	* APR 25, 1993 02h 07m 59.72± 0.61s 4.806 N ±11.5km 128.020 E ±13.1km DEPTH = 33.0km (normal) 4.7mb (15 obs.) NORTH OF HALMAHERA, INDONESIA (264)	BGF	3.74	7	Pg	35	38.40	12.4X
LJU	149.08	350	ePKP	26	50.50	-0.5					Sg	36	27.30	
LSF	149.17	7	ePKP	26	54.10	3.0X		AVF	4.03	12	Pg	35	44.30	14.3X
	1.0s	35.00nm								Sg	36	34.70		
VOY	149.20	351	ePKP	26	51.30	0.0	* APR 25, 1993 03h 37m 10.34± 0.77s 42.827 N ± 9.7km 2.147 E ± 5.6km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.5 (LDG).	MFF	4.10	337	Pg	35	44.80	13.8X
		epP'df27	03.10							Sg	36	37.10		
TCF	149.22	7	ePKP	26	54.40	3.2X		S.D. = 0.6 on 14 of 17 obs.						
	1.4s	56.20nm												
MAF	149.32	6	ePKP	26	54.90	3.6X	* APR 25, 1993 03h 37m 10.34± 0.77s 42.827 N ± 9.7km 2.147 E ± 5.6km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.5 (LDG).	LSPF	0.22	304	Pg	37	15.15	0.1
	1.2s	56.25nm						VDCF	0.29	146	Pg	37	16.43	0.1
CEY	149.40	350	ePKP	26	50.00	-1.5				Sg	37	20.87		
VBV	149.47	349	ePKP	26	52.00	0.5		MTHF	0.31	68	Pg	37	16.61	-0.1
CTI	149.48	354	PKP	26	56.30	4.6X	* APR 25, 1993 03h 44m 59.20± 0.61s 42.848 N ± 5.0km 2.382 E ± 6.4km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 3.4 (LDG). MD 3.2 (BTH). mbLg 3.0 (MDD). Felt (IV) at Quillon, France.	GRBF	0.45	272	Pg	37	19.04	-0.5
TRI	149.53	351	ePKP	26	52.00	0.4		EPF	1.34	279	Pn	37	35.50	0.4
AGO	149.54	5	PKP	26	56.87	5.2X				Pg	37	36.20		
CSS	149.60	314	ePKP	26	57.30	5.2X				Sg	37	54.40		
PLDF	149.67	5	PKP	26	57.25	5.3X	* APR 25, 1993 03h 44m 59.20± 0.61s 42.848 N ± 5.0km 2.382 E ± 6.4km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 3.4 (LDG). MD 3.2 (BTH). mbLg 3.0 (MDD). Felt (IV) at Quillon, France.	LPO	1.98	340	Pg	37	48.60	4.3X
DSI	149.72	307	ePKP	26	57.90	5.6X		CAF	2.10	358	Pg	37	50.30	4.3X
RIY	149.79	350	ePKP	26	51.50	-0.5				Sg	38	16.60		
PYM	149.83	6	PKP	26	57.67	5.5X		LFF	2.34	335	Pg	37	54.40	4.9X
VAL	149.87	358	PKP	26	57.40	5.3X	* APR 25, 1993 03h 44m 59.20± 0.61s 42.848 N ± 5.0km 2.382 E ± 6.4km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 3.4 (LDG). MD 3.2 (BTH). mbLg 3.0 (MDD). Felt (IV) at Quillon, France.				Sg	38	24.30	
ALN	149.95	330	i(PKP)	26	57.50	5.1X		S.D. = 0.5 on 5 of 8 obs.						
KHL	149.99	323	ePKP	26	58.00	5.3X								
RJF	150.10	8	ePKP	26	56.80	4.3X								
	1.7s	110.30nm					* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	ETER	0.65	147	ePg	45	12.10	-0.1
Z	22s	1.35um			5.7Msz					eSg	45	20.30		
ORO	150.14	359	PKP	27	02.60	9.9X		EPF	1.51	278	Pn	45	24.70	-1.7
LPL	150.25	0	ePKP	26	58.50	5.5X				Pg	45	25.70		
	1.3s	80.15nm					* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).				Sg	45	43.80	
LPG	150.27	0	ePKP	26	58.60	5.5X		BTH	1.92	279	Pgc	45	33.30	1.1
LFF	150.35	9	ePKP	26	57.60	4.8X				iSg	45	33.50		
	1.7s	118.35nm								Pn	45	56.30		
LBL	150.37	5	PKP	26	57.79	4.8X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	LPO	2.03	335	Pn	45	34.00	0.2
PLE	150.49	342	ePKP	26	59.17	5.9X				Pg	45	36.90		
CAF	150.54	7	ePKP	26	57.90	4.7X		CAF	2.09	354	Pn	45	35.10	0.4
	1.5s	55.35nm								Pg	45	39.80		
LPO	150.67	9	ePKP	26	58.10	4.7X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).				Sn	45	59.90	
	1.6s	64.70nm						LFF	2.40	331	Pn	45	38.90	-0.3
BNI	150.72	1	PKP	27	00.80	7.2X				Pg	45	43.60		
IYA	150.74	340	iPKPd	26	59.76	6.1X				Sg	46	13.60		
ELL	150.79	320	ePKP	26	59.60	5.6X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	RJF	2.53	346	Pn	45	40.30	-0.7
MBH	150.84	304	iPKPc	27	00.50	6.3X				Pg	45	47.10		
SRS	150.88	334	e(PKP)	26	56.94	3.1X				Sg	46	20.30		
PVY	150.97	340	iPKPd	27	00.14	6.1X		ELIZ	2.89	278	ePn	45	47.80	1.7X
SKO	151.01	338	ePKP	26	54.50	0.5	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).				eSn	46	21.10	
NKY	151.08	342	ePKP	27	00.14	6.0X		MAF	3.38	2	Pn	45	52.80	-0.2
VAY	151.13	335	ePKP	27	00.50	6.4X				Pg	46	04.80		
KNT	151.13	335	e(PKP)	26	59.62	5.4X				Sg	46	48.80		
BRY	151.14	342	iPKPd	27	00.06	5.8X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	TCF	3.44	358	Pn	45	54.20	0.3
SOH	151.22	334	e(PKP)	26	59.74	5.4X				Pg	46	05.10		
TTG	151.35	341	iPKPd	27	00.84	6.4X		LSF	3.46	350	Pn	45	53.80	-0.3
GRG	151.51	335	e(PKP)	26	54.54	-0.2				Sg	46	49.60		
SFI	151.55	353	PKP	27	02.10	7.4X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	ECRI	3.61	268	ePn	45	57.50	1.1
HCY	151.56	342	iPKPd	27	01.02	6.2X				eSn	46	40.00		
BDV	151.61	341	iPKPd	27	01.32	6.4X		BGF	3.72	5	Pg	45	58.30	0.3
PGD	151.62	353	PKP	27	02.30	7.3X		ETOR	3.89	240	ePn	46	00.10	-0.2
FIR	151.76	354	ePKP	27	02.00	7.0X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).				eSn	46	45.20	
ULC	151.77	341	iPKPd	27	01.74	6.6X		SMF	3.94	15	Pn	46	01.20	0.3
ARV	151.82	351	PKP	27	02.40	7.2X				Pg	46	15.10		
OHR	151.99	337	iPKP	27	01.80	6.3X		AVF	4.00	10	Pg	46	15.30	13.5X
	1.5s	94.00nm					* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	MFF	4.16	335	Pg	46	17.20	13.1X
LIT	152.19	334	e(PKP)	27	02.38	6.6X				Sg	47	09.60		
ASS	152.28	351	PKP	27	03.40	7.5X		LBF	4.29	15	Pg	46	21.80	15.8X
DUI	153.33	348	PKP	27	04.50	7.1X				Sg	47	17.40		
IGT	153.54	336	e(PKP)	27	05.90	8.2X	* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).	SSF	4.29	10	Pg	46	21.50	15.6X
SGO	154.19	345	PKP	27	11.10	12.6X				Sg	47	17.60		
KIC	165.19	127	(PKP)	27	13.60	2.1		S.D. = 0.8 on 14 of 19 obs.						
	S.D. = 1.1 on 177 of 305 obs.													
? APR 25, 1993 01h 49m 27.57± 3.80s 37.302 N ±28.7km 16.290 E ±26.6km DEPTH = 33.0km (normal) IONIAN SEA (399)							* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).							
SOI	0.79	346	Pc	49	42.70	0.5								
			eSg	49	53.00									
ATN	1.08	323	P	49	46.40	0.0								
			eSg	50	00.30		* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).							
MEU	1.10	260	Pd	49	47.20	0.3								
			eSg	50	00.00									
MNO	1.41	297	P	49	50.70	-0.7								
			eSg	50	08.30		* APR 25, 1993 03h 34m 27.04± 0.51s 42.850 N ± 3.7km 2.174 E ± 4.9km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 2.9 (LDG).							
ROI	2.28	5	P	50	05.30	1.7								
BRT	3.64	11	P	50	21.20	-1.8								
	S.D. = 1.5 on 6 of 6 obs.													

& APR 25, 1993 04h 02m 33.05s
59.121 N 153.245 W
DEPTH = 79.5km
SOUTHERN ALASKA
<AEIC>.

AUI	0.23	337	iP	02 44.45	-0.6
			eS	02 53.19	
AUE	0.25	345	eP	02 44.68	-0.4
AUH	0.26	337	iP	02 44.84	-0.5
AUW	0.28	335	iP	02 44.87	-0.4
AUL	0.28	340	iP	02 44.84	-0.5
CDD	0.28	227	iP	02 44.62	-0.8
			eS	02 54.12	
OPT	0.53	1	iP	02 46.71	-0.6
			eS	02 57.47	
MCNL	0.57	277	iP	02 46.77	-0.8
			eS	02 57.26	
SYI	0.68	139	eP	02 47.83	-0.8
			eS	02 59.60	
XLV	0.85	66	eP	02 49.74	-0.8
			eS	03 03.06	
INE	0.95	6	iP	02 50.81	-1.1
			eS	03 04.98	
INW	0.95	3	iP	02 50.90	-1.0
CNPM	1.11	68	iP	02 52.68	-1.0
			eS	03 08.02	
RS1	1.37	10	iP	02 56.21	-1.0
			eS	03 14.59	
BRLK	1.37	61	eP	02 55.71	-1.3
			eS	03 13.11	
RSO	1.37	10	iP	02 56.21	-1.0
RS2	1.37	10	iP	02 56.25	-1.0
			eS	03 14.15	
RDW	1.38	9	iP	02 56.40	-1.0
KDC	1.43	164	eP	02 56.28	-1.5
			eS	03 13.01	
NCT	1.45	6	iP	02 57.26	-1.0
			eS	03 15.90	
DFR	1.50	11	eP	02 58.05	-0.8
NKA	1.92	31	eP	03 05.10	0.8
SLKM	2.07	46	eP	03 04.77	-1.7
CKL	2.13	12	eP	03 06.35	-1.0
CKT	2.15	14	iP	03 06.57	-1.1
SPU	2.15	16	iP	03 06.47	-1.1
BGL	2.19	11	eP	03 07.44	-0.8
CP2	2.21	13	eP	03 07.88	-0.7
CPAM	2.21	14	eP	03 07.75	-0.7
CRP	2.22	14	eP	03 07.84	-0.8
MPA	2.40	53	eP	03 09.20	-1.7
SUA	2.66	27	eP	03 13.75	-0.9
PTE	2.75	49	iP	03 13.92	-1.8
SKT	2.99	16	eP	03 17.75	-1.4
PMR	3.21	38	eP	03 19.25	-2.9
SML	3.63	40	iP	03 25.50	-2.6
HIN	3.64	67	iP	03 25.35	-2.9
SCM	4.00	45	eP	03 30.87	-2.4
VLZ	4.00	57	iP	03 30.61	-2.6
CVA	4.04	66	eP	03 30.18	-3.6
FBA	6.34	22	eP	04 02.63	-3.1

41 obs. associated

* APR 25, 1993 04h 56m 14.21±0.89s
45.984 N ±18.2km 151.267 E ±12.0km
DEPTH = 48.1km (4 depth phases)
4.7mb (18 obs.)

KURIL ISLANDS (221)

KUSJ	5.50	241	eP	57 31.30	-4.4X
			eS	58 32.60	
ASAJ	6.39	256	eP	57 50.00	1.9X
HOJ	6.77	241	eP	57 51.70	-1.7
			eS	59 06.90	
MRRJ	8.14	248	eP	58 12.50	0.0
MAT	13.60	231	eP	59 31.00	4.7X
	0.8s	8.21nm		4.6mb	
MDJ	15.31	273	eP	59 48.00	-0.6
	1.0s	18.00nm		4.2mb	
CN2	18.40	272	eP	00 26.80	-0.4
	0.6s	25.00nm		4.6mb	
Z	12s	0.61um		6.3MszzX	
YAK	20.29	330	eP	00 57.00	8.9X
	0.8s	50.00nm		4.9mb	
XAN	34.17	265	P	02 56.50	-0.4
	1.0s	4.50nm		4.4mb	
		pP	03 09.60	50km	

LZH	36.63	272	Pd	03 17.50	1.4
	1.4s	26.00nm		5.0mb	
FBA	37.55	38	eP	03 31.00	42km
	0.8s	2.38nm		4.2mb	
GTA	37.83	279	iPc	03 29.40	1.6
	1.0s	24.00nm		5.1mb	
		pP	03 35.50	21kmX	
		sP	03 40.00		
CD2	39.54	265	iPd	03 42.80	0.7
GYA	40.30	257	eP	03 48.40	-0.1
MBC	45.75	20	eP	04 33.00	1.1
YKA	52.30	36	eP	05 19.00	-3.6X
	0.8s	1.20nm		4.0mb	
GUN	53.79	274	P	05 34.80	0.3
	0.6s	10.00nm		5.0mb	
KKN	54.28	275	P	05 38.40	0.4
	0.6s	12.00nm		5.1mb	
PKI	54.33	274	P	05 39.60	1.2
DMN	54.51	275	P	05 40.00	0.3
	0.7s	16.00nm		5.2mb	
GKN	54.59	275	P	05 39.40	-0.8
	0.6s	14.00nm		5.2mb	
BGMT	63.27	52	eP	06 36.00	-4.2X
		e	06 49.60	48km	
KAF	63.59	335	iP	06 40.60	-1.2
	0.7s	6.90nm		4.8mb	
NUR	65.35	334	eP	06 51.00	-2.1X
	0.4s	4.70nm		4.9mb	
SRU	68.11	56	(P)	07 05.50	52km
		e	07 11.09	-0.2	
		e	07 20.05	29kmX	
RSSD	68.29	49	(P)	07 13.40	1.0
	0.9s	3.98nm		4.4mb	
		e	07 21.87	27kmX	
NB2	68.53	340	P	07 12.20	-1.1
	0.7s	1.80nm		4.2mb	
HFS	68.72	339	eP	07 13.00	-1.4
	0.4s	2.40nm		4.6mb	
OCO	77.97	51	iPd	07 50.40	-18.4X
KHC	78.36	333	eP	08 11.00	0.3
		e	08 28.50	63kmX	
GEC2	78.57	333	eP	08 12.20	0.2
	0.5s	0.45nm		3.7mb X	
		e	08 20.20	26kmX	
		e	08 26.30		
		e	08 29.20		
OHR	82.67	325	eP	08 34.50	0.7
	S.D. = 1.0	on	24 of 32 obs.		

APR 25, 1993 05h 10m 01.66±0.66s
40.051 N ±5.9km 21.723 E ±6.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (THE).

LIT	0.59	85	ePg	10 13.66	0.0
			eSg	10 23.90	
GRG	1.04	30	ePg	10 21.30	-0.1
AGG	1.13	155	ePg	10 22.94	0.1
			eSg	10 29.50	
IGT	1.19	245	ePb	10 24.02	0.2
OHR	1.27	327	iPg	10 24.00	-1.3
			iSg	10 40.30	
			Lg	10 43.80	
VAY	1.42	27	ePn	10 27.50	0.0
KNT	1.43	38	ePb	10 27.46	-0.1
			eSb	10 48.10	
PAIG	1.51	94	ePb	10 28.26	-0.5
SKO	1.93	354	iPn	10 36.50	1.6
			i	11 03.30	
	S.D. = 0.9	on	9 of 9 obs.		

APR 25, 1993 05h 43m 00.30±0.83s
5.557 S ±4.6km 154.369 E ±5.5km
DEPTH = 150.9 ±8.0 km
4.9mb (24 obs.)

SOLOMON ISLANDS (193)

RAB	2.58	302	iPd	43 42.00	-1.0
	0.5s	394.37nm			
		iS	44 24.00		
HNR	6.74	125	eP	44 37.00	-1.0
PMG	8.11	241	eP	44 58.00	1.7
CTA	16.46	208	iPc	46 46.00	2.0
	1.0s	87.50nm		5.0mb	

			i	46 58.00	
			iPc	47 12.00	
DZM	20.15	146	iPc	47 25.10	0.3
RMO	21.49	194	iPc	47 39.30	1.2
	0.5s	143.00nm		5.7mb	
QLP	23.04	204	iPc	47 53.90	0.8
MTN	24.04	251	eP	48 04.00	1.1
	0.4s	21.00nm		5.0mb	
WB2	24.15	232	iPc	48 04.50	0.6
	0.5s	158.50nm		5.8mb	
ARMA	24.87	186	iPd	48 11.70	1.1
	0.7s	37.00nm		5.0mb	
ASPA	26.69	226	eP	48 26.80	-0.6
	0.6s	32.50nm		5.1mb	
CMS	27.01	196	eP	48 29.80	-0.3
	0.8s	27.00nm		4.9mb	
		i	48 33.50		
KNA	27.09	246	iPd	48 31.00	0.1
	0.6s	38.00nm		5.2mb	
STK	28.79	203	iPd	48 45.60	-0.5
	0.5s	15.70nm		5.0mb	
BWA	29.25	190	eP	48 49.60	-0.6
CAN	30.03	189	eP	48 57.10	0.0
TOO	32.88	193	eP	49 22.30	0.4
	0.7s	11.00nm		4.7mb	
BFD	33.28	197	iPc	49 24.70	-0.6
	0.7s	13.00nm		4.8mb	
WARB	33.50	229	iPc	49 26.70	-0.7
	0.4s	12.00nm		5.0mb	
QRZ	38.71	158	eP	50 10.60	-0.5
THZ	39.66	158	eP	50 18.80	-0.2
MNG	39.72	155	eP	50 19.20	-0.2
MEEK	40.01	234	eP	50 21.00	-1.1
	0.4s	17.00nm		5.1mb	
COOL	40.09	227	eP	50 22.30	-0.4
	0.4s	16.00nm		5.1mb	
LTZ	40.32	160	eP	50 24.70	0.3
	0.7s	44.00nm		5.3mb	
KHZ	40.46	158	eP	50 25.00	-0.4
BWZ	41.13	163	eP	50 30.80	-0.1
ODZ	41.82	163	eP	50 36.40	-0.2
TUZ	42.37	164	eP	50 40.80	-0.2
KLB	42.95	228	eP	50 44.70	-1.2
	0.4s	7.00nm		4.6mb	
MRWA	43.21	232	iPd	50 47.50	-0.6
	0.4s	7.00nm		4.6mb	
BAL	43.27	230	eP	50 47.50	-1.1
	0.6s	13.00nm		4.7mb	
MUN	44.29	229	eP	50 56.00	-0.8
	0.9s	16.00nm		4.6mb	
MDJ	54.68	338	eP	52 15.30	-0.5
KMI	58.70	304	Pd	52 46.00	1.1

NJ2	1.1s	525.00nm	6.0mb	X	WRA	47.47	187 P	51	49.50	-0.4	KHC	89.99	328 P	56	06.40	0.0		
	18.86	289 Pd	47	47.00	0.2		0.8s	3.90nm		3.9mb		1.3s	18.00nm		4.8mb			
	0.8s	26.00nm		4.8mb		GUN	47.54	284 P	51	51.80	1.0	GEC2	90.13	328 e(P)	56	06.50	-0.6	
MDJ	19.00	337 eP	47	49.50	1.5	PKI	48.02	283 P	51	55.00	0.5		1.0s	11.40nm		4.8mb		
	1.5s	120.00nm		5.2mb		KKN	48.08	284 P	51	55.20	0.4	VAY	90.32	318 iP	56	08.00	0.0	
		eS	50	58.00		DMN	48.28	284 P	51	56.80	0.5	SKO	90.59	319 iP	56	09.50	0.3	
DL2	19.06	311 eP	47	50.00	1.4	GKN	48.59	284 P	51	59.20	0.6		1.0s	35.00nm		5.2mb		
	0.8s	52.00nm		5.1mb		SDN	50.64	40 eP	52	11.07	-2.1	GRF	90.67	330 iPd	56	09.60	0.1	
		eS	51	00.00			0.6s	75.50nm		5.2mb			1.1s	22.00nm		5.0mb		
SNY	19.59	321 iPc	47	54.80	1.0	KSH	53.67	300 P	52	37.00	1.3	WTS	90.84	333 eP	56	09.30	-0.8	
	1.0s	200.00nm		5.6mb			0.7s	20.00nm		4.6mb		OHR	91.50	319 eP	56	12.80	-0.7	
		sP	49	54.00		NDI	54.77	287 iPd	52	43.50	0.0	EKA	91.66	340 P	56	14.00	0.1	
		S	51	10.00		DZM	55.54	150 iPd	52	48.40	-0.5		1.0s	9.00nm		4.7mb		
YSS	19.60	6 iPc	47	54.00	0.1	IMA	55.62	27 iPc	52	48.83	-0.3	VBY	91.67	325 eP	56	14.00	-0.1	
	0.8s	30.00nm		4.9mb		HY8	57.14	274 eP	53	00.00	-0.2	ALQ	91.73	49 eP	56	15.97	1.1	
		e	51	09.50				e	53	48.00			0.7s	5.63nm		4.7mb		
CN2	20.04	328 P	47	58.60	0.5	GBA	59.61	270 Pd	53	15.00	-1.9	FUR	91.75	328 iPc	56	14.90	0.4	
	1.0s	60.00nm		5.1mb		POO	60.89	277 iPd	53	27.20	1.9		1.0s	53.00nm		5.5mb		
TIA	21.21	300 P	48	09.50	0.3	KOD	60.99	267 eP	53	26.00	-0.4	RBL	91.87	326 P	56	13.90	-1.2	
	1.0s	120.00nm		5.4mb		SVE	61.70	322 iPd	53	30.00	0.0	ENN	92.14	333 eP	56	15.00	-1.2	
WHN	22.58	284 Pd	48	22.50	0.7			e	54	05.00			1.0s	10.00nm		4.8mb		
	1.0s	60.00nm		5.1mb		ARU	62.87	322 iPd	53	37.00	-0.6	FVI	92.15	327 Pc	56	15.00	-1.3	
BJI	23.31	309 eP	48	27.00	-1.4		1.1s	200.00nm		5.6mb		WTTA	92.23	328 iPc	56	16.50	-0.4	
	1.0s	11.00nm		4.4mb		INK	63.49	25 eP	53	41.50	0.1	CDF	93.37	331 eP	56	21.20	-0.8	
TIY	25.24	301 eP	48	45.40	-0.6		0.5s	1.00nm		3.6mb	X		0.8s	7.40nm		4.8mb		
HHC	26.87	307 Pc	49	00.40	0.0	MBC	66.01	15 eP	53	57.00	-0.3	BSF	94.02	330 eP	56	23.90	-1.2	
	1.1s	28.00nm		4.6mb			0.5s	4.00nm		4.3mb			0.9s	5.40nm		4.7mb		
XAN	27.38	291 iPd	49	04.50	-0.4	ASH	67.43	302 eP	54	08.00	1.4	HAU	94.08	331 eP	56	24.20	-1.0	
	1.0s	14.00nm		4.4mb		VAN	67.62	302 iPd	54	07.60	-0.1	ROI	94.96	320 P	56	29.60	0.2	
BTD	27.89	306 eP	49	09.00	-0.4		1.4s	20.00nm		4.6mb		CSI	94.98	320 P	56	28.20	-1.3	
GYA	29.64	276 iPd	49	25.00	0.2	KEV	71.94	340 iP	54	33.00	0.1	CZI	95.44	320 P	56	31.20	-0.3	
	1.0s	35.00nm		4.8mb			1.0s	30.00nm		4.8mb		LOR	95.71	332 eP	56	31.90	-0.7	
		PcP	52	16.20		YKA	72.72	28 eP	54	36.90	-0.6	LPL	95.80	329 eP	56	32.50	-0.8	
		S	53	46.40			0.7s	11.40nm		4.6mb			0.8s	7.80nm		5.0mb		
CIT	31.45	328 eP	49	42.00	2.0	SDF	73.35	338 iP	54	41.00	0.0	LPG	95.81	329 eP	56	32.60	-0.8	
CD2	31.69	285 iPd	49	42.40	0.1	MOS	74.25	325 eP	54	46.00	-0.2		0.8s	8.60nm		5.0mb		
	0.7s	170.00nm		5.6mb		08N	75.05	325 iPd	54	51.00	0.2	LBF	95.89	331 eP	56	32.70	-0.7	
LZH	31.72	295 iPd	49	42.60	0.0		1.0s	70.00nm		5.2mb		SSF	96.03	332 eP	56	33.10	-0.9	
	1.0s	69.00nm		5.1mb		DAG		e	55	02.00			0.9s	5.40nm		4.8mb		
		PcP	52	20.80			75.15	355 eP	54	40.20	-10.7X	LDF	96.25	335 eP	56	33.90	-1.1	
KMI	33.37	275 Pd	49	57.50	0.9		1.0s	5.00nm					0.7s	3.00nm		4.6mb		
	1.0s	80.00nm		5.1mb		GRS	75.67	307 iPd	54	55.00	0.3	SOI	96.26	319 P	56	36.40	1.2	
MGD	33.43	10 ePd	49	56.00	-0.5		1.1s	50.00nm		5.0mb		AVF	96.30	332 eP	56	34.50	-0.7	
	0.8s	50.00nm		5.0mb		KAF	76.24	334 iP	54	56.90	-0.3	BUL	117.45	260 iPKPc	01	50.10	-0.6	
		e	51	26.00			0.7s	54.50nm		5.2mb			0.7s	4.79nm				
		e	57	30.00		KIV	76.32	312 eP	54	58.10	0.0	TIC	132.05	310 PKP	02	19.00	0.4	
YAK	35.18	352 iPd	50	09.70	-1.5		1.4s	61.00nm		5.0mb		KIC	132.07	309 PKP	02	18.90	0.3	
	0.9s	100.00nm		5.3mb		DPW	77.47	42 eP	55	04.95	0.6	LIC	132.36	309 PKP	02	19.60	0.4	
		e	51	52.00		NUR	77.80	333 iP	55	05.40	-0.3	ARE	148.92	76 e(PKP)	02	55.00	6.3X	
		i	55	14.00			0.3s	12.70nm		5.0mb		ZOBO	151.72	73 PKP	02	55.00	1.8	
		e	59	32.00		NEW	77.94	42 iPc	55	07.50	0.7		0.9s	23.79nm				
GTA	35.27	300 P	50	12.00	-0.4		0.7s	18.57nm		4.8mb			i	03	01.00			
	1.2s	47.00nm		4.8mb		LBFM	78.03	50 iPc	55	08.46	0.8	SIV	157.40	64 PKP	03	14.60	14.5X	
		PcP	52	30.60		ORV	79.09	51 iPc	55	13.36	0.4		i	04	07.40			
BOD	35.33	336 iPd	50	12.20	-0.2	UPP	80.98	334 iP	55	21.50	-0.8							
SMY	35.74	36 (P)	50	16.91	1.0	MEMM	81.74	52 (P)	55	48.01	21.3X							
	0.5s	35.53nm		5.1mb		LCCM	82.25	42 iPc	55	30.20	0.8							
ZAK	36.01	319 iPd	50	18.80	0.7	HFS	82.26	336 eP	55	27.40	-1.5							
	1.1s	42.00nm		4.8mb			0.3s	9.00nm		4.8mb								
		e	52	33.70		N82	82.49	337 P	55	29.30	-0.8							
MOY	37.87	320 eP	50	34.10	0.7		0.8s	36.20nm		5.1mb								
CHG	38.54	266 iPd	50	40.00	0.6	FCC	83.10	25 ePc	55	35.50	2.4							
	1.0s	35.00nm		4.8mb		HVU	83.82	46 iPc	55	38.86	1.5							
BDT	39.07	264 iPd	50	40.00	-3.6X	DUG	84.62	47 iPd	55	42.39	1.1	DL2	1.28	238 Pgd	49	08.60	0.4	
	0.8s	6.00nm		4.1mb			0.5s	4.06nm		4.4mb				Sg	49	25.20		
ADK	40.47	41 eP	50	54.12	-0.5	PEC	84.83	55 iPc	55	42.70	0.4	SNY	2.28	11 ePn	49	22.70	0.1	
	0.5s	17.82nm		4.8mb		BW06	85.30	44 iPc	55	44.97	0.3			Pgc	49	27.60		
LSA	42.66	285 Pd	51	14.80	1.8		1.1s	6.11nm		4.2mb				Sg	49	56.80		
	0.7s	10.00nm		4.4mb		ARUT	85.46	50 eP	55	47.08	1.6	CN2	4.59	23 Pgc	50	10.00	14.6X	
TIK	44.61	355 iP	51	26.00	-1.2		85.93	48 eP	55	48.61	0.8			Sg</				

S.D. = 0.9 on 126 of 131 obs.

? APR 25, 1993 06h 48m 46.57±1.24s

39.584 N ±10.1km 123.020 E ±15.4km

DEPTH = 33.0km (normal)

25d 07h

LPB 7.70 352 P 09 16.00 -0.1
 ZOBO 7.96 352 P 09 19.00 -0.7
 SIV 9.90 35 P 09 55.40 11.2X
 BAO 19.81 68 eP 11 42.50 0.0

S.D. = 0.6 on 7 of 8 obs.

% APR 25, 1993 07h 28m 20.49 ± 1.74s
 42.309 N ± 9.9km 19.917 E ± 11.3km
 DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 1.8 (TTG).

PVY 0.29 8 iPg 28 26.70 0.1
 iSg 28 31.46

TTG 0.50 284 iPg 28 29.92 -0.7
 iSg 28 37.93

IVA 0.56 359 iPg 28 31.65 -0.3
 iSg 28 40.50

ULC 0.60 235 iPg 28 32.71 0.0
 iSg 28 42.16

BDV 0.81 269 iPg 28 36.07 -0.1
 iSg 28 48.91

NKY 0.85 307 iPg 28 36.97 0.1
 iSg 28 49.93

HCV 1.06 278 iPg 28 40.83 0.4
 iSg 28 57.25

BRY 1.17 301 iPg 28 43.08 0.6
 iSg 29 01.03

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

% APR 25, 1993 07h 43m 15.30 ± 0.77s
 28.120 S ± 6.7km 26.877 E ± 8.3km
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 2.5 (PRE).

SEK 0.69 107 iPg 43 29.60 0.5
 S 43 38.10

BLF 1.16 211 iPg 43 38.00 0.5
 S 43 54.50

BFS 1.22 356 eP 43 38.50 -0.1
 S 43 52.40

PRY 1.30 24 eP 43 40.20 0.3
 S 43 56.50

SWZ 1.66 304 eP 43 46.90 1.5
 S 44 16.00

FRS 2.12 220 iPg 43 50.50 -1.3
 S 44 16.00

KSR 2.25 0 eP 43 52.50 -1.4
 S 44 19.50

SLR 2.69 28 eP 44 05.70 5.6X
 S 44 35.80

S.D. = 1.3 on 7 of 8 obs.

? APR 25, 1993 07h 56m 22.36 ± 1.93s
 15.552 N ± 34.3km 95.340 W ± 19.7km
 DEPTH = 39.4 ± 17.2 km

3.6mb (1 obs.)

NEAR COAST OF OAXACA, MEXICO (66)

OXX 2.02 319 iP 56 55.00 0.1
 iS 57 19.00

TPX 3.04 102 eP 57 09.00 -0.2
 iS 57 23.50

IISM 3.93 331 eP 57 23.50 1.6
 iS 57 26.00

ACX 4.53 287 (P) 57 26.00 -4.4X
 iS 57 36.50

PPM 4.70 319 (P) 57 36.50 3.3X
 iS 57 42.50

IIA 4.78 319 (P) 57 42.50 8.7X
 iS 57 33.50

III 4.85 306 eP 57 33.50 -1.5
 iS 57 44.00

UNM 5.25 316 (P) 57 44.00 3.2X
 iS 58 03.50

CRX 5.64 313 (P) 58 03.50 17.2X
 iS 58 05.00

MRX 6.94 307 (P) 58 05.00 0.8
 iS 00 02.02

LTX 15.72 332 eP 00 02.02 -0.7
 iS 00 46.60

MEQ 19.37 352 iPd 01 07.60 -0.6
 iS 04 59.00

ACO 21.33 352 iPd 01 07.60 14.0X
 iS 05 06.60

SIV 46.12 131 eP 05 06.60 -0.2
 iS 05 05.30

YKA 48.82 348 eP 05 05.30 3.6mb
 iS 06 42.50

S.D. = 1.4 on 10 of 16 obs.

* APR 25, 1993 08h 21m 01.73 ± 0.68s
 3.108 S ± 10.8km 149.030 E ± 10.8km
 DEPTH = 33.0km (normal)

4.7mb (6 obs.)

BISMARCK SEA (203)

RAB 3.31 109 e(P) 21 52.00 -0.4

MDG 3.88 237 eP 22 48.00 -8.5X
 PMG 6.53 196 eP 22 45.00 7.0X
 MTN 20.18 240 eP 25 33.00 -3.4X

0.7s 25.00nm 4.7mb

WB2 22.03 219 iPd 25 54.10 -1.2
 0.7s 18.50nm 4.6mb

RMQ 23.25 181 eP 26 08.00 0.8
 1.3s 70.00nm 5.0mb

BRS 24.41 172 iPg 26 19.00 0.5
 iS 26 22.00

ASPA 25.13 214 iPd 26 25.30 -0.2
 0.8s 28.00nm 4.9mb

ARMA 27.28 175 eP 26 51.40 6.1X
 1.0s 14.00nm 4.6mb

NST 51.84 293 eP 30 10.00 0.7
 YAK 66.61 350 eP 31 50.00 -0.7

GSA 72.90 285 P 32 36.00 5.9X
 YKA 95.69 28 eP 34 25.70 0.5

0.7s 0.60nm 4.2mb

CNCB 138.44 120 PKP 40 39.00 11.5X
 LPB 138.45 119 PKP 40 38.00 10.7X

ZOBO 138.54 119 PKP 40 38.20 10.5X
 SIV 144.70 123 PKP 40 54.60 16.8X

PPD 148.06 142 (PKP) 40 52.00 8.8X
 S.D. = 0.9 on 8 of 18 obs.

APR 25, 1993 09h 29m 50.36 ± 0.24s

35.624 N ± 3.8km 112.147 W ± 2.7km

DEPTH = 10.0km (geophysicist)

5.0mb (29 obs.) 4.5Msz (1 obs.)

WESTERN ARIZONA (42)

Some minor damage at Tusayan,

Valle and Pipe Spring National

Monument. Felt (V) at Grand

Canyon and Jerome; (IV) at Ash

Fork, Flagstaff, Fredonia,

Perks, Poulden, Seligman and

Winslow; (III) at Bagdad,

Bullhead City, Cameron, Chinle,

Colorado City, Cottonwood,

Kirkland, Munds Park and Peach

Springs; (II) at Williams. Felt

(IV) at Bryce, Utah and (III) at

Konab, Utah. Also felt at St.

George and Tropic, Utah. Felt

from southern Utah to Phoenix,

Arizona.

ARUT 2.40 335 eP 30 30.94 0.5

MSU 2.88 360 eP 30 37.38 0.0

TUC 3.49 161 ePn 30 46.88 1.0

ePg 31 00.62

eSg 31 45.52

TPNV 3.57 293 ePn 30 47.04 0.0

SRU 3.71 20 ePn 30 49.17 0.0

PV09 3.75 39 P 30 50.79 1.0

EMUT 4.31 14 ePn 30 58.45 0.7

PEC 4.47 249 ePn 30 59.77 0.0

PLM 4.50 241 ePn 31 00.84 0.5

DUG 4.59 354 ePn 31 01.43 -0.2

ALQ 4.70 97 ePn 31 03.71 0.5

eSg 32 14.94

TNP 4.75 303 ePn 31 03.80 -0.1

SSK 4.77 254 ePn 31 04.24 0.1

DAU 4.83 8 ePn 31 06.40 1.2

ISA 5.15 272 ePn 31 09.20 -0.2

BONR 5.46 297 (P) 31 14.01 0.0

MEMM 5.83 292 ePn 31 19.53 0.7

KVN 5.85 308 ePn 31 21.18 1.8

HVV 6.17 356 ePn 31 23.49 -0.3

BCH 6.50 268 ePn 31 25.26 -3.2

PHAM 6.72 274 (P) 31 32.43 1.0

GOL 6.74 51 ePn 31 32.66 0.6

ePg 31 54.57

eLg 33 17.28

CMB 7.03 292 ePn 31 37.97 2.1

ePg 32 07.27

eSg 33 30.27

BW06 7.42 15 ePn 31 38.75 -2.8

eLg 33 39.69

SAO 7.60 281 eP 31 44.90 1.0

ARN 7.75 286 eP 31 47.45 1.4

MHC 7.84 285 ePn 31 47.39 0.1

eSg 33 54.34

ORV 8.40 301 ePn 31 55.11 0.1

BKS 8.40 288 ePn 31 55.54 0.5

eSg 34 17.94

MIN 8.83 305 ePn 32 04.26 3.2X

ePg 32 43.06

eSg 34 25.31

NTYM 8.85 291 ePn 31 59.63 -1.6

TPMT 9.10 2 ePc 32 05.80 0.8

MCMT 9.21 357 ePc 32 08.60 2.2

LTX 9.52 129 ePn 32 10.71 0.2

eLg 34 50.13

WDC 9.57 304 ePn 32 12.15 1.0

eSg 34 44.80

BGMT 9.60 0 ePc 32 12.50 0.7

MEMT 10.01 5 eP 32 17.90 0.5

LCCM 10.21 1 eP 32 21.30 1.3

BUT 10.38 358 eP 32 25.90 3.4X

RSSD 10.52 34 ePn 32 20.24 -4.2X

ACO 10.57 80 e(P) 32 24.40 -0.5

WMOK 10.98 91 ePn 32 31.75 1.3

HRY 11.08 1 eP 32 32.90 0.9

MEO 11.13 90 iPg 32 32.90 0.3

VGB 11.85 329 (P) 32 42.82 0.4

OCO 11.95 86 iPg 32 47.50 3.8X

FNO 12.04 87 iPg 32 47.40 2.5

PCO 12.31 81 iPg 32 53.20 4.7X

DPW 13.04 342 P 33 02.98 4.7X

NEW 13.16 345 (P) 32 59.91 0.1

0.9s 39.24nm 5.5mb X

Lg 36 44.77

LON 13.27 330 (P) 33 03.34 2.0

MZX 13.34 157 (P) 33 11.50 9.2X

GMW 14.31 330 (P) 33 15.39 0.4

MCW 15.24 332 (P) 33 32.93 5.8X

MIAR 15.25 89 eP 33 27.21 0.0

1.2s 199.36nm 5.4mb

PGC 15.46 331 eP 33 36.00 6.1X

FVM 17.55 76 eP 33 56.23 -0.4

1.3s 106.69nm 4.8mb

Lg 38 56.05

ELC 18.51 78 eP 34 08.71 0.3

Lg 39 29.36

MRX 18.57 146 (P) 34 14.00 4.7X

ULM 18.80 34 eP 34 13.00 1.1

UNM 19.86 141 (P) 34 31.00 6.2X

PPM 20.36 141 (P) 34 33.00 2.6

III 20.53 144 (P) 34 34.00 2.3

IISM 21.09 138 (P) 34 41.00 3.7X

GBTN 22.68 82 ePn 34 51.97 -1.1

TKL 23.03 82 eP 34 57.88 1.3

PRM 24.45 85 eP 35 10.75 0.4

NAV 25.22 77 eP 35 17.90 0.2

JSC 25.31 84 eP 35 17.98 -0.6

BLA 25.52 77 eP 35 21.05 0.4

0.9s 47.91nm 5.2mb

LHS 25.63 83 eP 35 20.74 -0.8

eLg 43 18.57

FCC 26.03 22 ePc 35 27.00 2.0

SGS 26.16 86 eP 35 26.77 0.3

HBF 26.33 87 (P) 35 28.29 0.2

YKA 26.94 357 eP 35 30.70 -2.7

0.4s 2.10nm 4.2mb

CVL 26.99 75 (P) 35 35.43 1.3

eLg 43 52.27

GAC 29.35 59 eP 35 55.00 -0.4

RSNY 29.91 61 (P) 35 59.63 -0.8

1.0s 14.99nm 4.8mb

JAO 31.16 43 eP 36 11.50 0.1

PMR 34.87 330 eP 36 43.95 0.5

1.3s 28.96nm 5.0mb

PMS 34.87 329 eP 36 44.20 0.7

1.2s 75.10nm 5.4mb

INK 34.88 346 eP 36 44.00 0.6

FBA 36.21 335 eP 36 55.01 0.2

0.7s 17.39nm 5.0mb

e 36 59.00

LMN 36.81 59 eP 37 03.00 2.9X

SVW 37.44 327 eP 37 05.70 0.5

TTA 38.34 329 eP 37 12.83 0.0

1.4s 15.74nm 4.6mb

IMA 38.90 334 eP 37 17.77 0.2

0.9s 13.17nm 4.6mb

e 37 21.80

MBC 40.85 357 eP 37 33.50 0.2

0.8s 5.00nm 4.3mb

SDV 46.23 115 eP 38 18.30 0.5

TOV 46.26 113 ePc 38 19.80 1.9

ADK 47.77 311 eP 38 28.08 -1.2

	0.8s	26.29nm	5.4mb	62.974 N	150.827 W	BRLK	0.30 109 iP	49 09.38	-0.4
		e	38 31.81	DEPTH = 112.1km			eS	49 16.22	
1LT	48.74	332 iPd	38 36.80 0.2	CENTRAL ALASKA	(1)	CNPM	0.35 162 iP	49 09.66	-0.6
	1.4s	48.00nm	5.4mb	<AEIC>.			eS	49 16.63	
		e	40 00.50			XLV	0.43 199 P	49 11.30	0.2
MGD	63.15	326 eP	40 20.00 -0.2	TRF	0.54 27 eP	49 23.46	-0.4	49 15.50	-1.0
		e	40 57.00		eS	49 37.30		49 27.12	
TIK	64.86	342 iPd	40 29.00 -2.3	HUR	0.54 89 iP	49 23.39	-0.3	49 15.97	-1.0
	1.6s	13.00nm	4.9mb		eS	49 36.67		49 27.95	
		e	41 07.00	RND	0.99 63 eP	49 27.43	-0.3	49 16.48	-0.8
ZOBO	66.35	133 P	40 40.80 -1.4		eS	49 44.01		49 28.99	
	Z 24s	0.10um	3.9MsZx	SKT	1.05 198 iP	49 27.89	-0.4	49 16.58	-0.7
		LR	01 48.00		eS	49 44.70		49 28.71	
LPB	66.57	133 P	40 42.00 -1.4	MCK	1.14 47 iP	49 28.92	-0.4	49 16.54	-0.8
SIV	70.51	127 iPd	41 20.80 13.3X		eS	49 46.49		49 29.03	
YAK	70.73	334 eP	41 07.00 -1.1	SUA	1.52 178 eP	49 34.16	0.4	49 16.60	-0.7
	1.5s	40.00nm	5.3mb		eS	49 55.07		49 29.02	
SDF	72.60	16 iP	41 18.00 -1.3	PMR	1.60 149 eP	49 33.24	-1.3	49 18.51	1.4
NB2	73.23	25 P	41 21.40 -1.7		eS	49 54.95		49 16.48	-0.7
	1.0s	4.80nm	4.5mb	SML	1.65 134 iP	49 34.55	-0.7	49 16.93	-0.8
YSS	73.90	317 iPc	41 27.00 -0.2		eS	49 57.37		49 29.81	
HFS	74.74	25 eP	41 29.00 -2.8	NEA	1.79 25 iP	49 35.95	-1.0	49 16.83	-0.8
	0.9s	7.70nm	4.7mb	CRP	1.82 201 eP	49 37.18	-0.4	49 29.96	
	Z 17s	0.11um	4.2MsZx	CPAM	1.83 200 eP	49 37.05	-0.6	49 17.18	-1.0
		LR	10 31.00		eS	50 01.98		49 18.24	-0.8
UPP	76.26	24 iP	41 39.50 -0.9	CP2	1.84 202 eP	49 37.23	-0.6	49 32.04	
FLN	76.36	39 eP	41 39.90 -1.4	BGL	1.87 204 eP	49 37.85	-0.2	49 19.44	-0.6
LPF	76.53	40 eP	41 39.80 -2.4	CKN	1.87 201 eP	49 38.40	0.4	49 19.70	-0.6
KAF	76.99	19 iP	41 42.70 -1.8	SPU	1.89 198 eP	49 37.38	-0.9	49 19.93	-0.6
	0.8s	9.20nm	4.9mb	CKT	1.89 201 eP	49 38.07	-0.3	49 35.75	
NUR	77.88	20 eP	41 48.40 -1.0	CKL	1.92 202 eP	49 38.27	-0.5	49 19.91	-0.6
	0.8s	12.70nm	5.1mb	WRH	1.93 38 iP	49 37.92	-0.9	49 35.26	
BOD	79.09	337 eP	41 54.30 -1.8	SCM	1.99 124 iP	49 38.67	-0.9	49 20.12	-0.5
	1.3s	27.00nm	5.1mb	MLY	2.07 1 iP	49 39.62	-0.9	49 22.98	-0.5
TCF	79.35	40 eP	41 56.20 -1.6	CCB	2.15 37 iP	49 40.50	-1.0	49 23.16	-0.6
	1.0s	11.60nm	4.8mb	HDA	2.25 48 eP	49 41.55	-1.3	49 41.25	
BGF	79.51	40 eP	41 56.90 -1.7	NKA	2.25 185 eP	49 45.23	2.4	49 23.70	-0.6
	0.8s	7.50nm	4.7mb	PTE	2.28 157 eP	49 42.17	-1.1	49 23.89	-0.6
SSF	79.51	39 eP	41 57.10 -1.5	MDM	2.30 29 iP	49 42.55	-1.0	49 24.47	-0.1
LOR	79.55	38 eP	41 57.40 -1.5	THY	2.34 77 eP	49 42.99	-1.2	49 24.77	-0.2
AVF	79.61	39 eP	41 57.50 -1.6	FBA	2.35 33 ePd	49 42.90	-1.3	49 25.33	0.2
HAU	80.29	37 eP	42 01.30 -1.5	TTA	2.37 271 ePd	49 42.95	-1.6	49 25.13	-0.2
	0.7s	3.40nm	4.4mb		eS	50 09.20		49 24.53	-0.6
MOX	80.86	32 eP	42 05.30 -0.4	PAX	2.45 88 eP	49 45.18	-0.4	49 43.41	
CLL	80.97	31 eP	42 06.00 -0.3	SDG	2.47 98 eP	49 45.45	-0.4	49 25.34	-0.2
	1.6s	18.00nm	4.8mb	SLKM	2.49 173 eP	49 45.34	-0.8	49 26.49	-0.2
PPD	81.25	125 eP	42 09.30 1.1	GLM	2.53 35 iP	49 45.64	-0.9	49 26.46	-0.9
		e	42 13.40	MPA	2.59 164 eP	49 46.37	-1.0	49 28.01	0.2
GRF	81.38	33 ePKP	42 09.90 1.4	NCT	2.62 203 P	49 49.20	1.3	49 33.32	-0.5
	Z 18s	0.20um	4.5MsZ	RDW	2.67 202 eP	49 47.94	-0.7	49 35.07	0.5
		e	42 13.20	TZL	2.67 108 eP	49 48.19	-0.3	49 39.76	0.1
BRG	81.69	31 iP	42 10.00 0.0	KLU	2.74 121 iP	49 47.61	-1.8	49 39.63	-0.8
		i	42 13.60	DOT	3.13 74 iP	49 53.41	-1.2	49 44.21	-0.4
PRU	82.61	31 eP	42 15.50 0.7	BRLK	3.22 181 eP	49 55.15	-0.7	49 42.79	-1.9
GEC2	83.10	33 ePd	42 17.10 -0.5	HIN	3.31 140 eP	49 54.91	-2.1	49 44.48	-1.5
	1.0s	2.98nm	4.4mb	IMA	3.34 340 eP	49 55.74	-1.9	49 47.83	-1.7
		e	42 21.00	CNPM	3.47 183 iP	49 58.31	-0.9	41 obs. associated	
		e	42 28.70	GLB	3.63 112 iP	49 59.78	-1.6		
ZST	85.06	31 eP	42 27.30 0.0	AUL	3.82 200 P	50 05.90	2.0	APR 25, 1993 10h 50m 03.23±0.60s	
MOS	85.41	17 eP	42 32.00 3.1X	RAGM	3.91 129 eP	50 03.97	-1.3	44.233 N ± 5.6km 11.227 E ± 4.8km	
OBN	85.74	17 iPd	42 30.00 -0.6	CDD	4.28 200 eP	50 09.63	-0.7	DEPTH = 10.0km (geophysicist)	
	1.5s	56.00nm	5.5mb	FYU	4.33 31 eP	50 09.41	-1.4	NORTHERN ITALY (545)	
	Z 16s	0.30um	4.8MsZx	BALM	4.45 112 eP	50 10.23	-2.4	MD 2.6 (TRI).	
		e	42 32.00 0.6	SYI	4.45 191 eP	50 11.32	-1.1		
SRO	85.87	31 eP	42 40.00 -0.2		49 obs. associated			BDI 0.48 250 P	50 13.10 0.0
SVE	87.72	4 ePd	42 40.00 -0.2					eSg	50 21.90
	1.5s	40.00nm	5.5mb					PGD 0.50 135 P	50 12.80 -0.7
ARU	88.00	5 ePd	42 41.00 -0.6					eSg	50 20.90
		i	42 45.50					SFI 0.55 125 P	50 13.70 -0.6
ZAK	88.83	338 eP	42 46.50 0.8					eSg	50 22.90
	1.3s	19.00nm	5.2mb					PII 0.72 225 P	50 17.60 0.2
ELT	90.06	349 eP	42 51.00 -0.4					eSg	50 29.20
	1.3s	22.00nm	5.2mb					CRE 0.80 139 P	50 18.80 0.0
WB2	120.15	266 ePKP	48 42.90 -0.5					eSg	50 31.00
	1.2s	2.50nm						RSM 0.93 109 P	50 22.10 1.1
WRA	120.16	266 PKP	48 43.30 -0.2X					eSg	50 34.70
	0.9s	1.30nm						ARV 1.44 120 P	50 29.80 0.4
ASPA	122.32	263 ePKP	48 46.90 -0.6					eSg	50 49.70
BUL	142.31	76 ePKP	49 19.00 -6.5X					CTI 1.84 9 P	50 34.60 -0.6
FRS	143.94	93 ePKP	49 24.00 -3.7X					TRI 2.33 50 e(Pg)	50 36.90 -5.2X
BLF	144.41	91 iPKPc	49 26.50 -2.3X					e(Sg)	51 03.70
	0.6s	7.14nm						FVI 2.60 24 P	50 46.20 0.2
SLR	144.77	85 iPKPd	49 27.60 -1.9X					S.D. = 0.7 an 9 of 10 obs.	
	1.0s	45.00nm							
BFT	146.18	84 iPKPc	49 35.00 3.0X						
	S.D. = 1.2	on 116 of 137 obs.							

& APR 25, 1993 16h 55m 14.48s
59.009 N 152.643 W
DEPTH = 71.7km
SOUTHERN ALASKA (2)
<AEIC>.

SYI	0.42	162	iPc	55	26.21	-0.7
			eS	55	34.96	
AUE	0.51	313	eP	55	27.22	-0.5
			eS	55	37.25	
AUI	0.52	309	ePd	55	27.13	-0.7
			eS	55	36.77	
CDD	0.52	262	iPc	55	27.21	-0.7
			eS	55	37.75	
AUH	0.54	311	iPd	55	27.68	-0.5
			eS	55	36.66	
AUL	0.55	313	ePd	55	27.59	-0.6
XLV	0.65	46	eP	55	28.17	-1.0
			eS	55	38.97	
CNPM	0.89	54	iPc	55	31.19	-0.8
			eS	55	43.97	
MCNL	0.89	282	iPc	55	31.09	-0.9
			eS	55	43.66	
INE	1.08	349	ePd	55	33.30	-1.2
INW	1.09	347	ePc	55	33.69	-0.9
			eS	55	47.93	
BRLK	1.18	49	eP	55	34.87	-0.8
KDC	1.27	176	eP	55	35.96	-0.8
			eS	55	49.75	
RS1	1.46	358	ePd	55	38.75	-0.8
			eS	55	57.48	
RSO	1.46	358	iPd	55	38.74	-0.8
			eS	55	58.19	
RS2	1.46	358	iPd	55	38.79	-0.8
			eS	55	57.58	
RDW	1.48	357	iPd	55	38.92	-0.9
NCT	1.56	355	eP	55	40.19	-0.7
RDT	1.57	4	eP	55	40.50	-0.5
DFR	1.59	359	ePd	55	40.52	-0.7
NKA	1.88	22	ePd	55	45.84	0.8
SLKM	1.94	38	eP	55	44.68	-1.3
CKL	2.20	4	iPd	55	49.17	-0.4
SPU	2.20	7	iPd	55	48.99	-0.6
CKT	2.21	5	iPd	55	49.19	-0.5
MPA	2.23	47	eP	55	48.58	-1.3
CKN	2.23	6	eP	55	49.98	0.0
BGL	2.27	3	ePd	55	50.12	-0.4
CPAM	2.27	6	iPd	55	50.25	-0.3
CP2	2.27	5	eP	55	50.50	-0.2
CRP	2.28	6	ePd	55	50.43	-0.3
PTE	2.60	43	ePc	55	53.39	-1.7
SUA	2.64	20	eP	55	54.91	-0.8
SKT	3.03	10	eP	56	00.29	-0.8
PMR	3.13	32	eP	55	58.51	-3.9
HIN	3.41	63	eP	56	04.16	-2.2
SML	3.53	35	iPc	56	06.33	-1.7
CVA	3.81	63	eP	56	09.57	-2.4
VLZ	3.81	53	eP	56	10.21	-1.7

39 obs. associated

? APR 25, 1993 17h 11m 17.99±2.98s
39.194 N ±21.0km 23.354 E ±20.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 1.8 (THE).

PAIG	0.77	19	iPg	11	33.18	0.1
			eSg	11	43.34	
AGG	0.81	258	ePg	11	33.82	0.0
			eSg	11	46.42	
LIT	1.13	324	ePg	11	39.18	0.1
			eSg	11	53.66	
KNT	2.00	350	ePb	11	51.94	-0.2

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

APR 25, 1993 17h 42m 48.72±0.28s
1.897 S ±4.7km 145.753 E ±6.6km
DEPTH = 33.0km (normol)
5.1mb (41 obs.) 5.3Msz (23 obs.)
ADMIRALTY ISLANDS REGION, P.N.G. (199)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 35S, 58C
Centroid Location:
Origin Time 17:42:53.5 0.3

Lat 1.61S 0.05 Lon 145.78E 0.03
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10**17 Nm
Mrr=-0.14 0.05 Mtt=-0.64 0.07
Mff=0.78 0.08 Mrt=0.17 0.12
Mrf=-0.16 0.15 Mtf=2.00 0.06
Principal Axes:

T Vol= 2.19 Plg= 1 Azm=125
N -0.12 83 29
P -2.08 7 215
Best Double Couple: Mo=2.1*10**17
NP1: Strike=260 Dip=85 Slip= -4
NP2: 350 86 -175

MDG	3.33	180	P	43	39.70	0.0
MNDI	4.72	206	eP	44	02.00	2.4
RAB	6.79	110	eP	44	28.00	-0.7
			iS	45	52.00	
PMG	7.59	169	eP	44	40.00	0.1
	1.0s	148.00nm			6.0mb	

GUA	15.36	357	eP	46	18.80	-6.0X
PJG	15.41	357	eP	46	18.50	-7.0X
HNR	15.98	118	eP	46	31.00	-1.8
MTN	18.11	232	eP	46	58.00	-1.6
	0.8s	151.00nm			5.2mb	
WB2	21.12	211	iPd	47	30.30	-2.8X
	1.0s	82.50nm			5.1mb	
KNA	21.68	230	iPc	47	37.70	-1.0
	0.9s	125.00nm			5.3mb	

DAV	22.03	294	eP	47	41.30	-0.9
ASPA	24.50	207	iPc	48	06.60	0.2
	1.3s	87.80nm			5.2mb	
		eS	52	38.90		
QLP	24.59	183	eP	48	07.40	0.2
RMQ	24.62	174	eP	48	08.00	0.5
	0.8s	32.00nm			4.9mb	
DZM	28.41	136	iPc	48	49.00	6.4X
ARMA	28.91	169	eP	48	53.40	6.4X
	0.9s	11.00nm			4.6mb	

CMS	29.43	180	eP	48	56.40	4.8X
QCP	29.44	305	eP	48	45.00	-6.9X
WARB	30.34	216	eP	49	00.00	0.2
BAG	30.80	307	eP	49	02.00	-2.1
BWA	32.46	176	eP	49	21.80	3.5X
CAN	33.39	175	eP	49	30.00	3.6X
BFD	35.23	184	eP	49	42.10	0.0
TOO	35.50	180	eP	49	45.50	1.0
	0.8s	14.00nm			4.9mb	

MAT	38.88	350	eP	50	12.00	-0.9
	1.5s	41.67nm			5.0mb	
Z	18s	2.06um			5.0Msz	
		eS	56	06.00		
GZH	40.17	310	eP	50	28.00	4.3X
	19s	3.69um			5.3Msz	

SSE	40.28	327	Pc	50	27.50	3.0X
	1.0s	21.00nm			4.8mb	
Z	20s	5.00um			5.4Msz	
N	12s	1.10um				
E	12s	2.30um				
		S	56	30.00		
		SS	59	18.00		

QIZ	40.96	302	eP	50	37.00	6.7X
	12s	1.83um				
		eS	56	41.00		
NJ2	42.31	325	Pc	50	40.00	-1.1
	18s	2.12um			5.1Msz	
N	15s	1.85um				
E	11s	1.95um				

WHN	44.00	320	eP	50	55.00	0.1
	20s	4.35um			5.4Msz	
E	12s	1.70um				
		eS	57	24.00		
DL2	46.28	334	eP	51	10.00	-3.0X
	21s	1.85um			5.0Msz	
N	15s	2.12um				
		eS	57	54.00		

TIA	46.36	328	eP	51	15.00	1.3
	1.0s	14.00nm			4.9mb	
Z	21s	5.31um			5.5Msz	
N	13s	0.70um				
E	13s	1.16um				
		eS	58	00.00		
GYA	47.09	309	P	51	23.40	3.6X
	26s	3.10um			5.2MszX	
N	15s	2.68um				
E	15s	1.94um				

SNY	47.94	338	eP	51	26.80	0.7
	20s	3.03um			5.3Msz	
N	12s	1.06um				
		S	58	18.50		

NST	48.35	293	eP	51	29.50	-0.1
MDJ	48.50	345	eP	51	32.80	2.4
	18s	1.80um			5.1Msz	
N	14s	1.18um				
		eS	58	24.00		

YSS	48.78	357	eP	51	30.60	-1.8
	1.2s	40.00nm			5.3mb	
Z	17s	1.30um			5.0MszX	
N	17s	0.80um				
E	17s	0.50um				

CN2	49.00	341	eP	51	36.00	1.8
	0.8s	2.90nm			4.4mb	
Z	18s	2.68um			5.3Msz	
N	14s	1.26um				
E	14s	0.64um				

KHT	49.53	291	eP	51	41.00	2.3
KMI	49.57	306	Pc	51	43.50	4.3X
	1.5s	70.00nm			5.5mb	
Z	25s	3.40um			5.2MszX	
N	11s	1.30um				
E	11s	0.90um				

		pP	51	50.50	23kmX	
		eS	58	46.00		
BJI	49.74	330	eP	51	41.50	1.6
	1.2s	16.00nm			4.9mb	
Z	20s	2.40um			5.2Msz	
N	18s	1.78um				

XAN	49.76	319	P	51	38.90	-1.4
	1.1s	28.00nm			5.2mb	
Z	18s	3.05um			5.3Msz	
N	14s	1.39um				
E	11s	0.98um				

		pP	51	54.90	62kmX	
		S	58	50.00		
		SS	02	18.00		
BDT	49.86	294	eP	51	40.50	-0.7
TIY	50.03	325	eP	51	45.00	2.6X
	27s	4.34um			5.3MszX	
E	13s	1.24um				

		S	58	47.00		
		SS	59	05.00		
		SS	02	14.00		
CHG	50.40	296	eP	51	45.50	0.1
	1.5s	55.56nm			5.3mb	

CD2	51.57	313	eP	51	54.00	-0.1
	1.0s	39.00nm			5.3mb	
Z	22s	3.32um			5.3Msz	
N	12s	1.70um				
		S	59	15.00		

HHC	52.72	328	P	52	01.00	-0.9
	28s	3.56um			5.3MszX	
N	13s	0.92um				
E	18s	1.76um				
		eS	59	32.00		

		ScS	01	46.00		
BTO	53.38	326	eP	52	06.50	-1.1
	17s	1.39um				
E	13s	0.90um				
		S	59	43.00		

LZH	54.32	318	eP	52	16.00	1.4
	1.5s	43.00nm			5.3mb	
Z	18s	2.77um				

25d 17h

ZAK 63.47 331 eP 53 18.00 -1.3
1.2s 34.00nm 5.3mb
eS 01 47.00
eSS 06 00.00
IRK 64.25 333 eP 53 22.70 -0.1
Z 17s 1.67um 5.3MsZ
N 20s 0.85um
E 14s 0.58um
e 53 53.00
eS 02 06.00
ePS 02 31.00
GUN 64.62 302 P 53 25.20 -0.9
BOD 64.69 342 eP 53 24.20 -1.3
YAK 64.91 352 iP 53 27.00 0.2
1.5s 55.00nm 5.4mb
iP 53 58.00 127kmX
ePPP 57 24.00
eS 02 12.00
eSS 02 45.00
PKI 64.92 302 P 53 27.60 -0.4
KKN 65.09 302 P 53 27.20 -1.8
1.0s 36.00nm 5.4mb
DMN 65.19 302 P 53 28.60 -1.1
1.2s 84.00nm 5.7mb
MOY 65.42 331 eP 53 29.90 -0.4
GKN 65.70 302 P 53 31.40 -1.4
1.1s 49.00nm 5.5mb
UER 68.83 328 eP 53 52.00 0.2
1.2s 20.00nm 5.1mb
Z 16s 1.16um 5.2MsZ
N 16s 0.50um
E 16s 0.75um
e 54 04.00
e 03 32.00
SS 07 24.00
WMQ 68.90 319 P 53 53.00 0.4
Z 18s 1.83um 5.4MsZ
N 26s 3.86um
sP 54 02.00
PcP 54 12.50
PP 56 30.50
SKS 03 47.00
HYB 68.90 289 eP 53 54.00 1.0
GBA 69.43 285 P 53 56.00 -0.2
SDN 71.90 29 eP 54 10.59 0.2
0.8s 75.64nm 5.8mb
ELT 73.82 327 eP 54 22.30 0.6
1.4s 28.00nm 5.1mb
e 54 44.00
e 57 12.00
eS 03 52.00
iLT 73.90 13 eP 54 20.00 -1.9
1.6s 25.00nm 5.0mb
e 54 32.00
eS 03 52.00
i 04 30.00
TIK 74.22 355 eP 54 22.00 -1.7
1.7s 19.00nm 4.8mb
Z 17s 1.00um 5.2MsZ
ePPP 58 52.00
eS 03 58.00
e 04 30.00
BOM 74.51 290 e(P)c 54 21.50 -4.9X
eS 03 15.50
PRZ 74.78 315 (P) 54 31.00 3.2X
eS 04 12.00
KSH 75.72 311 P 54 38.00 4.8X
1.2s 30.00nm 5.2mb
Z 22s 1.95um 5.4MsZ
E 14s 1.52um
SVW 77.06 25 eP 54 42.20 2.1
TTA 77.79 23 eP 54 45.26 1.1
1.1s 7.91nm 4.7mb
PMS 79.75 26 eP 54 55.20 0.3
0.9s 18.90nm 5.1mb
PMR 80.08 26 eP 54 56.53 0.0
1.3s 33.10nm 5.2mb
IMA 80.19 21 eP 54 58.45 1.2
1.4s 8.57nm 4.6mb
NRI 80.88 342 ePd 55 00.00 -0.6
Z 19s 1.90um 5.5MsZ
i 55 10.00
e 05 10.00
QUE 81.28 301 eP 55 05.90 2.1
BRW 81.83 16 eP 55 06.70 1.2
FBA 81.92 23 eP 55 05.46 -0.7

INK 1.2s 11.71nm 4.8mb
88.32 22 eP 55 40.50 2.5
1.0s 5.00nm 4.8mb
SVE 88.89 327 ePd 55 41.50 0.6
2.0s 40.00nm 5.4mb
Z 21s 2.50um 5.6MsZ
N 21s 0.50um
E 21s 1.50um
eS 06 32.00
eSSS 16 00.00
VAN 89.30 308 eP 55 45.00 1.7
Z 18s 1.10um 5.3MsZ
ARU 89.98 326 eP 55 46.00 0.0
Z 18s 1.00um 5.3MsZ
N 16s 0.50um
e 56 00.00
e 06 42.00
MBC 93.00 14 eP 56 01.00 1.4
YKA 96.13 27 eP 56 14.10 -0.1
1.1s 3.10nm 4.7mb
KHC 117.75 327 ePKP 01 38.00 4.6X
e 01 50.50
GEC2 117.83 326 ePKP 01 33.90 0.2
0.7s 0.46nm
e 01 40.40
e 01 51.30
CNCB 141.87 121 ePKP 02 21.00 0.3
LPB 141.89 120 ePKP 02 17.00 -3.5X
ZOB0 141.98 120 PKP 02 19.00 -1.9
LR 50 12.00
SDV 143.14 78 ePKP 02 20.00 -2.4
TOV 143.81 76 ePKP 02 23.00 -0.4
CAR 146.44 74 iPKPc 02 40.00 12.1X
SIV 148.08 125 PKP 02 48.40 18.0X
KIC 150.25 279 PKP 02 44.08 10.3X
TIC 150.48 280 PKP 02 43.86 9.7X
LIC 150.55 279 PKP 02 44.54 10.4X
Z 20s 0.39um 5.2MsZ
PPD 150.96 146 (PKP) 02 42.00 7.4X
S.D. = 1.2 on 74 of 102 obs.
APR 25, 1993 17h 51m 47.54 ± 6.04s
34.188 S ± 26.6km 72.512 W ± 41.8km
DEPTH = 10.7 ± 4.1 km
NEAR COAST OF CENTRAL CHILE (135)
MD 4.2 (SAN).
LNV 0.94 76 iP 52 05.78 0.3
iS 52 13.38
LCCH 1.06 48 iP 52 06.88 -0.5
iS 52 15.29
TACH 1.41 68 iP 52 11.98 -1.2
iS 52 26.88
CHCH 1.56 81 iP 52 15.36 0.0
iS 52 32.66
SAN 1.71 65 iP 52 17.71 0.3
PCH 1.76 72 iP 52 17.63 -0.6
iS 52 37.90
PEL 1.85 56 iP 52 19.55 0.1
iS 52 39.60
FCH 2.04 66 iP 52 22.40 -0.2
iS 52 45.32
JACH 2.20 47 iP 52 25.01 0.4
(S) 52 51.62
MDZ 3.32 68 e(P) 52 45.60 5.0X
RFA 3.39 101 ePd 52 44.70 3.1X
RTCV 4.07 56 ePc 52 54.00 2.9X
RTCB 4.13 50 eP 52 53.50 1.5X
CFA 4.42 56 e(P) 52 57.00 0.9
RTLL 4.44 51 eP 52 57.20 0.8
RTRS 4.77 34 e(P) 53 00.50 -0.5
TCA 7.25 69 eP 53 36.60 0.5
CNCB 17.77 14 P 55 59.00 1.8X
LPB 18.02 14 P 56 04.00 3.9X
ZOB0 18.27 14 P 56 00.00 -3.4X
S.D. = 0.7 on 13 of 20 obs.
APR 25, 1993 18h 00m 44.30 ± 1.15s
20.529 S ± 4.5km 176.205 W ± 7.2km
DEPTH = 225.0 ± 10.3 km
4.9mb (29 obs.)
FIJI ISLANDS REGION (181)
SVA 5.58 295 eP 02 05.40 -1.9
eS 03 00.00
VUN 5.63 296 eP 02 09.60 1.7
PVC 14.89 278 iPc 04 10.10 4.6X

BKM 14.97 278 iPc 04 11.00 4.5X
DZM 16.24 261 iPc 04 25.00 3.0X
iS 07 28.10
KUZ 17.63 202 eP 04 37.70 0.8
URZ 18.59 197 eP 04 44.80 -2.2
WLZ 18.69 201 P 04 49.40 1.4
NOZ 18.70 194 eP 04 49.10 1.0
MOZ 19.53 202 eP 04 58.10 1.6
MNG 21.24 198 P 05 11.80 -1.7
KIW 21.64 199 eP 05 17.10 -0.2
MTW 21.74 197 eP 05 17.50 -0.8
CAW 21.82 198 eP 05 18.50 -0.5
MRW 22.04 199 eP 05 20.10 -1.1
ORZ 22.40 203 eP 05 25.40 0.8
THZ 23.09 201 eP 05 32.10 0.7
DSZ 23.46 203 eP 05 35.70 0.7
KHZ 23.47 199 P 05 35.20 0.2
LTZ 24.21 201 P 05 41.30 -0.6
0.4s 101.00nm 5.8mb
WVZ 25.01 203 eP 05 49.60 0.4
HNR 25.50 292 eP 05 54.00 0.0
BWZ 26.58 203 eP 06 02.00 -1.4
ODZ 26.76 201 eP 06 05.30 0.2
MHZ 27.25 203 eP 06 09.60 -0.1
LSCZ 27.27 203 eP 06 09.40 -0.3
SBCZ 27.27 203 eP 06 09.50 -0.3
CMCZ 27.33 203 eP 06 10.90 0.6
BRS 29.11 250 iPc 06 27.50 1.2
1.0s 7.00nm 4.3mb
ARMA 30.57 245 eP 06 40.00 0.7
0.7s 14.00nm 4.8mb
RMQ 32.61 253 eP 06 57.70 0.8
0.8s 38.00nm 5.1mb
CNB 33.61 237 iPd 07 06.10 0.6
0.5s 19.00nm 5.0mb
iP 07 18.00 44kmX
CAN 33.90 237 iPd 07 08.00 0.1
i 07 19.20
BWA 34.12 239 eP 07 07.70 -2.1
i 07 20.00
CTA 35.16 264 iPd 07 20.00 1.4
1.0s 87.50nm 5.3mb
CMS 35.66 244 iPc 07 23.00 0.3
OLP 36.66 253 eP 07 31.40 0.3
TOO 37.24 234 iPd 07 35.90 -0.1
0.5s 40.00nm 5.3mb
STK 39.30 244 eP 07 53.60 0.6
0.6s 9.20nm 4.5mb
MDG 39.91 287 eP 07 59.00 0.8
ASPA 46.15 257 iPd 08 47.90 -0.5
0.6s 96.90nm 5.4mb
iP 09 39.60 242kmX
eScP 13 56.60
eS 15 13.90
eScS 18 22.80
WB2 46.25 262 iPc 08 48.40 -0.8
0.6s 68.70nm 5.2mb
eS 15 18.60
WRA 46.26 262 P 08 49.00 -0.3
0.7s 23.80nm 4.7mb
FORT 50.83 247 eP 09 24.00 -0.1
MTN 50.85 270 iPc 09 23.60 -0.9
0.6s 135.00nm 5.6mb
KNA 52.31 266 eP 09 35.00 -0.3
0.6s 123.00nm 5.6mb
WARB 52.42 252 iPc 09 34.90 -1.2
MBL 59.39 257 iPc 10 24.40 -1.2
0.6s 40.00nm 5.3mb
MUN 60.83 244 eP 10 35.00 -0.3
MRWA 61.39 247 eP 10 38.00 -1.0
0.5s 2.00nm 4.1mb
SPA 69.60 180 iPc 11 32.10 1.3
0.8s 42.00nm 5.2mb
MAT 71.24 323 eP 11 39.00 -1.8
0.8s 6.72nm 4.4mb
LEM 74.72 268 ePc 12 02.00 0.2
MDJ 81.52 324 eP 12 37.90 0.2
1.0s 18.00nm 4.8mb
TUC 81.68 51 ePc 12 39.85 0.9
1.0s 6.62nm 4.3mb
MSU 83.93 45 eP 12 51.12 0.6
TTA 84.69 9 iPc 12 53.65 0.1
1.7s 13.90nm 4.5mb
SRU 85.34 45 iPd 12 57.66 0.2
LTX 85.66 57 eP 12 58.35 -0.8
FBA 87.92 12 iPc 13 08.13 -1.0
1.1s 2.94nm 4.0mb

TIY 88.55 311 eP 13 14.00 1.2
 GOL 89.11 47 eP 13 15.95 0.3
 0.9s 3.75nm 4.3mb
 XAN 89.49 307 P 13 17.90 0.6
 1.0s 15.00nm 4.9mb
 HHC 90.58 314 eP 13 23.30 1.1
 1.0s 10.00nm 4.7mb
 KMI 90.86 296 P 13 26.00 2.0
 1.5s 50.00nm 5.3mb
 RSSD 92.01 43 eP 13 28.60 -0.2
 1.0s 7.52nm 4.7mb
 YAK 92.75 338 eP 13 30.00 -1.5
 1.3s 26.00nm 5.1mb
 LZH 94.13 307 eP 13 39.00 0.3
 2.0s 24.00nm 5.0mb
 YKA 95.84 24 eP 13 45.20 -0.5
 0.9s 0.90nm 4.0mb
 GUN 106.05 294 PKP 18 58.80 14.9X
 KKN 106.54 294 PKP 19 00.80 16.1X
 DMN 106.64 294 PKP 19 01.20 16.3X
 NB2 139.19 354 PKP 19 37.00 -8.5X
 0.5s 0.20nm
 HFS 139.81 352 ePKP 19 36.80 -9.8X
 0.3s 1.20nm
 KAS 147.21 316 iPKP 20 03.60 3.7X
 KSP 148.18 345 iPKP 20 04.80 3.7X
 21 02.00
 UZH 148.26 336 iPKPd 20 06.00 4.7X
 1.0s 35.00nm
 CLL 148.44 349 iPKPc 20 06.00 4.5X
 1.3s 23.00nm
 Z 19s 1.50um 5.8MsZ
 ip 21 01.90
 SPC 148.52 339 ePKP 20 08.00 6.1X
 BRG 148.68 348 iPKP 20 06.80 4.9X
 1.0s 10.00nm
 HRI 148.94 301 ePKP 20 00.80 -2.2
 MLR 149.14 329 ePKP 20 08.00 5.0X
 MOX 149.32 350 ePKP 20 07.60 4.7X
 1.6s 15.00nm
 e 21 04.00
 PRU 149.39 346 PKP 20 08.00 5.0X
 0.6s 5.60nm
 Z 17s 0.80um 5.6MsZ
 N 18s 0.60um
 E 18s 0.60um
 e 21 04.50
 ZNT 149.79 299 ePKP 20 09.80 5.6X
 CSS 150.30 305 ePKP 20 10.40 5.5X
 GRF 150.30 350 iPKPc 20 11.30 6.9X
 Z 18s 1.00um 5.7MsZ
 e 20 17.30
 SRO 150.35 340 iPKP 20 10.20 5.7X
 i 20 18.00
 ZST 150.38 342 ePKP 20 11.40 6.9X
 e 20 18.40
 e 21 06.70
 KHC 150.41 347 PKP 20 11.40 6.8X
 1.2s 12.50nm
 Z 28s 1.50um 5.6MsZ
 N 20s 0.50um
 E 26s 1.10um
 e 20 17.60
 e 21 07.40
 DOU 150.49 359 PKP 20 11.50 6.9X
 0.7s 11.10nm
 e 21 14.40
 RMN 150.54 296 ePKP 20 11.40 5.9X
 GEC2 150.65 347 ePKP 20 05.80 0.7
 0.8s 0.47nm
 e 20 10.80
 e 20 18.60
 e 20 20.80
 e 21 03.80
 WLF 150.87 357 PKP 20 13.00 7.8X
 FLN 151.62 6 ePKP 20 12.80 6.4X
 0.5s 8.15nm
 LDF 151.82 6 ePKP 20 13.10 6.4X
 0.6s 7.75nm
 GRR 151.95 7 ePKP 20 13.70 6.9X
 0.5s 7.50nm
 CDF 152.04 355 ePKP 20 14.20 7.1X
 0.6s 5.30nm
 LPF 152.29 7 ePKP 20 14.40 7.1X
 0.6s 17.60nm

HAU 152.51 356 ePKP 20 15.80 8.1X
 0.6s 5.60nm
 BSF 152.65 356 ePKP 20 16.10 8.1X
 0.7s 3.95nm
 LOR 153.33 360 ePKP 20 17.70 8.8X
 0.8s 6.05nm
 VBY 153.36 342 ePKPc 20 17.70 8.8X
 e 20 29.50
 e 21 19.00
 SSF 153.53 0 ePKP 20 18.30 9.2X
 LBF 153.61 360 ePKP 20 18.30 9.0X
 LSF 154.28 4 ePKP 20 18.70 8.5X
 0.7s 5.50nm
 LIC 163.40 148 (PKP) 20 22.00 0.5
 KIC 163.66 148 (PKP) 20 22.00 0.2
 S.D. = 1.0 on 70 of 108 obs.
 % APR 25, 1993 19h 20m 12.91±1.42s
 34.025 S ±15.5km 71.292 W ±10.3km
 DEPTH = 60.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)
 LNV 0.12 305 iP 20 22.38 0.2
 IS 20 28.99
 TACH 0.47 39 iP 20 24.31 -0.4
 IS 20 32.63
 CHCH 0.54 80 iP 20 25.54 0.1
 IS 20 34.75
 LCCH 0.59 337 iP 20 25.66 -0.3
 IS 20 35.16
 PCH 0.76 58 iP 20 27.86 -0.3
 IS 20 38.74
 PEL 1.01 30 (P) 20 32.59 1.3
 IS 20 44.64
 FCH 1.09 51 iP 20 32.25 -0.3
 IS 20 46.86
 JACH 1.46 24 iP 20 37.23 -0.3
 IS 20 55.80
 S.D. = 0.7 on 8 of 8 obs.
 APR 25, 1993 19h 25m 54.64±0.58s
 35.377 N ± 6.2km 28.022 E ± 5.2km
 DEPTH = 79.0 ± 7.4 km
 3.5mb (5 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.0 (ATH).
 KSL 1.47 59 ePb 26 20.50 0.6
 YER 1.77 7 iPn 26 24.00 0.1
 NPS 1.97 267 ePn 26 27.50 0.8
 ELL 2.05 48 iPn 26 28.60 0.7
 BCK 2.93 44 ePn 26 40.30 0.3
 IZM 3.08 349 iPn 26 42.30 0.4
 KHL 3.18 22 ePn 26 42.80 -0.6
 ALT 4.03 24 ePn 26 56.00 0.7
 VLI 4.33 289 ePn 26 59.00 -0.5
 EDC 4.96 359 ePn 27 04.00 -4.2X
 BNT 4.97 359 eP 27 07.00 -1.4
 AGG 5.82 310 eP 27 24.38 4.1X
 OUR 5.89 328 eP 27 24.22 3.1X
 SOH 6.56 327 iP 27 29.30 -1.2
 ZNT 6.62 116 eP 27 30.60 -0.7
 eS 28 42.70
 DSI 7.22 120 eP 27 39.60 0.0
 SAGI 7.59 131 eP 27 44.20 -0.5
 eS 29 05.30
 SKO 8.36 324 eP 27 55.50 0.4
 KHC 17.37 327 eP 29 55.00 1.8
 1.0s 3.50nm 3.5mb
 LPG 19.03 309 eP 30 13.70 0.3
 MOX 19.34 327 e(P) 30 15.10 -1.2
 CDF 20.12 317 eP 30 23.90 -0.6
 OBN 20.60 14 eP 30 29.00 -0.2
 e 30 35.00
 SMF 21.35 309 eP 30 36.70 -0.2
 LBF 21.40 310 eP 30 37.00 -0.5
 SSF 21.73 310 eP 30 41.50 0.8
 0.8s 6.70nm 4.1mb
 HFS 26.46 344 eP 31 24.60 -1.1
 0.4s 0.90nm 3.6mb
 Z 17s 0.12um 3.5MsZ
 LR 42 43.00
 NB2 27.84 342 P 31 37.80 -0.5
 0.7s 0.60nm 3.3mb
 YKA 77.94 343 eP 37 47.50 2.4
 0.8s 0.50nm 3.5mb
 S.D. = 1.0 on 26 of 29 obs.

* APR 25, 1993 19h 32m 55.55±1.07s
 5.997 N ± 7.8km 126.069 E ±15.1km
 DEPTH = 92.1 ± 14.1 km
 4.2mb (8 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)
 CTB 2.21 303 eP 33 32.00 0.9
 BIP 2.22 5 iPd 33 31.00 -0.3
 IS 33 59.00
 PLP 5.25 348 eP 34 12.50 -0.6
 KNA 21.77 173 eP 37 41.50 0.3
 0.7s 26.00nm 4.7mb
 ASPA 30.46 166 iPd 39 00.80 -1.0
 0.6s 4.10nm 4.3mb
 WARB 31.99 179 eP 39 15.00 -0.2
 MEEK 33.24 192 eP 39 25.00 -1.0
 0.4s 3.00nm 4.5mb
 MRWA 36.33 195 eP 39 52.00 -0.3
 0.4s 1.00nm 4.1mb
 STK 40.47 159 eP 40 27.50 0.7
 0.8s 2.30nm 4.1mb
 BRS 42.05 143 iPc 40 40.10 0.2
 0.9s 3.50nm 4.2mb
 ARMA 43.71 147 eP 40 54.30 0.9
 0.7s 3.00nm 4.2mb
 GBA 48.44 283 P 41 50.00 19.2X
 YAK 55.96 2 eP 42 26.20 0.0
 SKO 96.79 313 eP 46 30.00 12.7X
 OHR 97.47 313 eP 46 28.80 8.3X
 YKA 97.72 24 eP 46 21.50 0.4
 0.5s 0.20nm 3.9mb
 S.D. = 0.7 on 13 of 16 obs.
 % APR 25, 1993 19h 40m 21.62±0.66s
 26.370 S ± 5.9km 27.490 E ± 6.4km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.6 (PRE).
 PRY 0.56 182 eP 40 32.00 -0.8
 S 40 38.50
 KSR 0.73 313 eP 40 36.50 0.2
 S 40 46.00
 BFS 0.82 230 eP 40 37.80 -0.3
 S 40 51.50
 SLR 0.95 49 eP 40 39.90 -0.4
 S 40 50.50
 SEK 1.95 176 iPc 40 57.10 1.2
 S 41 20.00
 SWZ 2.10 247 eP 40 57.90 -0.1
 S 41 23.70
 BFT 2.40 74 eP 41 02.50 0.1
 BLF 2.96 203 eP 41 05.70 -4.6X
 S.D. = 0.8 on 7 of 8 obs.
 APR 25, 1993 19h 44m 28.59±0.65s
 35.352 N ± 6.7km 28.008 E ± 5.8km
 DEPTH = 68.1 ± 8.6 km
 3.8mb (10 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.2 (ATH).
 KSL 1.49 59 ePb 44 54.50 0.7
 YER 1.79 7 iPn 44 58.00 0.0
 NPS 1.96 268 ePn 45 01.50 1.2
 ELL 2.08 47 iPn 45 02.60 0.6
 BCK 2.96 44 ePn 45 14.30 0.0
 IZM 3.10 349 iPn 45 15.90 -0.3
 KHL 3.20 22 ePn 45 19.80 2.1
 ALT 4.06 24 ePn 45 35.00 5.3X
 VLI 4.33 290 ePn 45 32.50 -0.9
 EDC 4.99 359 eP 45 41.00 -1.6
 BNT 5.00 359 eP 45 41.00 -1.8
 ZNT 6.62 116 eP 46 05.90 0.5
 eS 47 18.00
 HRI 6.73 106 eP 46 05.20 -1.8
 DSI 7.22 119 eP 46 13.80 0.1
 SAGI 7.59 131 eP 46 18.50 -0.3
 eS 47 41.90
 KHC 17.38 327 eP 48 29.00 1.0
 LPG 19.04 309 eP 48 47.60 -0.7
 0.8s 6.45nm 3.9mb
 MOX 19.36 327 eP 48 52.60 1.3
 CDF 20.13 317 eP 48 59.10 -0.4
 0.6s 3.00nm 3.8mb
 SMF 21.36 309 eP 49 11.10 -0.8

25d 19h

1.1s 14.40nm 4.3mb
 LBF 21.41 310 eP 49 12.80 0.4
 0.8s 5.50nm 4.0mb
 AVF 21.73 309 eP 49 15.40 -0.1
 0.6s 2.05nm 3.7mb
 SSF 21.74 310 eP 49 15.20 -0.4
 0.7s 7.05nm 4.2mb
 FLN 24.87 311 eP 49 46.80 0.7
 0.8s 5.50nm 4.1mb
 HFS 26.48 344 eP 49 59.70 -1.2
 0.4s 0.60nm 3.5mb
 NB2 27.86 342 P 50 13.60 0.1
 0.7s 0.50nm 3.2mb
 YKA 77.96 343 eP 56 21.80 1.4
 0.5s 0.30nm 3.5mb
 S.D. = 1.1 on 26 of 27 obs.

? APR 25, 1993 20h 07m 41.20±3.18s
 34.466 S ±33.0km 70.523 W ±21.2km
 DEPTH = 110.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.4 (SAN).

CHCH 0.54 349 iP 07 58.59 0.0
 IS 08 12.02
 PCH 0.84 0 iP 08 01.31 0.1
 IS 08 16.43
 TACH 0.88 337 iP 08 01.63 0.1
 IS 08 16.92
 LNV 0.90 304 iP 08 01.57 0.0
 IS 08 16.83
 FCH 1.15 10 iP 08 04.55 -0.1
 IS 08 23.21
 LCCH 1.32 318 iP 08 06.08 -0.1
 IS 08 25.23
 PEL 1.33 354 (P) 08 06.26 -0.1
 IS 08 25.82
 JACH 1.78 358 iP 08 12.09 0.1
 IS 08 35.72
 S.D. = 0.1 on 8 of 8 obs.

& APR 25, 1993 20h 18m 42.24s
 61.211 N 152.247 W
 DEPTH = 123.2km
 SOUTHERN ALASKA (2)
 <AEIC>.

CKT 0.02 117 iPc 18 58.41 0.7
 eS 19 11.82
 CKN 0.03 68 iPc 18 58.65 1.0
 CKL 0.05 252 iPc 18 58.57 0.8
 eS 19 11.59
 CP2 0.05 3 iPc 18 59.01 1.2
 CPAM 0.07 49 iPc 18 58.55 0.8
 CRP 0.07 38 iPc 18 58.52 0.7
 eS 19 12.25
 BGL 0.09 307 iPc 18 58.64 0.9
 SPU 0.10 107 iPc 18 58.45 0.8
 eS 19 12.02
 CGLM 0.15 50 eP 18 58.82 1.0
 RDT 0.64 187 eP 19 00.96 -0.9
 NKA 0.68 133 eP 19 03.35 1.4
 NCT 0.73 207 iPd 19 01.67 -0.9
 SUA 0.77 70 iPd 19 02.55 -0.3
 eS 19 18.68
 RDW 0.78 201 ePd 19 02.15 -0.9
 RS2 0.79 199 ePd 19 02.27 -0.9
 RSO 0.79 199 ePd 19 02.24 -0.9
 RS1 0.79 199 ePd 19 02.27 -0.9
 SKT 0.84 24 iPc 19 02.50 -0.9
 eS 19 18.63
 SLKM 1.22 125 ePc 19 06.86 -0.2
 INE 1.22 200 iPd 19 06.19 -1.1
 INW 1.23 201 iPd 19 06.32 -1.0
 eS 19 24.39
 PMR 1.55 74 iPd 19 08.91 -1.8
 eS 19 30.97
 MPA 1.59 116 iPc 19 10.79 -0.4
 eS 19 31.51
 BRLK 1.60 155 eP 19 10.93 -0.5
 eS 19 32.07
 PTE 1.61 101 iPc 19 10.29 -1.2
 CNPM 1.76 163 eP 19 13.11 -0.3
 eS 19 35.79
 AUE 1.94 197 eP 19 14.98 -0.6
 AUH 1.95 198 eP 19 15.31 -0.4
 SML 1.97 71 ePc 19 14.47 -1.5

MCNL 2.28 208 iPd 19 18.71 -1.2
 CDD 2.39 198 eP 19 20.07 -1.3
 TRF 2.43 21 ePd 19 20.25 -1.7
 eS 19 50.28
 SCM 2.44 73 eP 19 20.33 -1.7
 eS 19 51.08
 SYI 2.61 182 eP 19 22.76 -1.4
 RND 2.71 34 eP 19 24.70 -0.9
 VLZ 2.87 89 iPc 19 25.68 -1.8
 eS 20 00.93
 KLU 3.06 82 iPc 19 28.28 -1.9
 eS 20 05.03
 CVA 3.25 99 eP 19 31.76 -0.8
 TZL 3.36 73 eP 19 33.40 -0.7
 SDG 3.44 64 eP 19 34.93 -0.2
 PAX 3.64 58 eP 19 37.29 -0.7
 WRH 3.79 28 eP 19 39.03 -0.8
 RAGM 3.80 99 eP 19 39.06 -1.0
 MLY 3.90 9 eP 19 38.61 -2.7
 CCB 4.00 29 eP 19 40.24 -2.4
 HDA 4.02 35 ePd 19 41.44 -1.6
 GL8 4.07 83 iPc 19 42.06 -1.7
 MDM 4.18 24 eP 19 43.38 -1.8
 GLM 4.39 28 eP 19 47.50 -0.5
 CROM 4.46 92 eP 19 48.50 -0.6
 BALM 4.81 88 eP 19 51.90 -1.8
 CTGM 5.30 88 eP 19 59.40 -1.1
 52 obs. associated

APR 25, 1993 21h 59m 47.70±0.56s
 30.089 N ±8.5km 49.790 E ±8.1km
 DEPTH = 33.0km (normal)
 4.3mb (3 obs.)
 WESTERN IRAN (347)

DHR 3.78 175 eP 01 10.00 24.9X
 eS 02 08.80
 KER 4.82 333 eP 01 15.00 15.0X
 TEH 5.79 13 e(P) 01 15.00 1.3
 RYD 6.05 209 eP 01 21.30 4.0X
 eS 02 29.50
 QASM 6.81 236 iPd 01 28.00 0.0
 TAB 8.46 341 eP 02 31.00 39.9X
 DHJN 13.64 206 eP 03 02.00 0.5
 QUE 14.85 85 eP 03 21.60 4.4X
 eS 05 02.40
 MLR 24.19 316 eP 05 05.00 2.8X
 e 34 46.50
 CVO 24.23 317 eP 05 05.50 3.0X
 CMP 24.63 315 ePc 05 09.00 2.7X
 OHR 25.90 303 iP 05 19.70 1.3
 OBN 26.72 343 iPd 05 27.00 1.3
 1.0s 17.00nm 4.6mb
 e 05 53.00
 e 06 06.00
 e 06 16.00

DMN 30.96 86 P 06 03.00 -0.6
 KKN 31.07 85 P 06 05.20 -0.1
 PKI 31.23 86 P 06 06.40 -0.4
 GUN 31.56 85 P 06 10.60 0.8
 KSP 32.44 319 eP 06 16.50 -0.2
 CLL 34.51 318 eP 06 35.00 0.3
 UPP 36.78 333 iP 06 53.40 -0.4
 HFS 38.52 332 eP 07 06.00 -1.6
 0.4s 2.10nm 4.3mb
 NB2 40.05 332 P 07 19.00 -2.1
 0.8s 1.50nm 3.8mb
 S.D. = 1.1 on 14 of 22 obs.

* APR 25, 1993 22h 32m 18.34±1.22s
 35.311 N ±9.3km 27.931 E ±10.6km
 DEPTH = 61.8 ±16.2 km
 3.8mb (5 obs.)
 DODECANESE ISLANDS (369)

YER 1.84 9 iPn 32 49.00 0.8
 ELL 2.15 48 iPn 32 52.60 0.0
 BCK 3.03 44 ePn 33 04.30 -0.7
 IZM 3.13 350 iPn 33 16.40 10.1X
 KHL 3.27 23 ePn 33 09.80 1.5
 ALT 4.12 24 eP 33 33.10 12.8X
 EDC 5.03 359 ePn 33 31.00 -1.9
 ZNT 6.66 115 eP 33 55.10 -0.6
 eS 35 06.20
 DSI 7.26 119 eP 34 04.90 0.8
 SAGI 7.61 130 eP 34 08.90 0.0
 eS 35 30.90

OHR 8.06 318 iP 34 15.50 0.3
 KHC 17.38 327 eP 36 19.00 1.0
 LPG 19.02 309 eP 36 36.90 -1.3
 0.8s 6.30nm 3.9mb
 MOX 19.36 327 eP 36 42.90 1.4
 CDF 20.12 317 eP 36 50.00 0.4
 1.1s 8.05nm 4.0mb
 SMF 21.34 309 eP 37 01.40 -0.6
 LBF 21.39 310 eP 37 02.90 0.4
 SSF 21.71 310 eP 37 05.40 -0.3
 0.8s 11.55nm 4.3mb
 FLN 24.85 311 eP 37 36.50 0.3
 NB2 27.88 343 P 38 02.70 -1.3
 0.7s 0.40nm 3.2mb
 YKA 77.98 343 eP 44 11.80 0.8
 0.7s 0.30nm 3.4mb
 S.D. = 1.0 on 19 of 21 obs.

& APR 25, 1993 22h 36m 38.05s
 59.699 N 153.437 W
 DEPTH = 130.5km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUL 0.32 180 ePc 36 55.84 0.9
 eS 37 09.78
 AUH 0.34 181 eP 36 55.98 0.8
 AUE 0.34 174 iPc 36 55.84 0.8
 AUI 0.37 179 eP 36 55.98 0.8
 eS 37 09.34
 INW 0.40 22 iPc 36 55.92 -1.1
 eS 37 10.50
 INE 0.41 27 iPc 36 56.15 -1.0
 MCNL 0.69 222 iPd 36 57.69 -1.0
 eS 37 12.66
 CDD 0.78 188 iPd 36 58.36 -1.0
 eS 37 14.69
 RS1 0.84 24 iPc 36 59.13 -0.9
 eS 37 15.25
 RS2 0.84 24 iPc 36 59.21 -0.9
 eS 37 16.05
 RSO 0.84 24 iPc 36 59.18 -0.9
 eS 37 15.54
 RDW 0.85 22 iPc 36 59.19 -1.0
 NCT 0.90 16 iPc 36 59.63 -0.9
 XLV 0.91 105 ePc 36 59.82 -0.6
 RDT 1.02 30 eP 37 00.53 -1.0
 CNPM 1.13 98 iPc 37 01.27 -1.3
 eS 37 19.31
 SYI 1.22 153 ePd 37 02.34 -1.1
 BRLK 1.29 86 eP 37 03.05 -1.2
 eS 37 21.67
 NKA 1.52 45 ePc 37 07.27 0.6
 CKL 1.60 19 iPc 37 07.02 -0.8
 CKT 1.63 22 iPc 37 07.16 -0.9
 eS 37 29.87
 SPU 1.64 24 iPc 37 07.13 -1.1
 CKN 1.65 22 eP 37 07.75 -0.6
 BGL 1.65 18 ePc 37 07.86 -0.6
 CP2 1.68 20 eP 37 08.33 -0.5
 CPAM 1.69 22 ePc 37 08.08 -0.7
 CRP 1.70 21 eP 37 08.26 -0.7
 SLKM 1.80 62 ePc 37 08.71 -1.4
 MPA 2.19 67 ePc 37 13.80 -1.0
 SUA 2.21 36 ePc 37 14.49 -0.8
 SKT 2.47 21 eP 37 17.68 -0.8
 PTE 2.49 60 eP 37 17.62 -1.0
 PMR 2.85 46 (P) 37 21.48 -1.8
 SML 3.28 48 eP 37 27.52 -1.5
 HIN 3.55 76 eP 37 30.59 -2.0
 SCM 3.68 52 eP 37 33.71 -0.7
 VLZ 3.81 65 eP 37 34.71 -1.2
 CVA 3.94 74 eP 37 35.53 -2.2
 TRF 4.06 20 eP 37 38.42 -1.1
 KLU 4.12 61 eP 37 38.61 -1.7
 40 obs. associated

* APR 25, 1993 23h 02m 40.70±1.37s
 23.607 S ±11.8km 179.801 W ±8.9km
 DEPTH = 606.9 ±20.9 km
 4.9mb (12 obs.)
 SOUTH OF FIJI ISLANDS (171)

DZM 12.78 274 iPd 05 27.10 0.0
 URZ 14.84 190 eP 05 45.10 -1.8
 NOZ 15.08 187 eP 05 50.80 1.6
 PGZ 17.28 190 eP 06 09.90 -0.4

MNG 17.42 192 eP 06 09.90 -1.8
 QRZ 18.34 199 eP 06 21.20 1.0
 THZ 19.10 197 eP 06 27.30 0.0
 DSZ 19.40 199 eP 06 30.20 0.2
 KHZ 19.56 195 eP 06 30.50 -0.9
 LTZ 20.22 197 P 06 36.10 -1.5
 HNR 23.94 303 P 07 09.00 -2.2
 RMQ 28.60 258 iPd 07 52.70 1.0
 0.6s 18.00nm 4.9mb
 PPN 29.03 84 eP 07 56.90 1.4
 1.2s 42.20nm 4.9mb
 TVO 29.12 84 eP 07 57.40 1.0
 0.8s 70.10nm 5.3mb
 CAN 29.45 240 iPd 07 59.90 0.9
 BWA 29.70 242 iP 07 59.90 -1.2
 CMS 31.37 248 eP 08 16.20 1.0
 CTA 31.66 270 iPc 08 18.00 0.3
 0.7s 25.68nm 5.0mb
 TOO 32.76 237 iPc 08 28.30 1.5
 0.4s 13.00nm 4.9mb
 ASPA 42.27 260 iPd 09 44.60 0.4
 0.6s 39.60nm 5.1mb
 eScP 14 28.40
 eS 15 24.20
 WB2 42.60 266 iPd 09 46.80 0.0
 0.5s 62.30nm 5.4mb
 MTN 47.62 274 iPc 10 24.90 -0.5
 0.5s 25.00nm 5.0mb
 WARB 48.37 255 iPd 10 30.70 -0.2
 KLB 55.27 247 iPd 11 20.90 0.6
 0.6s 9.00nm 4.3mb
 MBL 55.51 260 iPd 11 22.40 0.3
 0.4s 7.00nm 4.3mb
 BAL 56.31 248 eP 11 28.00 0.5
 0.4s 12.00nm 4.5mb
 MUN 56.52 246 eP 11 30.00 1.1
 MRWA 57.16 250 iPd 11 34.20 0.9
 0.4s 6.00nm 4.2mb
 NB2 141.82 351 PKP 21 03.60 -1.7
 0.7s 1.80nm
 HFS 142.29 349 ePKP 21 04.50 -1.5
 0.3s 8.20nm
 ADI 147.89 295 ePKP 21 23.60 7.4X
 JVI 147.92 293 ePKP 21 24.10 7.8X
 MBH 148.49 289 ePKP 21 25.60 8.3X
 KSP 150.08 339 iPKP 21 28.80 9.9X
 CLL 150.63 344 iPKPd 21 29.40 9.7X
 BRG 150.76 342 iPKP 21 30.00 10.1X

S.D. = 1.2 on 30 of 36 obs.

% APR 25, 1993 23h 13m 55.85±1.20s
 44.549 N ±12.2km 8.419 E ±7.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (545)
 ML 1.5 (GEN).

PCP 0.09 95 P 13 58.50 0.0
 S 13 59.87
 FIN 0.37 204 P 14 03.40 -0.1
 S 14 08.67
 ROB 0.47 237 P 14 05.37 0.0
 IMI 0.74 211 P 14 10.63 0.2
 PZZ 0.94 268 P 14 13.93 0.0

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

APR 26, 1993 00h 14m 43.91±0.79s
 43.623 N ±7.8km 11.179 E ±4.6km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.9 (FIR).

FIR 0.17 20 eP 14 47.00 -0.7
 iSg 14 50.50
 PGD 0.47 57 P 14 53.30 -0.2
 eSg 15 00.40
 PII 0.49 282 P 14 53.60 -0.2
 eSg 15 00.40
 CRE 0.56 89 P 14 54.80 -0.6
 eSg 15 01.40
 SFI 0.57 58 P 14 54.90 -0.6
 eSg 15 03.50
 BDI 0.61 316 P 14 56.20 0.0
 eSg 15 06.70
 RSM 0.97 71 P 15 03.50 1.2
 ASS 1.21 117 P 15 06.60 0.0
 ARV 1.29 95 P 15 07.80 0.0
 CTI 2.45 8 P 15 25.60 1.0

S.D. = 0.7 on 10 of 10 obs.

? APR 26, 1993 01h 08m 40.35±1.51s
 43.629 N ±21.9km 11.194 E ±6.4km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

PII 0.50 281 P 08 50.20 -0.2
 eSg 08 56.30
 CRE 0.55 90 P 08 51.80 0.2
 eSg 08 58.00
 SFI 0.56 58 P 08 51.40 -0.3
 eSg 08 59.80
 BDI 0.61 315 P 08 53.00 0.3
 eSg 09 01.80

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

APR 26, 1993 01h 17m 49.95±0.64s
 6.149 S ±2.9km 149.867 E ±3.5km
 DEPTH = 63.7 ±5.7 km
 5.2mb (43 obs.)

NEW BRITAIN REGION, P.N.G. (192)

Mw 5.4 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 40S, 71C

Centroid Location:

Origin Time 01:17:53.8 0.4

Lat 6.20S 0.04 Lon 150.14E 0.05

Dep 18.9 2.4 Half-duration 1.3

Moment Tensor: Scale 10¹⁷ Nm

Mrr= 0.90 0.04 Mtt=-1.05 0.05

Mff= 0.15 0.05 Mrt= 1.25 0.20

Mrf= 0.14 0.08 Mtf=-0.18 0.05

Principal Axes:

T Vol= 1.51 Plg=64 Azm=356

N 0.18 1 263

P -1.68 26 172

Best Double Couple: Mo=1.6*10¹⁷

NP1: Strike=259 Dip=19 Slip= 86

NP2: 83 71 91

RAB 3.00 50 iPc+ 18 36.00 -0.1

MDG 4.16 282 eP 18 52.60 0.1

PMG 4.20 219 eP 18 53.00 -0.1

MNDI 6.17 270 eP 19 38.00 17.1X

HNR 10.51 109 eP 20 20.00 -0.3

CTA 14.29 194 iPc- 21 07.00 -3.6X

1.7s 57.69nm 4.7mb

Z 21s 8.96um 4.1msz

e 21 09.50

eS 21 17.60

eS 23 59.00

MTN 19.63 249 iPc 22 15.60 -0.7

0.4s 83.00nm 5.4mb

GUA 20.17 346 eP 22 22.50 0.6

1.0s 744.00nm 6.0mb

PJG 20.23 346 eP 22 22.80 0.3

e 23 28.50

RMQ 20.25 183 iPd 22 23.00 0.2

0.9s 296.00nm 5.6mb

WB2 20.38 226 iPd 22 23.40 -0.7

0.5s 127.60nm 5.5mb

e 22 38.10

eS 25 59.10

QLP 21.02 194 iPd 22 30.70 0.2

BRS 21.31 173 iPc+ 22 33.20 -0.3

1.0s 27.00nm 4.6mb

iP 22 41.00 28kmX

eS 26 30.00

DZM 22.52 136 iPc 22 45.90 0.3

KNA 22.78 244 eP 22 48.50 0.4

0.5s 76.00nm 5.4mb

ASPA 23.22 220 iPd 22 53.50 1.1

1.0s 33.10nm 4.7mb

Z 23s 1.90um 4.5mszX

eS 27 03.60

eScS 34 03.20

ARMA 24.20 176 iPc 23 03.00 1.1

0.7s 24.00nm 4.8mb

BWA 28.17 183 eP 23 38.60 0.1

i 23 49.90

iPcP 26 51.80

CAN 29.04 181 eP 23 43.70 -2.6X

e 23 58.50

TOO 31.53 187 iPc 24 08.90 0.6

0.5s 13.00nm 5.0mb

BFD 31.60 191 eP 27 11.00 0.2
 FORT 31.93 217 iPd 24 11.20 -0.6
 MBL 32.68 240 iPc 24 17.80 -0.7
 0.5s 31.00nm 5.4mb
 MEEK 36.07 232 iPc 24 47.50 0.0
 0.5s 45.00nm 5.7mb
 COOL 36.49 224 eP 24 50.50 -0.5
 0.4s 6.00nm 4.9mb
 NANU 36.91 240 iPc 24 54.50 -0.1
 0.8s 91.00nm 5.8mb
 KLB 39.27 226 iPc 25 13.80 -0.4
 0.4s 9.00nm 5.0mb
 MRWA 39.34 230 iPc 25 15.00 0.1
 0.6s 8.00nm 4.8mb
 MUN 40.59 226 eP 25 25.00 -0.1
 0.9s 26.00nm 5.1mb
 LEM 41.98 267 iPd 25 37.50 0.6
 WKYJ 42.36 342 P 25 40.10 0.5
 TKSJ 42.63 340 P 25 42.10 0.3
 CHJJ 43.20 347 P 25 45.40 -0.9
 MAT 43.85 346 (P) 25 51.00 -0.6
 1.2s 42.19nm 5.1mb
 Z 21s 1.08um 4.7msz
 eS 32 14.00
 YONJ 43.93 341 P 25 52.40 0.1
 MTMJ 43.99 346 P 25 52.30 -0.6
 NIJJ 44.34 348 P 25 55.20 -0.4
 YAMJ 45.03 349 eP 26 02.60 1.5
 OFUJ 45.64 351 eP 26 05.80 0.0
 SSE 46.08 325 P 26 11.00 1.5
 1.0s 13.00nm 4.8mb
 Z 20s 1.80um 5.0msz
 N 20s 1.00um
 E 20s 1.20um
 QIZ 46.70 303 eP 26 09.60 -5.0X
 NJ2 48.13 324 Pc 26 27.00 1.4
 Z 22s 0.67um 4.6msz
 sP 26 43.00
 S 33 21.00
 HOOJ 48.67 354 eP 26 30.70 1.2
 WHN 49.88 319 eP 26 40.50 1.5
 Z 20s 1.38um 5.0msz
 E 20s 1.40um
 ASAJ 50.46 353 eP 26 43.50 0.3
 YSS 53.31 354 ePd 27 04.30 -0.3
 0.9s 30.00nm 5.3mb
 e 34 44.00
 MDJ 53.73 342 eP 27 07.40 -0.3
 0.9s 26.00nm 5.3mb
 CN2 54.40 338 eP 27 17.00 4.3X
 1.2s 9.80nm 4.7mb
 Z 24s 0.85um 4.7mszX
 BJJ 55.46 329 eP 27 23.50 3.1X
 Z 24s 0.89um 4.8mszX
 XAN 55.64 319 P 27 22.60 0.7
 0.6s 13.00nm 5.1mb
 Z 20s 0.91um 4.9msz
 pP 27 32.10 31kmX
 sP 27 41.50
 ePP 29 33.00
 ScS 37 06.00
 TIY 55.85 324 eP 27 25.00 1.6
 Z 25s 2.21um 5.1mszX
 N 20s 1.38um
 E 20s 1.45um
 CHG 55.97 297 eP 27 22.00 -2.5
 CD2 57.45 313 eP 27 34.60 -0.2
 Z 23s 0.89um 4.8mszX
 HHC 58.49 327 P 27 43.00 0.9
 1.0s 11.00nm 4.9mb
 Z 20s 1.25um 5.0msz
 BTO 59.18 325 eP 27 47.00 0.1
 AFR 59.93 107 iPd 27 51.80 -0.4
 1.1s 123.10nm 5.9mb
 PPT 60.12 107 iPd 27 53.10 -0.4
 0.9s 63.90nm 5.8mb
 PAE 60.12 107 iPd 27 53.10 -0.4
 LZH 60.21 318 eP 27 50.00 -4.0X
 1.5s 22.00nm 5.1mb
 Z 22s 0.86um 4.8msz
 E 12s 0.27um
 pP 28 05.00 55kmX
 PPN 60.26 107 iPd 27 54.20 -0.2
 1.1s 84.00nm 5.8mb
 TVO 60.44 107 iPd 27 55.60 -0.2

NOZ	2.54	155	P	15	39.60	-1.1
PAHZ	2.55	173	P	15	42.00	1.1
WHH	2.56	183	eP	15	43.30	2.3
MOH	2.83	172	P	15	44.50	0.4
NGZ	2.97	196	P	15	49.50	3.6X
CNZ	3.01	197	eP	15	49.80	3.6X
TTH	3.22	178	eP	15	49.30	0.7
WAHZ	3.38	184	P	15	51.40	0.7
TEHZ	3.66	178	eP	15	53.70	-0.4
MNG	4.39	192	P	16	02.90	-0.3
			S	16	53.30	
KIW	4.74	196	P	16	07.50	-0.1
MTW	4.91	190	eP	16	08.50	-1.4
CAW	4.94	194	P	16	09.50	-0.7
MRW	5.14	197	P	16	12.00	-0.7
			eS	17	10.30	
TCW	5.23	200	eP	16	13.60	-0.3
S.D. = 1.1 on 15 of 17 obs.						
* APR 26, 1993 03h 20m 12.67±1.21s						
31.330 S ± 7.6km 68.788 W ±10.1km						
DEPTH = 110.9 ± 13.3 km						
SAN JUAN PROVINCE, ARGENTINA (137)						
RTCB	0.16	184	iPd	20	28.00	-0.7
			S	20	38.70	
RTLL	0.27	90	iPc	20	28.40	-0.6
			S	20	39.00	
CFA	0.54	121	iPc	20	30.70	0.5
			S	20	42.80	
RTCV	0.57	158	iPd	20	30.50	0.1
			S	20	42.50	
RTBS	0.66	240	e(P)	20	30.70	-0.3
			S	20	42.00	
RTRS	1.29	333	iPd	20	38.30	0.9
			S	20	50.50	
MDZ	1.55	182	iP	20	41.60	1.0
			iS	21	04.90	
MRA	2.83	113	iPc	20	57.70	0.6
			S	21	30.80	
RFA	3.44	176	ePc	21	04.40	-1.1
TCA	3.59	91	iP	21	07.80	0.3
			(S)	21	40.00	
CYA	3.88	43	ePc	21	10.50	-0.8
			S	21	54.80	
S.D. = 0.9 on 11 of 11 obs.						
& APR 26, 1993 03h 34m 08.10s						
60.712 N 151.949 W						
DEPTH = 86.4km						
3.5mb (3 obs.)						
KENAI PENINSULA, ALASKA (14)						
<AEIC>.						
RDT	0.26	239	eP	34	20.53	-0.7
NKA	0.35	85	iPc	34	22.91	1.4
DFR	0.38	252	ePd	34	21.16	-0.8
RDN	0.45	244	ePd	34	21.67	-0.7
			eS	34	32.76	
RSO	0.47	238	iPd	34	22.07	-0.6
			eS	34	33.15	
RS2	0.47	238	iPd	34	22.10	-0.6
RS1	0.47	238	iPd	34	22.15	-0.5
SPU	0.47	354	iPc	34	21.79	-0.7
RDW	0.48	242	iPd	34	22.11	-0.7
CKT	0.51	346	iPc	34	22.03	-0.8
NCT	0.51	253	iPd	34	22.10	-0.7
			eS	34	33.70	
CKL	0.52	339	iPd	34	22.29	-0.7
CKN	0.53	348	iPc	34	22.43	-0.5
CPAM	0.55	350	iPc			

PMS	1.28	64	iPc	34	30.80	-0.5
SKT	1.29	9	iPd	34	30.40	-1.0
			eS	34	48.28	
MPA	1.30	99	iPc	34	30.33	-1.1
			eS	34	47.52	
PWA	1.38	46	eP	34	31.70	-0.7
PTE	1.44	83	iPc	34	32.08	-1.2
			eS	34	50.74	
AUL	1.53	210	ePd	34	33.77	-0.7
AUE	1.53	208	ePd	34	33.53	-1.0
AUH	1.55	210	iPd	34	34.02	-0.7
AUW	1.55	210	ePd	34	34.07	-0.6
AUI	1.57	209	ePd	34	34.07	-0.9
PMR	1.63	56	ePd	34	33.84	-1.9
			S	34	54.70	
SVW	1.84	284	P	34	39.00	0.4
MCNL	1.95	219	iPd	34	38.94	-1.1
			eS	35	00.53	
CDD	1.98	206	ePd	34	39.25	-1.3
SML	2.06	56	iPc	34	39.93	-1.7
SYI	2.12	186	iPd	34	41.20	-1.1
SCM	2.50	61	iPd	34	45.79	-1.8
HUR	2.52	25	eP	34	46.49	-1.4
HIN	2.71	94	iPc	34	46.89	-3.5
			eS	35	19.00	
VLZ	2.78	79	ePc	34	48.56	-2.7
TRF	2.86	15	iPd	34	50.88	-1.7
TTA	2.94	321	ePd	34	51.81	-1.9
KDC	2.99	186	ePd	34	50.93	-3.2
KLU	3.03	72	iPc	34	52.32	-2.6
			eS	35	27.10	
CVA	3.06	90	iPc	34	51.54	-3.6
RND	3.07	27	ePd	34	53.71	-1.7
MID	3.09	112	eP	34	51.80	-3.8
MCK	3.34	24	eP	34	57.83	-1.3
TZL	3.41	64	iPc	34	58.14	-1.9
SDG	3.56	56	ePc	35	00.46	-1.7
RAGM	3.61	92	iPc	34	58.67	-4.2
PAX	3.82	51	iPc	35	04.33	-1.5
KAIM	3.83	99	ePc	35	01.62	-4.2
THY	3.98	44	eP	35	07.31	-0.7
GLB	4.02	76	ePc	35	05.52	-3.1
NEA	4.10	18	eP	35	06.75	-2.9
WRH	4.17	24	ePd	35	07.89	-2.8
CROM	4.33	86	iPc	35	09.28	-3.7
HDA	4.37	30	eP	35	11.18	-2.2
MLY	4.37	7	eP	35	10.79	-2.7
CCB	4.39	24	ePd	35	10.68	-2.9
TGL	4.48	85	iPc	35	11.13	-3.9
SNH	4.54	93	eP	35	13.70	-2.2
MDM	4.59	20	ePc	35	14.09	-2.4
FBA	4.62	23	ePd	35	13.58	-3.2
BALM	4.71	82	iPc	35	14.63	-3.6
DOT	4.73	48	eP	35	16.49	-1.9
CYK	4.74	94	eP	35	16.37	-2.1
GLM	4.77	24	ePd	35	16.09	-3.0
TMW	4.96	54	eP	35	20.02	-1.7
CTGM	5.20	83	eP	35	21.63	-3.5
IMA	5.43	353	ePd	35	24.78	-3.5
FYU	6.59	24	eP	35	41.00	-3.1
SDN	7.04	224	eP	35	46.40	-3.9
INK	10.95	38	eP	36	00.50	-3.0
	0.9s		7.00nm		4.5mb	X
YKA	17.69	68	eP	38	08.20	-1.6
	0.6s		1.00nm		3.2mb	
MBC	19.16	23	eP	38	23.50	-3.3
	0.9s		5.00nm		3.8mb	
GEC2	70.18	10	ePKP	45	09.30	-3.6
	0.8s		0.59nm		3.5mb	
			e	45	17.90	
			e	45	27.70	
84 obs. associated						
& APR 26, 1993 03h 34m 18.00s						
40.220 N 124.295 W						
DEPTH = 2.0km						
NEAR COAST OF NORTHERN CALIF. (35)						
<BRK>. ML 3.1 (BRK).						
FOX	0.38	37	iPd	34	26.29	0.7
			eS	34	31.34	
EKR	0.49	14	iPd	34	28.17	0.4
			eS	34	35.50	
FHC	0.63	22	iPc	34	30.67	0.1
			eS	34	39.76	
ARC	0.68	14	ePd	34	31.05	-0.5
			eS	34	40.44	

WDC	1.39	74	eP	34	42.12	-2.2
MIN	2.06	86	eP	34	52.34	-1.9
ORV	2.25	106	eP	34	54.89	-1.9
PCC	3.10	151	ePd	35	07.93	-0.9
8 obs. associated						
? APR 26, 1993 07h 10m 08.45±4.53s						
10.228 N ±58.7km 86.490 W ±30.0km						
DEPTH = 33.0km (normal)						
4.2mb (5 abs.)						
OFF COAST OF COSTA RICA (77)						
JSC	24.41	11	iPd	15	26.05	0.9
LHS	24.69	11	eP	15	28.31	0.5
MYNC	24.83	5	eP	15	28.97	-0.2
	0.7s		7.11nm		4.4mb	
LTX	24.89	322	eP	15	30.80	0.9
MIAR	25.06	346	ePd	15	30.98	-0.3
	0.6s		7.22nm		4.4mb	
			e	15	39.85	
MEQ	26.82	338	iPc	15	50.10	2.4
WMOK	26.86	337	eP	15	47.21	-0.9
	0.9s		15.05nm		4.6mb	
			e	15	58.05	
ELC	27.05	355	eP	15	47.51	-2.2
ACO	28.73	339	e(P)	16	05.00	0.0
SRU	35.88	327	(P)	17	07.25	-0.4
SIV	36.22	136	eP	17	31.00	-20.5X
8W06	38.17	332	(P)	17	26.00	-0.9
	0.5s		0.54nm		3.6mb	
ULM	40.65	351	eP	17	47.50	0.5
BAO	45.98	123	eP	18	36.50	5.7X
FCC	48.77	355	eP	18	53.00	1.1
YKA	55.99	345	eP	19	43.70	-2.1
	0.9s		0.90nm		3.8mb	
INK	65.59	343	eP	20	52.50	1.6
MBC	68.34	352	eP	21	07.50	-0.7
WRA	139.51	251	PKP	29	41.70	6.4X
	0.6s		0.50nm			
GBA	151.45	34	PKP	30	06.00	10.9X
S.D. = 1.3 on 16 of 20 obs.						
? APR 26, 1993 07h 31m 41.96±7.31s						
18.730 N ±31.8km 68.099 W ±51.7km						
DEPTH = 10.0km (geophysicist)						
MONA PASSAGE (89)						
MGP	1.20	127	iP	32	04.00	-0.3
LRS	1.27	110	iP	32	05.40	-0.1
			S	32	24.90	
APR	1.33	102	iP	32	07.00	0.5
PORP	1.54	116	iP	32	09.20	-0.3
			S	32	34.20	
CLLP	1.58	114	iP	32	11.00	0.9
SJG	1.95	108	iP	32	15.50	0.0
LPR	2.16	101	i(P)	32	17.70	-0.8
S.D. = 0.7 on 7 of 7 obs.						
% APR 26, 1993 08h 05m 57.37±0.85s						
39.906 N ±7.6km 28.953 E ±6.0km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 2.8 (ISK).						
DST	0.39	220	iPg	06	05.40	0.0
			iSg	06	09.40	
KCT	0.57	307	iPg	06	08.60	-0.4
			eSg	06	17.10	
YLV	0.73	26	iPg	06	11.80	0.0
BNT	0.91	300	ePg	06	15.50	0.7
EDC	0.94	298	ePg	06	15.00	-0.4
HRT	1.07	31	iPn	06	17.60	0.1
EYL	1.13	54	ePn	06	18.60	-0.1
S.D. = 0.4 on 7 of 7 obs.						
? APR 26, 1993 08h 30m 05.35±1.02s						
26.144 S ±8.1km 28.069 E ±11.9km						
DEPTH = 5.0km (geophysicist)						
REPUBLIC OF SOUTH AFRICA (584)						
SLR	0.45	25	eP	30	14.30	-0.1
			S	30	21.50	
PRY	0.95	214	eP	30	23.50	-0.5
			S	30	34.50	
KSR	1.09	284	e(P)	30	26.60	0.2
			S	30	43.20	
SEK	2.21	190	eP	30	43.70	0.4

S.D. = 0.6				S on 31 10.00		
				4 of 4 obs.		
<hr/>						
& APR 26, 1993 08h 46m 57.62s						
59.915 N				148.647 W		
DEPTH = 12.1km						
KENAI PENINSULA, ALASKA (14)						
<AEIC>. ML 3.5 (AEIC), 3.6 (PMR).						
<hr/>						
MPA	0.68	329	iP	47	10.14	-0.7
			eS	47	19.51	
PTE	0.97	349	iP	47	15.20	-0.6
			eS	47	28.33	
SLKM	0.99	308	iP	47	15.31	-0.8
			eS	47	28.85	
BRLK	1.14	263	eP	47	17.69	-1.1
HIN	1.18	65	iP	47	17.47	-1.9
			eS	47	34.53	
CNPM	1.37	255	eP	47	20.17	-2.3
PMS	1.41	342	P	47	21.80	-1.3
NKA	1.53	304	eP	47	25.52	0.8
CVA	1.58	65	iP	47	22.76	-2.6
VLZ	1.67	42	eP	47	25.03	-1.7
			eS	47	46.62	
PMR	1.70	352	ePd	47	25.30	-1.9
			S	47	49.92	
PWA	1.84	341	eP	47	28.10	-1.2
SUA	1.87	327	eP	47	28.19	-1.5
SML	1.91	4	eP	47	28.99	-1.2
SCM	2.03	18	eP	47	31.02	-1.1
RAGM	2.04	75	eP	47	29.31	-2.9
KLU	2.07	39	iP	47	31.06	-1.7
			eS	47	56.01	
SPU	2.11	309	iP	47	31.78	-1.4
RSO	2.12	287	eP	47	31.10	-2.4
DFR	2.13	290	eP	47	31.16	-2.3
RS1	2.13	287	eP	47	31.18	-2.4
RS2	2.13	287	eP	47	31.14	-2.4
KAIM	2.13	88	eP	47	30.66	-2.8
RDN	2.14	288	eP	47	34.93	1.2
RDW	2.16	287	eP	47	32.40	-1.6
CKT	2.18	308	eP	47	33.27	-1.0
CKN	2.18	308	eP	47	33.94	-0.3
CPAM	2.19	309	eP	47	33.74	-0.6
CRP	2.20	310	eP	47	33.63	-1.0
INE	2.22	276	eP	47	34.96	0.0
CKL	2.23	307	eP	47	33.91	-1.1
NCT	2.23	289	eP	47	32.49	-2.5
INW	2.26	276	eP	47	35.22	-0.2
BGL	2.29	308	eP	47	34.95	-0.9
SYI	2.33	237	eP	47	35.15	-1.1
OPT	2.33	266	eP	47	36.43	0.0
AUL	2.49	260	eP	47	39.97	1.4
AUI	2.50	259	eP	47	40.25	1.6
AUH	2.50	259	eP	47	38.40	-0.3
SKT	2.50	327	eP	47	37.60	-1.2
			eS	48	08.78	
AUW	2.51	260	eP	47	39.17	0.3
TZL	2.65	35	eP	47	40.18	-0.7
CDD	2.74	251	eP	47	40.33	-1.8
GLB	2.83	55	iP	47	41.02	-2.5
CROM	2.87	70	eP	47	40.95	-3.2
KDC	2.95	224 (P)	eP	47	40.39	-4.7
			S	48	27.11	
MCNL	2.99	258	eP	47	45.12	-0.5
TGL	3.01	71	iP	47	43.15	-2.9
SDG	3.02	28	eP	47	45.37	-0.7
HUR	3.11	352	P	47	48.40	1.0
BALM	3.32	67	eP	47	47.33	-3.1
PAX	3.43	25	iP	47	51.09	-0.8
RND	3.51	358	eP	47	52.78	-0.3
TRF	3.63	348	eP	47	54.47	-0.5
SVW	3.65	292	eP	47	55.90	0.8
CTGM	3.77	71	eP	47	53.99	-3.0
MCK	3.83	358	eP	47	57.34	-0.4
DOT	4.33	28	eP	48	03.24	-1.5
HDA	4.58	9	eP	48	06.94	-1.3
WRH	4.58	3	eP	48	06.70	-1.5
TTA	4.65	314	eP	48	07.20	-2.2
NEA	4.68	358	eP	48	08.33	-1.4
CCB	4.77	4	eP	48	08.95	-1.9
FBA	5.02	4	eP	48	11.75	-2.7
GLM	5.13	6	eP	48	13.83	-2.2
MLY	5.23	350	eP	48	15.65	-1.8
IMA	6.59	342	eP	48	33.28	-3.4
YKA	16.49	66	eP	50	54.50	4.6

26d 08h

1.1s 1.20nm 2.9mb
MBC 19.29 21 eP 51 22.50 -2.0
69 obs. associated

? APR 26, 1993 09h 05m 55.18±6.01s
39.233 N ±46.8km 29.564 E ±20.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

DST 0.81 297 ePg 06 10.40 -0.6
eSg 06 23.30
YLV 1.34 354 ePn 06 19.50 -0.4
KCT 1.38 318 ePn 06 21.50 1.1
EYL 1.41 19 ePn 06 21.00 0.1
HRT 1.59 3 ePn 06 23.50 0.1
S.D. = 0.9 on 5 of 5 obs.

% APR 26, 1993 09h 20m 55.79±0.46s
42.695 N ±3.9km 19.157 E ±3.9km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
ML 1.3 (TTG).

NKY 0.17 315 iPg 20 59.83 0.2
iSg 21 02.83
TTG 0.28 164 iPg 21 01.48 -0.1
iSg 21 05.74
BDV 0.48 211 iPg 21 05.43 -0.1
iSg 21 12.48
BRY 0.50 295 ePg 21 05.59 -0.3
iSg 21 13.93
HCY 0.55 243 iPg 21 07.05 0.2
iSg 21 15.47
IVA 0.57 72 iPg 21 07.54 0.1
iSg 21 15.99
PVY 0.61 99 iPg 21 08.19 0.0
iSg 21 17.62
PLE 0.66 15 iPg 21 08.93 0.0
iSg 21 19.38
ULC 0.73 175 iPg 21 10.30 0.1
iSg 21 21.52
S.D. = 0.2 on 9 of 9 obs.

? APR 26, 1993 09h 27m 07.61±3.58s
7.451 S ±23.1km 128.152 E ±22.6km
DEPTH = 165.8 ±46.0 km
4.8mb (4 obs.)

BANDA SEA (280)

MTN 6.11 152 eP 28 37.70 0.9
0.3s 130.00nm 5.7mb X
eS 29 45.00
KNA 8.27 176 iPg 29 04.70 -0.9
0.3s 19.00nm 5.2mb
iS 30 31.00
WB2 13.80 155 eP 30 15.70 -1.8
eS 32 40.30
MBL 15.82 210 eP 30 43.00 0.3
0.4s 2.00nm 3.8mb
eS 33 28.00
ASPA 17.04 162 iPg 30 59.20 1.6
eS 33 51.70
GUN 53.89 313 P 36 16.40 -0.1
0.6s 11.00nm 4.8mb
PKI 54.04 312 P 36 17.60 0.0
KKN 54.26 312 P 36 19.30 0.2
DMN 54.29 312 P 36 19.20 -0.1
GKN 54.85 312 P 36 23.20 -0.1
0.5s 9.00nm 4.8mb
CNCB 151.09 147 PKP 46 48.00 10.1X
LPB 151.25 146 ePKP 46 53.00 15.1X
ZOBO 151.45 146 PKP 46 48.00 9.6X
S.D. = 1.1 on 10 of 13 obs.

APR 26, 1993 09h 37m 25.25±0.86s
41.350 N ±9.4km 20.243 E ±6.5km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)
ML 2.6 (SKO), 2.6 (TTG).

OHR 0.48 119 iPg 37 34.90 -0.2
iSg 37 42.10
Lg 37 44.20
ULC 0.96 310 iPg 37 42.54 -1.1
iSg 37 58.99
SKO 1.09 55 iPg 37 45.80 0.0

0.4s 45.00nm
PVY 1.26 351 iPg 37 58.50
Lg 38 01.20
TTG 1.30 326 iPg 37 47.94 -0.8
iSg 38 08.74
BDV 1.41 312 iPg 37 49.04 -0.3
iSg 38 10.17
IVA 1.54 351 iPg 37 51.04 0.1
iSg 38 13.68
HCY 1.70 311 iPg 37 53.30 0.4
iSg 38 17.35
NKY 1.73 328 iPg 37 55.85 0.7
iSg 38 21.43
VAY 1.75 90 iPg 37 56.15 0.5
ePn 37 51.30 -4.6X
BRY 2.00 321 iPg 37 59.80 0.2
iSg 38 22.39
PLE 2.08 343 iPg 37 51.30 -4.6X
iSg 38 28.73
S.D. = 0.6 on 11 of 12 obs.

% APR 26, 1993 10h 54m 52.86±0.77s
26.407 S ±6.1km 27.429 E ±8.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY 0.52 176 eP 55 02.00 -1.3
S 55 08.50
KSR 0.72 318 eP 55 07.00 -0.3
S 55 14.00
SLR 1.02 49 iPg 55 12.70 0.0
S 55 23.90
SEK 1.92 175 eP 55 27.50 0.9
S 55 51.20
BFT 2.46 74 eP 55 34.50 0.0
BLF 2.91 202 eP 55 41.50 0.7
S 56 19.00
S.D. = 1.0 on 6 of 6 obs.

? APR 26, 1993 11h 02m 58.80±7.51s
34.460 S ±52.7km 70.839 W ±15.4km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.5 (SAN).

CHCH 0.55 16 iP 03 09.62 -0.3
iS 03 26.67
LNV 0.69 317 iP 03 11.83 -0.6
iS 03 29.98
TACH 0.81 354 iP 03 14.57 0.1
iS 03 34.94
PCH 0.88 18 iP 03 15.11 -0.7
iS 03 35.72
LCCH 1.15 328 iP 03 20.08 -0.3
iS 03 44.27
FCH 1.22 22 iP 03 21.03 -0.7
iS 03 45.44
PEL 1.32 6 (P) 03 25.00 1.8
iS 03 49.80
JACH 1.79 7 iP 03 30.54 0.6
S.D. = 1.0 on 8 of 8 obs.

APR 26, 1993 11h 36m 06.35±0.50s
46.571 N ±10.2km 153.398 E ±6.8km
DEPTH = 33.0km (normal)
4.8mb (26 obs.)

KURIL ISLANDS (221)

KUR 4.09 253 iPg 37 09.00 1.0
eS 38 00.50
KUSJ 7.08 244 eP 37 15.60 -34.7X
YSS 7.35 277 ePn 37 54.70 0.7
Z 15s 1.10um
E 14s 0.70um
e 39 20.00
ASAJ 7.97 256 eP 37 33.00 -29.6X
HOOG 8.35 244 eP 37 36.30 -31.7X
MAT 15.13 234 (P) 39 13.00 -26.2X
MDJ 16.77 272 eP 40 00.50 0.4
1.0s 18.00nm 4.2mb
CN2 19.85 272 eP 40 35.80 -1.4
1.0s 12.00nm 4.2mb
Z 16s 0.65um 4.7Msz
YAK 20.56 327 eP 40 44.00 -0.4
BOD 26.16 310 eP 41 37.00 -2.1

1.0s 6.00nm 4.2mb
BJI 27.67 270 eP 41 55.00 2.0
Z 16s 0.58um 4.3MszX
HHC 30.50 275 Pd 42 19.00 0.5
1.0s 40.00nm 5.2mb
Z 16s 0.59um 4.3MszX
TIY 31.34 269 eP 42 26.50 0.6
Z 17s 0.48um 4.2MszX
BTO 31.67 275 eP 42 30.00 1.2
ZAK 32.93 295 eP 42 38.00 -1.5
1.0s 10.00nm 4.7mb
Z 14s 0.78um 4.6MszX
E 15s 0.77um
XAN 35.70 266 P 43 02.60 -1.0
pP 43 08.00 18kmX
sP 43 12.00
FBA 36.18 38 eP 43 09.38 2.1
0.9s 3.71nm 4.3mb
LZH 38.09 272 Pc 43 24.00 0.2
1.2s 68.00nm 5.4mb
GTA 39.19 279 P 43 33.50 0.5
1.2s 19.00nm 4.7mb
pP 43 41.50 27kmX
CD2 41.06 266 P 43 49.00 0.7
INK 41.70 32 eP 44 02.50 9.5X
GYA 41.87 258 P 43 54.80 -0.3
1.0s 27.00nm 4.9mb
MBC 44.70 20 eP 44 18.50 1.2
CHG 52.27 257 ePg 45 17.20 0.5
1.0s 25.50nm 5.1mb
FCC 61.30 33 eP 46 22.50 2.1
KAF 63.69 335 eP 46 34.20 -2.0
0.8s 5.60nm 4.7mb
NUR 65.45 335 eP 46 46.60 -1.1
0.4s 3.10nm 4.8mb
SRU 66.55 57 (P) 46 56.20 0.9
RSSD 66.79 50 eP 46 55.42 -1.4
0.9s 3.77nm 4.5mb
UPP 67.95 338 iP 47 02.50 -1.0
WB2 68.41 199 eP 47 04.20 -2.6
0.7s 2.80nm 4.5mb
NB2 68.46 341 P 47 05.90 -0.9
0.7s 6.10nm 4.8mb
HFS 68.69 340 eP 47 07.10 -1.0
0.4s 4.50nm 4.9mb
Z 16s 0.09um 4.1MszX
LR 19 19.00
POO 69.67 276 eP 47 17.60 2.8X
GBA 70.62 269 P 47 21.00 0.5
KIV 71.06 314 eP 47 23.30 0.3
1.2s 12.00nm 4.8mb
Z 15s 0.30um 4.7MszX
eS 56 38.10
ASPA 72.10 199 iPd 47 28.90 -0.3
0.6s 7.40nm 4.9mb
SPC 76.31 330 eP 47 54.20 0.7
VRI 76.70 325 ePg 47 56.50 1.0
CLL 76.71 336 eP 47 55.00 -0.4
0.9s 9.00nm 4.8mb
i 48 08.60
MLR 77.32 325 ePd 48 00.00 0.9
LTX 77.41 61 (P) 47 59.98 0.1
ZST 78.21 332 eP 48 03.70 -0.1
GEC2 78.70 334 ePd 48 06.80 0.2
0.6s 1.35nm 4.1mb
e 48 09.70
e 48 17.40
e 48 22.80
KBA 80.39 334 iPg 48 16.50 0.7
0.8s 9.80nm 4.9mb
i 48 25.20
WTTA 80.74 335 iPg 48 15.30 -2.4
1.0s 15.50nm 5.0mb
i 48 19.00
CDF 80.90 338 eP 48 18.70 0.3
LOR 82.81 340 eP 48 28.50 0.2
AVF 83.38 340 eP 48 31.00 -0.2
0.9s 9.50nm 4.9mb
SMF 83.40 339 eP 48 32.10 0.8
1.2s 29.75nm 5.3mb
MYNC 83.67 44 eP 48 32.90 0.0
LPL 83.71 337 eP 48 32.90 -0.3
LPG 83.73 337 eP 48 33.60 0.2
0.8s 7.00nm 4.9mb
MAF 84.10 340 eP 48 35.10 0.2
1.1s 17.10nm 5.1mb
CCH 136.31 62 ePd if 52 31.00 -0.6

S.D. = 1.1 on 49 of 55 obs.
 % APR 26, 1993 11h 48m 40.62±0.76s
 60.588 N ± 5.7km 5.246 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 1.6 (BER).

ASK 0.11 194 iPc 48 43.48 0.1
 IS 48 45.39
 EGD 0.32 182 eP 48 47.26 0.1
 ISg 48 51.96
 SUE 0.53 333 iPc 48 51.15 -0.1
 IS 48 58.74
 HYA 0.74 38 iPc 48 55.47 0.4
 eS 49 06.39
 NRA0 3.10 85 Pn 49 30.15 -0.3
 Sg 50 15.56

S.D. = 0.4 on 5 of 5 obs.
 % APR 26, 1993 12h 03m 09.09±2.67s
 39.193 N ±12.4km 27.663 E ±22.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

DST 0.85 61 ePn 03 25.20 -0.4
 EDC 1.16 8 ePn 03 31.00 0.2
 BNT 1.18 10 ePn 03 30.40 -0.7
 KCT 1.18 27 iPn 03 31.90 0.7
 KHL 1.69 120 ePn 03 39.00 0.1
 YLV 1.90 43 ePn 03 42.00 0.1

S.D. = 0.6 on 6 of 6 obs.
 % APR 26, 1993 12h 49m 28.78±1.99s
 17.109 N ±13.2km 100.272 W ±17.2km
 DEPTH = 33.0km (normol)
 GUERRERO, MEXICO (59)

ACX 0.46 121 iP 49 39.00 0.1
 IS 49 45.00
 III 1.47 31 iP 49 54.50 1.0
 IS 50 15.00
 PPM 2.50 39 eP 50 07.75 -0.7
 (S) 50 41.50
 IIA 2.54 37 (P) 50 08.50 -0.1
 MRX 2.73 341 eP 50 11.00 -0.1
 IISM 3.33 55 eP 50 23.00 3.2X
 OXX 3.39 90 eP 50 20.75 -0.2

S.D. = 0.7 on 6 of 7 obs.
 & APR 26, 1993 13h 38m 05.97s
 65.444 N 152.770 W
 DEPTH = 9.6km
 NORTHERN ALASKA (676)
 <AEIC>. ML 2.6 (AEIC), 3.0 (PMR).

IMA 0.73 330 ePc 38 19.55 -0.9
 S 38 29.64
 MLY 0.95 115 iP 38 23.97 -0.2
 eS 38 37.46
 NEA 1.79 117 eP 38 37.50 0.3
 MDM 1.98 102 eP 38 39.78 -0.1
 eS 39 07.00
 FBA 2.17 102 ePn 38 43.25 0.6
 WRH 2.22 114 eP 38 43.53 0.2
 CCB 2.25 109 eP 38 42.23 -1.6
 TRF 2.27 151 eP 38 43.00 -1.3
 eS 39 15.07
 GLM 2.31 99 eP 38 44.06 -0.7
 MCK 2.39 134 eP 38 45.67 -0.1
 RND 2.66 139 eP 38 52.18 2.4
 HDA 2.69 110 eP 38 50.98 0.9
 TTA 2.90 211 eP 38 48.01 -5.1
 FYU 3.28 67 eP 39 00.02 1.6
 SKT 3.52 170 eP 38 58.79 -3.1
 PMR 4.20 155 (P) 39 09.91 -1.5
 PMS 4.46 160 eP 39 12.00 -3.2
 SVW 4.54 198 eP 39 12.90 -3.4

18 obs. associated
 ? APR 26, 1993 13h 56m 14.33±3.61s
 41.106 N ±54.9km 28.472 E ±32.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

CTT 0.05 322 iPg 56 15.60 -0.9
 ISK 0.45 95 iPg 56 22.90 -0.5
 eSg 56 29.40
 DMK 0.89 323 iPg 56 31.50 0.0
 eSg 56 43.50
 HRT 0.95 107 ePn 56 32.80 0.4

S.D. = 1.0 on 4 of 4 obs.
 * APR 26, 1993 14h 12m 05.88±0.69s
 8.186 S ±11.5km 107.265 E ±14.3km
 DEPTH = 33.0km (normol)
 4.8mb (4 obs.)
 JAWA, INDONESIA (277)

LEM 1.40 15 iPc 12 30.00 0.6
 IS 12 44.40
 KGM 10.87 339 eP 14 43.50 1.2
 IPM 14.13 334 eP 15 25.20 -0.7
 MBL 17.71 138 eP 16 23.50 11.8X
 0.4s 3.00nm
 eS 19 25.00
 MRWA 22.48 160 eP 17 08.00 4.2X
 0.4s 1.00nm 3.6mb X
 eS 21 08.00
 MTN 23.91 103 eP 17 16.00 -1.8
 0.4s 38.00nm 5.3mb
 ASPA 29.80 124 eP 18 11.10 -1.1
 0.8s 3.80nm 4.2mb
 GBA 36.68 306 P 19 10.00 -1.8
 STK 39.66 131 iPc 19 37.10 0.5
 0.8s 13.60nm 4.8mb
 GUN 41.42 331 P 19 00.00 -51.5X
 TOO 45.27 136 eP 20 24.00 1.7
 1.0s 17.00nm 4.9mb
 BRS 47.03 120 eP 20 37.00 0.6
 BUL 76.62 251 iPc 23 56.50 0.8
 YKA 117.88 21 ePKP 30 45.90 -4.4X
 0.6s 0.70nm
 BAO 145.93 226 ePKP 31 44.10 -0.1
 SIV 153.35 206 PKP 32 08.40 13.1X
 i 32 30.00
 i 32 50.60

S.D. = 1.3 on 11 of 16 obs.
 & APR 26, 1993 14h 53m 06.31s
 61.359 N 150.753 W
 DEPTH = 51.1km
 2.8mb (1 obs.)
 SDUTHERN ALASKA (2)
 <AEIC>. ML 3.4 (AEIC), 3.1 (PMR).

SUA 0.11 3 iPd 53 14.69 1.8
 eS 53 22.19
 PWA 0.51 55 iPc 53 17.50 -0.3
 PMS 0.59 101 iPc 53 18.50 -0.3
 CGLM 0.61 266 ePd 53 18.53 -0.6
 eS 53 28.89
 SPU 0.65 255 iPd 53 18.98 -0.7
 eS 53 29.61
 NKA 0.66 201 iPd 53 20.94 1.3
 CPAM 0.68 262 iPd 53 19.53 -0.5
 eS 53 30.48
 CRP 0.68 263 iPd 53 19.59 -0.6
 eS 53 30.46
 CKN 0.70 260 iPd 53 19.80 -0.5
 CKT 0.72 258 iPd 53 19.75 -0.8
 CP2 0.72 263 iPd 53 20.10 -0.7
 SKT 0.73 330 iPd 53 19.85 -0.7
 eS 53 30.93
 CKL 0.78 259 iPd 53 20.60 -0.8
 BGL 0.80 264 iPd 53 20.84 -0.8
 PMR 0.81 73 ePd 53 20.56 -1.1
 S 53 32.49
 SLKM 0.89 163 iPc 53 21.88 -0.9
 eS 53 34.59
 PTE 0.98 120 iPc 53 23.32 -0.6
 eS 53 36.43
 MPA 1.11 141 eP 53 25.18 -0.5
 RDT 1.13 226 eP 53 25.23 -0.9
 DFR 1.22 232 iPd 53 26.58 -0.8
 SML 1.24 68 iPd 53 26.73 -0.9
 RDN 1.30 230 eP 53 27.70 -0.8
 RS2 1.33 228 iPd 53 28.36 -0.7
 RSO 1.33 228 iPd 53 28.29 -0.7
 NCT 1.33 234 iPd 53 28.25 -0.7
 RS1 1.33 228 iPd 53 28.34 -0.7

eS 53 45.05
 RDW 1.34 230 iPd 53 28.35 -0.7
 BRK 1.60 182 eP 53 31.59 -1.1
 SCM 1.71 72 ePd 53 32.91 -1.3
 eS 53 53.64
 HUR 1.71 17 eP 53 33.85 -0.3
 eS 53 55.92
 INE 1.73 222 ePd 53 33.91 -0.7
 eS 53 56.02
 INW 1.75 223 eP 53 34.21 -0.6
 CNPM 1.85 188 ePd 53 35.08 -1.2
 eS 53 58.84
 OPT 2.11 217 iPd 53 39.91 0.1
 TRF 2.11 6 ePc 53 39.45 -0.6
 VLZ 2.15 94 iPd 53 38.24 -2.1
 eS 54 04.03
 RND 2.24 22 eP 53 40.70 -1.0
 HIN 2.29 113 ePd 53 39.44 -3.0
 KLU 2.33 85 iPd 53 40.81 -2.2
 eS 54 08.68
 SVW 2.37 266 eP 53 41.70 -1.8
 AUL 2.39 215 eP 53 43.86 0.1
 AUE 2.39 214 eP 53 43.48 -0.3
 AUH 2.41 215 eP 53 44.26 0.2
 AUW 2.41 215 eP 53 43.93 -0.1
 AUI 2.43 214 eP 53 44.64 0.4
 MCK 2.53 19 eP 53 47.16 1.4
 CVA 2.57 106 eP 53 43.09 -3.2
 SDG 2.73 62 eP 53 47.36 -1.2
 MCNL 2.82 221 ePd 53 48.79 -1.1
 CDD 2.83 212 ePd 53 49.33 -0.8
 SYI 2.88 197 eP 53 49.51 -1.2
 TTA 2.93 305 ePc 53 49.31 -2.3
 PAX 2.96 55 eP 53 51.44 -0.6
 RAGM 3.13 105 iPc 53 50.67 -3.7
 GLB 3.34 86 eP 53 54.42 -2.9
 HDA 3.52 28 eP 53 59.28 -0.5
 CCB 3.56 21 eP 54 00.01 -0.4
 MLY 3.69 0 eP 54 00.73 -1.5
 KDC 3.73 194 (P) 53 58.58 -4.2
 CROM 3.75 96 eP 54 00.96 -2.3
 FBA 3.80 19 eP 54 00.00 -3.8
 TGL 3.90 95 eP 54 04.39 -0.9
 BALM 4.08 91 ePd 54 04.29 -3.6
 CTGM 4.58 91 eP 54 12.15 -2.7
 IMA 4.90 346 eP 54 15.67 -3.8
 YKA 16.91 70 eP 56 58.90 -1.7
 0.7s 0.50nm 2.8mb
 66 obs. associated

APR 26, 1993 14h 57m 21.93±0.29s
 36.139 N ±5.2km 70.212 E ±4.2km
 DEPTH = 141.3km (8 depth phases)
 4.9mb (49 obs.)
 HINDU KUSH REGION, AFGHANISTAN (718)
 Felt at Peshawar, Pakistan.

KSH 5.64 52 iPc 58 47.40 2.6
 0.5s 170.00nm 5.5mb
 S 59 51.60
 FRU 7.50 26 iPnd 59 10.00 0.1
 IS 00 30.20
 PRZ 8.96 43 iPnd 59 29.50 -0.1
 eS 01 09.00
 NDI 9.50 140 iPd 59 37.40 0.8
 0.5s 197.18nm 6.0mb X
 eS 01 14.50
 ASH 9.65 284 iPd 59 35.00 -3.6X
 1.0s 430.00nm 6.1mb X
 IS 01 21.00
 VAN 9.85 284 iPc 59 36.50 -4.7X
 1.5s 180.00nm 5.5mb
 KAT 11.47 290 iP+ 59 58.00 -4.4X
 IS 01 57.00
 GKN 14.66 120 P 00 41.80 -2.0
 DMN 15.23 120 P 00 49.00 -2.0
 KKN 15.25 119 P 00 48.60 -2.5
 WMQ 15.42 55 P 00 52.00 -1.1
 S 03 40.00
 PKI 15.47 119 P 00 52.00 -2.0
 GUN 15.60 117 P 00 53.20 -2.5
 BOM 17.33 172 eP 01 18.90 2.3
 eS 04 34.90
 POO 17.83 169 eP 01 26.60 4.0X
 IS 04 42.80
 LSA 18.70 104 iPc 01 34.30 1.9
 0.9s 83.00nm 5.1mb

26d 15h

	S	04 50.50	BRG	42.35 309 eP	05 04.80 1.6	CNB	20.47 5 eP	28 29.80 1.5
GRS	19.15 287 eP	01 36.00 -0.8	SSE	42.35 82 Pd	05 36.50 141km	BWA	0.9s 18.00nm	4.4mb
	1.5s 90.00nm	4.9mb		1.0s 53.00nm	05 04.50 1.0		21.32 3 iPc	28 36.50 -0.4
KRV	19.23 291 iP	01 33.00 -4.5X	GEC2	42.62 306 ePd	05 07.30 1.7	ADE	i	28 40.30
	0.8s 20.00nm	4.5mb		0.8s 1.43nm	05 12.70 18kmX	STK	iP	28 46.10 36km
HYB	20.06 156 iPd	01 47.50 1.3	KHC	e	05 20.10		iPd	28 39.30 0.1
	0.6s 220.00nm	5.7mb		e	05 20.10		eP	29 05.70 1.1
GRO	eS	05 20.00		e	05 26.00 88kmX	CMS	6.00nm	4.3mb
	1.0s 298 iPc+	01 47.00 0.2	NB2	e	05 41.00	ARMA	24.25 357 eP	29 06.70 1.1
Z	14s 160.00nm	5.4mb		05 17.40 -1.4	RMO	25.50 9 eP	29 18.40 0.7	
ELT	iS	05 28.00	YAK	44.29 323 P	05 17.40 -1.4		29.23 3 iPc	29 51.40 -0.2
	20.48 28 iPc	01 49.50 -0.5		0.8s 12.60nm	05 20.80 -0.7	ASPA	33.47 338 iPc	30 27.90 -0.9
	1.0s 444.00nm	5.8mb		44.64 35 iPc	05 20.80 -0.7		0.8s 8.70nm	4.7mb
SVE	eS	05 27.00		0.9s 169.00nm	05 54.00 148km	CTA	35.59 359 eP	30 46.00 -1.0
	21.66 346 ePc	02 02.00 0.2	MDJ	iP	05 54.00 148km	WRA	36.99 340 P	30 58.70 -0.1
	1.9s 60.00nm	4.7mb	TIK	e	07 07.00		0.6s 8.70nm	4.8mb
ARU	eS	06 00.00		eS	11 45.00	MBL	40.06 318 eP	31 34.00 9.6X
	21.74 342 ePc	02 03.00 0.5		05 26.30 0.6			0.5s 3.00nm	4.3mb
	1.1s 100.00nm	5.1mb		05 34.50 -0.3	NVL	49.85 198 eP	32 43.00 1.0	
	e	02 27.00 118kmX		06 07.00 144km	INK	136.61 32 ePKP	43 15.00 5.5X	
PYA	iS	06 01.00	BSF	i	07 25.00	YKA	140.20 46 ePKP	43 15.80 -0.4
	e	06 37.00		12 10.00			0.6s 0.30nm	
KIV	e	02 07.50 0.8	LPG	iS	05 43.70 0.7	MBC	144.00 24 ePKP	43 21.00 -1.5
	22.40 299 iPc	02 11.80 2.6		0.7s 6.15nm	05 48.40 1.5	FCC	147.77 59 ePKP	43 40.00 10.8X
Z	1.2s 30.00nm	4.6mb	LPL	0.5s 3.05nm	05 48.40 1.5	KAF	149.75 307 ePKP	43 38.30 6.1X
	14s 0.10um	3.4MszX	SMF	47.81 302 eP	05 48.20 1.3	GEC2	0.5s 1.20nm	
GBA	i	02 37.90 128kmX	AVF	49.53 304 eP	05 58.80 -1.1		151.13 276 ePKP	43 41.60 6.7X
GTA	iPc	02 22.00 3.4X		49.82 304 eP	06 01.10 -1.0		0.8s 2.46nm	
	1.0s 220.00nm	5.6mb	YSS	0.5s 2.75nm	06 29.80 0.2	KHC	e	43 46.80
KOD	sP	03 05.00	MAT	53.51 54 eP	06 29.80 0.2		e	43 49.00
MOY	eP	02 51.00 1.7	DAG	0.7s 20.00nm	06 29.80 -2.0		e	43 54.60
LZH	ePc	02 52.00 1.6		53.68 68 (P)	06 29.80 -2.0		ePKP	43 46.50 11.4X
	27.10 80 iPc	02 54.50 1.1	MGD	0.8s 10.45nm	06 38.50 -1.1		S.D. = 0.9 on 16 of 22 obs.	
	1.0s 74.00nm	5.3mb	ILT	54.92 344 eP	06 38.50 -1.1		% APR 26, 1993 16h 18m 18.84 ± 0.79s	
	pP	03 28.50 165kmX		0.9s 15.13nm	06 39.00 -0.9		44.604 N ± 5.6km	
ZAK	PP	03 48.00		54.94 37 eP	06 39.00 -0.9		7.213 E ± 11.0km	
	27.71 49 iPc	02 59.00 0.5	MBC	64.32 23 iPc	07 43.70 -0.2		DEPTH = 10.0km (geophysicist)	
	1.0s 23.00nm	4.8mb		1.0s 18.00nm	08 19.00 147km		NORTHERN ITALY	(545)
CD2	e	03 32.00 159kmX		i	08 05.10 -0.3		ML 1.5 (GEN).	
IRK	e	08 58.00	BRW	67.73 2 ePd	08 05.10 -0.3	PZZ	0.13 219 P	18 22.29 0.2
OBN	eP	03 05.00 0.3	IMA	0.6s 6.00nm	08 05.10 -0.3	BHB	S	18 24.12
KMI	ePc	03 09.20 -0.4		67.81 15 eP	08 05.50 -0.5		8 P	18 24.13 0.1
	1.2s 30.00nm	4.9mb		72.66 17 eP	08 34.38 -1.1	STV	S	18 27.29
CHG	29.78 320 iPd	03 16.70 -0.2	KIC	0.7s 1.98nm	08 34.38 -1.1		167 P	18 26.47 0.0
BTO	29.94 102 Pc	03 20.00 1.1	TIC	epP	09 09.56 143km	ENR	S	18 31.53
BDT	0.5s 20.00nm	5.1mb	INK	08 43.00 -1.7			158 P	18 26.97 -0.2
GYA	30.62 117 eP	03 24.60 -0.1		74.13 266 P	08 43.00 -1.7	RRL	S	18 32.69
	31.34 70 eP	03 31.00 0.1	LIC	0.6s 20.00nm	08 43.28 -1.8		316 P	18 27.66 -0.2
	31.69 119 eP	03 30.00 -4.0X	TTA	74.19 267 P	08 43.28 -1.8		S	18 33.84
	32.45 97 P	03 41.40 0.6	FBA	74.36 9 ePd	08 46.10 1.0		S.D. = 0.3 on 5 of 5 obs.	
HHC	0.8s 20.00nm	5.0mb		0.5s 3.00nm	08 46.10 1.0		APR 26, 1993 16h 24m 07.22 ± 0.46s	
	32.49 69 Pd	03 42.00 1.1		epP	09 22.94 140km		34.538 N ± 7.7km	
TIY	1.0s 11.00nm	4.6mb	FRB	08 49.50 -0.6			80.506 E ± 12.4km	
CIT	33.59 74 eP	03 51.00 0.6	PWA	09 00.90 -0.7			DEPTH = 33.0km (normal)	
MLR	0.8s 43.00nm	5.2mb		0.5s 18.80nm	09 00.90 -0.7		4.5mb (10 obs.)	
CMP	34.39 49 eP	03 57.00 -0.2	MUN	80.30 142 eP	09 18.00 -0.3	XIZANG	(306)	
BOD	34.40 300 ePd	03 58.50 1.1	YKA	81.63 2 eP	09 23.70 -1.1	NDI	6.47 207 ePn	25 43.00 0.3
WHN	35.04 299 ePc	04 17.00 14.2X		0.9s 5.90nm	09 23.70 -1.1		eSn	26 56.50
TIA	36.13 39 iPc	04 10.80 -0.9	WRA	82.35 121 P	09 28.80 -0.5	GKN	7.41 150 P	25 55.00 -1.0
	0.8s 55.00nm	5.4mb		0.7s 4.60nm	09 28.80 -0.5		0.4s 11.00nm	5.2mb
KAF	37.05 86 Pc	04 20.50 0.8	WB2	82.35 121 iPd	09 28.60 -0.7	KKN	7.87 147 P	26 02.60 0.1
	0.8s 27.00nm	5.1mb		0.3s 25.40nm	09 28.60 -0.7		0.6s 20.00nm	5.4mb
NUR	37.58 76 eP	04 25.20 1.1	FCC	84.55 352 eP	09 42.50 2.7X	DMN	7.95 149 P	26 05.40 1.7
	1.2s 54.00nm	5.2mb	ASPA	84.57 124 iPc	09 39.80 -0.7	GUN	8.05 144 P	26 03.80 -1.3
OJC	37.59 328 eP	04 22.20 -1.6		0.4s 6.40nm	09 45.00 -0.7	PKI	8.12 147 P	26 06.00 0.0
SDF	37.75 325 eP	04 24.00 -1.2	JAQ	85.70 341 eP	09 45.00 -0.7		0.6s 18.00nm	5.4mb
	0.3s 2.70nm	4.5mb		S.D. = 1.2 on 82 of 93 obs.		GBA	21.03 188 P	28 55.00 4.5X
NJ2	38.62 308 eP	04 36.00 3.4X		? APR 26, 1993 15h 23m 51.29 ± 0.79s		CHG	22.67 129 eP	29 10.20 3.2X
KEV	e	05 05.50 132km		55.724 S ± 9.5km 147.083 E ± 27.7km		KAF	43.52 326 eP	32 08.40 -0.5
UPP	39.90 335 iP	04 43.20 0.3		DEPTH = 37.5km (2 depth phases)			0.6s 2.00nm	4.1mb
PRU	40.16 81 Pc	04 47.00 1.5		4.5mb (8 obs.)		NUR	43.97 324 eP	32 13.00 0.4
IPM	0.8s 16.00nm	4.8mb		WEST OF MACQUARIE ISLAND (701)		HFS	49.36 323 eP	32 54.60 -0.5
CN2	40.90 339 eP	04 51.00 -0.1		TOO	18.19 356 eP	GEC2	50.32 308 ePc	33 03.00 0.2
	40.97 322 iP	04 53.50 1.8			0.8s 22.00nm		0.9s 2.81nm	4.3mb
	42.00 307 eP	05 04.00 3.6X			18.81 349 iPd	NB2	e	33 15.60
	e	05 34.50 135km			1.3s 35.00nm		4.00nm	33 03.80 -0.6
	42.30 131 ePc	05 04.80 1.6			20.45 4 eP	MBC	5 ePd	35 09.80 0.4
	0.6s 32.30nm	5.2mb			i		4.00nm	4.6mb
	42.34 62 eP	05 03.50 0.3			iP	IMA	20 (P)	35 25.70 -0.4
	0.6s 28.00nm	5.1mb					2.07nm	4.2mb
						INK	12 eP	35 45.00 2.1
						YKA	7 eP	36 26.60 -1.0

CHJJ	2.49	233	iPd	31	51.30	0.2
MAT	2.80	249	iPd	31	56.90	1.4
			eS	32	33.00	

MTMJ	3.08	252	P	32	01.00	1.3		e	40	49.00		TOO	74.86	177	eP	43	03.30	14.3X		
AOMJ	3.10	345	P	32	02.00	2.2		eS	45	03.00			0.7s		12.00nm					
IIDJ	3.54	235	P	32	06.00	0.0	CHG	41.46	255	eP	38	55.40	-0.4	FRB	76.24	13	ePc	42	56.10	-0.5
			S	32	48.00		LSA	42.20	275	eP	39	03.60	1.3		1.0s		13.00nm		4.8mb	
TSRJ	4.85	247	P	32	26.50	2.0		0.7s		3.00nm			4.1mb	BW06	77.26	46	eP	43	02.30	-0.7
MRRJ	4.86	357	eP	32	27.20	2.7X	KHT	44.17	251	eP	39	18.70	0.9		0.8s		4.99nm		4.6mb	
			eS	33	25.10		IMA	46.21	31	eP	39	34.34	0.7				eP	43	17.22	53km
HOOJ	5.01	16	eP	32	25.70	-0.9		1.0s		2.87nm			4.2mb	DAU	77.77	48	eP	43	06.95	1.0
			eS	33	21.70		GUN	47.14	275	P	39	41.20	-0.6				eP	43	21.24	50km
WKYJ	5.82	237	eP	32	37.00	-1.1	PKI	47.67	275	P	39	45.20	-0.7	VRI	78.34	320	ePd	43	10.50	2.0
KUSJ	6.05	23	P	32	39.10	-2.2		0.8s		26.00nm			5.3mb	EMUT	78.41	48	eP	43	10.38	1.0
			eS	33	43.20		KKN	47.67	275	P	39	45.40	-0.4				eP	43	24.82	50km
ASAJ	6.60	7	eP	32	47.30	-1.7	DMN	47.89	275	P	39	47.00	-0.6	MSU	78.41	50	eP	43	10.16	0.8
YONJ	6.87	252	P	32	54.90	2.0		0.6s		23.00nm			5.4mb				eP	43	24.90	52km
TKSJ	7.01	241	eP	32	55.10	0.4	GKN	48.08	276	P	39	48.60	-0.4	OJC	78.61	326	iP	43	10.50	0.6
KUR	9.04	30	(P)	33	29.00	6.3X	PMR	48.17	37	(P)	39	48.54	-0.4	SRU	79.03	49	eP	43	13.15	0.5
			eS	34	56.00			0.5s		4.98nm			4.8mb				eP	43	27.85	51km
SHNJ	9.08	251	P	33	28.30	5.0X	FBA	48.63	32	eP	39	52.76	0.3	ULM	79.04	33	eP	43	15.00	2.8X
YSS	9.48	5	ePc	33	26.00	-2.8X		0.6s		2.98nm			4.5mb	SPC	79.16	325	eP	43	14.80	1.6
	0.9s		40.00nm		5.5mb		FRU	50.12	298	eP	40	04.30	0.0	RSSD	79.40	42	eP	43	15.00	0.3
Z	19s		0.30um		4.3MsZ			1.8s		40.00nm			5.1mb				eP	43	28.99	48km
			e	35	08.00					e	40	21.50	68kmX	KSP	79.66	328	iPc	43	16.00	0.4
KUMJ	10.06	243	P	33	42.20	5.4X	KSH	50.24	294	P	40	05.50	0.2	BRG	80.61	329	iP	43	20.40	-0.2
KAGJ	10.81	237	eP	33	48.90	1.9		0.7s		30.00nm			5.4mb		1.0s		10.00nm		4.7mb	
MDJ	11.38	312	eP	33	59.20	4.5X	Z	16s		0.95um			4.9MsZ				e	43	41.00	76kmX
	0.8s		39.00nm		5.6mb				pP	40	19.00	50km		CLL	80.65	330	iPc	43	20.80	0.0
Z	24s		1.19um		4.7MsZ		NDJ	53.61	281	iPc	40	29.50	-1.1		1.1s		20.00nm		5.0mb	
CN2	13.64	302	eP	34	25.80	1.1		0.7s		34.25nm			5.5mb	SRO	81.04	325	e(P)	43	23.80	0.8
	0.8s		5.80nm		4.4mb		INK	53.89	27	ePc	40	33.20	1.1	PRU	81.04	329	Pc	43	23.40	0.5
Z	20s		0.61um		4.3MsZ			0.9s		4.00nm			4.4mb		1.0s		6.40nm		4.5mb	
SNY	14.40	293	Pc	34	35.50	0.8	ARU	55.97	318	iPc	40	47.00	-0.4				e	43	43.50	74kmX
	Z	20s			1.09um			1.0s		80.00nm			5.7mb				eSg	56	15.50	
E	14s		0.68um				MBC	56.00	17	ePc	40	47.00	-0.4				e	56	20.60	
SSE	17.93	255	Pc	35	18.50	-0.9		1.0s		8.00nm			4.7mb	ZST	81.30	326	e(P)	43	25.20	0.9
	1.0s		21.00nm		4.2mb		HYB	58.26	268	ePc	41	02.70	-1.4	MOX	81.71	330	eP	43	26.60	0.2
Z	20s		0.50um		4.2MsZ			1.0s		30.00nm			5.4mb		1.4s		7.00nm		4.5mb	
TIA	19.50	273	P	35	35.80	-2.2	GBA	61.30	265	Pc	41	25.00	0.0	KHC	82.11	328	P	43	29.30	0.8
	1.3s		110.00nm		5.0mb		ASPA	61.32	188	iPd	41	23.60	-1.3		1.0s		18.00nm		5.1mb	
BJI	19.84	285	eP	35	38.50	-3.0X		0.6s		6.40nm			4.9mb				e	43	49.50	74kmX
	Z	20s			0.36um		POO	61.38	272	eP	41	35.10	39kmX	GEC2	82.28	328	iP	43	29.70	0.2
TIY	22.95	279	iPd	36	11.10	-1.9	MBL	61.87	203	eP	41	28.50	2.9X		0.7s		4.06nm		4.5mb	
	0.9s		33.00nm		4.8mb			0.6s		6.00nm			4.9mb				e	43	43.50	47km
Z	17s		0.96um		4.3MsZ		KEV	62.95	339	iP	41	35.20	-0.1	GRF	82.62	330	ePc	43	32.20	1.0
E	15s		0.54um					0.8s		17.60nm			5.2mb		1.0s		20.00nm		5.1mb	
MGD	23.32	12	eP	36	34.00	17.7X	YKA	63.33	30	eP	41	36.50	-1.3	Z	22s		0.10um		4.1MsZ	
WHN	23.48	261	Pc	36	18.60	0.6		0.7s		2.90nm			4.5mb				e(P)	43	47.10	52km
	0.6s		34.00nm		5.0mb		MAIO	63.41	297	iPc	41	38.80	-0.1				e(SP)	43	52.30	
CIT	24.28	315	eP	36	25.00	-0.8	VAN	63.61	299	iPc	41	38.90	-1.2	EKA	82.64	341	P	43	32.00	0.9
YAK	25.53	347	iPc-	36	37.70	0.3		1.0s		13.00nm			5.0mb		0.9s		4.10nm		4.5mb	
	0.9s		189.00nm		5.6mb		RMQ	64.09	173	eP	41	43.00	-0.2	JAQ	83.49	21	eP	43	35.00	-0.6
			eS	41	00.00		SDF	64.53	337	iP	41	45.20	-0.5	BHG	83.50	328	eP	43	36.50	0.8
XAN	26.55	272	P	36	45.50	-1.7	DAG	65.25	355	eP	41	49.30	-0.9	VAY	83.67	318	eP	43	37.40	0.7
	0.5s		21.00nm		5.0mb			0.6s		15.33nm			5.2mb	SKO	83.79	319	iP	43	38.10	0.8
			sP	37	02.10		OBN	67.68	323	iPc	42	05.20	-0.7	KBA	83.80	327	iPd	43	36.90	-0.6
BOD	27.04	327	iPc	36	51.00	-0.3		1.0s		35.00nm			5.3mb		0.8s		5.60nm		4.7mb	
	0.7s		41.00nm		5.2mb					e	42	22.00	62kmX				i	43	38.40	5kmX
GZH	28.11	247	eP	37	01.50	0.2	KAF	67.85	333	iP	42	06.00	-0.8	ALQ	84.22	50	eP	43	40.81	1.0
ZAK	29.97	308	iPc	37	18.00	0.3		0.6s		18.80nm			5.3mb		1.3s		12.48nm		4.8mb	
	1.0s		19.00nm		4.8mb		CMS	68.82	176	eP	42	26.20	13.1X	OHR	84.75	319	iP	43	42.20	0.0
Z	15s		0.29um		4.0MsZ		STK	69.09	180	eP	42	13.90	-0.9	CDF	85.19	331	eP	43	44.50	0.2
E	13s		0.29um					2.2s		1.30nm			3.5mb X		0.9s		14.10nm		5.1mb	
LZH	30.02	279	eP	37	16.50	-2.1			i	42	28.10	50km	BSF	85.85	331	eP	43	47.50	-0.2	
	1.4s		72.00nm		5.2mb		NUR	69.49	332	iP	42	16.30	-0.7	HAU	85.88	332	eP	43	47.60	-0.1
Z	20s		0.45um		4.1MsZ			0.5s		15.00nm			5.2mb		0.5s		5.10nm		5.0mb	
E	15s		0.60um				NEW	69.72	44	eP	42	17.20	-1.5	LOR	87.42	333	eP	43	55.30	0.1
PLP	30.17	214	ePc	37	18.50	-1.4		1.0s		10.50nm			4.7mb		1.0s		15.40nm		5.2mb	
GYA	31.35	259	iPc	37	28.80	-1.5	PYA	70.32	311	eP	42	21.00	-1.4	LBF	87.62	332	eP	43	56.10	-0.1
	1.0s		73.00nm		5.4mb		KIV	70.58	311	iPc	42	23.00	-1.1	FLN	87.63	336	eP	43	56.30	0.1
CD2	31.71	269	P	37	31.00	-2.4		1.3s		73.00nm			5.5mb		1.0s		7.50nm		4.9mb	
	0.6s		42.00nm		5.4mb					e	42	42.50	73kmX	LDF	87.66	336	eP	43	56.40	0.1
GTA	32.44	286	eP	37	38.00	-1.8			eS	52	07.90				0.6s		5.05nm		4.9mb	
	1.0s		14.00nm		4.7mb		GRS	70.75	305	eP	42	23.00	-2.3	SSF	87.72	333	eP	43	56.90	0.3
			pP	37	53.50	63kmX		1.1s		30.00nm			5.1mb		0.9s		10.00nm		5.0mb	
TIK	34.75	353	iPc	37	58.00	-1.1	BWA	71.92	174	eP	42	32.10	0.2	LPL	87.79	330	eP	43	57.80	0.5
	1.5s		24.00nm		4.9mb				i	42	46.30	50km		0.8s		5.10nm		4.8mb		
KMI	35.08	261	Pd	38	02.00	-0.8	UPP	72.49	334	iP	42	34.20	-0.8	LPG	87.80	330	eP	43	58.00	0.6
	1.3s		130.00nm		5.7mb		CAN	72.86	174	e(P)	42	37.20	-0.3		0.7s		3.10nm		4.6mb	
Z	14s		1.40um		4.9MsZ				i	42	51.90	52km	HYF	87.86	333	eP	43	58.10	0.8	
			pP	38	15.00	49km	FCC	73.51	27	eP	42	43.00	2.0	SMF	87.95	332	eP	43	58.00	0.2
			sP	38	19.00		MOL	73.57	340	eP	42	41.57	0.3	AVF	88.01	333	eP	43	58.30	0.3
ILT	37.54	23	iPc	38	21.00	-1.7	HFS	73.61	336	eP	42	40.70	-0.9		0.9s		3.60nm		4.6mb	
	1.0s		16.00nm		4.9mb			0.5s		11.30nm			5.1mb	GRR	88.08	336	eP	4		

LSF 89.13 333 eP 44 03.60 0.2
 MFF 89.41 335 eP 44 05.20 0.5
 RJF 89.94 333 eP 44 07.70 0.5
 CAF 90.07 332 eP 44 08.70 0.8
 LFF 90.54 333 eP 44 10.50 0.6
 LPO 90.60 333 eP 44 10.80 0.5
 GAC 90.68 25 eP 44 11.50 0.9
 MIAR 91.90 43 eP 44 17.05 0.7

0.6s 4.77nm 5.1mb
 epP 44 31.52 49km
 PRM 97.88 35 (P) 44 45.82 2.1
 BUL 119.85 267 ePKP 49 58.00 -1.0
 ZOBO 146.38 59 PKP 50 49.70 0.8
 1.0s 22.50nm
 LPB 146.58 59 ePKP 50 46.00 -3.0X
 CNCB 146.86 59 PKP 50 51.20 1.6
 i 51 07.60
 SIV 150.70 49 PKP 51 14.20 19.3X
 S.D. = 1.0 on 139 of 154 obs.

* APR 27, 1993 00h 30m 21.64s
 58.515 N 155.632 W
 DEPTH = 132.8km
 ALASKA PENINSULA (12)
 <AEIC>.

MCNL 0.95 44 iP 30 43.62 -1.0
 eS 31 00.62
 CDD 1.12 67 iP 30 45.20 -1.1
 eS 31 04.59
 AUI 1.41 53 iP 30 48.06 -1.2
 eS 31 08.23
 AUW 1.41 52 iP 30 48.20 -1.1
 AUH 1.42 52 iP 30 48.37 -1.1
 AUL 1.43 52 iP 30 48.39 -1.1
 OPT 1.69 46 eP 30 51.01 -1.4
 SYI 1.70 85 eP 30 51.47 -1.1
 eS 31 13.81
 KDC 1.83 113 (P) 30 50.07 -4.1
 eS 31 14.89
 INE 2.04 39 eP 30 55.26 -1.5
 RDW 2.44 35 eP 30 59.83 -2.1
 RS2 2.44 36 eP 30 59.89 -2.1
 RSO 2.44 36 eP 30 59.93 -2.0
 NCT 2.47 33 iP 31 00.09 -2.1
 CNPM 2.49 64 iP 31 00.30 -2.1
 eS 31 28.82
 DFR 2.57 34 iP 31 01.21 -2.2
 BRK 2.75 61 eP 31 05.01 -0.7
 CKL 3.16 30 eP 31 09.23 -2.0
 BGL 3.20 29 eP 31 09.70 -2.1
 SPU 3.23 32 iP 31 09.63 -2.4
 CLPM 3.26 31 eP 31 10.75 -1.8
 SLKM 3.41 52 iP 31 12.14 -2.2
 eS 31 48.30
 MPA 3.76 56 iP 31 16.50 -2.5
 SKT 4.03 29 iP 31 20.39 -2.3
 PTE 4.09 52 eP 31 20.38 -3.1
 SML 4.92 45 eP 31 30.28 -4.4
 HIN 5.03 64 iP 31 32.22 -3.8
 SCM 5.31 48 eP 31 35.80 -4.2
 VLZ 5.38 57 iP 31 37.28 -3.4
 CVA 5.43 64 iP 31 37.39 -4.0
 TRF 5.59 25 eP 31 40.49 -3.4
 KLU 5.71 54 eP 31 41.24 -4.2
 RAGM 5.90 67 iP 31 44.11 -3.8

33 obs. associated

* APR 27, 1993 00h 36m 29.47 ± 0.97s
 40.939 N ± 11.0km 14.611 E ± 13.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SGO 0.65 125 P 36 41.60 -0.9
 eSg 36 49.00
 DUI 0.73 351 P 36 44.30 0.4
 eSg 36 56.70
 SDI 0.97 322 P 36 49.30 1.3
 MGR 1.08 138 P 36 48.90 -0.8
 eSg 37 05.30
 MMN 1.49 134 P 37 02.40 6.2X
 CSI 1.73 132 P 37 02.50 2.7X
 TDS 1.84 134 P 37 02.50 1.2
 BRT 1.97 91 P 37 04.30 1.1
 ROI 2.03 132 P 37 07.50 3.4X
 MNS 2.04 316 P 37 03.70 -0.6
 VBY 4.59 6 e(Pn) 37 40.20 -0.2

GEC2 7.93 356 Pn 38 26.00 -1.6
 Sn 39 56.10
 S.D. = 1.2 on 9 of 12 obs.

APR 27, 1993 02h 23m 04.69 ± 0.40s
 5.388 N ± 6.3km 82.563 W ± 7.3km
 DEPTH = 33.0km (normal)
 4.5mb (19 obs.) 4.3msz (2 obs.)
 SOUTH OF PANAMA (83)
 MD 4.3 (UPA).

DVD 3.03 2 ePd 23 50.36 -1.1
 eS 24 24.95
 UPA 4.67 40 iPc 24 15.92 1.2
 eS 25 09.12
 ECO 4.87 36 ePd 24 17.75 0.2
 eS 25 12.03
 SDV 12.34 73 iPc 26 01.80 0.6
 TOV 13.39 70 ePc 26 14.50 -0.5
 ePP 26 16.10
 NNA 18.17 162 eP 27 13.50 -2.9X
 1.0s 20.00nm 4.2mb
 ARE 24.32 153 eP 28 22.00 1.1
 ZOBO 25.83 147 P 28 34.50 -1.1
 1.2s 14.53nm 4.5mb
 Z 22s 0.74um 4.2msz

LPB 26.06 147 P 28 37.30 -0.3
 Z 22s 1.48um 4.5msz
 LR 36 50.00
 CNCB 26.35 147 P 28 40.60 0.2
 CCH 27.84 145 eP 28 54.00 0.2
 JSC 28.77 2 eP 29 02.07 0.5
 SIV 30.06 135 P 29 24.60 11.2X
 UYO 30.69 340 iPc 29 17.70 -1.0
 MIAR 30.75 342 eP 29 18.10 -1.2
 0.9s 4.52nm 4.3mb

OLY 31.07 346 eP 29 21.14 -0.9
 ELC 32.33 350 eP 29 31.74 -1.3
 CVL 32.66 6 eP 29 35.86 0.0
 MEO 32.79 335 iPd 29 35.50 -1.6
 WMOK 32.83 335 eP 29 36.16 -1.3
 0.8s 8.88nm 4.7mb
 FVM 33.23 349 eP 29 40.19 -0.7
 0.5s 19.70nm 5.3mb
 ACO 34.67 336 iPc 29 52.40 -1.0
 ALQ 36.77 326 eP 30 12.56 1.1
 1.1s 9.94nm 4.6mb
 TUC 37.58 319 eP 30 19.08 1.0
 1.2s 8.51nm 4.5mb

RSNY 39.64 9 (P) 30 28.09 0.6
 0.9s 11.23nm 4.6mb
 GOL 39.88 332 eP 30 38.60 1.2
 0.8s 6.45nm 4.4mb
 GAC 40.63 8 eP 30 44.50 1.4
 GLA 40.74 317 eP 30 45.15 0.8
 SRU 42.03 327 eP 30 56.01 1.0
 MSU 42.53 325 eP 31 00.66 1.5
 RSSD 42.94 337 eP 31 03.43 1.0
 0.6s 9.90nm 4.7mb
 DAU 43.36 328 eP 31 07.32 1.3
 BW06 44.25 331 eP 31 13.34 0.3
 1.0s 4.69nm 4.3mb

ULM 46.09 348 eP 31 28.50 1.2
 LCCM 47.65 332 eP 31 40.40 0.4
 JAO 48.59 5 eP 31 45.00 -1.9
 ORV 48.86 320 eP 31 50.14 0.9
 NEW 51.88 331 eP 32 12.80 0.6
 1.2s 8.33nm 4.6mb

FCC 53.98 353 eP 32 28.00 0.5
 FR8 59.13 7 eP 33 02.50 -1.6
 1.0s 8.00nm 4.8mb
 YKA 61.68 344 eP 33 19.70 -1.9
 1.0s 6.00nm 4.7mb
 INK 71.35 342 eP 34 24.50 1.6
 1.0s 3.00nm 4.3mb
 MBC 73.66 351 ePd 34 36.20 -0.2
 0.9s 9.00nm 4.8mb
 LIC 77.07 85 (P) 34 59.00 2.0
 KIC 77.35 85 (P) 34 59.00 0.4
 EKA 79.56 35 P 35 14.00 4.2X
 1.0s 5.50nm 4.5mb
 NB2 87.16 29 P 35 50.00 1.4
 1.1s 4.30nm 4.6mb

GEC2 90.10 41 ePKP 36 05.90 3.0X
 1.0s 1.03nm 4.1mb
 GKN 144.58 20 PKP 42 38.40 -2.1
 KKN 144.99 19 PKP 42 39.80 -1.4
 0.7s 17.00nm
 GUN 145.07 18 PKP 42 40.60 -0.9
 DMN 145.10 19 PKP 42 40.10 -1.4
 PKI 145.24 19 PKP 42 40.80 -1.0
 S.D. = 1.1 on 49 of 53 obs.

* APR 27, 1993 03h 19m 47.38 ± 0.66s
 45.400 N ± 11.2km 151.429 E ± 9.9km
 DEPTH = 33.0km (normal)
 4.4mb (12 obs.)
 KURIL ISLANDS (221)

KUSJ 5.35 247 eP 21 05.30 -1.6
 eS 22 04.30
 ASAJ 6.39 262 eP 21 24.20 2.6X
 HOOJ 6.61 246 eP 21 25.00 0.3
 eS 22 37.30
 MDJ 15.46 275 eP 23 25.20 0.7
 CN2 18.55 274 eP 24 03.00 -0.2
 1.0s 12.00nm 4.0mb
 Z 18s 0.36um 4.4msz

epP 24 09.00
 YAK 20.85 331 eP 24 28.70 0.3
 1.0s 35.00nm 4.7mb
 XAN 34.24 266 eP 26 32.00 -0.2
 GTA 38.03 280 eP 27 05.20 0.9
 1.5s 11.00nm 4.5mb

CD2 39.60 265 eP 27 17.60 0.2
 INK 43.42 32 eP 27 50.00 1.9
 YKA 52.71 36 eP 28 59.50 -1.0
 1.0s 1.10nm 3.8mb

GUN 53.95 275 P 29 10.60 0.1
 KKN 54.44 275 P 29 14.20 0.2
 PKI 54.49 275 P 29 14.40 -0.1
 DMN 54.67 275 P 29 16.20 0.4
 GKN 54.76 276 P 29 16.60 0.3
 KAF 64.17 335 eP 30 18.00 -2.4
 NUR 65.92 334 eP 30 30.00 -1.7
 FRB 66.70 18 eP 30 35.00 -1.7
 WB2 66.86 197 eP 30 37.90 -0.2
 0.6s 1.20nm 4.2mb

i 30 51.60
 WRA 66.86 197 P 30 38.20 0.0
 0.6s 0.80nm 4.0mb
 RSSD 68.59 48 iPd 31 01.60 12.4X
 0.8s 4.19nm

NB2 69.12 341 P 30 50.80 -1.1
 0.6s 3.10nm 4.5mb
 HFS 69.30 339 eP 30 51.10 -1.8
 0.4s 3.40nm 4.7mb
 CLL 77.20 335 iP 31 38.90 -0.3
 1.2s 10.00nm 4.7mb

KHC 78.93 333 eP 31 50.10 1.3
 e 31 56.00
 GEC2 79.14 333 ePd 31 50.20 0.1
 0.8s 1.13nm 3.9mb

e 32 01.40
 e 32 04.60
 LOR 83.42 338 eP 32 12.80 0.4
 AVF 83.99 339 eP 32 16.10 0.8
 SMF 84.00 338 eP 32 16.20 0.8
 LPL 84.24 336 eP 32 18.00 1.1
 0.8s 4.45nm 4.7mb

LPG 84.25 336 eP 32 18.10 1.0
 MAF 84.72 339 eP 32 20.40 1.4
 0.7s 5.75nm 4.9mb
 S.D. = 1.1 on 31 of 33 obs.

APR 27, 1993 03h 22m 09.87 ± 1.25s
 1.972 S ± 6.0km 79.770 W ± 10.1km
 DEPTH = 103.7 ± 11.1 km
 4.4mb (10 obs.)
 ECUADOR (107)
 Felt at Guayaquil.

GGP 2.14 33 P 22 44.53 -1.0
 ANTI 2.20 47 P 22 47.24 0.9
 CAYA 2.71 41 P 22 54.01 0.9
 NNA 10.36 164 iPd 24 32.20 -4.9X
 0.6s 73.33nm 5.7mb X
 eS 26 24.00
 SDV 14.12 40 iPc 25 23.50 -3.1X
 TOV 15.34 40 ePc 25 42.50 0.5

27d 03h

CEOS	15.79	46	iP	25	46.30	-1.5	DOU	87.88	40	P	35	06.30	17.4X	SVW	51.07	34	ePc	47	23.20	0.8
ARE	16.54	151	eP	25	58.00	0.6	SPA	88.05	180	iPc	34	50.10	0.5	TTA	51.12	32	iPc	47	22.81	0.0
MORO	17.11	42	eP	25	56.80	-7.4X		1.0s	20.00nm				5.1mb		0.8s		7.03nm		4.7mb	
GUAC	17.35	46	eP	26	07.50	0.4	NVL	88.68	161	eP	34	54.00	1.6	KDC	52.45	38	iPc	47	31.76	-1.0
LLAV	17.87	46	iP	26	13.50	0.0	HAU	88.85	42	eP	35	10.30	16.7X		0.6s		19.21nm		5.3mb	
ZOBO	18.26	142	P	26	16.90	-1.8		0.7s	3.65nm					BRW	52.57	21	eP	47	34.10	0.7
	0.9s	19.46nm			4.4mb		LPG	88.95	45	eP	35	10.80	16.3X	IMA	52.58	28	eP	47	33.49	-0.3
Z	24s	0.31um			4.3mszX			0.9s	6.90nm						0.6s		3.89nm		4.6mb	
		S		31	48.00		BSF	89.13	42	eP	35	11.30	16.2X	PMR	54.22	34	eP	47	44.53	-1.2
		LR		34	14.00			0.8s	4.55nm						0.9s		32.90nm		5.4mb	
LPB	18.47	142	P	26	20.50	-0.6	CDF	89.49	42	eP	35	13.30	16.5X	ASPA	54.39	188	eP	47	44.10	-3.3X
	1.0s	80.00nm			5.0mb			0.7s	3.95nm						0.6s		11.00nm		5.1mb	
CNCB	18.76	143	iPc	26	24.20	-0.1	CLL	93.27	39	e(P)	35	32.00	18.1X	FBA	54.91	30	ePc	47	50.07	-0.7
CCH	20.35	140	Pc	26	40.50	-0.1	GEC2	93.76	41	eP	35	33.90	17.5X		0.8s		23.70nm		5.3mb	
SIV	23.09	128	Pc	27	21.60	14.1X		0.9s	1.17nm					RMO	57.35	171	eP	48	07.30	-1.2
YJA	24.40	146	ePc	27	21.00	0.4			e		35	42.30			0.6s		10.00nm		5.1mb	
PPD	34.11	128	eP	28	43.00	-3.8X	BRG	93.87	39	eP	35	34.20	17.5X	GBA	60.21	269	P	48	35.00	6.4X
		e		29	06.20			1.0s	10.00nm					INK	60.40	25	ePc	48	29.50	0.3
BAO	34.14	115	eP	28	47.00	-0.2	STK	128.33	226	ePKP	41	05.80	-0.6		0.6s		3.00nm		4.6mb	
		e		38	23.00			0.8s	1.40nm					ARU	60.77	321	eP	48	31.00	-0.8
UYO	38.51	340	iPc	29	23.30	-0.4	WB2	140.06	235	ePKP	41	19.10	-9.8X	ARMA	61.63	169	iPd	48	37.00	-1.0
ELC	40.03	348	eP	29	34.22	-2.0		0.6s	6.00nm						0.7s		11.00nm		5.1mb	
MEO	40.60	336	iPc	29	40.50	-0.5	WRA	140.07	235	PKP	41	21.90	-7.0X	STK	62.20	179	eP	48	39.90	-1.7
WMOK	40.64	336	eP	29	41.01	-0.3		0.6s	2.90nm						0.4s		1.70nm		4.5mb	
	1.1s	9.46nm			4.5mb		WRA	140.07	235	PKP	41	29.00	0.1	MBC	62.83	15	eP	48	45.00	-0.4
OCO	40.81	338	e(P)	29	44.50	1.8		0.9s	1.90nm						0.6s		6.00nm		4.8mb	
ACO	42.49	337	iPd	29	56.30	-0.2	MTN	145.98	244	ePKP	41	39.00	-0.2	MRWA	63.99	204	eP	48	52.00	-1.5
ALO	44.43	328	eP	30	12.81	0.4		0.5s	35.00nm						0.4s		2.00nm		4.4mb	
	1.0s	5.46nm			4.3mb		GKN	150.13	29	PKP	41	51.20	5.6X	BWA	65.15	173	iPc	49	00.20	-0.7
RSNY	46.55	5	eP	30	28.65	-0.1		0.6s	19.00nm								ePP		49	26.00
GOL	47.65	333	eP	30	40.38	2.5	KKN	150.61	28	PKP	41	52.20	5.8X	CAN	66.10	172	eP	49	06.10	-0.9
	0.7s	3.92nm			4.3mb			0.6s	19.00nm					TOO	68.02	176	eP	49	18.80	-0.3
LMN	49.43	14	eP	31	08.50	17.4X	DMN	150.68	28	PKP	41	52.40	5.8X		0.7s		12.00nm		4.9mb	
DAU	51.05	329	eP	31	03.70	-0.2		0.5s	10.00nm					YKA	69.69	29	eP	49	27.30	-1.7
ULM	53.83	347	eP	31	25.00	1.0	GUN	150.78	27	PKP	41	52.40	5.6X		0.8s		6.00nm		4.5mb	
		pP		31	39.50	54kmX		0.5s	4.00nm					SDF	70.64	338	iP	49	34.80	0.0
BGMT	55.05	333	eP	31	32.80	-0.5	PKI	150.86	28	PKP	41	52.80	5.9X	DAG	72.07	355	eP	49	43.30	0.1
JAO	55.68	3	eP	31	34.00	-3.4X		0.5s	7.00nm						0.8s		10.45nm		4.8mb	
ORV	56.29	322	iPd	31	42.35	0.3	GBA	154.67	62	PKP	42	18.00	25.9X	BMW	72.39	46	eP	49	46.50	0.8
LBFM	57.61	323	eP	31	50.50	-1.1	CHG	163.22	4	ePKP	41	38.70	-23.1X	OBN	72.83	324	eP	49	47.00	-0.9
FCC	61.61	352	eP	32	19.50	1.1		S.D. = 1.0 on 40 of 85 obs.					KAF	73.68	333	eP	49	51.00	-1.8	
FRB	66.09	5	eP	32	46.00	-1.5								0.5s		2.70nm		4.4mb		
YKA	69.48	344	eP	33	06.60	-2.1		APR 27, 1993 03h 38m 26.92 ± 1.13s					KIV	74.62	312	eP	49	59.00	0.2	
	0.5s	0.50nm			3.6mb		30.652 N ± 4.3km 140.602 E ± 4.9km							1.6s		34.00nm		5.8mb		
LIC	75.06	83	P	33	43.40	0.8		DEPTH = 84.5 ± 10.1 km								e		59	26.70	
TIC	75.10	83	P	33	43.00	0.1		4.8mb (44 obs.)						DPW	74.79	43	eP	50	00.11	0.5
KIC	75.35	83	P	33	45.00	0.7		SOUTH OF HONSHU, JAPAN (211)						NEW	75.23	42	ePc	50	02.57	0.5
	0.6s	13.50nm			4.9mb										0.8s		14.41nm		4.9mb	
INK	79.16	342	eP	34	07.00	2.7X	MAT	6.20	342 (P)	39	58.00	0.2	NUR	75.27	333	eP	50	02.00	0.0	
	1.0s	5.00nm			4.3mb			(S)		41	04.00				0.3s		1.80nm		4.4mb	
MAL	79.48	52	iPc	34	25.50	18.9X	MDJ	16.42	331	eP	42	11.00	-2.3	ORV	76.69	52	ePc	50	10.67	0.3
MBC	81.31	351	eP	34	16.00	0.5	YSS	16.42	5	ePc	42	12.10	-1.3	CMB	78.19	53	ePc	50	18.97	0.2
	0.6s	2.00nm			4.1mb			0.8s	40.00nm						0.7s		12.38nm		4.9mb	
LPF	83.93	41	eP	34	46.90	17.4X	PJG	17.43	166	eP	42	27.50	1.4			e		50	42.75	
	0.9s	36.25nm					GUA	17.49	166	eP	42	27.70	0.9	UPP	78.39	334	iP	50	18.70	-0.6
EKA	84.02	34	Pd	34	47.10	17.3X		0.5s	185.92nm					LCCM	79.55	43	iPc	50	26.80	0.6
	1.1s	13.80nm					CN2	17.79	322	eP	42	31.40	1.1			e		50	50.20	
GRR	84.11	41	eP	34	47.10	16.7X		0.6s	9.30nm						0.4s		2.80nm		4.5mb	
	1.1s	20.50nm					Z	14s	0.29um					HFS	79.62	336	eP	50	25.50	-0.5
MFF	84.30	43	eP	34	48.30	16.9X	NJ2	18.63	280	eP	42	41.00	0.6	NB2	79.81	338	P	50	26.80	-0.2
	0.7s	10.05nm					TIY	24.29	294	eP	43	40.00	2.5		0.7s		1.20nm		3.9mb	
FLN	84.42	41	eP	34	48.80	16.8X		Z	22s	0.52um				HVU	81.24	46	eP	50	36.50	1.4
	0.9s	16.40nm					HHC	25.57	301	eP	43	49.60	0.0	GSC	82.06	54	ePc	50	40.34	0.9
LDF	84.63	41	eP	34	49.90	16.9X		Z	11s	0.37um				DUG	82.09	48	iPd	50	40.62	1.1
	0.7s	8.25nm					XAN	26.92	286	P	44	01.50	-0.5		0.6s		8.49nm		4.8mb	
LFF	84.67	45	eP	34	50.10	16.8X	GYA	30.03	271	P	44	31.20	1.0	BW06	82.65	44	eP	50	42.79	0.2
	0.5s	9.90nm					MGD	30.24	10	eP	44	31.00	-0.4		0.7s		3.18nm		4.3mb	
LPO	84.95	45	eP	34	51.40	16.7X	YAK	32.17	350	eP	44	47.00	-1.3	DAU	82.95	47	ePc	50	45.49	1.2
	0.8s	12.75nm						0.9s	26.00nm					ARUT	83.00	50	eP	50	44.91	0.5
RJF	85.26	44	eP	34	52.90	16.6X			e		49	52.00		PLM	83.05	55	eP	50	45.53	0.8
LSF	85.39	43	eP	34	53.50	16.6X	BOD	32.72	334	eP	44	53.80	0.7	FRB	83.13	13	eP	50	44.60	0.3
	0.8s	7.80nm						1.2s	15.00nm						1.0s		17.00nm		4.9mb	
TCF	85.87	44	eP	34	55.70	16.4X	ZAK	34.06	316	eP	45	06.80	2.0	VR1	83.16	320	eP	50	47.00	2.2
	1.0s	13.80nm						1.5s	10.00nm					MSU	83.43	49	eP	50	47.78	1.1
MAF	86.10	44	eP	34	57.10	16.6X	CHG	39.42	263	eP	45	50.50	0.1	MLR	83.82	320	ePc	50	49.50	1.2
	1.1s	17.10nm					TIK	41.53	354	iPc	46	07.00	0.0	SRU	84.16	48	ePc	50	51.03	0.8
HYF	86.28	43	eP	34	58.20	16.9X		0.7s	17.00nm					GLA	84.65	55	eP	50	53.66	1.0
BGF	86.34	43	eP	34	58.20	16.6X	SNG	44.10	246	eP	46	30.50	2.0	RSSD	85.06	41	eP	50	55.08	0.4
	1.1s	41.55nm					ILT	44.21	21	iPc	46	27.00	-1.8		0.6s		3.01nm		4.5mb	
AVF	86.71	43	eP	34	59.60	16.2X		1.4s	34.											

LBF 0.7s 2.75nm 4.8mb
 93.39 332 eP 51 32.90 -0.9
 LPL 93.39 329 eP 51 34.10 0.0
 0.7s 6.40nm 5.1mb
 LPG 93.40 329 eP 51 34.10 -0.1
 0.8s 7.95nm 5.2mb
 SSF 93.52 332 eP 51 34.30 -0.1
 0.7s 4.85nm 5.0mb
 SMF 93.72 332 eP 51 34.60 -0.7
 0.6s 4.05nm 5.0mb
 AVF 93.80 332 eP 51 35.70 0.1
 0.8s 7.10nm 5.1mb
 GRR 94.08 335 eP 51 36.40 -0.5
 BGF 94.19 332 eP 51 37.40 -0.1
 LPF 94.45 335 eP 51 39.10 0.5
 MAF 94.58 332 eP 51 39.70 0.4
 TCF 94.67 332 eP 51 39.70 0.0
 LSF 94.97 333 eP 51 41.20 0.1
 0.6s 3.00nm 4.9mb

ARE 147.50 72 e(PKP) 58 04.00 3.1X
 ZOBO 150.12 68 PKP 58 11.00 5.6X
 1.0s 22.50nm
 LPB 150.29 68 PKP 58 11.70 6.3X
 CNCB 150.53 69 PKP 58 07.00 1.9
 i 58 13.00
 CCH 152.32 68 PKP 58 15.40 7.1X
 i 58 26.00
 SIV 155.39 59 PKP 58 27.00 14.9X
 i 58 35.40
 i 58 51.60
 S.D. = 1.0 on 91 of 98 obs.

? APR 27, 1993 04h 43m 29.99±3.93s
 5.067 N ±48.0km 72.723 W ±19.4km
 DEPTH = 24.0 ± 13.9 km
 3.7mb (1 obs.)

COLOMBIA (103)
 Felt at Sogamoso and Duitama.

FUO 1.09 292 iP 43 50.00 0.0
 BOG 1.41 252 iPc 44 04.00 9.4X
 iS 44 26.00
 SDV 4.32 29 iPnc 44 36.20 0.1
 TOV 5.52 32 eP 44 52.70 -0.1
 CEOS 5.87 48 eP 44 58.00 0.1
 MORO 7.23 37 eP 44 58.70 -18.3X
 GUAC 7.42 46 iP 45 19.60 -0.2
 SIV 23.89 151 P 49 06.40 23.5X
 YKA 65.04 340 eP 54 10.30 0.0
 0.3s 0.20nm 3.7mb
 S.D. = 0.2 on 6 of 9 obs.

APR 27, 1993 04h 51m 47.80±0.96s
 31.934 S ± 8.2km 69.852 W ± 7.7km
 DEPTH = 147.9 ± 10.9 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 4.0 (SAN).

RTBS 0.44 51 iPd 52 08.50 -0.3
 JACH 0.97 220 iPd 52 12.42 -0.1
 iS 52 29.72
 RTCB 1.00 64 iPc 52 12.50 -0.3
 (S) 52 30.00
 ZON 1.07 69 iPc 52 13.90 0.5
 eS 52 29.90
 RTCV 1.12 87 iPc 52 13.50 -0.3
 S 52 30.50
 MDZ 1.27 138 iP 52 15.30 0.1
 iS 52 32.10
 RTLL 1.32 63 iPd 52 16.00 0.2
 S 52 33.50
 PEL 1.40 210 iPd 52 16.45 0.0
 iS 52 35.86
 CFA 1.41 77 iPd 52 16.60 -0.1
 S 52 35.20
 FCH 1.44 195 iPa 52 17.84 0.6
 iS 52 38.19
 SAN 1.66 204 eP 52 18.97 -0.4
 iS 52 41.06
 PCH 1.77 198 iP 52 20.94 0.3
 iS 52 44.70
 TACH 1.94 208 iPd 52 22.45 -0.1
 iS 52 47.08
 CHCH 2.10 198 iPd 52 24.85 0.4
 iS 52 51.33
 LCCH 2.11 223 iPd 52 24.55 0.0
 iS 52 50.02

LNV 2.40 213 iP 52 27.51 -0.5
 iS 52 56.18
 MRA 3.55 99 ePc 52 42.30 -0.4
 S 53 21.80
 CYA 4.94 46 ePc 53 01.50 0.2
 S 53 57.30

S.D. = 0.4 on 18 of 18 obs.

APR 27, 1993 06h 08m 56.33±0.18s
 6.138 S ± 2.9km 147.761 E ± 4.5km
 DEPTH = 38.2km (13 depth phases)
 5.3mb (48 obs.) 5.1Msz (40 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

Mw 5.5 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 38S, 76C

Centroid Location:

Origin Time 06:09: 4.9 0.3

Lat 6.255 S 0.02 Lon 148.08E 0.03

Dep 36.2 2.3 Half-duration 1.3

Moment Tensor: Scale 10¹⁷ Nm

Mrr= 1.58 0.04 Mtt=-2.01 0.06

Mff= 0.44 0.07 Mrt= 0.84 0.12

Mrf=-0.17 0.09 Mtf= 0.28 0.05

Principal Axes:

T Val= 1.77 Plg=77 Azm= 22

N 0.47 3 278

P -2.24 13 187

Best Double Couple: Mo=2.0*10¹⁷

NP1: Strike=273 Dip=33 Slip= 84

NP2: 100 58 94

MDG 2.16 294 eP 09 37.10 6.4X

PMG 3.30 190 iPd 09 47.60 0.8

eS 10 26.00

HNR 12.51 106 eP 11 55.00 0.3

CTA 13.94 186 iPc 12 13.00 -0.6

0.9s 14.71nm 4.7mb

Z 23s 35.23um 5.8Msz

iC 12 21.50

iS 12 25.00

iC 12 33.00

eS 14 52.00

eScP 19 08.00

MTN 17.70 247 eP 13 04.00 2.3

0.6s 128.00nm 5.2mb

WB2 18.92 222 iPd 13 15.50 -1.3

0.6s 121.80nm 5.3mb

eS 16 37.60

GUA 19.75 352 eP 13 28.60 2.5

0.8s 167.16nm 5.4mb

Z 20s 6.51um 6.3MszX

eS 17 32.50

PJG 19.81 352 eP 13 28.50 1.8

20.26 177 iPc 13 31.30 -0.1

0.7s 273.00nm 5.7mb

QLP 20.61 189 iPd 13 34.50 -0.5

BRS 21.67 168 iPc 13 45.30 -0.5

0.5s 51.00nm 5.2mb

Z 18s 60.00um 6.0Msz

i 13 59.00 59kmX

iS 17 42.50

ASPA 21.94 216 iPc 13 48.70 0.2

0.4s 242.40nm 6.0mb

Z 22s 6.20um 5.0Msz

eS 17 47.80

eScS 25 26.50

BKM 23.05 122 iP 13 59.50 0.0

DZM 24.02 133 iPd 14 08.70 -0.2

ARMA 24.43 172 iPd 14 13.40 0.6

0.7s 90.00nm 5.4mb

eS 21 35.30

CMS 25.28 184 iPd 14 20.20 -0.7

0.7s 42.00nm 5.1mb

DAV 25.74 300 eP 14 27.20 1.9

STK 26.25 192 eP 14 29.30 -0.6

0.8s 49.70nm 5.2mb

eS 18 54.10

RIV 27.73 174 eP 14 46.00 2.7X

Z 21s 0.50um 4.1MszX

BWA 28.15 179 eP 14 47.60 0.4

i 14 50.80

iP 14 57.90 38km

i 18 00.90

WARB 28.35 223 eP 14 50.00 1.0

0.5s 58.00nm 5.5mb

CAN 29.06 178 eP 14 54.90 -0.5
 eP 15 03.10 29km

e 18 10.50

CNB 29.07 177 iPc 14 55.30 -0.2

1.1s 77.00nm 5.3mb

ADE 29.88 195 eP 15 02.90 0.2

FORT 30.71 215 eP 15 10.00 0.0

MBL 30.89 238 iPc 15 11.80 0.0

0.6s 73.00nm 5.6mb

BFD 31.26 188 iPc 15 14.20 -0.6

0.7s 20.00nm 5.0mb

TOO 31.36 183 eP 15 16.30 0.6

0.6s 12.00nm 4.9mb

e 18 20.00

MEEK 34.44 230 iPc 15 42.50 -0.2

BAG 35.00 310 eP 15 47.00 -0.7

COOL 35.06 222 eP 15 48.00 0.1

0.4s 18.00nm 5.4mb

MRWA 37.76 229 eP 16 11.00 0.4

0.7s 64.00nm 5.6mb

KLB 37.79 224 iPc 16 10.50 -0.4

0.6s 138.00nm 6.0mb

BAL 37.98 226 eP 16 21.50 39km

0.6s 38.00nm 5.5mb

MUN 39.10 225 eP 16 22.00 0.2

0.8s 97.00nm 5.6mb

LEM 39.89 267 eP 16 29.40 0.6

KAGJ 40.47 337 eP 16 35.30 2.2

KUMJ 41.70 338 eP 16 42.30 -0.9

WKYJ 41.76 345 eP 16 44.10 0.4

TKSJ 41.96 343 eP 16 46.00 0.7

IIDJ 42.42 348 P 16 48.90 -0.2

KAKJ 42.72 351 P 16 52.10 0.7

CHJJ 42.76 350 P 16 52.30 0.4

TSRJ 42.91 346 P 16 53.70 0.7

SHNJ 43.03 340 eP 16 54.00 -0.1

YONJ 43.26 343 eP 16 55.90 0.0

MAT 43.39 349 iPc 16 57.20 0.2

1.0s 60.00nm 5.3mb

Z 21s 1.43um 4.9Msz

eS 23 09.00

MTMJ 43.51 348 P 16 58.50 0.5

NIJJ 43.92 350 P 17 02.00 0.8

SSE 44.90 327 P 17 09.50 0.3

1.0s 42.00nm 5.3mb

Z 24s 2.50um 5.1MszX

N 20s 1.50um

E 20s 1.00um

sP 17 21.00

sS 24 02.00

OIZ 44.95 305 eP 17 10.00 0.1

KGM 45.11 279 eP 17 14.00 2.8X

OFUJ 45.34 353 eP 17 13.90 1.3

NJ2 46.92 326 P 17 26.00 0.9

0.8s 21.00nm 5.2mb

Z 20s 0.95um 4.8Msz

sP 17 40.00

IPM 47.86 282 ePd 17 37.20 4.2X

WHN 48.52 321 eP 17 38.50 0.8

Z 20s 1.25um 4.9Msz

N 20s 1.92um

SNG 48.86 285 eP 17 43.00 2.4

ASAJ 50.24 355 eP 17 55.00 4.3X

TIA 50.99 328 eP 17 55.90 -0.7

Z 24s 2.58um 5.2MszX

E 18s 1.52um

LOE 51.13 298 eP 18 13.00 15.1X

GYA 51.34 311 P 18 00.00 0.4

1.2s 27.00nm 5.1mb

Z 22s 0.93um 4.8Msz

NST 51.90 295 eP 18 05.00 1.2

SNY 52.60 337 iPc 18 08.00 -0.6

Z 28s 2.32um 5.1MszX

E 19s 0.94um

pP 18 22.00 52kmX

S 25 30.00

sS 25 54.00

KHT 52.99 294 eP 17 52.00 -19.9X

MDJ 53.10 344 eP 18 10.50 -1.8

Z 28s 1.59um 4.9MszX

YSS 53.11 356 ePc 18 11.30 -1.0

1.5s 80.00nm 5.5mb

Z 18s 1.00um 4.9Msz

N 18s 0.90um

i 18 26.00 55kmX

(PS) 25 48.00

27d 06h

CN2	53.64	340	eP	18	15.40	-0.9	GBA	72.50	286	P	20	34.10	12.4X	PRU	121.38	327	ePKP	27	47.00	-0.1
	0.6s		5.60nm			4.8mb		0.6s		2.00nm				Z	18s		0.50um			5.2Msz
	18s		1.37um			5.1Msz	WMO	73.39	319	P	20	26.70	0.2	CLL	121.48	328	ePKP	27	47.00	-0.3
	N	14s	0.63um					2.0s		34.00nm		5.0mb					e	28	01.00	
	E	14s	0.32um				Z	22s		0.83um		5.0Msz		KHC	122.36	326	ePKP	27	49.00	-0.1
CHG	54.12	298	eP	18	19.40	-0.8			pP		20	32.70	19kmX				e	27	52.70	
XAN	54.27	320	P	18	19.50	-1.6	ILT	77.57	12	iPd	20	37.70					e	28	03.50	
	1.0s		26.00nm			5.2mb		2.0s		55.00nm		5.2mb		GEC2	122.45	326	ePKP	27	47.90	-1.5
	Z	24s	1.23um			4.9MszX			e		21	01.00	38km				e	27	52.20	
			pP	18	31.00	40km	ELT	78.45	327	iPc	20	53.00	-1.7				e	27	59.00	
			PP	20	29.00			2.2s		60.00nm		5.2mb					e	28	03.50	
			ScS	28	03.00				e		31	07.00		MOX	122.58	328	ePKP	28	01.60	12.2X
BJI	54.39	330	eP	18	21.00	-0.8	TIK	78.61	354	iPc	20	53.00	-2.3	Z	21s		0.60um			5.2Msz
	1.7s		82.00nm			5.5mb		1.8s		33.00nm		5.0mb		VBV	123.23	322	ePKP	27	49.80	-1.0
	Z	19s	1.78um			5.2Msz	Z	18s		0.60um		5.0Msz		GRF	123.33	328	ePKP	28	04.30	13.4X
	N	20s	1.33um						i		21	10.00	61kmX	Z	22s		0.60um			5.2Msz
TIY	54.64	326	eP	18	23.00	-0.8			e		23	53.00		KBA	123.58	324	iPKP	27	55.20	3.4X
	Z	12s	2.29um			5.5MszX	PRZ	79.18	315	eP	20	59.50	0.2				8.90nm			
	N	23s	1.40um					1.6s		80.00nm		5.4mb		WIN	123.94	238	ePKP	27	46.00	-7.2X
	E	24s	2.10um				KSH	80.01	312	P	21	04.40	0.6				72.22nm			
CD2	55.91	314	eP	18	32.00	-1.1		Z	24s		1.35um		5.2mb	MYNC	124.34	51	PKP	28	00.00	6.6X
	Z	20s	0.94um			4.9Msz			PP			5.2MszX		Z	21s		0.60um			5.2Msz
			eS	26	21.80		SVW	80.05	24	eP	21	03.60	0.2				38.10nm			
			esS	26	36.50		TTA	80.88	23	(P)	21	07.39	-0.5				i	28	04.80	
HHC	57.35	328	Pc	18	42.80	-0.5		0.9s		2.51nm		4.2mb X		GOGA	125.38	53	PKP	28	00.00	4.6X
	1.0s		14.00nm			5.0mb	FRU	81.94	315	eP	21	13.00	-0.7	Z	21s		0.58um			5.2Msz
	Z	26s	2.26um			5.2MszX		2.1s		80.00nm		5.4mb		CDF	126.18	328	ePKP	28	08.10	11.4X
	N	12s	0.30um				PMR	83.00	25	eP	21	16.01	-2.7X	BSF	126.79	328	ePKP	28	09.40	11.5X
	E	12s	0.18um					1.0s		17.54nm		5.1mb					16.05nm			
LZH	58.81	319	eP	18	52.50	-1.1		Z	21s		1.31um		5.3Msz	RSNY	126.88	37	PKP	28	10.00	12.0X
	1.6s		75.00nm			5.6mb	IMA	83.42	21	eP	21	20.36	-0.7				0.39um			5.1Msz
	Z	24s	1.50um			5.0MszX		1.0s		6.10nm		4.7mb		HAU	126.92	328	ePKP	28	09.70	11.7X
	E	15s	0.51um						e		21	32.36	40km				11.55nm			
			pP	18	04.00	40km	SPA	83.90	180	iPc	21	22.70	-0.8	Z	23s		0.65um			5.2MszX
HON	59.77	61	P	19	10.00	9.7X		0.6s		69.11nm		6.0mb		CEH	127.89	49	PKP	28	10.00	9.8X
	Z	20s	0.73um			4.8Msz	FBA	85.02	23	eP	21	26.28	-2.6X	Z	22s		0.51um			5.2Msz
AFR	61.94	107	eP	19	16.00	0.9		1.0s		10.92nm		5.0mb		LPL	128.25	326	ePKP	28	12.80	11.9X
PPT	62.13	107	eP	19	17.00	0.6			e		21	39.18	43km	LPG	128.25	326	ePKP	28	13.00	12.0X
PPN	62.27	106	iPd	19	18.00	0.7	QUE	85.16	301	eP	21	32.00	1.4	LOR	128.68	329	ePKP	28	13.40	12.0X
TVO	62.45	107	eP	19	20.00	1.4	INK	91.51	21	eP	22	14.00	14.2X				20.55nm			
SMY	62.77	18	P	19	30.00	10.0X	SVE	93.51	327	ePd	22	07.50	-1.7	Z	23s		0.85um			5.4MszX
	Z	20s	1.63um			5.2Msz		2.9s		50.00nm		5.4mb		LBF	128.80	329	ePKP	28	13.50	11.9X
GTA	63.33	320	P	19	23.50	-0.7		Z	19s		0.60um		5.1Msz	SSF	129.00	329	ePKP	28	14.10	12.2X
	1.6s		44.00nm			5.3mb		N	20s		0.30um			CBM	129.01	31	PKP	28	10.00	8.1X
	Z	26s	1.06um			4.9MszX		E	20s		0.50um			SMF	129.10	328	ePKP	28	14.10	11.9X
			pP	19	34.50	36km	WDC	93.72	50	P	22	20.00	9.4X				13.80nm			
VAH	63.94	104	iPd	19	28.20	-0.1		Z	20s		0.74um		5.1Msz	BGF	129.67	329	ePKP	28	15.40	12.2X
TPT	63.95	104	iPd	19	28.40	0.0	SAO	94.26	54	P	22	20.00	6.8X				19.05nm			
RUV	64.18	104	iPd	19	30.10	0.2		Z	19s		0.81um		5.2Msz	HRV	129.82	38	PKP	28	10.00	6.4X
CIT	64.84	337	eP	19	35.00	1.3	CMB	95.20	52	P	22	30.00	12.5X	Z	19s		0.52um			5.2Msz
LSA	64.93	307	eP	19	34.40	-0.8		Z	19s		0.59um		5.1Msz	LPF	130.51	333	ePKP	28	17.10	12.4X
	0.7s		3.00nm			4.5mb	ISA	96.59	55	P	22	30.00	6.1X				17.35nm			
CSY	65.34	196	eP	19	35.70	-0.9		Z	19s		0.60um		5.1Msz	NNA	132.13	112	ePKP	28	18.50	9.6X
	0.3s		24.70nm			5.8mb	MBC	96.61	14	eP	22	35.00	11.9X				39.06nm			
MGD	66.07	2	ePc	19	52.00	10.7X	YKA	98.94	28	eP	22	31.20	-2.6X	CNCB	137.94	123	PKP	27	58.70	-21.8X
	1.0s		50.00nm					1.2s		1.00nm		4.2mb X	LPB	137.98	123	PKP	28	02.00	-18.4X	
	Z	18s	0.90um			5.0Msz	DUG	101.13	50	Pdiff	22	50.00	5.5X	ZOBO	138.09	123	PKP	28	04.60	-16.2X
	N	18s	0.80um					Z	19s		0.50um		5.0Msz				84.46nm			
			e	20	04.00	41km	TUC	102.93	58	Pdiff	23	00.00	7.4X				LR	07	44.00	
			e	28	28.00			Z	21s		0.84um		5.2Msz	CCH	139.16	125	PKP	28	14.10	-8.3X
ZAK	68.12	331	iPc	19	54.20	-0.3	ALO	106.42	56	PKP	27	30.00	10.5X	SDV	141.85	83	ePKP	28	21.40	-5.8X
	1.6s		69.00nm			5.5mb		Z	19s		0.43um		5.0Msz	TOV	142.65	82	ePKP	28	23.70	-4.7X
	Z	17s	1.62um			5.3MszX	GOL	106.87	50	PKP	27	30.00	9.8X	MORO	144.03	80	iPKP	28	27.90	-2.8X
	N	18s	0.60um					Z	19s		0.52um		5.1Msz	CEOS	144.12	83	iPKP	28	27.10	-3.8X
	E	19s	2.02um				RSSD	107.30	46	PKP	27	30.00	9.1X	GUAC	145.10	81	iPKP	28	31.80	-0.8
			e	20	05.70	38km		Z	19s		0.84um		5.3Msz	CAR	145.42	80	iPKPc	28	20.00	-13.1X
			eS	29	13.00		WMOK	112.72	55	PKP	27	40.00	8.9X	OLLA	145.57	81	iPKP	28	33.20	-0.2
			eSS	33	15.00			Z	19s		1.01um		5.4Msz	PPD	146.34	147	iPKPc	28	34.50	0.1
GUN	68.58	303	P	19	57.00	-1.2											e	28	35.80	
PKI	68.86	303	P	19	58.60	-1.4	PRY	113.57	237	ePKP	27	33.00	-0.2				e	28	48.40	
KKN	69.04	303	P	19	59.40	-1.5	BLF	113.84	235	e(PKP)	27	40.70	7.0X	CACB	148.92	153	ePKP	28	40.20	1.6
DMN	69.12	302	P	20	00.40	-1.1	FRS	114.29	234	ePKP	27	26.00	-8.3X				e	28	42.10	
BOD	69.32	342	eP	20	12.10	10.4X	APO	115.64	337	ePKP	27	33.30	-2.6X				e	28	46.00	
	1.3s		67.00nm					0.5s		1.30nm							e	29	00.30	
YAK	69.37	351	eP	20	00.00	-2.0	MIAR	116.98	54	PKP	27	50.00	10.7X				e	29	00.30	
	1.2s		191.00nm			6.0mb		Z	19s		0.65um		5.2Msz	TCE	150.47	79	ePKP	28	44.96	4.0X
			i	20	23.00	89kmX	CER	117.36	228	ePKP	27	39.00	-1.1	TPP	150.80	80	ePKP	28	47.89	6.4X
			e	29	24.00			1.0s		40.00nm							e	28	59.92	
GKN	69.64	303	P	20	02.80	-1.7	SLM	118.60	49	PKP	27	50.00	7.8X	TRN	150.81	79	iPKP	28	46.51	5.1X
MOY	70.07	331	eP	20	07.20	0.8		Z	19s		0.68um		5.3Msz				e	28	58.54	
	1.0s		42.00nm			5.4mb	FVM	118.64	50	PKP	27	50.00	7.7X	CDCB	151.06	155	ePKP	28	48.	

LIC 152.95 272 PKP 28 45.52 0.9
Z 20s 0.31um 5.1msz
BAO 153.33 144 iPKPd 28 45.60 0.4
i 28 52.90
i 29 05.80
S.D. = 1.0 on 117 of 186 obs.

& APR 27, 1993 07h 18m 09.46s
34.065 N 117.275 W
DEPTH = 15.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS), 3.0 (GS).
Felt (IV) at Bloomington and
(III) at San Bernardino. Also
felt at Highland, Rialta and
Riverside.

PEC 0.20 151 iPd 18 13.95 -0.4
SSK 0.38 293 iPe 18 16.71 -0.7
eS 18 22.53
PLM 0.79 154 iPe 18 23.70 -0.8
eS 18 34.68
GSC 1.29 17 iPd 18 32.23 -0.7
ISA 1.87 329 eP 18 40.10 -1.2
eS 19 07.03
GLA 2.28 116 eP 18 44.54 -2.6
TPNV 3.00 16 ePn 18 56.77 -0.6
MEMM 3.84 340 ePn 19 10.06 0.9
ePg 19 19.15
ARUT 4.85 39 eP 19 22.23 -1.4
9 obs. associated

APR 27, 1993 08h 08m 19.66± 0.53s
10.886 N ± 8.5km 86.533 W ± 8.8km
DEPTH = 33.0km (normal)
4.6mb (11 obs.) 4.0msz (1 obs.)
OFF COAST OF COSTA RICA (77)

DVD 4.70 121 eP 09 30.54 0.4
eS 09 56.27
ECO 6.90 102 ePc 10 00.50 -0.7
UPA 7.15 105 eP 10 04.63 0.0
OXX 11.65 303 (P) 11 12.00 5.1X
IISM 13.21 309 (P) 11 30.50 3.0X
PPM 14.23 306 iP 11 46.25 4.8X
III 14.56 302 iP 11 51.00 5.5X
SDV 15.79 96 eP 12 02.20 0.7
TOV 16.51 92 ePc 12 24.00 13.5X
eP 13 12.00
MRX 16.63 304 (P) 12 26.50 14.6X
GOGA 22.60 7 eP 13 19.48 0.8
1.2s 40.88nm 4.8mb
PRM 23.40 9 eP 13 27.58 1.0
LHS 24.06 12 eP 13 33.49 0.6
MYNC 24.18 5 eP 13 35.01 0.9
1.0s 19.86nm 4.6mb
UYO 24.28 344 iPd 13 35.10 0.0
MIAR 24.41 346 iPd 13 36.31 0.0
0.7s 22.44nm 4.8mb
GBTN 24.76 5 eP 13 39.91 0.2
e 13 51.46
TKL 24.79 5 eP 13 41.47 1.5
OLY 24.91 350 eP 13 40.35 -0.8
e 13 51.46
CEH 25.79 14 eP 13 49.13 -0.3
0.8s 19.51nm 4.8mb
FNO 26.20 340 iPe 13 52.40 -0.8
MEO 26.20 337 iPe 13 52.60 -0.7
WMOK 26.24 337 eP 13 52.76 -0.8
0.9s 72.53nm 5.3mb
i 13 56.17
e 14 04.90
ELC 26.40 355 eP 13 53.46 -1.5
OCO 26.47 340 e(P) 13 56.50 0.8
CVL 27.94 14 eP 14 08.05 -0.9
ACO 28.11 338 iPe 14 08.60 -2.0
ZOBO 32.55 146 P 14 59.00 8.2X
Z 18s 0.28um 4.0msz
LR 26 00.00
LPB 32.78 146 eP 14 53.00 0.4
CNCB 33.07 146 P 14 51.00 -4.3X
e 17 40.00
GOL 33.22 333 eP 14 55.66 -0.4
0.7s 5.19nm 4.5mb
ePcP 17 39.27
CCH 34.57 144 eP 15 10.00 2.0
SRU 35.31 327 eP 15 14.72 0.7

MSU 35.80 325 eP 15 19.57 1.3
ePcP 17 45.30
EMUT 35.97 327 eP 15 19.72 0.0
RSSD 36.40 339 eP 15 22.90 -0.3
0.7s 5.48nm 4.6mb
ePcP 17 47.47
DAU 36.64 328 eP 15 26.52 1.2
e 15 36.15
ePcP 17 49.47
GSC 36.70 316 eP 15 26.99 1.4
BW06 37.57 332 eP 15 32.54 -0.5
0.8s 4.33nm 4.4mb
ePcP 17 51.15
LMN 39.47 24 eP 15 50.00 1.4
ULM 40.00 351 eP 15 52.50 -0.4
LCCM 41.00 333 eP 16 01.30 -0.1
DPW 45.45 330 eP 16 37.24 -0.1
BAO 46.37 124 eP 16 42.80 -2.3
PPD 47.58 134 eP 16 53.00 -1.5
FCC 48.12 355 eP 16 58.00 -0.1
FRB 54.30 10 eP 17 41.50 -3.2X
YKA 55.35 345 eP 17 49.00 -3.4X
0.8s 4.00nm 4.5mb
INK 64.96 343 eP 18 58.00 0.0
1.0s 4.00nm 4.5mb
MBC 67.68 352 eP 19 13.00 -2.3
1.0s 2.00nm 4.2mb
WB2 139.66 252 iPKPc 27 49.90 3.1X
0.5s 3.20nm
WRA 139.67 252 PKP 27 48.50 1.7X
0.7s 1.30nm
GBA 150.93 34 PKP 28 07.00 1.5
S.D. = 1.1 on 41 of 53 abs.

APR 27, 1993 08h 12m 27.43± 0.70s
53.975 S ± 8.4km 159.403 E ± 6.5km
DEPTH = 10.0km (geophysicist)
4.5mb (7 abs.)

MACQUARIE ISLANDS REGION (167)
MCQ 0.59 206 iPe 12 39.50 0.2
eS 12 45.30
SIZ 9.03 42 P 14 39.60 -1.0
eS 16 16.40
BCZ 9.64 38 P 14 49.20 0.1
TUZ 10.38 43 P 14 59.20 0.0
eS 16 50.20
TLC 10.79 39 eP 15 04.80 -0.3
CMCZ 10.90 40 eP 15 06.80 0.3
SBCZ 10.97 40 eP 15 07.80 0.4
MHZ 10.98 40 eP 15 07.00 -0.6
BWZ 11.66 40 eP 15 17.90 1.2
TOO 19.00 324 eP 16 52.00 0.6
0.8s 21.00nm 4.4mb
CNB 19.94 335 eP 17 02.70 0.5
1.0s 28.00nm 4.5mb
CAN 20.03 334 eP 17 03.50 0.4
i 17 06.00
BFD 20.44 318 eP 17 07.80 0.4
1.0s 18.00nm 4.4mb
BWA 21.02 334 eP 17 11.50 -2.0
i 17 13.10
i 17 27.50
ADE 23.91 314 iPd 17 43.30 1.3
ARMA 24.20 343 eP 17 47.80 2.8X
CMS 24.50 331 eP 17 49.10 1.4
STK 25.50 323 eP 17 57.60 0.3
2.0s 1.60nm 3.4mb X
CTA 35.30 338 iPe 19 25.00 0.6
1.0s 15.00nm 4.8mb
ASPA 35.81 318 iPe 19 27.70 -1.1
1.0s 14.40nm 4.8mb
WB2 39.01 321 iPe 19 54.00 -1.6
1.1s 8.00nm 4.3mb
WRA 39.01 321 P 19 54.50 -1.2
1.1s 6.20nm 4.2mb
INK 131.57 27 ePKP 31 31.50 -8.8X
1.0s 2.00nm
OBN 147.59 296 iPKPd 32 12.60 3.1X
1.0s 21.00nm
MLR 149.24 273 ePKP 32 16.50 3.9X
MDI 158.95 259 PKP 32 12.70 -12.8X
eSg 32 15.50
S.D. = 1.0 on 21 of 26 abs.

* APR 27, 1993 08h 19m 32.54± 2.52s
32.159 S ± 12.5km 68.483 W ± 13.1km
DEPTH = 116.1 ± 30.1 km
MENDOZA PROVINCE, ARGENTINA (139)

RTCV 0.30 351 iPe 19 49.20 -0.3
S 20 00.00
CFA 0.59 21 ePc 19 51.00 0.1
S 20 04.70
RTCB 0.72 338 iPe 19 51.70 -0.4
S 20 30.00
MDZ 0.79 203 i(P) 19 53.00 0.4
RTBS 0.96 301 eP 19 54.50 0.4
MRA 2.36 97 iPe 20 11.20 0.3
S 20 40.00
RFA 2.61 180 iPd 20 13.80 -0.4
S.D. = 0.5 on 7 of 7 abs.

APR 27, 1993 08h 39m 05.75± 2.50s
16.489 S ± 8.2km 174.006 W ± 5.4km
DEPTH = 58.7 ± 22.1 km
5.1mb (29 abs.)
TONGA ISLANDS (173)

VUN 7.35 257 eP 41 02.70 9.8X
DZM 19.26 250 iPd 43 30.00 1.4
OUZ 21.70 208 eP 43 55.90 2.5
KUZ 22.14 202 eP 43 59.10 1.3
URZ 23.05 198 P 44 05.20 -1.5
NOZ 23.13 196 P 44 08.80 1.4
0.8s 44.00nm 4.9mb
AFR 23.19 96 eP 44 09.00 0.8
PAE 23.38 96 eP 44 10.00 0.0
PPT 23.38 96 eP 44 10.00 -0.1
PPN 23.52 96 eP 44 11.00 -0.4
TVO 23.69 97 eP 44 14.00 0.9
VAH 25.40 91 iPd 44 29.40 0.0
PGZ 25.48 197 P 44 29.30 -0.7
RUV 25.64 91 iPd 44 31.80 0.1
MNG 25.71 199 P 44 32.50 0.3
e 45 05.10
QRZ 26.91 203 P 44 43.00 -0.2
KHZ 27.96 200 P 44 49.70 -2.9X
DSZ 27.98 203 eP 44 50.90 -2.0
LTZ 28.71 201 P 44 56.20 -3.3X
BRS 32.57 245 iP 45 35.00 1.3
e 47 52.00
ARMA 34.29 240 iPe 45 48.70 0.0
0.5s 11.00nm 5.0mb
RMO 35.94 248 eP 46 03.20 0.5
0.5s 7.00nm 4.8mb
CNB 37.63 233 iPe 46 16.50 -0.3
0.7s 25.00nm 5.3mb
CAN 37.91 233 eP 46 18.30 -0.9
BWA 38.07 235 eP 46 17.50 -3.0X
CMS 39.38 240 iPd 46 31.10 -0.3
0.6s 12.00nm 4.9mb
QLP 39.97 248 eP 46 35.70 -0.6
TOO 41.33 231 iPd 46 47.00 -0.4
0.6s 40.00nm 5.4mb
STK 43.00 241 iPd 47 01.30 0.2
0.9s 10.10nm 4.6mb
BFD 43.45 233 eP 47 03.00 -1.7
WB2 49.02 258 eP 47 47.80 -1.2
0.3s 7.00nm 5.2mb
ASPA 49.23 253 eP 47 49.70 -0.8
0.6s 57.00nm 5.8mb
e 48 15.10
WARB 55.72 249 iPe 48 37.60 -1.3
KLB 63.22 243 eP 49 29.00 -1.5
0.6s 8.00nm 5.0mb
SSK 73.55 46 (P) 50 34.52 -0.2
SPA 73.61 180 iPd 50 35.10 0.6
0.6s 34.55nm 5.5mb
PLM 73.66 47 eP 50 33.55 -1.8
PEC 73.75 47 iP 50 35.33 -0.3
0.6s 19.70nm 5.2mb
ISA 73.83 44 ePc 50 36.32 0.2
0.9s 17.47nm 5.0mb
e 50 45.28
CMB 73.96 41 eP 50 36.54 -0.3
0.8s 16.83nm 5.0mb
ORV 74.18 40 eP 50 37.48 -0.5
YSS 74.20 331 (P) 50 38.00 0.1
MEMM 74.67 42 eP 50 41.36 0.5
GSC 74.76 45 eP 50 41.25 -0.3
GLA 74.95 48 eP 50 42.75 0.1

27d 08h

LBFM	75.05	38	ePc	50	43.37	0.1	VRAC	146.15	348	ePKP	58	41.10	1.3		0.9s	71.10nm				
KVN	76.01	42	eP	50	48.87	0.1		0.9s	39.90nm					TCF	150.12	5	iPKPc	58	51.40	5.2X
KDC	76.08	12	eP	50	48.40	0.0	TNS	146.29	357	iPKPc	58	41.20	1.1		1.1s	52.25nm				
TUC	77.53	51	iPc	50	58.00	0.8	DOU	146.46	2	PKPc	58	41.80	1.5X	TRI	150.15	349	PKP	58	51.00	4.8X
	0.7s	28.53nm			5.4mb		MLR	146.60	334	ePKPd	58	43.00	2.1X	CTI	150.15	352	PKP	58	51.20	4.8X
SHW	77.91	34	eP	50	59.49	0.5	GRF	146.61	354	iPKPc	58	42.80	2.2X	MAF	150.22	5	iPKPc	58	52.00	5.7X
VGB	78.27	35	eP	50	59.93	-1.0	KHC	146.86	351	iPKP	58	43.40	2.4X		1.0s	82.05nm				
ARUT	78.38	45	eP	51	02.05	0.2		1.1s	50.00nm				TMA	150.37	356	iPKPc	58	52.20	5.4X	
LON	78.49	34	eP	51	00.41	-1.7		e	58	55.80			RIY	150.38	348	iPKPc	58	51.70	5.1X	
SVW	78.72	9	ePc	51	02.50	-0.6		e	59	01.50			MBH	150.43	302	ePKP	58	53.30	6.0X	
PGC	78.87	31	ePd	51	04.00	0.0		e	59	15.50			DIX	150.47	358	ePKPc	58	53.40	6.3X	
	0.7s	28.00nm			5.3mb		WLF	146.91	360	iPKPc	58	43.71	2.7X	MMK	150.48	357	ePKPc	58	53.20	6.1X
MSU	79.61	45	iPc	51	09.25	0.6		0.9s	113.00nm			EMS	150.50	359	iPKPc	58	53.10	6.1X		
DUG	80.05	43	ePd	51	10.57	-0.3	ZST	147.09	346	iPKPc	58	44.00	2.6X	VAI	150.62	356	PKP	58	52.40	5.5X
	1.2s	34.19nm			5.2mb			e	59	15.50		MDI	150.63	355	PKP	58	51.70	4.8X		
PMR	80.30	12	iPd	51	10.76	-0.7	GEC2	147.12	351	ePKPc	58	43.60	2.0X	ORO	150.90	357	PKP	58	53.30	5.8X
	1.1s	38.38nm			5.2mb			0.8s	28.35nm			PLE	150.91	340	iPKPc	58	53.41	5.8X		
TTA	80.41	8	ePc	51	12.80	0.7	SRO	147.15	345	ePKP	58	43.70	2.2X	RJF	151.03	7	iPKPc	58	53.70	6.1X
HVU	80.90	42	ePc	51	15.47	0.2	VKA	147.20	347	iPKPc	58	44.40	2.8X		1.0s	27.60nm				
SRU	81.02	45	ePc	51	16.36	0.3	FLN	147.38	8	iPKPc	58	44.10	2.3X	LPL	151.05	359	iPKPc	58	54.80	6.9X
DPW	81.11	34	ePc	51	16.03	-0.1		0.8s	124.65nm					0.7s	35.30nm					
EMUT	81.18	44	eP	51	17.08	0.2	LDF	147.59	8	iPKPc	58	44.60	2.4X	LPG	151.07	359	iPKPc	58	55.00	7.0X
DAU	81.18	43	ePc	51	17.06	0.0		0.6s	45.80nm					0.8s	46.35nm					
CN2	81.54	320	eP	51	20.40	2.0	HOFF	147.59	358	PKP	58	45.37	3.2X	LSD	151.10	358	PKP	58	54.64	6.6X
	0.6s	4.70nm			4.6mb		GRR	147.69	9	iPKPc	58	45.20	2.9X	IVA	151.15	339	iPKPc	58	53.93	6.0X
	eSP	51	33.00					0.7s	10.70nm			LFF	151.29	8	ePKP	58	54.40	6.4X		
NEW	81.93	34	eP	51	19.31	-1.0	LPF	148.02	9	iPKPc	58	46.10	3.3X		0.8s	38.70nm				
	0.7s	12.71nm			5.0mb			0.8s	145.60nm			PVY	151.36	338	iPKPc	58	54.36	6.0X		
ALQ	81.94	50	eP	51	21.02	0.1	WLS	148.14	358	PKP	58	46.48	3.3X	RSP	151.41	358	PKP	58	54.64	6.3X
	0.8s	20.95nm			5.2mb		CDF	148.15	358	PKP	58	46.65	3.5X	VAY	151.42	333	ePKP	58	54.00	5.7X
BW06	83.47	42	iPc	51	28.18	-0.5	BHG	148.34	351	iPKPc	58	47.10	3.7X	CAF	151.46	6	iPKPc	58	54.90	6.6X
	0.8s	54.74nm			5.6mb		ECH	148.35	359	PKP	58	46.90	3.5X		0.9s	23.25nm				
FBA	83.57	11	iPc	51	27.85	-0.5	VITF	148.36	0	PKP	58	47.16	3.7X	NKY	151.51	340	iPKPc	58	54.43	5.9X
	0.8s	46.65nm			5.6mb		LIBD	148.40	358	PKP	58	47.39	3.9X	BNI	151.52	359	PKP	58	56.10	7.6X
LCCM	83.58	38	iPc	51	29.20	0.1	HRI	148.42	307	ePKP	58	48.40	4.3X	BRY	151.58	340	iPKPc	58	54.50	5.8X
IMA	83.72	8	iPc	51	29.40	0.1	HAU	148.57	360	iPKPc	58	47.80	4.0X	LPO	151.60	7	iPKPc	58	55.00	6.5X
	0.7s	7.72nm			4.8mb			0.9s	63.70nm					0.5s	8.15nm					
ILT	84.22	358	iPc	51	32.00	0.5	FEL	148.66	357	PKP	58	47.58	3.5X	RRL	151.65	359	PKP	58	55.92	7.1X
	1.0s	24.00nm			5.2mb		BSF	148.74	359	PKP	58	47.76	3.6X	BOB	151.66	355	PKP	58	55.20	6.6X
GOL	84.82	46	eP	51	34.38	-1.2	SLE	148.74	357	ePKPc	58	47.90	3.8X	BHB	151.72	358	PKP	58	55.95	5.3X
	1.2s	34.90nm			5.3mb		KBA	148.90	350	iPKPc	58	47.80	3.2X	TTG	151.76	339	iPKPc	58	55.01	6.3X
RSSD	87.65	43	eP	51	48.24	-1.1		0.8s	19.80nm				HVAR	151.94	344	ePKP	58	54.80	5.8X	
	0.8s	17.13nm			5.3mb		WATA	148.90	353	iPKPc	58	48.30	3.8X	PCP	151.95	356	PKP	58	54.87	5.8X
MEO	87.79	53	iPd	51	49.10	-0.8	MOTA	148.94	353	iPKPc	58	48.50	3.9X	HCV	152.00	340	iPKPc	58	55.21	6.1X
ACO	88.08	51	iPd	51	51.10	-0.1		0.8s	32.50nm				BDV	152.04	339	iPKPc	58	55.51	6.3X	
XAN	88.79	306	eP	51	56.00	1.2	WTTA	148.96	353	iPKPc	58	48.50	3.8X	PZZ	152.06	358	PKP	58	55.01	5.7X
INK	89.46	14	eP	51	58.50	1.4		0.6s	48.10nm			ULC	152.17	339	iPKPc	58	55.69	6.3X		
YKA	91.32	24	eP	52	04.50	-1.3		i	59	00.30		SFI	152.21	351	PKP	58	57.00	7.7X		
	1.0s	6.30nm			5.0mb		ZLA	149.03	357	ePKPc	58	48.70	4.1X	ROB	152.24	357	PKP	58	55.56	6.1X
PEL	91.83	125	iP+	52	10.50	1.5X	SQTA	149.05	353	iPKPc	58	48.70	4.0X	BDI	152.24	353	PKP	58	55.10	5.6X
OLY	93.52	54	ePc	52	16.59	0.1		0.7s	22.50nm			PGD	152.27	351	PKP	58	56.90	7.2X		
FVM	95.05	52	eP	52	22.71	-0.8	BBS	149.09	358	PKP	58	48.99	4.3X	FIN	152.30	357	PKP	58	55.56	6.0X
MBC	98.11	11	eP	52	36.50	0.0	HYF	149.18	4	iPKPc	58	49.60	4.8X	STV	152.31	358	PKP	58	55.19	5.6X
	0.8s	2.00nm			4.7mb		LOMF	149.22	359	PKP	58	49.20	4.3X	ENR	152.32	358	PKP	58	55.19	5.5X
FCC	98.81	31	eP	52	41.50	1.5	LOR	149.26	3	iPKPc	58	49.60	4.7X	OHR	152.33	335	iPKPc	58	57.00	7.3X
KAF	132.22	347	ePKP	58	03.00	-11.2X		0.9s	56.00nm					1.0s	83.00nm					
	0.6s	6.80nm					SSF	149.45	3	iPKPc	58	50.10	5.0X	FIR	152.43	352	ePKP	58	56.50	6.9X
NUR	134.02	347	ePKP	58	06.00	-11.7X		0.9s	74.05nm				ARV	152.44	349	PKP	58	57.20	7.5X	
NB2	135.35	356	PKP	58	07.30	-13.0X	FVI	149.46	351	PKP	58	49.20	4.1X	TOUF	152.54	358	PKP	58	57.36	7.3X
	0.7s	0.80nm					RBL	149.48	350	PKP	58	49.30	4.0X	AUTN	152.55	358	PKP	58	57.05	6.9X
HFS	136.06	354	ePKP	58	06.50	-15.1X	PTJ	149.52	346	ePKP	58	49.60	4.2X	SAOF	152.56	358	PKP	58	57.75	7.9X
	0.4s	1.70nm					MFF	149.54	8	iPKPc	58	50.00	4.7X	IMI	152.62	357	PKP	58	56.93	6.9X
OJC	144.56	345	iPKP	58	35.50	-1.6		1.2s	61.90nm			AURF	152.67	358	PKP	58	57.75	7.6X		
CLL	144.81	352	iPKPc	58	36.00	-1.5	LBF	149.55	3	iPKPc	58	50.20	4.8X	SBF	152.69	358	iPKPc	58	57.10	7.0X
	0.7s	34.00nm						0.9s	50.45nm				0.8s	48.90nm						
RAC	145.07	346	ePKP	58	38.00	0.0	ZAG	149.59	346	ePKP	58	50.00	4.6X	LRG	153.12	359	ePKP	58	58.50	7.9X
BRG	145.11	351	iPKPc	58	37.10	-0.9	LLS	149.61	356	ePKPc	58	50.60	4.9X	LMR	153.24	359	iPKPc	58	58.70	7.9X
	0.8s	20.00nm					LJU	149.68	348	e(PKP)	58	45.50	0.0		0.8s	13.15nm				
	i	59	22.00					ePKPbc	58	50.40			LIC	165.15	132	PKP	59	05.00	-0.1	
UZH	145.28	341	iPKPc	58	39.40	1.0		e	59	19.50			TIC	165.44	131	PKP	59	05.40	0.0	
	1.0s	90.00nm					OSS	149.69	354	iPKPc	58	50.90	5.1X	KIC	165.45	133	PKP	59	05.20	-0.2
	i	58	46.70				AVF	149.71	4	iPKPc	58	50.30	4.8X		S.D. = 1.0 on 102 of 217 obs.					
PPE	145.31	333	ePKP	58	39.00	0.5		1.1s	46.15nm					% APR 27, 1993 08h 54m 33.93±1.1s						
SPC	145.38	343	iPKPc	58	43.70	4.9X	MKT	149.79	304	ePKP	58	51.90	5.7X		43.072 N ±18.2km					
	0.8s	37.40nm					VOY	149.81	349	ePKP	58	45.80	-0.1		0.604 W ±6.8km					
BNS	145.60	359	iPKPc	58	39.20															

27d 08h

MADF 0.17 295 Pg 54 37.84 0.0
S.D. = 0.5 on 5 of 5 obs.

% APR 27, 1993 08h 59m 02.50 ± 1.19s
39.107 N ± 6.3km 16.678 E ± 10.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI 0.44 285 P 59 12.50 1.1
ACI 0.44 304 P 59 11.00 -0.5
ROI 0.47 350 P 59 11.60 -0.5
TDS 0.61 335 P 59 14.10 -0.7
eSg 59 22.70

CSJ 0.73 336 P 59 16.40 -0.5
MMN 0.95 326 P 59 20.60 0.1
SOI 1.14 205 P 59 23.40 -0.5
eSg 59 41.10

MGR 1.35 320 P 59 27.70 0.4
BRT 1.81 13 P 59 35.00 1.0
S.D. = 0.8 on 9 of 9 obs.

* APR 27, 1993 09h 06m 24.74 ± 0.84s
9.553 S ± 17.5km 159.625 E ± 16.8km
DEPTH = 33.0km (normal)
4.3mb (8 obs.)
SOLOMON ISLANDS (193)
Felt (III) at Honiara.

HNR 0.34 69 iPc 06 33.60 0.6
iS 06 42.90

CTA 16.62 229 iPc 10 23.00 6.0X
1.0s 12.50nm 4.0mb

BRS 18.89 199 eP 10 45.00 -0.1

RMO 19.74 210 iPd 10 55.50 0.7
0.9s 83.00nm 5.0mb

ARMA 22.06 199 eP 11 19.00 0.4
0.8s 11.00nm 4.3mb

QLP 22.34 219 eP 11 21.80 0.5

CMS 25.31 208 eP 11 49.80 -0.2
0.7s 7.00nm 4.4mb

WB2 26.49 244 eP 12 02.20 1.0
0.7s 8.00nm 4.4mb

STK 27.81 214 eP 12 11.30 -1.7
0.7s 1.70nm 3.8mb

TOO 30.67 202 eP 12 38.30 -0.3
0.9s 14.00nm 4.8mb

YKA 96.44 28 eP 19 50.70 -0.8
0.8s 0.70nm 4.2mb

S.D. = 0.9 on 10 of 11 obs.

* APR 27, 1993 09h 51m 07.14 ± 2.04s
36.431 N ± 20.2km 71.093 E ± 9.9km
DEPTH = 126.0 ± 27.3 km
4.4mb (10 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG. (717)

QUE 7.13 210 eP 52 50.50 0.1
eS 54 10.50

MAIO 9.36 273 iPc 53 20.50 0.2
0.8s 16.47nm 4.8mb

GKN 14.20 122 P 54 24.20 0.4
0.6s 29.00nm 4.7mb

DMN 14.77 123 P 54 31.80 0.6
0.5s 20.00nm 4.7mb

KKN 14.78 122 P 54 30.08 -1.1
0.6s 20.00nm 4.6mb

PKI 15.00 122 P 54 34.20 0.1
0.5s 9.00nm 4.3mb

GUN 15.12 120 P 54 35.40 -0.2
0.5s 13.00nm 4.5mb

KAF 37.72 327 P 58 09.30 -2.4

HFS 43.17 322 eP 58 56.90 0.5
0.6s 3.00nm 4.2mb

NB2 44.48 323 P 59 07.40 0.3
0.6s 3.40nm 4.2mb

MBC 67.40 3 eP 01 51.50 1.2

YKA 81.31 3 eP 03 10.80 0.7
0.5s 0.40nm 3.5mb

WB2 81.90 122 eP 03 13.40 -0.5
0.4s 2.20nm 4.3mb

S.D. = 1.1 on 13 of 13 obs.

% APR 27, 1993 09h 55m 36.29 ± 3.26s
44.157 N ± 14.7km 6.988 E ± 20.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 1.9 (GEN).

STV 0.26 70 P 55 41.76 0.0
S 55 46.20

ENR 0.32 77 P 55 42.99 0.0
S 55 47.94

PZZ 0.36 13 P 55 43.86 0.2
S 55 49.77

ROB 0.65 77 P 55 49.28 -0.1
S 55 57.18

IMI 0.70 110 P 55 50.13 0.0

BHB 0.71 16 P 55 50.18 -0.2
S.D. = 0.1 on 6 of 6 obs.

* APR 27, 1993 10h 08m 03.47 ± 0.83s
6.981 N ± 12.2km 76.770 W ± 8.5km
DEPTH = 33.0km (normal)
NORTHERN COLOMBIA (99)

UPA 3.38 306 ePd 08 55.12 -0.1
eS 09 34.82

ECO 3.74 309 ePd 09 00.39 0.1
eS 09 42.48

SDV 6.37 72 iPnd 09 39.30 1.6
iSn 10 49.70

TOV 7.44 68 eP 09 52.90 0.2

CEOS 8.60 76 iP 10 06.80 -2.0

ZOBO 24.63 160 P 13 23.00 -0.1

CNCB 25.19 160 P 13 28.80 0.4
S.D. = 1.3 on 7 of 7 obs.

% APR 27, 1993 10h 19m 51.10 ± 0.65s
44.322 N ± 4.3km 8.264 E ± 5.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN).

FIN 0.12 200 P 19 54.20 0.1
S 19 56.55

ROB 0.28 265 P 19 57.00 -0.1
S 20 00.89

PCP 0.30 42 P 19 57.34 0.0
S 20 01.85

IMI 0.49 213 P 20 01.18 0.1
S 20 08.08

ENR 0.61 261 P 20 03.20 -0.3
S 20 11.69

STV 0.68 264 P 20 04.65 0.0
S 20 13.60

PZZ 0.85 283 P 20 07.83 0.2
S 20 18.50

BHB 0.88 306 P 20 08.35 0.3

RSP 1.10 319 P 20 11.79 0.0

RRL 1.21 300 P 20 13.98 0.1

LSD 1.38 326 P 20 16.41 -0.2
S.D. = 0.2 on 11 of 11 obs.

% APR 27, 1993 10h 36m 37.86 ± 0.91s
43.951 N ± 10.4km 11.771 E ± 4.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.07 117 Pd 36 39.30 -0.9
eSg 36 40.80

PGD 0.08 205 Pc 36 40.20 -0.3
eSg 36 42.50

CRE 0.35 158 Pd 36 44.40 -0.7
eSg 36 50.90

RSM 0.49 92 P 36 47.90 0.0
eSg 36 55.60

BDI 0.85 278 P 36 54.00 -0.4
eSg 37 07.10

PII 0.93 256 P 36 56.40 0.8
eSg 37 08.20

ARV 0.96 118 P 36 57.00 0.8
eSg 37 10.00

ASS 1.09 143 P 36 59.00 0.6
eSg 37 15.00

S.D. = 0.8 on 8 of 8 obs.

APR 27, 1993 11h 10m 58.11 ± 2.37s
6.236 S ± 10.6km 147.857 E ± 20.4km
DEPTH = 72.4 ± 21.9 km
4.4mb (8 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

MDG 2.29 295 eP 11 34.80 0.5

CTA 13.86 186 iPc 14 19.00 6.3X

WB2 18.92 223 eP 15 13.20 -2.9X
0.6s 6.20nm 4.0mb

RMO 20.16 178 iPd 15 29.00 -0.2
0.7s 36.00nm 4.8mb

QLP 20.53 189 iPd 15 32.00 -0.9

BRS 21.55 168 iPc 15 42.50 -0.8
1.0s 4.00nm 3.8mb

ASPA 21.92 216 iPd 15 46.40 -0.6
0.4s 34.40nm 5.1mb

Z 22s 0.20um 3.5msz
eS 19 44.80

ARMA 24.32 172 eP 16 10.70 0.3
0.6s 4.00nm 4.0mb

CMS 25.19 184 eP 16 20.20 1.7

STK 26.18 192 eP 16 27.30 -0.3
0.4s 4.40nm 4.3mb

WARB 28.34 223 eP 16 47.50 0.1

MRWA 37.77 229 eP 18 09.00 0.0
0.4s 3.00nm 4.6mb

MAT 43.50 349 eP 18 55.00 -1.1
1.2s 21.88nm 4.9mb

CNCB 137.81 123 ePKP 29 57.00 -20.7X

ZOBO 137.96 123 ePKP 30 00.00 -18.0X
e 30 19.00

SIV 143.83 128 PKP 30 30.80 3.1X

PPD 146.21 147 ePKP 30 33.00 1.4

LIC 153.05 271 (PKP) 30 47.20 5.0X

TIC 153.05 272 (PKP) 30 50.00 7.8X

BAO 153.19 144 ePKP 30 50.00 7.5X
S.D. = 1.0 on 12 of 20 obs.

* APR 27, 1993 11h 39m 05.92 ± 1.23s
56.206 N ± 10.5km 153.002 W ± 8.5km
DEPTH = 33.0km (normal)
4.0mb (6 obs.)
KODIAK ISLAND REGION (13)
ML 4.7 (AEIC).

KDC 1.57 10 eP 39 31.76 0.0

SYI 2.43 8 eP 39 44.82 0.6

CDD 2.75 353 eP 39 50.01 1.3

MCNL 3.07 347 eP 39 53.74 0.5

AUI 3.15 356 eP 39 55.03 0.7
eS 40 31.66

AUE 3.17 357 eP 39 56.03 1.5

AUH 3.18 356 eP 39 56.19 1.4

AUW 3.18 356 eP 39 55.87 1.1

AUL 3.19 356 eP 39 56.43 1.5

OPT 3.46 358 eP 39 59.71 0.9

CNPM 3.46 15 eP 39 59.05 0.2

BRLK 3.74 17 eP 40 02.55 -0.2

INE 3.87 360 eP 40 05.08 0.4

INW 3.87 359 eP 40 05.03 0.3

RS1 4.27 2 eP 40 10.72 0.3

RSO 4.27 2 eP 40 10.71 0.3

RS2 4.27 2 eP 40 10.67 0.2

RDW 4.29 1 eP 40 10.79 0.1

REF 4.30 2 eP 40 10.72 -0.1

SDN 4.32 262 eP 40 08.90 -2.0

NCT 4.37 0 eP 40 11.89 0.1

DFR 4.40 2 eP 40 12.31 0.1

SLKM 4.56 18 eP 40 13.29 -1.1

MPA 4.70 23 eP 40 15.15 -1.2

27d 11h

DAG 0.8s 6.00nm 4.2mb
44.17 14 eP 47 03.70 -8.8X
0.8s 5.22nm 4.4mb
NB2 62.44 9 P 49 28.50 1.0
0.8s 1.50nm 4.2mb
KHC 74.44 9 eP 50 52.50 10.5X
GEC2 74.73 9 eP 50 45.80 2.0
0.7s 0.73nm 3.8mb
S.D. = 1.2 on 44 of 49 obs.

% APR 27, 1993 11h 55m 17.56±1.54s
24.556 S ±11.0km 116.896 E ±17.9km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

MEEK 2.59 144 eP 56 05.40 5.2X
eS 56 42.00
MBL 4.33 39 eP 56 25.00 0.0
0.3s 2.00nm
eS 57 33.00
MRWA 4.71 190 eP 56 30.30 -0.1
0.2s 1.00nm
eS 57 24.50
BAL 6.03 182 eP 56 49.00 0.1
eS 57 55.50
COOL 7.34 150 eP 57 07.50 0.1
eS 58 27.00
WARB 8.96 102 eP 57 30.00 -0.1
eS 59 07.00
S.D. = 0.1 on 5 of 6 obs.

? APR 27, 1993 12h 05m 01.28±0.77s
8.908 N ±16.0km 126.342 E ±19.7km
DEPTH = 33.0km (normol)
4.2mb (5 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

WRA 29.72 165 P 11 07.80 0.9
0.6s 0.40nm 3.4mb
WB2 29.73 165 eP 11 05.60 -1.3
0.5s 2.20nm 4.2mb
ASPA 33.20 167 eP 11 37.60 0.2
0.3s 2.80nm 4.6mb
GUN 42.53 302 P 12 56.40 0.3
PKI 42.82 301 P 12 58.40 -0.1
KKK 43.00 301 P 12 59.00 -0.7
DMN 43.09 301 P 13 00.60 0.0
GKN 43.61 301 P 13 03.20 -1.4
GBA 48.13 280 P 13 42.00 1.5
INK 85.53 22 eP 17 39.00 2.0
MBC 87.02 13 eP 17 45.50 1.3
0.9s 2.00nm 4.3mb
YKA 94.97 24 eP 18 18.70 -2.8
0.6s 0.50nm 4.1mb
S.D. = 1.5 on 12 of 12 obs.

APR 27, 1993 12h 12m 46.05±0.44s
12.302 N ±6.7km 95.203 E ±5.0km
DEPTH = 33.0km (normol)
4.7mb (24 obs.)
ANDAMAN ISLANDS, INDIA (703)

KHT 4.12 53 eP 13 49.20 0.9
NST 5.84 54 eP 14 11.50 -1.2
SNG 7.37 133 eP 14 26.50 -7.7X
CHG 7.41 29 eP 14 35.00 0.3
LOE 8.10 50 eP 14 44.00 -0.3
IPM 9.59 143 eP 15 06.00 1.0
KMI 14.61 28 P 16 16.00 3.5X
2.0s 60.00nm 4.7mb
Z 10s 1.50um 3.5Msz
N 10s 1.20um
E 10s 0.80um
HYB 16.87 290 eP 16 43.00 1.5
GBA 17.37 276 P 16 47.00 -0.6
KOD 17.52 265 eP 16 51.20 1.4
LSA 17.72 348 P 16 53.00 0.6
1.2s 12.00nm 3.9mb
PKI 17.75 330 P 16 53.20 0.6
GUN 17.81 332 P 16 54.40 0.9
DMN 17.93 330 P 16 55.20 0.4
KKK 17.99 330 P 16 55.60 0.0
GKN 18.48 329 P 17 01.40 -0.2
CD2 20.14 22 eP 17 19.00 -1.3
Z 12s 0.81um 4.3MszX
N 10s 0.67um
epP 17 30.00 47kmX

LZH 24.93 17 eP 18 09.50 1.6
1.5s 81.00nm 5.1mb
Z 12s 0.79um 4.4MszX
E 10s 0.51um
pP 18 18.00 30kmX
XAN 24.99 28 P 18 08.00 -0.4
Z 12s 0.75um 4.4MszX
E 10s 0.43um
pP 18 14.50 23kmX
sP 18 18.50
WHN 25.37 41 eP 18 12.50 0.6
1.0s 30.00nm 4.8mb
Z 14s 1.18um 4.6MszX
E 12s 0.49um
pP 18 21.00 30kmX
GTA 27.31 8 P 18 30.60 0.8
1.5s 28.00nm 4.7mb
pP 18 38.50 28kmX
sP 18 42.00
NJ2 29.31 44 eP 18 46.00 -1.8
N 11s 0.58um
E 10s 0.27um
TIY 29.63 28 eP 18 54.00 3.3X
Z 11s 1.85um 5.0MszX
N 11s 0.91um
E 11s 0.63um
HHC 31.86 24 eP 19 11.60 1.2
Z 12s 0.60um 4.5MszX
N 10s 0.35um
E 10s 0.29um
SS 26 12.50
WMO 32.07 350 P 19 11.60 -0.6
Z 20s 0.27um 3.9Msz
PRZ 33.43 337 eP 19 25.50 1.3
1.2s 20.00nm 4.9mb
FRU 35.27 333 eP 19 46.00 6.2X
2.5s 80.00nm 5.2mb
ZAK 38.55 8 iPd 20 08.20 1.0
1.4s 14.00nm 4.6mb
e 22 20.60
CN2 40.77 34 eP 20 26.40 0.7
1.2s 16.00nm 4.6mb
Z 10s 0.38um 4.6MszX
VAN 41.77 314 eP 20 32.90 -1.1
WRA 50.11 129 P 21 39.50 -0.9
0.7s 1.40nm 4.1mb
WB2 50.12 129 eP 21 33.30 -7.1X
1.0s 1.70nm 4.0mb
i 21 46.90
SVE 51.72 337 ePd 21 52.00 -0.2
i 22 09.00
ASPA 52.06 133 eP 21 59.70 4.5X
0.6s 7.30nm 4.8mb
KIV 54.83 315 eP 22 10.90 -4.7X
2.0s 17.00nm 4.7mb
Z 20s 0.10um 3.9Msz
MOS 61.90 327 eP 23 04.00 -0.6
e 23 13.00
TIK 62.70 11 iPd 23 08.00 -1.6
1.4s 29.00nm 5.2mb
i 23 16.00
e 23 52.00
VRI 66.30 315 ePc 23 32.00 -1.5
VBY 74.31 314 e(P) 24 29.20 7.1X
LJU 74.80 315 e(P) 24 12.00 -12.9X
BRG 75.05 320 P 24 25.60 -0.7
1.0s 10.00nm 4.8mb
HFS 75.20 329 eP 24 33.70 6.8X
0.4s 1.20nm 4.2mb
VOY 75.24 315 e(P) 24 26.30 -1.3
GEC2 75.27 318 eP 24 26.20 -1.5
0.8s 2.31nm 4.2mb
e 24 30.70
e 24 34.60
e 24 39.70
NB2 76.42 330 P 24 52.10 18.2X
0.6s 1.20nm
77.23 23 iPd 24 38.00 -0.1
1.2s 18.00nm 5.0mb
LPG 80.27 314 eP 24 54.60 -1.0
0.8s 9.25nm 4.8mb
LPL 80.28 315 eP 24 54.60 -0.9
0.7s 5.75nm 4.7mb
LBF 81.95 316 eP 25 02.90 -1.1
0.7s 3.75nm 4.5mb
SMF 82.10 316 eP 25 03.50 -1.3
MAF 83.04 316 eP 25 05.80 -3.9X

BRW 84.10 18 eP 25 16.20 1.6X
IMA 87.16 22 eP 25 30.69 0.7
0.6s 4.24nm 4.9mb
TTA 87.46 26 eP 25 31.83 0.4
1.3s 5.68nm 4.7mb
MBC 89.26 8 eP 25 47.50 7.8X
INK 92.48 16 eP 25 57.00 2.3X
YKA 101.90 14 ePd 26 38.40 1.0
0.6s 0.40nm 4.2mb
MSU 123.34 26 ePKP 31 43.20 1.3
PPD 146.64 249 (PKP) 32 27.00 1.8
S.D. = 1.1 on 44 of 59 obs.

* APR 27, 1993 12h 21m 42.29±0.95s
42.497 N ±9.3km 24.143 E ±10.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
ML 3.0 (THE).

SRS 1.44 197 ePb 22 07.22 -1.2
eSb 22 28.60
KNT 1.63 215 ePb 22 10.50 -0.6
eSb 22 33.14
VAY 1.66 226 iPn 22 10.70 -0.9
SOH 1.78 200 ePb 22 12.46 -0.8
GRG 2.02 221 ePb 22 18.34 1.6
SKO 2.08 256 iPn 22 18.80 1.2
i 22 22.60
ALN 2.14 138 ePn 22 19.82 1.3
PAIG 2.59 188 ePn 22 24.90 0.0
OHR 2.86 242 ePn 22 32.00 3.2X
MLR 3.26 23 eP 22 34.00 -0.6
S.D. = 1.2 on 9 of 10 obs.

* APR 27, 1993 12h 34m 27.16±2.50s
6.284 S ±13.6km 130.208 E ±16.5km
DEPTH = 148.2 ±24.6 km
4.1mb (2 obs.)
BANDA SEA (280)

MTN 6.58 172 eP 36 03.00 0.2
0.3s 89.00nm 5.6mb X
eS 37 12.00
WB2 14.16 164 iPc 37 39.90 -2.5X
i 37 46.20
iS 40 07.80
ASPA 17.64 169 eP 38 24.80 -0.6
eS 41 34.20
MBL 17.88 213 eP 38 27.50 -0.5
0.4s 6.00nm 4.3mb
eS 41 33.50
WARB 20.08 189 eP 38 52.00 0.9
eS 42 30.00
STK 27.60 159 eP 40 02.50 0.0
0.5s 1.50nm 3.9mb
BRS 30.01 137 iPd 40 24.00 -0.1
GUN 54.64 311 P 43 43.80 0.4
PKI 54.82 310 P 43 45.00 0.3
KKK 55.03 310 P 43 45.80 -0.2
DMN 55.07 310 P 43 45.60 -0.8
GKN 55.63 310 P 43 50.60 0.3
S.D. = 0.6 on 11 of 12 obs.

APR 27, 1993 13h 04m 05.13±0.22s
55.672 S ±6.1km 27.142 W ±6.1km
DEPTH = 33.0km (normol)
5.5mb (20 obs.) 5.1Msz (5 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA 18.28 153 iPc 08 17.00 -0.4
0.9s 316.00nm 5.5mb
AIA 20.34 227 e(P) 08 50.00 9.2X
NVL 22.57 147 iPd 09 03.00 -0.2
1.4s 139.00nm 5.2mb
ePP 09 40.00
ePcP 12 46.00
iS 13 08.00
eSS 13 56.00
SPA 34.51 180 iPd 10 51.40 -0.6
1.1s 291.67nm 6.1mb
VAO 35.78 328 eP 11 04.20 1.2
CACB 36.96 329 eP 11 13.50 0.5
CFA 37.44 293 ePc 11 15.20 -1.6
PEL 37.54 288 iPd 11 16.20 -1.5
CDCB 37.77 332 eP 11 20.40 0.6
RTLL 37.77 293 iPd 11 18.20 -1.5
PPD 38.10 322 iPd 11 23.00 0.5

CER	38.94	75	iPc	11	26.00	-3.4X	DMN	124.77	91	PKP	23	02.00	-0.9	ELT	60.12	12	iPd	19	30.80	-0.8	
	1.0s	100.00nm			5.5mb		GKN	124.80	90	PKP	23	01.40	-1.4		1.0s	19.00nm			5.2mb		
MAW	40.44	144	iPc	11	42.00	0.7		0.8s	17.00nm					SSE	61.75	51P		19	42.00	-1.2	
	0.6s	46.51nm			5.4mb		KKN	125.00	91	PKP	23	02.20	-1.1		1.0s	11.00nm			5.0mb		
HJA	42.93	303	ePd	12	02.60	0.4		0.6s	10.00nm					ARU	61.96	354	iPc	19	44.00	-0.1	
BAO	43.05	330	iPc	12	04.10	0.7	GUN	125.43	92	PKP	23	03.60	-0.7		1.8s	100.00nm			5.7mb		
FRS	45.01	77	iPd	12	19.50	0.5		0.7s	12.00nm					SVE	62.16	355	ePd	19	44.00	-1.5	
	1.2s	70.00nm			5.4mb		FCC	125.99	324	ePKP	23	05.00	1.0		2.0s	60.00nm			5.4mb		
BLF	45.98	77	eP	12	26.70	-0.2	KSH	128.40	74	PKP	23	10.50	1.1	VAY	62.56	322	eP	19	47.40	-1.0	
	0.5s	16.00nm			5.2mb		SDF	129.06	24	iPKP	23	09.00	-0.6	ZAK	62.92	24	eP	19	50.70	0.1	
WIN	46.40	63	eP	12	44.00	13.7X	LSA	129.78	95	PKPd	23	13.80	1.1		1.7s	21.00nm			5.1mb		
	1.0s	40.00nm					KEV	131.07	22	ePKP	23	13.00	-0.3	VR1	63.06	328	eP	19	50.00	-1.6	
SBA	46.46	184	iPd	12	31.10	1.2	DAG	132.28	3	ePKP	23	15.20	-0.3	MLR	63.22	328	eP	19	53.50	0.6	
SIV	47.34	313	iPd	12	50.60	13.1X		0.9s	10.00nm					DHR	63.53	321	eP	19	53.50	-1.4	
SEK	47.39	78	iPc	12	38.80	0.8	YKA	135.91	318	ePKP	23	07.00	-15.7X	SKO	63.62	322	iP	19	54.00	-1.4	
	0.5s	29.00nm			5.5mb			0.8s	0.80nm				ASPA	65.27	114	eP	20	04.60	-1.9		
CCH	48.31	306	P	12	45.30	-0.2	GTA	141.71	92	ePKP	23	32.50	-1.8		0.7s	8.40nm			5.0mb		
PRY	48.39	77	iPd	12	46.00	0.2			sPKP	23	45.50			WRA	65.39	109	P	20	09.10	1.7	
	1.2s	70.00nm			5.6mb		XAN	142.93	107	PKP	23	34.50	-2.0		1.0s	3.40nm			4.5mb		
KSR	48.91	75	iPd	12	49.00	-0.9			pPKP	23	42.40			WB2	65.40	109	iPc	20	06.50	-0.9	
	1.0s	108.00nm			5.8mb		INK	145.52	321	ePKPd	23	40.50	0.8		0.9s	2.80nm			4.5mb		
CNCB	49.65	305	iPd	12	56.80	0.7	NJ2	146.51	121	PKPc	23	44.00	1.5			i	20	13.70			
		i		18	06.90		SSE	146.84	125	PKPc	23	47.50	4.5X			ePP	22	14.70			
SLR	49.77	77	iPc	12	55.70	-0.8		Z	20s	0.50um		5.3Msz		OBN	65.72	340	iPc	20	08.50	-0.3	
	0.8s	33.00nm			5.4mb		TIY	147.56	107	ePKP	23	46.00	1.9		1.0s	21.00nm			5.3mb		
Z	20s	3.33um			5.3Msz			Z	22s	0.52um		5.3Msz			Z	20s	0.20um			4.3Msz	
LPB	49.95	305	P	12	58.00	-0.2	TIA	148.94	114	ePKP	23	49.50	3.2X	MOS	65.91	341	iPc	20	10.00	0.0	
	1.0s	160.00nm			6.0mb		HHC	149.29	101	PKP	23	51.60	4.8X		2.0s	160.00nm			5.9mb		
		e		18	07.00			Z	12s	0.84um		5.8MszX		CIT	68.60	28	eP	20	27.20	0.0	
ZOBO	50.19	305	iPd	13	00.60	0.3		N	11s	0.72um				VBV	69.30	323	eP	20	31.60	0.1	
		S		18	08.10		PMR	150.14	305	ePKP	23	51.50	4.3X		CEY	69.92	323	e(P)	20	34.00	-1.4
		LR		25	48.00		FBA	150.29	312	ePKP	23	51.80	4.4X		LJU	70.02	323	e(P)	20	35.00	-0.9
ARE	51.63	301	iPd	13	11.50	0.7		1.1s	44.70nm					VOY	70.39	323	e(P)	20	35.00	-3.3X	
CSY	54.25	160	eP	13	28.70	-0.6			eP	23	59.30		KSP	71.59	328	eP	20	44.50	-0.8		
	0.5s	31.90nm			5.6mb				eP	23	55.50	5.9X			e	21	05.50				
BUL	54.43	73	iPc	13	30.10	-1.4	BJI	151.26	107	ePKP	23	55.50	5.9X	STK	72.78	122	eP	20	48.90	-3.9X	
NNA	58.09	298	iPd	13	56.70	-0.8	IRK	151.71	76	ePKPd	23	55.80	5.9X		0.7s	3.40nm			4.5mb		
	1.0s	35.00nm			5.4mb			1.0s	40.00nm				CLL	73.60	327	iPc	20	57.50	0.4		
LIC	64.34	25	P	14	39.40	-0.2			e	24	05.60			1.7s	30.00nm			5.1mb			
Z	20s	0.46um			4.7Msz		CN2	158.83	113	ePKP	24	01.50	2.0	MDJ	73.60	41	eP	20	57.10	-0.2	
								S.D. = 1.0	on 65 of 86 obs.				NUR	73.98	339	iP	20	58.50	-0.6		
KIC	64.54	25	P	14	40.40	-0.5								0.4s	3.00nm			4.7mb			
TIC	64.75	24	P	14	42.00	-0.3							MOX	74.02	326	e(P)	21	00.00	0.4		
SDV	73.76	315	iPd	15	37.50	-0.4							KAF	74.55	341	iP	21	01.70	-0.8		
PAG	77.14	326	eP	15	57.00	0.1								0.8s	13.20nm			5.0mb			
TOO	86.91	174	eP	16	47.40	-0.2							NVL	74.58	197	iPd	21	03.00	0.5		
	0.9s	31.00nm			5.5mb									1.4s	35.00nm			5.2mb			
BFD	87.10	172	eP	16	48.40	-0.1							LPG	74.59	320	eP	21	05.80	2.4		
	0.8s	21.00nm			5.4mb									0.9s	7.35nm			4.7mb			
ADE	88.91	168	e(P)	16	58.10	0.8	KOD	17.68	30	eP	13	32.00	1.7		74.61	320	eP	21	05.90	2.5	
CAN	89.31	177	ePKP	17	00.40	1.2	GBA	20.63	25	P	14	02.00	-2.3	LPL	75.49	323	eP	21	07.50	-0.8	
		e		17	10.90		HYB	24.52	23	eP	14	43.50	0.6	CDF	75.54	322	eP	21	08.00	-0.6	
CNB	89.33	177	eP	17	06.10	6.8X	PKI	36.39	26	PKP	16	29.40	0.5	BSF	76.22	336	iP	21	11.60	-0.4	
	0.9s	12.00nm			5.2mb		CHG	38.22	51	ePd	16	45.00	1.0	UPP	76.59	109	iPc	21	15.00	0.1	
BWA	90.18	176	ePKP	17	03.30	0.1		1.1s	22.78nm		4.8mb		CTA	77.28	321	eP	21	18.50	0.3		
		i		17	13.10		LSA	40.88	31	Pd	17	08.40	2.0	SSF	0.7s	8.50nm			4.9mb		
IFR	90.81	18	iPc	17	10.00	4.1X		1.7s	31.00nm		4.8mb			77.51	320	eP	21	20.20	0.7		
STK	92.27	170	eP	17	14.30	1.5	KSH	44.96	8	P	17	39.50	0.3	BGF	0.7s	10.05nm			5.0mb		
	0.6s	2.60nm			4.8mb			1.0s	20.00nm		5.0mb		PJG	77.89	75	eP	21	07.10	-15.0X		
EJIF	93.61	17	eP	17	22.00	3.5X	FRU	48.13	6	eP	18	05.50	1.5	RJF	77.93	318	eP	21	22.90	1.1	
EPRU	94.15	17	iPc	17	24.50	3.5X		2.0s	70.00nm		5.4mb			0.8s	7.50nm			4.8mb			
EVAL	94.51	16	iPc	17	25.40	2.8	PRZ	48.29	10	eP	18	07.00	1.5		Z	21s	0.25um			4.5Msz	
EVIA	96.27	19	eP	17	32.50	1.7		1.8s	70.00nm		5.4mb		LPO	77.94	318	eP	21	23.00	1.1		
PAB	96.82	18	eP	17	26.00	-7.2X	GYA	48.44	48	iPc	18	06.20	-0.6	HFS	77.99	335	eP	21	21.10	-0.8	
ASPA	99.34	162	ePKP	17	45.50	0.2		1.0s	9.60nm		4.8mb			0.9s	22.70nm			5.3mb			
	0.6s	19.70nm			5.8mb			pP	18	14.00	26kmX		LFF	78.32	318	eP	21	25.20	1.2		
WRA	103.06	162	Pdiff	18	06.10	4.4X	GRS	49.03	337	iPd	18	11.00	-0.2	NB2	79.52	335	P	21	29.80	-0.4	
	0.7s	0.70nm			4.5mb			1.2s	40.00nm		5.3mb			1.1s	6.20nm			4.5mb			
KIV	115.40	49	ePdiff	18	49.40	-6.8X	CD2	49.15	41	eP	18	11.60	-0.5	TIK	85.92	16	iPd	22	03.00	0.0	
	1.6s	46.00nm					WMO	51.75	17	P	18	32.20	0.4		1.8s	50.00nm			5.4mb		
		e		19	55.00			2.0s	34.00nm		4.9mb				e	25	18.00				
PYA	115.62	49	ePdiff	18	50.00	-7.1X		Z	20s	0.54um		4.6Msz		BRW	108.12	14	ePdiff	23	57.90	13.6X	
HFS	119.93	22	ePKP	22	49.20	-3.0X			sP	18	43.20		MBC	108.89	2	ePdiff	23	33.50	-14.2X		
	0.5s	2.00nm						eS	25	56.00				0.9s	25.00nm						
Z	18s	0.17um			4.7Msz			sS	26	05.00			IMA	112.51	17	ePdiff	23	52.10	-12.1X		
		LR		05	03.00			ScS	28	12.00					e	23	59.00				
NAO	119.97	20	PKP	22	51.92	-0.4	LZH	52.68	36	eP	18	39.00	0.0			e	24	10.10			
NB2	120.24	20	PKP	22	52.30	-0.6		1.5s	38.00nm		5.1mb		TTA	113.85	21	ePdiff	24	00.20	-10.0X		
	0.7s	4.80nm					Z	22s	0.36um		4.4Msz			1.3s	28.40nm						
UPP	120.56	24	iPKP	22	52.30	-1.1			pP	18	46.00	23kmX		SVW	115.17	22	ePdiff	24	01.00	-15.0X	
NUR	122.87	28	iPKP	22	57.20	-0.6	GTA	52.91	30	Pd	18	40.00	-0.6	ORV	144.60	14	ePKP	28	59.47	-1.3	
	0.4s	4.70nm						1.5s	22.00nm		4.9mb		DAU	144.96							

MIAR	146.50	333	ePKP	29 04.91	0.8
			ePKPbc29	06.12	
ACO	146.73	342	iPKPd	29 06.00	1.5
MSU	146.85	1	ePKP	29 04.72	-0.2
			ePKPbc29	07.63	
UYO	147.21	334	iPKPc	29 07.70	2.4X
MEO	148.30	340	iPKPc	29 09.50	2.5X
WMOK	148.41	340	ePKP	29 06.63	-0.6
			iPKPbc29	10.93	
GLA	152.12	6	ePKP	29 14.18	1.3
TUC	153.04	359	(PKP)	29 14.73	0.5
			ePKPbc29	22.88	
S.D.	= 1.1	on	68	of	78 obs.
APR	27, 1993	13h	59m	17.97±	0.44s
12.292 N ± 6.5km			95.193 E ± 6.0km		
DEPTH = 33.0km (normal)					
4.7mb (18 obs.)			4.4Msz (2 obs.)		(703)
ANDAMAN ISLANDS, INDIA					
KHT	4.13	53	eP	00 20.70	0.3
NST	5.85	54	eP	00 43.00	-1.8
SNG	7.38	133	eP	01 09.50	3.4X
CHG	7.42	29	eP	01 04.30	-2.5
LOE	8.11	50	eP	01 28.00	11.6X
IPM	9.59	143	ePd	01 39.00	2.1
KGM	13.00	141	eP	02 23.00	-0.1
HYB	16.87	290	eP	03 15.50	2.1
GBA	17.36	276	P	03 21.00	1.6
	1.2s		5.00nm		3.5mb X
KOD	17.51	265	eP	03 23.00	1.4
LSA	17.72	348	P	03 25.00	0.6
	1.0s		40.00nm		4.5mb
GYA	17.75	36	iPd	03 27.00	2.6
Z	12s		1.57um		
N	10s		1.42um		
E	10s		0.89um		
PKI	17.75	330	P	03 25.40	0.8
GUN	17.82	332	P	03 25.20	-0.2
DMN	17.93	330	P	03 27.20	0.4
KKN	18.00	330	P	03 27.60	0.1
GKN	18.49	329	P	03 32.60	-0.9
CD2	20.15	22	eP	03 52.40	0.1
Z	10s		1.05um		4.5MszX
E	10s		1.38um		
			ePP	04 02.00	38kmX
LEM	22.66	146	ePc	04 20.00	2.1
LZH	24.94	17	eP	04 41.00	1.0
	1.6s		44.00nm		4.8mb
Z	12s		0.89um		4.5MszX
XAN	25.00	28	eP	04 40.50	0.1
Z	12s		1.00um		4.5MszX
N	10s		0.44um		
E	12s		0.82um		
			pP	04 47.70	26kmX
WHN	25.38	41	eP	04 46.00	2.1
Z	12s		1.21um		4.6MszX
N	10s		0.50um		
E	12s		0.73um		
GTA	27.32	8	eP	05 02.50	0.6
	2.0s		51.00nm		4.8mb
Z	12s		0.54um		4.3MszX
E	10s		0.26um		
			pP	05 09.80	26kmX
NJ2	29.32	44	eP	05 22.00	2.2
Z	14s		0.59um		4.4MszX
N	11s		0.53um		
E	10s		0.55um		
QUE	31.64	309	eP	05 39.80	-0.9
KSH	31.96	331	P	05 46.00	2.8X
Z	16s		0.60um		4.4MszX
WMO	32.07	350	P	05 45.00	0.8
	1.0s		7.00nm		4.5mb
Z	20s		0.54um		4.2Msz
FRU	35.27	333	ePc	06 13.00	1.2
SNY	38.45	35	eP	06 39.00	0.6
ZAK	38.56	8	eP	06 40.00	0.8
	1.7s		21.00nm		4.7mb
CN2	40.78	34	eP	06 58.60	0.9
	1.0s		12.00nm		4.6mb
Z	16s		0.53um		4.5MszX
			ePP	07 05.00	22kmX
ELT	41.47	352	eP	07 13.50	10.3X
VAN	41.77	314	eP	07 04.00	-1.9
			i	08 49.50	

			eS 02 51.70	26.378 S ± 6.1km 27.440 E ± 8.2km	26.823 S ± 18.3km 26.805 E ± 9.0km
			eTT 14 51.60	DEPTH = 5.0km (geophysicist)	DEPTH = 10.0km (geophysicist)
TOO	17.47 293	eP 00 02.00 -2.0	00 02.00 -2.0	REPUBLIC OF SOUTH AFRICA (584)	REPUBLIC OF SOUTH AFRICA (584)
			0.8s 46.00nm 4.7mb	ML 3.0 (PRE). mbLg 3.1 (BUL).	ML 2.6 (PRE).
			eS 03 04.60		
			eTT 14 04.00		
BWA	17.80 306	eP 00 06.30 -1.8	00 06.30 -1.8	PRY 0.55 177 eP 31 04.00 -0.6	BFS 0.08 194 eP 28 57.60 -1.1
			e 00 15.60	S 31 10.20	S 28 59.00
			eS 03 14.20	KSR 0.71 316 IPc 31 08.50 0.8	PRY 0.61 100 eP 29 08.00 -0.4
			eTT 15 23.30	S 31 17.50	S 29 15.00
ARMA	19.38 320	eP 00 32.40 5.2X	00 32.40 5.2X	BFS 0.78 228 eP 31 08.90 -0.4	SWZ 1.37 255 eP 29 21.60 0.3
			0.9s 11.00nm 4.1mb	S 31 18.00	S 29 39.00
			eTT 17 26.70	SEK 1.94 175 IPd 31 28.60 0.9	SEK 1.66 154 IPc 29 26.50 1.0
			eP 00 30.60 1.2	S 31 51.70	S 29 47.50
BFD	19.61 290	eP 00 30.60 1.2	00 30.60 1.2	SWZ 2.05 247 eP 31 30.10 0.8	SLR 1.71 51 eP 29 37.00 10.7X
			1.2s 27.00nm 4.4mb	S 31 53.70	S 29 50.50
CMS	21.44 307	eP 00 48.50 0.2	00 48.50 0.2	BFT 2.44 74 eP 31 36.00 1.0	BLF 2.34 193 eP 29 35.00 -0.4
			0.9s 12.00nm 4.3mb	S 32 07.60	S 30 06.50
			eTT 17 40.30	BLF 2.94 202 eP 31 46.50 4.6X	S.D. = 1.1 on 5 of 6 obs.
			eP 00 51.00 1.2	S 32 19.00	
BRS	21.57 327	eP 00 51.00 1.2	00 51.00 1.2	FRS 3.85 209 eP 31 54.00 -0.7	% APR 27, 1993 16h 40m 00.03 ± 0.79s
			eS 05 00.00	BUL 6.30 10 IPn 32 27.90 -1.7	26.888 S ± 7.8km 26.731 E ± 7.0km
			e(SS) 05 45.00	iSn 33 37.00	DEPTH = 5.0km (geophysicist)
			eTT 19 15.00	iSg 34 08.00	REPUBLIC OF SOUTH AFRICA (584)
ADE	23.41 289	e(P) 01 09.40 1.6	01 09.40 1.6	WIN 10.15 290 e(P) 33 38.00 14.7X	ML 2.8 (PRE).
STK	23.61 299	eP 01 10.00 0.3	01 10.00 0.3	S 35 32.00	
			1.2s 1.60nm 3.4mb	S.D. = 1.2 on 8 of 10 obs.	
			i 01 18.00		
RMO	24.04 320	eP 01 16.00 2.1	01 16.00 2.1	APR 27, 1993 15h 36m 04.39 ± 0.63s	BFS 0.05 102 IPd 40 02.50 0.9
DZM	24.23 1	IPc 01 20.30 4.5X	01 20.30 4.5X	26.336 S ± 5.8km 27.399 E ± 6.9km	PRY 0.66 94 eP 40 13.50 0.2
ASPA	34.24 300	eP 02 44.30 -1.5	02 44.30 -1.5	DEPTH = 5.0km (geophysicist)	KSR 1.03 8 eP 40 19.50 -0.6
			1.1s 5.60nm 4.4mb	REPUBLIC OF SOUTH AFRICA (584)	SWZ 1.29 257 eP 40 26.10 1.6
Z	19s 1.30um 4.7MsZ		1.30um 4.7MsZ	ML 3.2 (PRE). mbLg 3.2 (BUL).	S 40 32.40
WB2	36.86 305	eP 03 06.50 -1.5	03 06.50 -1.5	PRY 0.59 174 eP 36 15.50 -0.8	SEK 1.63 151 IPd 40 30.50 0.8
			0.6s 3.40nm 4.4mb	S 36 22.60	S 40 52.00
WRA	36.87 305	P 03 07.20 -0.8	03 07.20 -0.8	KSR 0.65 316 eP 36 18.50 1.1	SLR 1.80 51 IPc 40 31.70 -0.5
			0.7s 1.50nm 4.0mb	S 36 27.50	S 40 55.50
NVL	61.70 189	(P) 06 10.00 -7.4X	06 10.00 -7.4X	BFS 0.79 224 IPd 35 58.00 -22.2X	BLF 2.26 192 eP 40 37.00 -1.8
Z	14s 1.00um 5.1MsZ		1.00um 5.1MsZ	S 36 19.40	S 41 08.60
N	14s 0.60um		0.60um	SLR 0.99 53 IPc 36 23.50 -0.3	FRS 3.11 203 eP 40 50.00 -0.6
			e 06 19.00	S 36 36.10	S 41 27.00
LEM	63.44 289	ePd 06 38.50 8.7X	06 38.50 8.7X	SEK 1.99 174 IPd 36 40.00 0.8	S.D. = 1.3 on 8 of 8 obs.
INK	122.90 23	ePKP 14 54.00 0.5	14 54.00 0.5	SWZ 2.04 245 eP 36 40.10 0.2	% APR 27, 1993 16h 52m 07.78 ± 1.68s
YKA	125.48 34	ePKP 14 56.70 -2.0	14 56.70 -2.0	S 37 03.00	30.864 S ± 15.6km 68.344 W ± 14.2km
			0.7s 0.90nm	BFT 2.47 75 eP 36 47.20 1.1	DEPTH = 10.0km (geophysicist)
MBC	131.05 18	ePKP 15 16.50 7.5X	15 16.50 7.5X	S 37 17.00	SAN JUAN PROVINCE, ARGENTINA (137)
LMN	145.35 72	ePKP 15 38.00 2.0	15 38.00 2.0	BLF 2.96 201 eP 36 53.00 -0.1	RTLL 0.48 193 IPc 52 16.30 -1.2
FRB	145.62 40	ePKP 15 36.00 0.2	15 36.00 0.2	S 37 24.00	S 52 22.50
			0.9s 17.00nm	FRS 3.87 208 eP 36 59.00 -6.8X	RTCB 0.73 212 ePd 52 21.70 -0.5
OBN	147.37 304	iPKPd 15 42.00 3.0X	15 42.00 3.0X	BUL 6.26 11 IPn 37 38.50 -1.4	S 52 31.20
			1.0s 14.00nm	S 38 47.10	CFA 0.75 173 eP 52 23.70 1.3
			i 15 49.00	iSg 39 19.00	S 52 31.70
			e 16 25.50	POF 7.26 244 e(P) 37 52.00 -1.7	RTBS 1.24 230 ePc 52 31.50 0.7
KEV	149.06 334	ePKP 15 43.00 1.8	15 43.00 1.8	S 39 19.00	RTPR 1.68 71 ePd 52 37.00 -0.3
			1.0s 30.00nm	SUR 8.32 222 eP 38 10.00 1.2	S.D. = 1.4 on 5 of 5 obs.
DAG	149.42 2	ePKP 15 45.30 3.7X	15 45.30 3.7X	S 39 44.00	* APR 27, 1993 17h 04m 33.47 ± 2.12s
			0.6s 6.00nm	CER 9.92 223 eP 38 27.50 -3.3X	43.038 N ± 18.5km 20.975 E ± 12.5km
SDF	150.30 330	iPKP 15 48.50 5.3X	15 48.50 5.3X	WIN 10.10 290 eP 38 30.00 -3.4X	DEPTH = 5.0km (geophysicist)
PPE	151.38 285	ePKP 15 46.00 0.6	15 46.00 0.6	S 40 02.00	NORTHWESTERN BALKAN REGION (383)
VR1	151.89 284	ePKP 15 50.00 3.8X	15 50.00 3.8X	S 40 25.00	ML 2.4 (TTG).
KAF	152.18 319	iPKP 15 52.20 6.1X	15 52.20 6.1X	S.D. = 1.2 on 10 of 14 obs.	
			0.7s 15.00nm		
MLR	152.31 283	ePKP 15 53.50 6.5X	15 53.50 6.5X		
NUR	153.37 316	ePKP 16 03.00 15.2X	16 03.00 15.2X		
			S.D. = 1.4 on 45 of 58 obs.		
			% APR 27, 1993 15h 25m 35.35 ± 0.88s	* APR 27, 1993 16h 14m 46.41 ± 0.96s	IVA 0.81 259 IPgc 04 48.17 -1.5
			26.371 S ± 6.4km 27.356 E ± 8.9km	21.183 S ± 7.7km 68.755 W ± 12.3km	ISg 04 57.22
			DEPTH = 5.0km (geophysicist)	DEPTH = 160.8 ± 16.5 km	PVY 0.86 239 IPgd 04 49.55 -1.0
			REPUBLIC OF SOUTH AFRICA (584)	CHILE-BOLIVIA BORDER REGION (124)	ISg 04 59.74
			ML 2.4 (PRE).		IPg 04 53.20 -1.7
PRY	0.57 169	eP 25 47.00 0.3	25 47.00 0.3	ANT 2.94 211 IP 15 33.70 -0.3	ISg 05 05.80
			S 25 53.00	YJA 3.18 109 IPd 15 37.00 -0.5	Lg 05 11.60
KSR	0.65 321	eP 25 49.00 0.6	25 49.00 0.6	HJA 3.70 124 ePd 15 44.50 0.8	PLE 1.19 285 IPgc 04 55.40 -0.8
			S 25 58.60	S 16 27.80	ISg 05 10.04
BFS	0.73 224	eP 25 49.00 -1.0	25 49.00 -1.0	CNCB 4.41 10 IPc 15 54.10 0.6	TTG 1.40 245 IPgc 04 59.30 -0.4
SLR	1.05 53	eP 25 55.00 -0.7	25 55.00 -0.7	CCH 4.52 34 P 15 53.60 -1.1	ISg 05 17.44
			S 26 06.30	LPB 4.67 8 P 15 57.30 0.5	NKY 1.47 262 ePg 05 00.39 -0.3
SEK	1.96 173	IPc 26 10.50 0.8	26 10.50 0.8	1.0s 120.00nm	ISg 05 19.02
			S 26 34.00	SIV 8.93 56 P 17 02.60 9.4X	ULC 1.67 231 IPgd 05 04.72 1.2
SWZ	1.99 246	eP 26 13.10 3.0X	26 13.10 3.0X	PPD 16.25 96 eP 18 27.50 0.5	ISg 05 27.15
			S 26 37.60	CACB 20.51 95 eP 19 13.30 -0.4	BDV 1.75 245 IPgc 05 05.80 1.1
BLF	2.92 201	eP 26 20.00 -3.4X	26 20.00 -3.4X	i 19 14.00	ISg 05 29.20
FRS	3.82 208	eP 27 07.00 31.0X	27 07.00 31.0X	e 19 18.20	BRY 1.79 266 IPgd 05 06.22 0.9
			S 27 46.00	YKA 90.94 341 eP 28 09.60 37.0X	ISg 05 29.64
			S.D. = 1.1 on 5 of 8 obs.	0.9s 1.60nm	HCY 1.92 253 IPnc 05 08.37 1.3
			APR 27, 1993 15h 30m 53.58 ± 0.75s	S.D. = 0.9 on 8 of 10 obs.	ISn 05 33.02
			% APR 27, 1993 16h 28m 56.09 ± 1.79s		IPn 05 08.10 0.8
					i 05 28.20

27d 17h

i 05 32.00
Lg 05 35.80
VAY 2.09 145 ePn 05 10.00 0.5
S.D. = 1.2 on 12 of 12 obs.

* APR 27, 1993 17h 21m 18.46± 1.56s
37.992 S ± 12.4km 175.900 E ± 9.5km
DEPTH = 223.7 ± 14.0 km
NORTH ISLAND, NEW ZEALAND (159)

URZ 0.99 106 P 21 49.40 -1.5
S 22 08.00
WHH 1.01 153 P 21 50.10 -1.0
NGZ 1.21 191 P 21 52.70 0.2
CNZ 1.24 193 P 21 53.10 0.4
PAHZ 1.25 134 P 21 52.30 -0.4
MOH 1.50 140 P 21 54.80 0.2
TTH 1.71 155 P 21 57.00 0.7
WAHZ 1.74 168 P 21 56.90 0.2
NOZ 1.79 111 P 21 57.50 0.4
PUZ 1.86 93 P 21 57.50 -0.3
S 22 20.90
HBZ 1.94 79 P 21 59.30 0.8
BSZ 1.96 202 P 21 59.80 1.1
MAHZ 1.96 128 P 21 59.20 0.5
TEHZ 2.12 161 P 22 00.40 0.1
PGZ 2.64 174 P 22 05.60 -0.1
MNG 2.64 187 P 22 05.80 0.0
S 22 36.10
KIW 2.97 195 P 22 09.30 -0.1
CAW 3.18 191 P 22 11.70 -0.1
MTW 3.18 185 P 22 11.40 -0.4
MRW 3.37 196 P 22 14.00 0.0
S 22 51.30
BLW 3.39 185 P 22 14.00 -0.3
WEL 3.40 195 eP 22 14.20 -0.2
TCW 3.45 201 P 22 15.30 0.3
MOW 3.46 188 P 22 14.70 -0.4
ORZ 3.85 222 eP 22 19.80 0.0
KHZ 4.78 201 P 22 31.40 0.3
S 23 23.50
LTZ 5.53 209 eP 22 40.30 -0.4
S.D. = 0.6 on 27 of 27 obs.

APR 27, 1993 17h 29m 33.36± 0.77s
35.468 N ± 6.6km 29.417 E ± 6.8km
DEPTH = 22.9 ± 7.1 km
EASTERN MEDITERRANEAN SEA (371)
MD 3.9 (ATH).

KSL 0.66 12 eP 29 46.10 -0.1
S 29 56.00
ELL 1.34 17 iPn 29 56.60 -0.2
YER 1.90 331 ePn 30 05.00 0.1
BCK 2.20 25 ePn 30 09.00 -0.3
KHL 2.85 2 ePn 30 19.00 0.5
NPS 3.12 267 eP 30 25.60 3.4X
IZM 3.40 330 eP 30 33.00 6.8X
VLI 5.39 285 eP 30 54.40 -0.1
MMR 5.55 115 eP 30 56.70 -0.1
DSI 6.32 126 eP 31 07.70 0.2
SAGI 6.84 138 eP 31 14.90 0.0
S 32 27.30
ROI 10.99 296 P 32 08.70 -3.7X
GEC2 17.68 324 ePn 33 39.50 -0.2
S.D. = 0.3 on 10 of 13 obs.

APR 27, 1993 17h 36m 21.53± 0.19s
5.260 S ± 4.2km 68.581 E ± 3.3km
DEPTH = 10.0km (geophysicist)
5.4mb (84 obs.) 4.7Msz (13 obs.)
CHAGOS ARCHIPELAGO REGION (426)
Mw 5.1 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 23C
Centroid Location:
Origin Time 17:36:24.9 0.6
Lat 5.43S 0.10 Lon 68.40E 0.08
Dep 15.0 FLX Half-duration 1.2
Moment Tensor; Scale 10**16 Nm
Mrr=-3.86 0.40 Mtt=-0.40 0.65
Mff= 4.26 0.46 Mrt= 0.93 1.17
Mrf=-2.91 1.38 Mtf=-0.53 0.38
Principal Axes:
T Val= 5.31 Plg=18 Azm= 82

N -0.40 6 350
P -4.91 71 241
Best Double Couple: Mo=5.1*10**16
NP1: Strike=182 Dip=28 Slip= -76
NP2: 346 63 -97

KOD 17.75 30 eP 40 31.10 0.2
eS 44 02.00
GBA 20.70 25 Pc 41 03.00 -1.6
BOM 24.36 10 eP 41 40.80 -0.1
eS 46 10.60
HYB 24.59 23 eP 41 43.50 0.3
1.0s 50.00nm 5.1mb
IPM 33.85 74 ePc 43 07.00 0.4
QUE 35.28 358 eP 43 20.80 1.9
KHT 35.80 56 eP 43 24.00 0.7
DMN 36.37 25 P 43 28.80 0.6
PKI 36.46 26 P 43 29.40 0.3
0.8s 26.00nm 5.1mb
GKN 36.52 24 P 43 30.00 0.6
KKN 36.60 25 P 43 30.60 0.5
GUN 36.96 26 P 43 34.00 0.7
CHG 38.31 51 eP 43 45.00 0.7
1.5s 104.86nm 5.4mb
LEM 38.84 94 ePc 43 50.50 1.4
LSA 40.96 31 Pc 44 08.80 2.1
2.0s 130.00nm 5.3mb
Z 22s 1.37um 4.8Msz
N 16s 2.20um
ASH 44.03 348 eP 44 33.30 2.2
VAN 44.08 348 iPc 44 32.00 0.5
2.0s 63.00nm 5.1mb
KER 44.31 334 eP 44 34.00 0.4
KMI 44.88 46 Pc 44 39.00 0.5
2.0s 80.00nm 5.3mb
Z 26s 1.20um 4.7Msz
eS 51 20.00
KSH 45.01 8 P 44 40.40 1.2
1.8s 230.00nm 5.8mb
Z 20s 0.75um 4.6Msz
N 10s 0.41um
E 10s 0.64um
sP 44 50.00
PP 46 26.00
ScP 50 11.00
PcS 50 15.00
SEK 45.09 235 iPc 44 39.10 -1.0
0.8s 41.04nm 5.4mb
KAT 45.68 347 iP- 44 44.00 -0.3
BLF 46.55 234 eP 44 48.60 -3.0X
0.8s 12.50nm 5.0mb
FRS 47.50 234 iPc 44 57.10 -1.8
0.8s 11.19nm 5.0mb
MBH 47.52 319 eP 45 00.10 1.0
TAB 47.81 336 eP 45 12.00 10.6X
GRM 47.98 229 eP 44 46.50 -16.2X
1.0s 60.00nm
FRU 48.18 6 eP 45 05.00 1.0
2.0s 200.00nm 5.8mb
PRZ 48.35 10 eP 45 06.50 1.0
2.0s 300.00nm 6.0mb
GYA 48.52 48 iPc 45 06.80 -0.3
1.0s 29.00nm 5.3mb
Z 20s 0.63um 4.6Msz
S 52 10.00
MML 48.98 322 eP 45 11.40 1.0
GRS 49.05 337 iPd 45 11.00 0.1
1.4s 110.00nm 5.7mb
CD2 49.23 41 eP 45 11.20 -1.1
1.2s 84.00nm 5.6mb
Z 18s 0.73um 4.7Msz
eS 52 21.80
HRI 49.36 323 eP 45 14.30 0.9
KRV 50.04 338 iP 45 19.00 0.6
0.8s 60.00nm 5.6mb
MRWA 50.71 124 iPd 45 24.00 0.3
0.6s 10.00nm 4.9mb
MUN 51.00 127 eP 45 31.50 -0.5
WMO 51.81 18 iPd 45 32.00 0.1
2.0s 90.00nm 5.4mb
Z 20s 0.80um 4.7Msz
pP 45 39.50 25kmX
sP 45 44.00
PcS 50 41.00
GRO 52.63 339 iPc 45 40.00 2.1
LZH 52.75 36 Pd 45 38.00 -1.2
2.0s 94.00nm 5.4mb

Z 24s 0.74um 4.6MszX
E 15s 0.43um
sP 45 52.00
GTA 52.98 30 Pd 45 39.60 -1.2
1.5s 70.00nm 5.4mb
Z 20s 0.87um 4.8Msz
E 12s 0.26um
sP 45 51.60
eS 53 08.00
PYA 54.19 337 iPc 45 50.00 0.6
KIV 54.27 337 eP 45 49.40 -0.7
e 46 50.90
XAN 54.58 41 Pc 45 51.50 -1.0
1.2s 41.00nm 5.3mb
Z 24s 0.64um 4.6MszX
pP 45 57.50 20kmX
sP 46 02.40
WHN 56.41 48 eP 46 05.00 -0.8
Z 20s 0.75um 4.8Msz
DAV 58.18 78 eP 46 17.20 -1.3
TIY 59.07 40 eP 46 22.90 -1.6
Z 19s 0.98um 5.0Msz
N 20s 1.15um
BTO 59.37 36 P 46 25.50 -1.1
ELT 60.18 12 iPd 46 30.60 -1.1
1.9s 103.00nm 5.6mb
e 47 17.00
ALN 60.21 324 e(P) 46 31.78 -0.3
HHC 60.44 36 Pd 46 34.00 0.1
1.8s 120.00nm 5.7mb
Z 20s 0.75um 4.8Msz
NJ2 60.50 49 Pc 46 34.00 -0.3
0.8s 6.40nm 4.8mb
Z 18s 0.59um 4.8Msz
PAIG 61.04 322 e(P) 46 33.94 -3.9X
TIA 61.34 44 eP 46 39.20 -0.8
AGG 61.36 320 e(P) 46 38.34 -1.7
SOH 61.77 322 e(P) 46 41.62 -1.3
SRS 61.80 323 e(P) 46 42.10 -0.9
SSE 61.84 51 Pd 46 42.80 -0.6
1.0s 21.00nm 5.3mb
Z 20s 0.50um 4.7Msz
sP 46 56.00
LIT 61.88 321 e(P) 46 42.34 -1.2
ARU 61.99 354 iPd 46 43.50 -0.5
1.7s 300.00nm 6.2mb
SVE 62.20 355 iPd 46 45.00 -0.4
1.8s 180.00nm 6.0mb
e 49 05.00
KNT 62.25 322 e(P) 46 44.90 -1.1
VAY 62.54 322 iP 46 47.30 -0.6
KIS 62.76 331 eP 46 48.00 -1.2
e 47 32.00
BJI 62.79 40 eP 46 49.00 -0.6
1.5s 57.00nm 5.5mb
Z 20s 0.48um 4.7Msz
eS 55 20.00
IGT 62.93 320 e(P) 46 49.78 -0.7
ZAK 62.99 24 iPd 46 50.20 -0.4
1.7s 37.00nm 5.3mb
Z 16s 0.49um 4.8MszX
N 15s 0.38um
E 16s 0.39um
VRI 63.06 328 ePc 46 51.00 -0.2
MOY 63.12 22 eP 46 51.90 0.4
1.7s 55.00nm 5.5mb
MLR 63.22 328 ePc 46 53.00 0.5
CVO 63.31 328 ePd 46 52.50 -0.5
OHR 63.51 321 iP 46 53.20 -1.2
CMP 63.56 327 ePc 46 56.00 1.4
SKO 63.61 322 iP 46 54.20 -0.8
1.5s 132.00nm 5.9mb
IRK 64.85 23 ePd 47 02.30 -0.6
2.0s 75.00nm 5.5mb
Z 16s 0.42um 4.7MszX
e 47 34.30
ASPA 65.32 114 iPc 47 05.60 -0.9
0.9s 22.30nm 5.4mb
Z 23s 0.40um 4.6MszX
WRA 65.45 109 P 47 06.90 -0.4
0.7s 14.80nm 5.3mb
WB2 65.46 109 iPd 47 06.30 -1.1
0.7s 36.80nm 5.7mb
BZS 65.66 326 eP 47 06.50 -1.7
OBN 65.73 340 iPc 47 09.00 0.5
1.0s 168.00nm 6.2mb

MOS	65.93 341 iPc	47 26.50	47 10.00 0.3	2.0s 340.00nm	6.2mb	LPL	74.60 320 eP	48 01.90 -1.1	1.5s 66.35nm	5.4mb	DPW	137.15 7 (PKP)	55 44.76	-2.2
						EMS	74.70 321 P	48 03.50 0.0			LCCM	139.58 0 ePKP	55 50.30	-1.4
UZH	67.14 329 eP	47 15.00 -2.6X		1.4s 70.00nm	5.7mb	FEL	74.81 323 P	48 03.96 -0.1			RSSD	140.76 352 ePKP	55 50.28	-3.6X
						QLP	74.84 116 eP	48 04.60 0.1			BW06	142.60 358 ePKP	55 53.92	-3.3X
MNK	68.21 335 eP	47 26.00 1.8				BBS	74.93 322 P	48 04.47 -0.2			HVU	143.62 2 PKP	55 57.85	-1.1
SNY	68.50 41 Pc	47 26.00 -0.3				LIBD	75.17 323 P	48 06.25 0.3			ORV	144.66 14 ePKP	55 59.85	-0.7
	1.7s 58.00nm					LOMF	75.30 322 P	48 05.83 -1.0			OLY	144.73 331 ePKP	55 59.73	-1.0
Z	26s 0.40um					HOFF	75.30 324 P	48 06.64 2.0			DAU	145.00 360 ePKP	56 01.09	-0.4
						MOF	75.33 322 P	48 06.70 -0.3			DUG	145.20 2 ePKP	56 01.46	-0.2
SPC	68.56 328 eP	47 25.70 -1.0				LANF	75.41 324 P	48 07.53 0.2			GOL	145.28 352 ePKP	56 01.52	-0.4
CIT	68.68 28 eP	47 28.00 0.8				WLS	75.44 323 P	48 07.78 0.3						
SRO	68.79 326 eP	47 27.20 -0.7				ECH	75.47 323 P	48 07.66 0.0			EMUT	145.60 359 ePKP	56 03.64	1.2
VBY	69.29 323 eP	47 30.20 -0.9				BSF	75.53 322 eP	48 07.78 -0.1			SRU	146.29 359 (PKP)	56 03.89	0.3
ZST	69.68 326 iPc	47 32.50 -0.9				VITF	76.18 322 P	48 12.04 0.3			CMB	146.37 13 ePKP	56 04.40	0.9
ARV	69.72 320 P	47 34.00 0.2				UPP	76.23 336 iP	48 11.70 0.0						
CEY	69.91 323 eP	47 34.00 -0.9				TOO	76.44 127 eP	48 14.70 1.3			MIAR	146.50 333 ePKP	56 04.47	0.7
LJU	70.01 323 eP	47 35.00 -0.4				CTA	76.65 109 iPd	48 14.90 0.0						
RSM	70.24 320 P	47 38.10 1.2									ACO	146.75 342 iPKPd	56 05.30	2.2
VOY	70.38 323 eP	47 36.50 -1.4				WLF	76.69 324 P	48 14.00 -0.4			ARN	146.75 15 ePKP	56 05.09	1.0
VRAC	70.58 327 iPc	47 38.60 -0.2				SMF	76.89 320 eP	48 15.40 -0.3			MSU	146.89 1 ePKP	56 05.82	1.2
	2.0s 165.30nm													
CN2	70.65 40 eP	47 38.40 -1.0				LBF	76.94 321 eP	48 15.70 -0.3			MEMM	147.02 11 ePKP	56 05.89	1.5
	1.4s 22.00nm										OCO	147.25 339 iPKPd	56 04.50	-0.4
Z	18s 0.36um					MAT	76.99 51 eP	48 16.00 -0.5			ARUT	147.57 3 (PKP)	56 06.40	0.8
RBL	70.79 323 P	47 39.90 -0.4				LOR	77.12 321 eP	48 16.90 -0.1						
KBA	71.24 324 iPd	47 42.00 -1.2									MEO	148.31 340 iPKPd	56 09.10	2.4X
	1.5s 26.50nm					SSF	77.26 321 eP	48 17.60 -0.1			WMOK	148.42 340 ePKP	56 07.35	0.5
KSP	71.59 328 eP	47 44.00 -1.0												
CTI	71.75 322 P	47 46.40 0.2				ENN	77.28 325 eP	48 18.00 0.3			GSC	149.69 9 ePKP	56 10.24	1.3
BHG	71.84 324 eP	47 45.80 -0.7												
GEC2	71.93 325 ePc	47 45.90 -1.3				BGF	77.50 320 eP	48 19.50 0.5			ALO	150.11 352 ePKP	56 10.79	1.1
	1.3s 3.54nm													
PRU	72.07 327 Pc	47 47.30 -0.5				MAF	77.55 319 eP	48 19.70 0.3			PEC	151.02 10 (PKP)	56 13.10	2.2
	1.5s 16.60nm													
KHC	72.15 326 iP	47 47.70 -0.7				HYF	77.89 321 eP	48 21.90 0.7			TUC	153.08 359 (PKP)	56 13.82	-0.1
	1.4s 37.00nm					RJF	77.92 318 eP	48 22.10 0.7						
WTTA	72.35 323 iPc	47 49.40 -0.4				LPO	77.92 318 eP	48 22.30 0.9			LTX	154.96 344 ePKP	56 16.42	-0.2
	1.2s 53.10nm													
WATA	72.42 323 iPd	47 49.00 -1.1				HFS	78.00 335 eP	48 21.30 -0.2						
SQTA	72.58 323 iPc	47 50.90 -0.2												
	1.2s 70.60nm					Z	16s 0.07um							
MOTA	72.70 323 iPd	47 50.80 -1.0				LSF	78.24 319 eP	48 23.70 0.6						
	1.1s 51.00nm													
BOD	72.81 24 eP	47 50.00 -2.0				LFF	78.31 318 eP	48 24.50 1.0			PCH	0.21 308 iP	51 00.16	0.0
	1.8s 30.00nm													
STK	72.82 122 iPc	47 52.10 -0.6				RMQ	78.89 116 eP	48 28.00 0.9			CHCH	0.33 236 iP	51 00.60	0.1
	0.6s 2.70nm					MFF	79.45 319 eP	48 30.30 0.6						
BRG	72.86 327 iPc	47 53.20 0.7				NB2	79.52 335 P	48 29.80 -0.1			SAN	0.41 316 iP	51 00.75	-0.1
	1.0s 30.00nm													
OSS	72.97 322 ePc	47 54.10 0.6				LDF	80.09 321 eP	48 33.40 0.3			FCH	0.42 3 iP	51 01.37	0.0
FUR	72.99 324 eP	47 53.10 -0.3												
	1.4s 160.00nm					PAB	80.31 311 iPd	48 35.00 0.4			TACH	0.52 280 iP	51 01.64	0.1
VAI	73.45 321 P	47 56.10 0.1												
TMA	73.50 321 ePc	47 56.30 -0.2				FLN	80.38 321 eP	48 35.30 0.7			PEL	0.68 333 iP	51 02.88	0.1
AUTN	73.52 319 P	47 57.31 0.6				GRR	80.49 321 eP	48 35.70 0.5						
AURF	73.54 319 P	47 57.79 1.1												
CLL	73.59 327 iPc	47 57.40 0.7				LPF	80.49 320 eP	48 35.90 0.7			LNV	0.93 257 iP	51 04.97	-0.1
	1.7s 56.00nm										LCCH	1.08 284 iP	51 06.69	0.1
MDJ	73.68 41 eP	47 57.50 0.1				ARMA	81.37 120 iPc	48 41.20 0.7			JACH	1.09 348 eP	51 06.85	0.0
HOF	73.70 326 eP	47 57.90 0.5				YAK	81.58 25 eP	48 38.00 -2.7X						
	1.4s 72.00nm													
LLS	73.76 322 ePc	47 57.90 -0.2				BRS	82.46 117 iP	48 46.00 -0.1						
GRF	73.76 325 iPd	47 57.80 0.0												
	1.4s 132.00nm					YSS	83.12 42 (P)	48 57.00 8.1X						
NUR	73.99 339 iP	47 58.60 -0.3				EKA	84.06 327 P	48 55.00 1.4						
	0.6s 9.20nm													
MOX	74.01 326 eP	47 59.80 0.6				SPA	84.77 180 iPd	48 58.20 1.0						
	1.6s 56.00nm													
MMK	74.04 321 ePc	47 59.90 0.1				TIK	85.98 16 iPd	49 02.00 -0.9						
KIC	74.09 278 P	48 00.80 0.4												
LIC	74.36 278 P	48 02.20 0.3												
	2.0s 0.10um					Z	16s 0.30um							
DIX	74.40 321 ePc	48 02.30 0.4				INK	115.31 9 ePKP	55 05.50 0.9						
ZLA	74.40 322 ePc	48 02.10 0.5				YKA	122.84 2 ePKP	55 18.10 -0.9						
TIC	74.41 278 P	48 02.60 0.4												
SLE	74.47 323 ePc	48 02.40 0.5				FCC	124.97 349 ePKP	55 25.00 1.7						
KAF	74.57 341 iP	48 02.00 -0.2				CNCB	131.79 242 PKP	55 41.10 2.8X						
	0.6s 25.20nm					LPB	132.00 242 ePKP	55 34.00 -4.6X						
LPG	74.58 320 eP	48 02.00 -1.0				ZOBO	132.13 243 PKP	55 39.20 0.2						

S.D. = 0.9 on 202 of 214 obs.

% APR 27, 1993 17h 50m 44.33±1.10s

33.749 S ±14.1km 70.320 W ±17.0km

DEPTH = 110.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

MD 3.8 (SAN).

PCH 0.21 308 iP 51 00.16 0.0

CHCH 0.33 236 iP 51 00.60 0.1

SAN 0.41 316 iP 51 00.75 -0.1

FCH 0.42 3 iP 51 01.37 0.0

TACH 0.52 280 iP 51 01.64 0.1

PEL 0.68 333 iP 51 02.88 0.1

LNV 0.93 257 iP 51 04.97 -0.1

LCCH 1.08 284 iP 51 06.69 0.1

JACH 1.09 348 eP 51 06.85 0.0

S.D. = 0.1 on 9 of 9 obs.

% APR 27, 1993 18h 52m 05.06±1.74s

39.477 N ±16.2km 27.901 E ±8.1km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

DST 0.58 77 iPg 52 16.70 -0.1

KCT 0.85 24 ePg 52 21.70 0.3

EDC 0.87 358 ePn 52 21.50 -0.3

EZN 1.27 286 ePn 52 28.60 0.1

S.D. = 0.4 on 4 of 4 obs.

% APR 27, 1993 18h 56m 13.11±12.73s

46.781 S ±43.0km 165.592 E ±94.8km

DEPTH = 33.0km (normal)

OFF W. COAST OF S. ISLAND, N.Z. (161)

27d 18h

ML 3.8 (WEL).

BCZ	1.74	64	P	56	42.40	1.0
			S	57	01.50	
SIZ	1.75	94	eP	56	41.50	0.0
MSZ	2.67	38	eP	56	55.20	0.6
TLC	2.90	58	P	56	59.00	0.9
TUZ	2.92	75	P	56	58.40	0.2
			S	57	32.40	
CMCZ	3.04	59	P	57	00.50	0.4
MHZ	3.10	58	P	57	01.30	0.4
SBCZ	3.10	58	P	57	01.20	0.4
LSCZ	3.12	59	P	57	01.60	0.5
BWZ	3.76	55	P	57	09.10	-1.0
ODZ	3.93	66	P	57	10.80	-1.8
LTZ	6.21	52	eP	57	43.30	-1.6

S.D. = 1.0 on 12 of 12 obs.

APR 27, 1993 19h 22m 45.21 ± 0.42s
 38.259 N ± 4.1km 23.999 E ± 3.0km
 DEPTH = 31.0 ± 3.1 km
 3.7mb (4 obs.)

GREECE (364)

ML 3.8 (ATH), 3.7 (THE).

ATH	0.36	218	ePg	22	51.70	-1.9
AGG	1.51	301	iPb	23	11.10	0.6
			eSb	23	31.42	
PAIG	1.68	352	ePb	23	12.74	-0.2
			eSb	23	35.10	
VLI	1.76	209	ePb	23	14.40	0.5
PRK	2.03	60	ePn	23	18.90	1.0
LIT	2.18	328	ePn	23	20.18	0.1
			iSn	23	48.14	
EZN	2.39	48	iPn	23	23.10	0.0
THE	2.50	342	ePn	23	24.94	0.3
IZM	2.57	86	iPn	23	27.30	1.6
SOH	2.61	349	ePn	23	26.54	0.4
KZN	2.68	320	ePn	23	28.00	0.8
VLS	2.69	269	ePn	23	29.00	1.8
SRS	2.87	354	ePn	23	29.82	0.0
GRG	2.96	336	ePn	23	31.26	0.1
KNT	3.02	344	ePn	23	32.53	0.5
ALN	3.07	30	iPn	23	32.06	-0.6
RDO	3.12	22	ePn	23	33.20	-0.1
IGT	3.13	295	ePn	23	35.34	1.8
			eSn	24	14.11	
FNA	3.24	322	ePn	23	35.82	0.7
VAY	3.25	341	iPn	23	35.70	0.5
NPS	3.26	156	ePn	23	41.00	5.6X
CIN	3.30	100	eP	23	37.00	1.1
MMB	3.33	356	iP	23	36.00	-0.4
RZN	3.47	9	iP	23	38.00	-0.5
KDZ	3.56	17	iP	23	38.00	-1.6
KEK	3.58	295	ePn	23	41.50	1.5
EDC	3.65	54	ePn	23	41.00	0.1
KKB	3.67	349	iP	23	41.00	-0.2
BNT	3.69	54	ePn	23	40.00	-1.5
OHR	3.77	320	iPn	23	46.30	3.7X
			i	23	57.50	
			i	24	26.70	
			i	24	50.20	
			Lg	24	57.00	
DST	3.85	68	ePn	23	45.50	1.7
PLD	3.88	8	iP	23	45.00	0.9
KCT	3.92	58	ePn	23	45.00	0.2
DIM	3.96	17	iP	23	45.00	-0.3
SKO	4.20	333	iPn	23	51.50	2.9X
			iSg	25	00.00	
PGB	4.29	2	iP	23	50.00	0.0
KHL	4.35	87	eP	23	49.00	-1.9
YTS	4.37	352	iP	23	51.00	-0.3
YLV	4.76	59	eP	23	49.00	-7.7X
PVL	5.05	11	iP	23	59.00	-1.8
LCI	5.13	296	P	23	59.90	-2.0
ROI	5.94	285	P	24	12.70	-0.7
TDS	6.13	286	P	24	16.20	0.1
ORI	6.14	289	P	24	15.30	-0.9
CSI	6.19	287	P	24	15.50	-1.4
SOI	6.26	271	P	24	17.00	-0.9
MGR	6.82	289	P	24	25.50	-0.2
MTUR	7.01	6	eP	24	30.00	1.6
SGO	7.11	292	P	24	30.20	0.5
MLR	7.37	11	ePc	24	33.50	0.0
BZS	7.56	347	ePc	24	35.50	-0.5
CVO	7.73	11	eP	24	33.50	-4.9X
VRI	7.87	14	eP	24	35.00	-5.4X

DUI	8.08	298	P	24	44.10	0.7
SDI	8.54	297	P	24	49.60	-0.2
SLL	23.24	347	ePKP	27	50.00	-0.4
	0.3s		1.00nm		3.7mb	
NBZ	24.17	345	P	27	58.60	-0.9
	0.6s		0.80nm		3.4mb	
EKA	25.00	322	P	28	09.00	1.5
	1.4s		11.90nm		4.3mb	
LIC	41.34	227	(P)	30	30.00	0.1
YKA	74.22	341	eP	34	20.10	-0.3
	0.5s		0.40nm		3.7mb	

S.D. = 1.0 on 54 of 60 obs.

& APR 27, 1993 19h 42m 15.58s
 62.893 N 150.908 W

DEPTH = 100.4km

CENTRAL ALASKA

<AEIC>.

HUR	0.59	81	iP	42	32.01	-0.3
			eS	42	44.55	
TRF	0.63	26	iP	42	32.59	-0.3
			eS	42	46.08	
SKT	0.96	198	iP	42	35.49	-0.4
			eS	42	50.64	
RND	1.07	60	iP	42	36.67	-0.5
			eS	42	53.22	
MCK	1.23	46	eP	42	38.49	-0.4
PWA	1.34	158	eP	42	40.24	0.1
			eS	42	59.78	
SUA	1.44	177	eP	42	41.86	0.3
GHO	1.46	140	eP	42	41.60	-0.2
PLRM	1.55	147	eP	42	42.06	-0.7
SML	1.62	131	eP	42	43.11	-0.7
CRP	1.73	200	eP	42	45.22	-0.2
CPAM	1.74	200	eP	42	45.18	-0.3
CP2	1.75	202	eP	42	45.06	-0.6
PMS	1.77	158	eP	42	45.20	-0.5
BGL	1.78	204	eP	42	46.31	0.4
CKN	1.78	200	eP	42	46.41	0.6
SPU	1.80	198	eP	42	45.32	-0.8
CKT	1.81	200	eP	42	45.57	-0.6
CKL	1.83	202	eP	42	46.64	0.1
NEA	1.88	25	iP	42	46.14	-0.9
SCM	1.98	121	eP	42	47.25	-1.2
WRH	2.02	37	iP	42	48.05	-0.9
MLY	2.15	2	eP	42	49.88	-0.8
PTE	2.22	155	eP	42	50.27	-1.3
CCB	2.24	37	eP	42	50.74	-1.0
HDA	2.33	48	eP	42	51.89	-1.1
MDM	2.39	29	eP	42	52.79	-1.1
SLKM	2.42	172	eP	42	53.26	-1.0
FBA	2.44	33	eP	42	53.80	-0.7
PAX	2.49	86	eP	42	55.00	-0.3
SDG	2.50	96	eP	42	55.28	-0.1
MPA	2.52	162	eP	42	54.76	-0.8
GLM	2.61	35	eP	42	56.02	-0.9
TZL	2.69	106	eP	42	58.15	0.3
KLU	2.73	119	eP	42	56.44	-2.0
VLZ	2.79	127	eP	42	57.32	-1.9
SVW	2.86	233	eP	42	59.17	-1.0
SEW	2.89	165	eP	42	59.23	-1.3
DOT	3.19	73	eP	43	04.54	-0.1
HIN	3.27	138	eP	43	03.66	-2.1
CNPM	3.38	183	eP	43	06.55	-0.8
IMA	3.41	341	eP	43	06.70	-1.1
GLB	3.63	110	eP	43	08.81	-2.0

43 obs. associated

& APR 27, 1993 19h 51m 16.84s
 63.229 N 150.407 W

DEPTH = 121.2km

CENTRAL ALASKA

<AEIC>.

TRF	0.23	14	eP	51	33.87	1.5
			eS	51	46.58	
HUR	0.43	125	eP	51	34.33	-0.5
			eS	51	47.39	
RND	0.72	75	iP	51	36.40	-0.5
			eS	51	51.55	
MCK	0.83	52	iP	51	37.42	-0.3
			eS	51	52.29	
SKT	1.36	203	eP	51	42.51	-0.6
			eS	52	02.12	
NEA	1.48	23	eP	51	43.48	-0.9
			eS	52	02.91	

PWA	1.60	171	P	51	45.70	-0.2
WRH	1.62	38	iP	51	45.25	-0.8
GHO	1.62	154	eP	51	45.88	-0.3
			eS	52	08.43	
SML	1.72	145	eP	51	46.63	-0.8
			eS	52	09.85	
PLRM	1.75	160	eP	51	46.83	-0.8
SUA	1.78	185	eP	51	48.62	0.4
MLY	1.82	356	iP	51	47.73	-0.8
CCB	1.83	38	iP	51	47.72	-0.9
HDA	1.93	51	eP	51	48.95	-1.0
MDM	1.98	28	eP	51	49.73	-0.9
SCM	2.00	133	eP	51	50.07	-0.8
PMS	2.03	168	P	51	50.90	-0.3
FBA	2.03	33	eP	51	49.78	-1.4
THY	2.11	83	eP	51	52.82	0.6
CRP	2.13	203	eP	51	51.74	-0.9
CPAM	2.14	203	eP	51	53.09	0.4
CP2	2.15	204	eP	51	52.72	-0.2
BGL	2.18	206	eP	51	53.87	0.7
SPU	2.20	201	eP	51	53.21	-0.1
CKT	2.20	203	eP	51	53.92	0.4
GLM	2.21	36	eP	51	52.57	-0.9
CKL	2.23	205	eP	51	53.90	0.0
PAX	2.26	94	eP	51	53.77	-0.5
SDG	2.34	105	eP	51	54.22	-0.9
TTA	2.57	266	eP	51	56.63	-1.6
			eS	52	25.43	
TZL	2.59	115	eP	51	57.79	-0.6
KLU	2.72	128	eP	51	58.57	-1.7
SLKM	2.73	178	eP	52	00.05	-0.3
VLZ	2.84	136	eP	51	59.39	-2.3
DOT	2.88	79	eP	52	00.89	-1.4
NCT	2.93	205	eP	52	02.98	0.0
SEW	3.17	171	eP	52	05.10	-0.9
IMA	3.18	335	ePd	52	04.80	-1.5
SVW	3.24	231	P	52	07.00	-0.1
HIN	3.39	145	eP	52	07.19	-1.9
CVA	3.48	139	eP	52	09.82	-0.4
GLB	3.56	117	eP	52	10.08	-1.3
CNPM	3.74	186	eP	52	12.81	-0.9
BALM	4.38	117	(P)	52	20.38	-2.1

45 obs. associated

? APR 27, 1993 20h 06m 05.34 ± 12.84s
 38.909 N ± 25.4km 25.494 E ± 108.km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

MD 3.2 (ISK).

EZN	1.12	35	iPg	06	25.60	-0.7
			iSg	06	41.10	

KER	8.77	162	eP	09 14.00	0.7					ECO	6.96	292	eP	09 53.91	-0.4		
KAT	10.05	186	eP	09 31.00	0.2	UPP	23.45	326	iP	12 23.50	10.4X		eS	11 14.59			
KIS	11.44	297	eP	09 49.00	-0.7	MOTA	23.47	293	iPd	12 12.10	-1.6		iP	09 54.70	-1.1		
VAN	11.90	109	eP	09 48.00	-8.0X		0.9s	26.10nm			4.8mb		iS	11 11.40			
			iS	11 58.00				i	12 17.00	18km		ZOBO	23.44	168	P	13 11.30	-0.5
ASH	12.07	189	eP	09 52.00	-6.3X	GRF	23.47	299	eP	12 14.40	0.9	LPB	23.70	168	eP	13 15.00	0.9
VR1	12.64	290	eP	10 06.00	0.0			e	12 18.60	15km		CNCB	24.00	168	P	13 17.00	-0.1
ISR	12.68	287	eP	10 12.50	5.9X	FIR	23.66	284	eP	12 16.00	0.6	LTX	36.46	312	ePd	15 05.46	-1.2
CVO	13.02	290	eP	10 08.00	-3.0X	KSH	24.37	87	P	12 21.50	-1.0	LMN	39.59	9	eP	15 35.00	2.5X
MLR	13.14	288	eP	10 13.00	0.3		0.7s	20.00nm			4.8mb	ULM	47.31	340	ePd	16 35.00	1.3
OBN	13.23	342	(P)	10 12.00	-1.7		Z	12s	0.63um		4.3mszx	DAU	47.74	320	eP	16 38.29	-0.1
			i	10 17.00		HFS	25.26	324	eP	12 29.80	-0.9	BW06	48.09	324	eP	16 40.00	-1.0
			i	10 21.50			0.5s	2.40nm			4.2mb		1.0s	4.00nm		4.1mb	
			i	10 37.00			Z	16s	0.23um		3.8mszx	FCC	54.30	347	eP	17 28.00	0.9
			eS	12 30.00				LR	21 08.00			INK	73.05	340	eP	19 29.50	0.1
			i	12 58.00		CDF	26.03	295	eP	12 38.10	0.0	MBC	73.83	350	ePc	19 33.40	-0.4
			LO	14 00.00		BSF	26.37	294	eP	12 42.80	1.5		0.6s	2.00nm		4.0mb	
MOS	13.61	345	eP	10 26.00	7.4X	SDF	26.46	345	eP	12 50.00	8.2X	ASPA	149.05	234	ePKP	27 43.90	1.0
	Z	12s	1.10um			LPG	26.60	289	eP	12 45.30	1.6		0.6s	6.40nm			
MAIO	13.69	113	eP	10 16.00	-4.0X		1.5s	39.15nm			4.9mb	WB2	150.27	241	iPKPc	27 48.70	3.9X
MTUR	13.74	287	eP	10 14.00	-6.6X	LPL	26.62	289	eP	12 45.00	1.3		0.3s	11.00nm			
CMP	13.76	287	ePc	10 29.00	8.2X		1.3s	23.10nm			4.7mb	WRA	150.28	241	PKP	27 49.20	4.4X
MNK	15.49	322	eP	10 45.00	1.7	HAU	26.66	294	eP	12 43.90	0.1		0.5s	1.80nm			
VAY	15.86	272	eP	10 51.00	2.8X	NB2	26.77	324	P	12 43.10	-1.6		S.D. = 1.0 on 18 of 21 obs.				
SKO	16.56	275	eP	10 56.00	-1.2		0.8s	1.90nm			3.8mb	* APR 27, 1993 20h 33m 01.24±0.75s					
ARU	16.63	30	eP	10 54.00	-3.9X	LBF	28.34	292	eP	12 58.70	-0.4		17.536 S ± 8.6km	69.574 W ± 9.8km			
	Z	16s	0.50um			SSF	28.65	293	eP	13 01.70	-0.2		DEPTH = 175.9 ± 7.3 km				
SPC	17.57	300	eP	11 08.30	-1.7		0.9s	6.20nm			4.4mb		3.8mb (1 obs.)				
SVE	17.70	32	ePd	11 07.00	-4.2X	AVF	28.79	292	eP	13 03.10							

27d 21h

DEPTH = 10.0km (geophysicist)						ORI 0.94 348 P 21 06.30 0.6			EZN 4.48 121 ePn 23 30.00 0.2		
POLAND (548)						SOI 1.18 205 P 21 09.60 -0.2			ROI 4.48 235 P 23 29.30 -0.6		
ML 3.5 (VIE), 3.3 (GRF).						MGR 1.33 319 P 21 12.10 -0.2			CSI 4.54 239 P 23 29.10 -1.6		
KSP 0.71 172 iP 01 22.30 -0.5						eSn 21 30.40			MLR 4.66 44 eP 23 42.00 9.4X		
0.4s 82.00nm						ATN 1.38 225 P 21 13.00 0.0			ISR 4.77 51 eP 23 56.00 22.0X		
iS 01 31.80						LCI 1.53 39 P 21 15.70 0.6			UZD 4.78 337 ePn 23 32.80 -1.4		
BRG 1.53 245 ePn 01 36.10 -0.1						SGO 1.77 323 P 21 18.40 -0.2			SGO 4.83 252 P 23 34.50 -0.3		
iPg 01 37.00						BRT 1.78 12 P 21 18.00 -0.7			MGR 4.84 246 P 23 34.70 -0.3		
iSg 01 57.00						S.D. = 0.7 on 13 of 13 obs.			CVO 5.01 43 eP 23 58.00 20.7X		
PRU 1.85 214 ePn 01 40.50 -0.4						APR 27, 1993 22h 22m 20.40± 0.27s			DUI 5.16 266 P 23 39.20 -0.4		
0.4s 31.70nm						42.233 N ± 3.3km 21.332 E ± 2.7km			VRI 5.32 45 eP 23 45.00 3.2X		
Sn 01 59.50						DEPTH = 10.0km (geophysicist)			PTJ 5.33 315 eP 23 40.60 -1.4		
Sg 02 06.00						3.8mb (1 obs.)			VBY 5.48 309 ePn 23 43.40 -0.6		
e 02 13.00						NORTHWESTERN BALKAN REGION (383)			e(Sn) 25 32.90		
CLL 1.97 264 ePg 01 46.00 3.4X						ML 3.7 (TTG), 3.5 (TIR), 3.5			BUD 5.50 343 ePn 23 47.40 3.1X		
iSg 02 10.80						(THE). Felt in the Skopje area,			SDI 5.63 267 P 23 45.90 -0.3		
VRAC 2.25 172 ePn 01 47.40 0.7						Yugoslavia.			CFR 5.76 57 eP 24 06.00 18.1X		
0.3s 6.70nm						SKO 0.27 163 iPg 22 26.50 0.4			SOI 5.80 226 P 23 46.50 -2.0		
eSg 02 20.10						iSg 22 30.50			AOU 5.88 274 P 23 49.50 -0.2		
OJC 2.67 118 eP 01 58.90 6.2X						iSg 22 36.00 -1.0			RIY 5.91 304 e(Pn) 23 51.10 1.0		
iS 02 35.60						PHP 0.86 231 iPgd 22 48.50			SRO 5.98 340 eP 24 50.20 59.3X		
KHC 2.92 215 Pn 01 55.60 -0.5						iSg 22 48.50			CEY 6.09 307 ePn 23 50.00 -2.6X		
iPg 02 02.10						PVY 1.07 290 iPgc 22 40.22 -0.4			e(Sn) 25 22.00		
eSn 02 28.00						iSg 22 54.82			LJU 6.20 310 e(Pn) 23 51.50 -2.7X		
eSg 02 40.50						OHR 1.19 200 iPg 22 42.70 0.1			e 25 54.00		
HOF 2.96 247 eP 01 56.80 0.1						iSg 23 00.50			ARV 6.29 284 P 23 54.50 -1.1		
MOX 2.98 254 ePg 01 04.80 -52.3X						Lg 23 04.50			MNS 6.42 274 P 23 56.60 -0.7		
iSg 02 44.70						IVA 1.24 302 iPgd 22 42.82 -0.6			ASS 6.45 280 P 23 57.40 -0.4		
GEC2 3.12 211 Pn 01 59.20 0.2						iSg 23 00.15			TRI 6.47 305 e(Pn) 23 58.83 0.8		
Pg 02 06.20						VAY 1.30 134 iPnc 22 43.40 -1.0			e(Sn) 25 13.00		
Sn 02 34.70						iSn 23 03.20			e(SgSg) 25 56.30		
Sg 02 50.20						iSg 23 05.60			VOY 6.56 308 ePn 23 58.20 -1.2		
WET 3.18 222 iPnc 02 00.10 0.3						Lg 23 08.30			e 24 22.00		
VKA 3.28 178 iPgc 02 09.80 8.5X						LACI 1.35 244 iPnd 22 46.50 1.3			eSn 25 15.60		
iSg 02 53.70						iSn 23 08.50			e 25 17.40		
SPC 3.53 130 eP 02 17.10 12.1X						KKB 1.35 105 iP 22 46.00 0.7			e(Sg) 25 40.20		
GRF 3.63 241 ePn 02 06.60 0.3						TIR 1.41 232 iPnd 22 47.00 0.9			e 26 00.70		
ePg 02 18.90						iSn 23 10.00			ZST 6.67 335 e(P) 24 02.60 1.8		
eSg 03 04.60						VTS 1.43 75 iP 22 46.00 -0.6			e 24 26.50		
BSD 3.65 349 iP 02 06.40 -0.1						FNA 1.45 179 ePb 22 47.52 0.8			RBL 6.98 310 P 24 03.70 -1.5		
eS 02 49.00						eSb 23 08.30			SPC 7.00 354 eP 24 10.60 5.0X		
S.D. = 0.4 on 10 of 15 obs.						GRG 1.51 147 ePb 22 47.85 0.4			SFI 7.14 287 P 24 08.80 1.4		
APR 27, 1993 21h 10m 45.87± 0.85s						eSb 23 09.92			KBA 7.47 313 iPc 24 10.80 -1.4		
65.630 N ± 7.4km 149.176 W ± 6.3km						TTG 1.55 278 iPgc 22 49.12 1.1			i 24 14.60		
DEPTH = 10.0km (geophysicist)						iSg 23 11.42			i 24 24.00		
NORTHERN ALASKA (676)						ULC 1.57 261 iPgc 22 49.62 1.2			e 25 40.00		
ML 2.6 (AEIC).						iSg 23 13.24			FVI 7.51 308 P 24 12.10 -0.5		
MDM 0.78 149 iP 11 00.42 -0.7						KNT 1.59 132 iPb 22 48.36 -0.3			CTI 7.94 302 P 24 17.10 -1.6		
eS 11 10.61						eSb 23 11.04			BDI 8.06 287 P 24 20.30 -0.1		
MLY 0.89 228 eP 11 02.49 -0.5						ePn 22 49.70 0.0			WTTA 8.54 309 iPc 24 26.20 -0.9		
S 11 16.04						iSn 23 15.70			i 24 27.50		
FBA 0.94 141 P 11 03.20 -0.5						PLE 1.80 308 iPnc 22 52.37 0.6			KHC 8.77 324 eP 24 32.00 1.8		
S 11 15.30						iSn 23 16.93			EKA 20.65 318 Pc 27 02.50 0.0		
GLM 0.99 130 eP 11 04.17 -0.5						NKY 1.82 289 iPnd 22 53.47 1.4			0.9s 3.80nm 3.8mb		
eS 11 16.37						iSn 23 18.65			S.D. = 1.1 on 64 of 82 obs.		
NEA 1.06 178 eP 11 05.69 -0.1						BDV 1.86 272 iPnd 22 54.97 2.4			? APR 27, 1993 23h 38m 30.07± 3.29s		
eS 11 19.38						iSn 23 19.62			33.674 S ±14.7km 71.973 W ±26.2km		
CCB 1.14 149 eP 11 06.49 -0.8						MMB 1.90 109 iP 22 53.00 -0.2			DEPTH = 33.0km (normal)		
S 11 21.75						THE 2.02 142 ePn 22 54.56 -0.2			NEAR COAST OF CENTRAL CHILE (135)		
WRH 1.25 158 eP 11 08.56 -0.6						SRS 2.03 123 iPn 22 54.34 -0.7			MD 4.1 (SAN).		
eS 11 24.57						eSn 23 22.44			LCCH 0.39 60 iP 38 37.75 -1.3		
HDA 1.55 141 eP 11 14.30 0.8						SOH 2.07 132 ePn 22 55.44 -0.2			LNV 0.55 121 iP 38 42.14 0.8		
eS 11 32.88						HCV 2.11 277 iPnd 22 58.50 2.3			iS 38 49.37		
FYU 1.86 58 eP 11 18.66 0.6						PGB 2.12 80 iP 22 59.00 2.5			TACH 0.86 89 iP 38 44.78 -1.1		
eS 11 43.91						LSK 2.15 195 ePn 23 00.00 3.1X			SAN 1.12 79 iP 38 48.96 -0.5		
IMA 1.90 285 eP 11 17.98 -0.8						BRY 2.17 289 iPnc 22 58.80 1.7			CHCH 1.13 104 eP 38 49.58 -0.1		
eS 11 44.63						iSn 23 26.62			iS 39 02.16		
MCK 1.91 177 eP 11 20.34 1.6						TPE 2.18 208 ePn 23 02.50 5.3X			PEL 1.20 64 iP 38 49.80 -0.9		
S 11 45.22						VLO 2.24 219 ePn 23 05.00 6.9X			iS 39 03.13		
TRF 2.24 193 eP 11 25.12 1.4						LIT 2.30 157 ePn 22 59.20 0.2			PCH 1.22 88 eP 38 50.40 -0.6		
S.D. = 1.0 on 12 of 12 obs.						PLD 2.51 92 iP 23 02.00 0.1			iS 39 03.84		
APR 27, 1993 22h 20m 47.74± 0.75s						RZN 2.58 101 iP 23 02.00 -1.1			FCH 1.45 77 iP 38 53.96 -0.5		
39.141 N ± 4.6km 16.699 E ± 6.5km						SSR 2.65 6 iPd 23 09.00 5.1X			iS 39 10.25		
DEPTH = 10.0km (geophysicist)						IGT 2.80 196 iPn 23 07.72 1.6			JACH 1.52 50 eP 38 54.30 -1.1		
SOUTHERN ITALY (390)						PAIG 2.91 142 ePn 23 06.80 -0.7			MDZ 2.73 74 iP 39 16.70 4.1X		
ACI 0.44 299 P 20 56.30 -0.4						KDZ 3.10 99 iP 23 08.00 -2.3X			i 39 19.80		
ROI 0.44 347 P 20 56.80 0.1						LCI 3.17 234 P 23 10.00 -1.3			iS 39 50.30		
CZI 0.45 280 P 20 57.30 0.5						AGG 3.30 166 ePn 23 13.28 0.2			RTBS 2.92 47 ePc 39 18.20 3.0X		
TDS 0.59 332 P 20 58.70 -0.9						BRT 3.38 248 P 23 14.40 0.1			S 39 40.00		
eSg 21 09.90						HVAR 3.72 286 ePn 23 18.70 -0.4			RTCV 3.41 59 ePd 39 24.50 2.2		
CSI 0.71 334 P 21 01.20 -0.5						DEV 3.82 17 ePd 23 33.00 12.5X			RTCB 3.45 52 eP 39 36.20 13.2X		
MMN 0.93 324 P 21 06.80 1.4						MTUR 4.03 41 eP 23 32.00 8.4X			(S) 39 47.00		
						CMP 4.05 40 ePc 23 40.00 16.2X			ZON 3.50 54 eP 39 25.00 1.5		
						ORI 4.28 241 P 23 27.40 0.4			CFA 3.76 58 eP 39 39.80 12.6X		
									S 39 52.00		

RTRS 4.09 32 ePc 39 33.00 1.1
S 40 09.50
MRA 5.41 78 e(P) 39 51.90 1.4
i 40 06.80
RTPR 5.73 56 e(P)d 39 58.83 3.8X
ZOBO 17.67 12 P 42 35.00 -1.0
S.D. = 1.3 on 14 of 19 obs.

APR 27, 1993 23h 57m 06.15 ± 0.48s
40.769 S ± 5.6km 174.530 E ± 6.6km
DEPTH = 97.9 ± 8.1 km
3.9mb (2 obs.)

COOK STRAIT, NEW ZEALAND (163)

KIW 0.30 108 P 57 20.50 -0.2
MRW 0.48 164 P 57 22.20 0.4
S 57 31.90
TCW 0.48 203 P 57 22.00 0.2
CAW 0.53 130 P 57 22.60 0.4
WEL 0.55 161 P 57 22.80 0.5
S 57 33.20
MNG 0.74 79 P 57 24.10 0.1
S 57 35.70
MTW 0.83 118 P 57 25.60 0.7
MOW 0.85 140 P 57 26.00 0.9
BLW 0.93 130 P 57 26.90 0.9
BSZ 1.02 18 P 57 27.20 0.3
PGZ 1.33 84 P 57 30.80 0.2
NRZ 1.50 342 P 57 32.90 0.2
QRZ 1.52 267 P 57 32.40 -0.5
THZ 1.58 230 P 57 34.30 0.6
S 57 54.40
CNZ 1.75 27 eP 57 36.20 0.2
WAHZ 1.76 53 eP 57 36.00 0.0
NGZ 1.79 28 eP 57 36.70 0.1
KHZ 1.81 204 P 57 37.50 0.9
eS 57 58.20
MOZ 2.27 5 P 57 43.00 0.3
eS 59 08.30
DSZ 2.28 244 P 57 42.40 -0.5
LTZ 2.63 219 P 57 47.40 -0.2
eS 58 16.50
URZ 3.20 39 P 57 53.30 -2.1
S 58 29.90
MQZ 3.25 205 P 57 54.60 -1.4
S 58 28.80
NOZ 3.45 53 P 57 56.70 -2.1
WVZ 3.65 230 eP 58 00.40 -1.1
eS 58 39.60
ODZ 5.14 212 P 58 19.80 -2.3
WBZ 39.96 289 iPc 04 33.60 1.1
0.4s 2.80nm 4.5mb
WRA 39.97 289 P 04 35.00 2.4
0.9s 0.50nm 3.4mb
S.D. = 1.1 on 28 of 28 obs.

% APR 28, 1993 00h 04m 02.23 ± 0.52s
42.522 N ± 4.6km 19.207 E ± 4.7km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
ML 1.4 (TTG).

TTG 0.10 157 iPgc 04 06.13 1.2
iSg 04 09.05
NKY 0.33 332 iPgc 04 09.77 0.7
iSg 04 15.15
BDV 0.37 230 iPgd 04 09.87 0.1
iSg 04 16.17
HCY 0.53 262 iPgc 04 12.65 -0.3
iSg 04 21.25
ULC 0.56 177 iPgc 04 12.88 -0.7
iSg 04 21.63
PVY 0.57 82 iPgd 04 13.57 -0.3
iSg 04 22.52
BRY 0.62 308 iPgd 04 14.55 -0.2
iSg 04 24.40
IVA 0.62 55 ePg 04 14.53 -0.2
iSg 04 23.97
PLE 0.82 10 iPgd 04 18.00 -0.2
iSg 04 30.98
S.D. = 0.7 on 9 of 9 obs.

* APR 28, 1993 00h 39m 24.20 ± 1.23s
50.343 N ± 16.8km 18.906 E ± 7.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.8 (WAR).

RAC 0.53 241 eP 39 34.00 -0.8
eS 39 41.00
OJC 0.59 102 ePg 39 35.20 -0.9
eSg 39 44.00
SPC 1.45 143 iPn 39 51.60 1.0
i(Sn) 40 11.70
KSP 1.74 288 iPg 39 55.00 0.4
eS 40 17.50
VRAC 1.82 236 ePn 39 56.00 0.3
0.6s 24.30nm
eSg 40 19.00
PRU 2.83 264 eP 40 16.50 6.3X
e 40 41.50
eSg 40 50.40
KHC 3.66 253 eP 40 31.00 8.9X
Sg 41 15.70
S.D. = 1.2 on 5 of 7 obs.

? APR 28, 1993 00h 51m 59.03 ± 1.97s
30.951 S ± 18.2km 68.798 W ± 16.1km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.47 143 iPc 52 38.50 29.2X
S 52 49.00
RTCB 0.53 180 iPd 52 11.00 0.8
S 52 22.00
CFA 0.81 144 ePc 52 13.50 -0.6
S 52 26.50
RTBS 0.90 218 ePd 52 15.00 -0.3
S 52 28.00
RTPR 2.07 72 ePd 52 32.30 0.1
S.D. = 1.0 on 4 of 5 obs.

? APR 28, 1993 01h 06m 52.09 ± 1.21s
38.042 N ± 13.6km 1.169 W ± 11.2km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.7 (MDD).

EALH 0.27 227 ePg 06 58.50 0.7
eSg 07 03.00
ACU 0.76 52 ePg 07 07.00 0.0
eSg 07 17.00
EVIA 1.21 300 iPnc 07 15.00 0.4
eSn 07 30.00
ECOG 2.05 249 ePn 07 26.00 -1.1
S.D. = 1.4 on 4 of 4 obs.

% APR 28, 1993 01h 16m 19.47 ± 1.04s
39.232 N ± 6.3km 16.266 E ± 10.7km
DEPTH = 68.7 ± 13.0 km

SOUTHERN ITALY (390)

CZI 0.10 262 P 16 28.70 -0.7
ACI 0.13 338 P 16 29.00 -0.5
ROI 0.41 35 P 16 31.70 0.1
TDS 0.43 7 P 16 31.90 0.2
eSg 16 40.10
CSI 0.54 2 P 16 33.90 1.1
MMN 0.69 342 P 16 34.00 -0.3
ORI 0.84 10 P 16 37.20 1.0
eSg 16 49.50
MGR 1.06 329 P 16 38.70 -0.2
eSg 16 52.70
SOI 1.17 188 P 16 41.30 1.0
eSg 16 57.50
ATN 1.24 211 P 16 40.70 -0.6
eSg 16 56.90
SGO 1.52 331 P 16 45.40 0.4
LCI 1.70 49 P 16 47.60 0.0
eSn 17 08.40
BRT 1.79 23 P 16 47.30 -1.5
S.D. = 0.9 on 13 of 13 obs.

APR 28, 1993 01h 39m 19.56 ± 0.27s
40.106 S ± 2.9km 174.885 E ± 3.6km
DEPTH = 27.1 ± 3.3 km
COOK STRAIT, NEW ZEALAND (163)
ML 3.8 (WEL).

BSZ 0.31 7 P 39 27.20 0.3
MNG 0.69 138 Pd 39 32.70 -0.2
S 39 41.50
KIW 0.76 178 P 39 33.70 -0.4
DRZ 0.98 33 eP 39 37.90 0.1
CAW 1.01 172 P 39 37.80 -0.1

CNZ 1.04 30 P 39 37.60 -0.9
NRZ 1.06 316 P 39 40.00 1.3
NGZ 1.08 31 P 39 38.10 -1.0
MRW 1.13 187 P 39 39.40 -0.3
S 39 54.80
MTW 1.15 156 P 39 40.30 0.4
PGZ 1.18 116 P 39 40.70 0.4
WEL 1.18 184 P 39 40.90 0.6
eS 39 56.50
TCW 1.20 203 P 39 40.30 -0.3
WAHZ 1.20 71 P 39 40.60 -0.1
BLW 1.34 161 P 39 43.40 0.8
MOW 1.34 168 P 39 43.40 0.8
TEHZ 1.48 86 eP 39 44.80 0.1
MOZ 1.60 358 P 39 46.40 0.1
S 40 06.70
WHH 1.74 46 eP 39 48.40 -0.1
QRZ 1.94 247 P 39 51.20 0.0
THZ 2.23 222 eP 39 55.30 -0.3
KHZ 2.52 203 P 39 59.30 -0.3
URZ 2.53 44 P 39 58.60 -1.1
eS 40 28.60
DSZ 2.85 234 eP 40 04.20 -0.1
LTZ 3.32 215 P 40 09.90 -1.0
WVZ 4.30 225 eP 40 23.90 -0.9
ODZ 5.84 211 eP 40 42.10 -4.5X
INK 114.74 19 ePKP 57 59.00 1.0
1.0s 12.00nm
MBC 123.20 15 ePKP 57 55.00 -18.9X
S.D. = 0.7 on 27 of 29 obs.

APR 28, 1993 02h 14m 03.79 ± 0.34s
59.031 S ± 8.1km 25.841 W ± 7.0km
DEPTH = 33.0km (normal)
5.4mb (14 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.99 148 iPc 17 34.60 0.0
0.6s 95.00nm 5.3mb
NVL 19.41 142 iPc 18 30.00 0.5
2.0s 87.00nm 4.7mb
eS 22 07.00
e 22 32.00
e 24 02.00
SPA 31.14 180 iPd 20 22.30 1.0
0.8s 25.83nm 5.1mb
VAO 39.01 328 eP 21 30.60 1.8
TUH 39.29 69 iPc 21 24.00 -6.9X
1.0s 40.00nm 5.1mb
CER 39.31 69 iPc 21 29.00 -2.1
1.0s 80.00nm 5.4mb
CFA 39.45 295 iPd 21 32.50 0.2
RTLL 39.79 295 iPc 21 35.20 0.1
SUR 40.84 70 iPc 21 50.50 6.6X
1.5s 140.00nm 5.5mb
PPD 41.20 323 eP 21 46.30 -0.4
POF 42.90 67 iPd 22 03.50 2.9X
1.0s 40.00nm 5.1mb
FRS 45.20 73 iPd 22 20.50 1.4
0.7s 33.00nm 5.3mb
BLF 46.16 73 eP 22 07.00 -19.9X
WIN 47.43 59 iPc 22 38.50 1.4
0.6s 37.00nm 5.6mb
SEK 47.52 74 iPc 22 37.00 -0.7
1.1s 90.00nm 5.7mb
PRY 48.60 73 iPc 22 47.00 1.0
0.9s 65.00nm 5.7mb
KSR 49.20 71 iPc 22 50.50 -0.2
1.0s 160.00nm 6.0mb
SLR 49.99 73 iPc 22 56.10 -0.6
0.9s 50.00nm 5.5mb
CNCB 52.17 306 P 23 14.00 0.1
LPB 52.47 306 eP 23 15.00 -0.9
ZOBO 52.72 306 P 23 17.00 -1.0
LR 37 08.00

ARE 53.99 302 eP 23 28.00 1.0
BUL 54.87 69 iPd 23 32.90 -0.4
LIC 67.15 23 P 24 56.00 0.6
KIC 67.34 23 P 24 58.00 0.6
TIC 67.56 22 P 24 59.40 0.6
TOO 83.48 173 eP 26 49.00 19.9X
1.0s 39.00nm
8FD 83.66 171 eP 26 50.00 20.0X
0.9s 18.00nm
STK 88.83 169 eP 26 56.00 0.6
0.5s 1.60nm 4.6mb
i 27 15.70

28d 02h

ASPA	95.92	161	ePKP	27	28.20	-0.2
NB2	123.15	21	PKP	32	56.40	-0.6
	0.9s		2.00nm			
NUR	125.52	28	ePKP	33	00.80	-0.8
FRB	126.70	338	ePKP	33	03.00	-0.7
	1.0s		7.00nm			
KAF	127.31	28	ePKP	33	04.20	-0.8
	0.3s		2.00nm			
YKA	138.84	315	ePKP	33	16.50	-10.3X
	1.0s		3.10nm			
GTA	140.78	95	ePKP	33	24.50	-6.7X
NJ2	144.13	123	PKPc	33	35.00	-2.0
BTO	146.87	104	ePKP	33	43.00	1.5
MBC	147.00	334	ePKP	33	39.50	-1.0
	1.0s		7.00nm			
HHC	147.83	105	PKPc	33	46.00	3.0X
INK	148.53	317	ePKP	33	47.00	3.9X
	0.9s		4.00nm			

S.D. = 1.0 on 31 of 41 obs.

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APR 28, 1993 02h 32m 13.72± 0.20s
45.286 N ± 3.9km 149.993 E ± 3.2km
DEPTH = 99.0km ( 25 depth phases)
5.2mb ( 99 obs.)
KURIL ISLANDS (221)
Mw 5.3 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 29S, 46C
Centroid Location:
Origin Time 02:32:15.5 0.4
Lat 45.21N 0.05 Lon 150.07E 0.05
Dep 98.5 3.3 Half-duration 1.1
Moment Tensor; Scale 10**16 Nm
Mrr= 3.31 0.31 Mtt=-1.71 0.56
Mff=-1.60 0.48 Mrt= 7.50 0.41
Mrf= 3.65 0.41 Mtf= 5.47 0.58
Principal Axes:
T Val= 11.63 Plg=45 Azm=323
N -3.34 37 101
P -8.30 22 209
Best Double Couple:Mo=1.0*10**17
NP1:Strike=345 Dip=40 Slip= 159
NP2: 91 77 55

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KUR	1.50	269	iPnd-	32	43.00	2.7
			iS	33	02.00	
YSS	5.34	291	iPnc+	33	34.20	1.7
Z	14s					
E	14s		2.10um			
			iS	34	32.00	
SKR	6.76	35	iPnc	33	50.50	-1.5
			iS	35	04.10	
AOMJ	8.49	240	eP	34	14.70	-0.9
			eS	35	43.30	
OFUJ	8.75	228	eP	34	17.10	-2.1
			eS	35	49.20	
OKH	9.46	333	ePnc	34	30.00	1.3
Z	14s		1.80um			
			iS	36	17.00	
PET	9.59	33	ePn	34	24.00	-6.4X
Z	20s		1.40um			
			eS	36	10.00	
YAMJ	10.28	230	eP	34	37.40	-2.5
			eS	36	28.90	
NIIJ	11.52	230	P	34	54.80	-1.5
KAKJ	11.73	223	P	34	57.20	-1.8
			eS	36	59.50	
CHJJ	12.43	226	P	35	06.80	-1.5
			S	37	17.80	
MAT	12.47	230	eP	35	07.00	-1.8
	0.8s		74.63nm			5.4mb
			eS	37	19.00	
MTMJ	12.66	231	P	35	10.80	-0.5
VLA	13.17	267	iPnd	35	16.00	-1.9
IIDJ	13.43	227	eP	35	21.80	0.4
			eS	37	48.10	
TSRJ	14.43	232	P	35	35.20	1.0
MDJ	14.46	275	eP	35	34.80	0.1
	0.9s		41.00nm			4.7mb
			eS	38	08.00	
MGD	14.85	2	ePc+	35	37.00	-2.5X
	1.2s		230.00nm			5.3mb
Z	15s		0.50um			4.4MszX
			eS	38	18.00	
WKYJ	15.62	230	P	35	54.70	5.3X
YONJ	16.13	237	P	35	55.90	0.2

TKSJ	16.65	233	P	36	01.90	-0.3
SMY	17.43	56	eP	36	15.70	4.1X
CN2	17.55	274	eP	36	12.00	-1.2
	0.8s					
		33.00	nm			4.6mb
Z	13s	0.83	um			4.3MsZX
N	11s	0.34	um			
E	11s	0.43	um			
			eP	36	24.00	
SEY	17.70	4	eP	36	13.00	-2.0
	1.4s	180.00	nm			5.1mb
			eS	39	27.00	
SNY	19.42	269	eP	36	34.00	-0.5
	1.4s	110.00	nm			5.0mb
			pP	36	52.40	91km
			S	40	00.00	
YAK	20.47	332	iPd-	36	43.00	-2.1
	1.3s	383.00	nm			5.6mb
Z	23s	1.00	um			4.1MsZX
N	20s	0.70	um			
E	16s	0.70	um			
			i	37	08.00	137kmX
			iPPP	37	18.00	
			iS	40	22.00	
			eSS	40	54.00	
DL2	21.92	263	eP	37	02.20	2.4
			S	40	54.00	
ADK	22.86	61	eP	37	05.20	-3.7X
BOD	25.23	313	eP	37	29.30	-2.2
	0.7s	27.00	nm			4.8mb
BJ1	25.30	270	eP	37	34.00	1.7
	2.0s	250.00	nm			5.3mb
			eP	38	00.00	124kmX
			eS	41	50.00	
T1A	26.35	261	eP	37	45.70	3.7X
			eS	42	05.50	
SSE	26.54	248	Pc	37	45.50	1.8
	1.0s	11.00	nm			4.3mb
			S	42	10.00	
ILT	27.89	25	iPd	37	54.00	-1.6
	1.5s	162.00	nm			5.4mb
			iSp	38	14.00	
			iPPP	38	40.00	
			iS	42	27.00	
MHC	28.24	275	Pc	38	01.50	2.3
	1.0s	85.00	nm			5.3mb
Z	16s	0.59	um			4.3MsZX
N	13s	0.61	um			
			S	42	35.00	
T1K	28.30	346	iPc	37	55.00	-4.3X
	2.0s	143.00	nm			5.3mb
Z	14s	0.40	um			4.2MsZX
			e	38	20.00	115kmX
			ePPP	38	50.00	
			i	41	09.00	
			eS	42	25.00	
T1Y	28.93	268	eP	38	07.50	2.1
Z	30s	0.94	um			4.2MsZX
N	14s	0.51	um			
			S	42	46.00	
BTO	29.42	275	eP	38	08.00	-1.8
	11s	0.31	um			
N	10s	0.22	um			
XAN	33.22	265	P	38	42.70	-0.4
	0.6s	7.00	nm			4.7mb
			S	43	48.00	
TTA	34.95	40	eP	38	57.44	-0.2
	1.1s	15.81	nm			4.9mb
SVW	35.04	43	eP	38	58.68	0.3
	1.1s	27.45	nm			5.1mb
			eP	39	22.47	102km
LZH	35.76	272	Pd	39	06.00	1.1
	1.6s	130.00	nm			5.6mb
			eS	44	32.00	
BRW	36.23	26	iPd	39	07.76	-0.4
			eP	39	30.25	95km
IMA	36.26	35	iPc	39	08.44	-0.3
	0.6s	9.20	nm			4.9mb
CRP	36.72	43	eP	39	12.46	-0.2
KDC	36.76	49	eP	39	11.90	-0.9
	0.6s	10.89	nm			5.0mb
GTA	37.05	279	Pc			

		0.9 s	16.45nm			4.9mb
			epP	39	47.59	98km
CD2		38.58	264 P	39	29.00	0.5
		0.6 s	38.00nm			5.4mb
			S	45	15.10	
FBA		38.65	37 eP	39	28.72	0.1
		0.6 s	16.89nm			5.1mb
			epP	39	51.08	95km
KLU		39.70	43 eP	39	36.55	-0.8
			epP	39	59.90	100km
ELT		41.07	305 iPd	39	47.50	-1.1
		2.0 s	70.00nm			5.1mb
			e	41	21.00	510kmX
			eS	45	47.00	
KMI		42.83	258 Pd	40	05.00	1.4
		1.8 s	60.00nm			5.1mb
			S	46	20.00	
WMO		43.43	291 P	40	08.70	0.6
		1.0 s	70.00nm			5.4mb
Z		14 s	0.78um			4.8MsZ
			eS	46	32.00	
INK		44.04	31 ePc	40	13.90	1.3
		1.0 s	13.00nm			4.7mb
MBC		46.70	19 eP	40	33.00	-0.6
		0.5 s	7.00nm			4.7mb
LSA		48.17	272 P	40	47.30	1.1
		0.6 s	13.00nm			5.0mb
CHG		49.65	255 eP	40	57.00	-0.2
FRU		52.35	296 iPc	41	16.80	-0.6
		2.0 s	210.00nm			5.8mb
			e	41	42.00	105km
KSH		53.22	292 P	41	24.50	0.6
		1.2 s	100.00nm			5.7mb
Z		24 s	0.68um			4.6MsZ
			pP	41	48.00	96km
YKA		53.39	35 eP	41	23.70	-0.9
		0.9 s	11.80nm			4.9mb
SVE		53.43	317 iP	41	24.00	-1.0
		1.9 s	120.00nm			5.6mb
			e	42	02.00	166kmX
			e	42	30.50	
ARU		54.61	317 eP	41	30.50	-3.2X
		1.5 s	120.00nm			5.7mb
KEV		57.98	340 eP	41	55.00	-2.6X
DAG		58.01	357 eP	41	55.30	-2.4X
		0.5 s	18.31nm			5.4mb
DPW		59.42	51 eP	42	08.01	0.1
			epP	42	32.20	97km
NEW		59.79	51 eP	42	10.31	-0.1
		1.1 s	25.35nm			5.3mb
			epP	42	35.13	100km
ORV		62.39	61 eP	42	27.82	-0.2
MOR7		63.58	341 eP	42	32.63	-2.9
FCC		63.66	32 ePc	42	37.50	1.5
KAF		63.83	334 iP	42	34.30	-2.8X
		0.4 s	8.90nm			5.0mb
CMB		64.01	61 (P)	42	38.33	-0.4
		0.9 s	8.37nm			4.7mb
LCCM		64.11	50 eP	42	39.90	0.5
			e	43	05.10	100km
PUL		64.28	331 eP	42	48.00	8.0X
QUE		64.63	288 eP	42	44.10	1.1
KVN		64.78	59 (P)	42	44.51	0.6
HYB		64.83	270 eP	42	43.30	-1.0
OBN		65.26	324 iPc	42	40.00	-6.4X
		1.8 s	240.00nm			5.8mb
Z		20 s	1.00um			5.0MsZ
			eS	51	08.00	
ASH		65.31	300 eP	42	47.00	0.0
BONR		65.34	60 (P)	42	47.99	0.3
			epP	43	14.78	107km
VAN		65.46	300 iPc	42	47.00	-1.0
		1.5 s	100.00nm			5.5mb
NUR		65.58	334 iP	42	45.60	-2.8X
		0.4 s	16.20nm			5.3mb
KAT		65.78	302 iP+	42	51.50	1.5
HVU		66.19	54 (P)	42	54.07	1.2

BW06	67.36	52	epP	43	24.21	97km	CMP	77.54	324	iPc	44	04.00	4.2X	Z	25s	0.17um	4.3MszX			
	0.8s	9.50nm	eP	42	59.77	-0.5	MOX	77.87	334	eP	44	01.20	-0.3	KNT	81.78	323	e(P)	44	22.20	-0.4
			epP	43	24.19	96km		1.8s	118.00nm				5.4mb	VAY	81.79	323	iP	44	23.70	1.1
POD	67.41	274	eP	43	05.50	4.8X	SRO	78.07	329	iPKP	44	02.70	0.1	BSF	81.81	336	eP	44	22.00	-0.8
DAU	67.95	55	(P)	43	04.57	0.4			i	44	04.80	7kmX			0.8s	13.15nm			4.8mb	
UPP	68.20	336	iP	43	02.40	-2.5	HOF	78.08	334	eP	44	02.30	-0.4	PVY	81.81	325	iPc	44	22.42	-0.5
GBA	68.20	267	Pc	43	05.00	-0.6	BUD	78.08	328	iPc	44	03.80	1.1	OSS	81.82	333	ePd	44	23.60	0.7
ARUT	68.40	58	eP	43	07.73	1.0	ZST	78.18	330	e(PKP)	44	03.50	0.3	SOH	81.87	322	e(P)	44	23.04	0.0
EMUT	68.60	55	eP	43	08.10	0.0			e	44	09.50	19kmX	CTI	81.90	332	P	44	22.40	-0.9	
			epP	43	34.31	103km			e	44	19.20		MIAR	81.93	48	eP	44	23.33	-0.1	
MSU	68.67	57	eP	43	08.60	0.1	KHC	78.57	332	iP	44	05.40	-0.1		0.8s	9.53nm			4.7mb	
			epP	43	33.41	97km		1.1s	55.00nm				5.3mb	BBS	81.93	335	P	44	23.38	0.1
NB2	68.88	340	P	43	06.80	-2.4			e	44	45.50	163kmX	LLS	82.02	334	P	44	24.60	0.6	
	0.6s	28.40nm				5.3mb	BZS	78.64	326	eP	44	04.50	-1.3	NKY	82.02	326	iPc	44	23.22	-0.7
HFS	69.04	338	eP	43	07.70	-2.4	EEO	78.78	32	eP	44	08.50	1.9	ELL	82.09	315	eP	44	25.10	0.7
	0.4s	42.60nm				5.6mb	GEC2	78.78	332	ePc	44	06.10	-0.6	BRY	82.13	326	iPc	44	23.37	-1.1
Z	17s	0.22um				4.5MszX		0.6s	19.43nm			5.1mb	GRG	82.17	323	e(P)	44	24.72	0.1	
		LR		12	52.00		WET	78.79	333	iPc	44	07.00	0.4	THE	82.19	322	e(P)	44	24.72	0.0
ULM	69.04	39	eP	43	12.00	1.8	GRF	78.83	334	iPc	44	07.10	0.3	VDL	82.21	334	P	44	25.30	0.3
GRO	69.07	311	iPc	43	12.00	1.4		1.0s	171.00nm			5.8mb	LOMF	82.24	336	P	44	24.99	0.0	
NAO	69.16	340	P	43	06.72	-4.1X	Z	21s	0.10um			4.1Msz	TTG	82.24	326	eP	44	24.20	-0.7	
SRU	69.24	55	eP	43	11.80	-0.1			e(pP)	44	46.90	161kmX	PAIG	82.46	321	e(P)	44	25.60	-0.5	
			epP	43	36.44	96km	EYL	78.98	318	eP	44	04.00	-3.9X	HCY	82.53	326	eP	44	25.24	-1.2
RSSD	69.42	48	eP	43	11.60	-1.4	MEQ	79.05	51	iPd	44	04.40	-3.9X	BDV	82.54	326	iPc	44	25.17	-1.3
	0.7s	7.14nm				4.6mb	TNS	79.18	336	iPd	44	09.10	0.3	CPZ	82.60	344	eP	44	26.60	0.0
			epP	43	37.00	99km	DMU	79.25	346	eP	44	09.70	0.7		1.2s	28.00nm			5.0mb	
MNK	69.70	328	eP	43	10.00	-4.2X	ENN	79.39	338	eP	44	09.00	-0.8	ULC	82.64	325	eP	44	25.54	-1.5
PYA	69.99	313	eP	43	16.00	-0.2		0.8s	44.00nm			5.3mb	OHR	82.72	324	iP	44	27.10	-0.4	
	1.5s	130.00nm				5.5mb	DLF	79.76	346	eP	44	12.00	0.3		0.6s	71.00nm			5.7mb	
Z	18s	1.00um				5.1Msz	UCC	79.77	339	P+	44	12.00	0.2	TMA	82.74	334	ePd	44	28.00	0.3
		i		45	50.00		DCN	79.84	346	eP	44	12.00	-0.1	FNA	82.75	323	e(P)	44	27.60	-0.1
ASPA	70.17	196	eP	43	19.20	1.8	BHG	80.03	332	eP	44	14.30	1.0	FLN	82.84	341	eP	44	27.60	-0.3
	0.5s	7.40nm				4.8mb	SNF	80.05	339	P	44	13.90	0.6		0.6s	23.25nm			5.3mb	
KIV	70.23	313	iP	43	17.00	-0.8	FUR	80.16	333	eP	44	15.00	1.0	Z	22s	0.13um			4.2MszX	
	1.9s	473.00nm				6.0mb	HAE	80.21	343	eP	44	14.70	0.5	LDF	82.92	341	eP	44	28.00	-0.3
		iS		52	19.40		ETA	80.28	346	eP	44	15.60	1.1		0.7s	21.15nm			5.2mb	
KRV	70.56	308	iP	43	00.00	-19.7X	HTR	80.32	344	eP	44	14.50	-0.2	JVI	82.97	309	eP	44	29.20	0.3
GLA	70.68	62	(P)	43	20.77	0.2	WLF	80.33	337	P	44	17.00	2.2	VAL	82.99	334	P	44	28.80	0.1
MTA	70.68	310	iPc	43	21.60	1.3	DOU	80.35	338	P	44	14.70	-0.2	MMK	83.07	334	ePd	44	30.70	1.2
	0.6s	50.00nm				5.5mb	KBA	80.43	332	iPKPd	44	15.60	-0.1	LOR	83.14	338	eP	44	29.10	-0.4
GRS	71.36	307	iPc	43	25.00	0.3		0.6s	36.60nm			5.4mb		0.5s	15.00nm				5.2mb	
	1.3s	170.00nm				5.7mb			i	44	16.30		Z	22s	0.30um				4.6MszX	
GOL	71.76	52	(P)	43	27.53	0.3			i	44	17.40		DIX	83.21	335	ePd	44	31.30	1.1	
	1.0s	7.10nm				4.5mb			iPKP	44	53.80	2kmX	GRR	83.28	341	eP	44	30.20	0.0	
		(pP)		43	53.56	102km			i	47	20.30			0.6s	44.55nm				5.6mb	
SOC	72.02	314	eP	43	29.00	0.7	HOFF	80.47	336	P	44	16.40	0.8	EMS	83.36	335	ePd	44	31.70	0.8
ANN	72.27	316	iPc	43	29.50	-0.3	LANF	80.48	336	P	44	16.29	0.6	LBF	83.37	337	eP	44	30.30	-0.5
	1.2s	100.00nm				5.5mb	ALN	80.62	320	e(P)	44	15.08	-1.4		1.0s	36.80nm			5.3mb	
COP	73.22	336	iPd	43	34.20	-0.9	ECB	80.70	346	eP	44	16.90	0.2	SSF	83.43	338	eP	44	30.60	-0.4
	1.8s	246.21nm				5.7mb	WATA	80.79	333	iPKPc	44	17.30	-0.2		0.5s	7.75nm			4.9mb	
TUC	73.68	61	eP	43	38.11	-0.3			i	44	19.00	5kmX	RSM	83.49	331	P	44	32.83	1.5	
	1.2s	12.57nm				4.6mb	ECP	80.80	346	eP	44	17.40	0.2	LPF	83.66	341	eP	44	32.40	0.3
		epP		44	03.95	100km	WTTA	80.84	333	iPKPc	44	17.90	0.1		0.7s	18.75nm			5.1mb	
JAO	73.87	26	eP	43	38.00	-1.0		0.6s	59.90nm			5.6mb	ARV	83.70	330	P	44	32.80	0.4	
ALO	74.46	56	eP	43	43.40	0.4			i	44	19.40	5kmX	SFI	83.71	331	P	44	33.80	1.4	
	0.9s	7.92nm				4.5mb			i	47	24.10		AVF	83.72	338	eP	44	32.40	0.0	
		epP		44	08.33	96km	GAC	80.89	30	eP	44	18.00	0.2		0.7s	27.35nm			5.3mb	
OJC	75.52	330	eP	43	47.90	-0.6			pP	44	44.50	102km	SMF	83.72	337	eP	44	32.40	-0.1	
		e		43	49.80	6kmX	RBL	80.91	331	P	44	16.90	-1.1		1.1s	78.65nm			5.6mb	
PPE	75.69	323	ePc	43	49.50	0.0	MOTA	80.94	333	iPKPc	44	18.00	-0.3	BOB	83.75	333	P	44	32.80	0.0
KPL	75.74	347	eP	43	48.80	-0.8			i	44	19.40	4kmX	PGD	83.79	331	P	44	34.04	1.0	
KSP	76.20	332	eP	43	51.50	-0.8	SOTA	81.01	333	iPKPc	44	18.60	0.0	AGG	83.79	322	e(P)	44	32.48	-0.5
		e		44	31.50	163kmX			i	44	19.90	4kmX	LSD	83.85	335	P	44	34.22	0.8	
SPC	76.21	329	eP	43	52.40	-0.2			i	47	24.50		LPL	83.92	335	eP	44	34.10	0.3	
ELO	76.23	345	eP	43	51.50	-0.9	FVI	81.05	332	P	44	19.30	0.7		0.6s	11.55nm			5.0mb	
	1.2s	8.00nm				4.4mb	WLS	81.12	336	P	44	19.05	0.0	CRE	83.93	331	P	44	34.20	0.5
VRI	76.34	323	ePd	43	54.50	1.3	VBY	81.14	330	ePd	44	18.90	-0.2	LPG	83.93	335	eP	44	34.30	0.4
ESY	76.56	345	eP	43	53.40	-0.8	CDF	81.15	336	P	44	19.30	0.0		0.7s	14.75nm			5.0mb	
CVO	76.61	323	eP	43	54.50	-0.3	VOY	81.16	331	e(P)	44	19.30	-0.1	BDI	84.01	332	P	44	33.40	-0.6
EAB	76.61	346	eP	43	53.80	-0.7			e	44	45.20	99km	FIR	84.04	331	eP	44	35.00	1.0	
EAU	76.78	345	eP	43	55.70	0.2	CEY	81.23	330	e(P)	44	19.00	-0.6	BGF	84.07	338	eP	44	34.10	-0.1
CLL	76.86	334	iPc	43	55.00	-0.9	LIBD	81.29	336	P	44	19.98	0.1		0.5s	11.20nm			5.1mb	
	1.4s	135.00nm				5.6mb	ECH	81.36	336	P	44	20.24	0.0	RSP	84.09	334	P	44	34.99	0.5
		e		44	34.00	158kmX	SLE	81.37	335	ePd	44	20.40	0.0	ASS	84.17	330	P	44	36.20	1.3
BRG	76.94	333	iP	43	55.60	-0.8	FEL	81.41	335	P	44	20.49	-0.2	LMN	84.18	24	eP	44	37.50	2.7X
	1.5s	64.00nm				5.2mb	PLE	81.43	326	iPc	44	21.05	0.2	IGT	84.23	323	i(P)	44	35.04	-0.1
MLR	76.98	323	ePc	43	57.50	0.6	SRS	81.52	322	e(P)	44	20.80	-0.4	PCP	84.24	333	P	44	35.13	-0.1
ISR	77.00	323	eP	43	56.50	-0.4	IVA													

AQU	84.53	329 P	44	37.80	1.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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IZM 1.34 146 ePn 02 36.00 0.0
 EDC 1.47 55 ePn 02 38.00 0.3
 BNT 1.51 55 ePn 02 37.00 -0.5
 KCT 1.75 64 ePn 02 42.00 0.2
 S.D. = 0.4 on 5 of 5 obs.

? APR 28, 1993 04h 27m 42.03±0.57s
 21.853 N ±12.9km 142.523 E ±25.9km
 DEPTH = 300.0km (geophysicist)
 4.3mb (5 obs.)

MARIANA ISLANDS REGION (215)

WB2 42.30 191 eP 35 07.80 -0.7
 0.4s 3.60nm 4.0mb
 WRA 42.30 191 P 35 09.40 0.8
 0.7s 0.80nm 3.1mb X
 INK 67.67 24 eP 38 09.00 0.3
 MBC 70.86 15 eP 38 29.00 1.1
 YKA 76.60 28 eP 39 00.00 -0.9
 0.5s 1.90nm 4.1mb
 NEW 80.58 42 eP 39 22.70 0.1
 0.5s 3.63nm 4.5mb
 KAF 82.32 335 eP 39 29.80 -1.5
 0.3s 1.50nm 4.3mb
 NUR 83.87 334 eP 39 40.30 1.2
 LCCM 84.84 43 eP 39 44.20 -0.3
 MSU 87.87 49 (P) 39 59.52 0.1
 HFS 88.35 337 eP 40 00.90 -0.1
 0.4s 2.60nm 4.5mb
 ZOBO 150.54 84 ePKP 46 41.00 -14.3X
 S.D. = 0.9 on 11 of 12 obs.

? APR 28, 1993 05h 01m 39.81±14.13s
 31.926 S ±80.7km 70.149 W ±98.6km
 DEPTH = 33.0km (normal)

CHILE-ARGENTINA BORDER REGION (127)

RTCB 1.23 69 ePd 02 01.00 0.1
 S 02 17.00
 RTCV 1.37 88 iPd 02 03.00 0.1
 S 02 20.60
 CFA 1.66 79 eP 02 06.00 -0.2
 S 02 26.20
 RTRS 1.85 19 iPd 02 09.70 0.0
 S 02 32.80
 S.D. = 0.3 on 4 of 4 obs.

APR 28, 1993 05h 16m 15.42±0.13s
 47.384 N ±2.9km 153.578 E ±2.3km
 DEPTH = 33.0km (normal)
 5.3mb (103 obs.) 4.4Msz (25 obs.)

KURIL ISLANDS (221)

Mw 5.1 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 11C
 Centroid Location:
 Origin Time 05:16:16.5 0.9
 Lat 47.37N FIX; Lon 153.61E FIX
 Dep 48.917.2 Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr= 0.40 0.65 Mtt= 1.08 0.64
 Mff=-1.48 0.54 Mrt=-2.44 0.89
 Mrf=-2.09 0.84 Mtf= 3.27 1.04
 Principal Axes:
 T Val= 5.36 Plg=33 Azm=144
 N -1.61 56 341
 P -3.75 8 239
 Best Double Couple: Mo=4.6*10**16
 NP1: Strike=287 Dip=62 Slip= 19
 NP2: 187 73 150

SKR 3.68 26 iPnc 17 12.60 1.3
 iS 17 53.00

KUR 4.50 244 iPnd- 17 27.00 3.9X
 Z 14s 5.00um
 N 14s 8.10um
 E 14s 10.80um

PET 6.51 28 ePn 17 54.00 2.7X
 Z 22s 1.70um

YSS 7.41 271 iPnd- 18 08.50 4.6X
 Z 17s 3.60um
 N 17s 1.10um
 E 17s 2.50um

19 29.60

KUSJ 7.58 239 P 18 05.40 -0.9
 eS 19 26.60
 ASAJ 8.32 251 eP 18 20.90 4.3X
 HOOJ 8.85 239 eP 18 22.50 -1.4
 eS 19 58.90

OKH 9.17 316 ePnd 18 33.00 4.7X
 Z 12s 1.80um

MRRJ 10.16 245 eP 18 42.70 0.7
 OFUJ 12.00 231 P 19 03.00 -4.0X
 eS 21 09.50

MGD 12.84 354 ePn 19 20.00 1.8
 Z 15s 0.80um
 N 15s 0.70um
 E 15s 0.50um

YAMJ 13.53 232 eP 19 24.70 -2.7X
 SMY 14.21 60 eP 19 34.13 -2.0

NIJ 14.78 232 P 19 41.50 -2.1
 KAKJ 14.97 227 eP 19 44.50 -1.6
 eS 22 22.40

SEY 15.57 358 iPc 19 57.80 4.1X
 1.6s 56.00nm 4.5mb
 Z 14s 1.00um 4.5MszX

CHJJ 15.68 229 P 19 53.40 -2.0
 eS 22 40.40

MAT 15.72 232 iPc 19 54.10 -1.8
 0.9s 78.15nm 4.9mb

VLA 15.84 262 eP 20 00.00 2.6X
 MTMJ 15.90 233 P 20 04.00 5.6X

IIDJ 16.68 230 eP 20 10.90 2.7X
 eS 23 18.40

MDJ 16.88 269 eP 20 10.50 0.0
 1.6s 84.00nm 4.6mb
 Z 20s 2.21um 4.9Msz

TSRJ 17.67 234 P 20 21.00 0.5
 WKYJ 18.87 232 eP 20 36.60 1.3

YONJ 19.35 238 P 20 41.60 0.7
 iS 45 56.00
 PPP 51 08.00

ADK 19.71 66 eP 20 42.30 -2.4
 1.2s 63.45nm 4.8mb

TKSJ 19.89 235 P 20 47.20 0.4
 YAK 19.94 326 eP 20 46.80 -0.2
 1.1s 175.00nm 5.3mb
 Z 21s 0.80um 4.9Msz

N 16s 0.60um
 E 18s 0.80um

CN2 19.96 270 eP 20 46.00 -1.4
 1.0s 56.00nm 4.8mb
 Z 18s 1.31um 4.6MszX

N 13s 0.43um
 E 13s 0.60um

SHNJ 21.47 240 eP 21 06.70 3.7X
 SNY 21.99 266 Pc 21 07.80 -0.3
 1.0s 37.00nm 4.8mb
 Z 18s 1.54um 4.5Msz

E 14s 0.68um
 sP 21 21.60

KUMJ 22.78 238 P 21 17.60 1.6
 KAGJ 23.75 235 P 21 27.90 2.5X

DL2 24.67 262 eP 21 38.50 4.3X
 1.0s 71.00nm 5.2mb
 Z 15s 0.59um 4.2MszX

eS 25 50.00
 iS 22 16.00

iS 22 21.00
 iS 25 56.00

BOD 25.74 309 eP 21 43.10 -1.2
 1.1s 26.00nm 4.7mb

BJI 27.81 269 eP 22 05.00 1.7
 1.0s 66.00nm 5.3mb
 Z 20s 1.02um 4.4Msz

N 14s 0.49um
 eS 26 40.00

TIA 29.13 261 eP 22 15.10 -0.1
 SSE 29.63 248 Pc 22 20.50 0.8

1.0s 32.00nm 5.0mb
 Z 20s 0.50um 4.1Msz

sP 22 34.50

NJ2 30.49 252 Pc 22 28.00 0.6
 1.0s 10.00nm 4.6mb
 Z 18s 0.59um 4.3Msz
 E 14s 0.42um

sP 22 42.00
 HHC 30.57 273 Pc 22 28.00 -0.2
 1.0s 74.00nm 5.4mb

Z 20s 1.00um 4.5Msz
 N 13s 0.31um

E 12s 0.35um
 eS 27 25.00

TIY 31.49 267 eP 22 36.90 0.6
 Z 30s 1.09um 4.3MszX

E 20s 1.45um
 BTO 31.73 274 eP 22 38.00 -0.4
 N 15s 0.38um

E 15s 0.41um
 eS 27 47.00

TTA 31.74 42 iPc 22 38.04 -0.1
 0.9s 8.78nm 4.6mb

SVW 31.80 46 ePc 22 39.40 0.7
 ZAK 32.70 294 eP 22 45.00 -1.5
 1.4s 14.00nm 4.7mb

Z 14s 1.17um 4.7MszX
 N 15s 0.48um

E 14s 1.44um
 e 24 19.70

IMA 33.11 36 eP 22 49.85 -0.3
 1.0s 9.16nm 4.6mb

BRW 33.25 27 eP 22 51.70 0.6
 CRP 33.48 45 eP 22 53.71 0.2

MOY 33.79 297 eP 22 54.00 -2.0
 WHN 34.40 255 Pc 23 01.50 0.0
 1.0s 22.00nm 5.0mb

pP 23 16.00 57kmX
 PMR 34.92 45 iPd 23 05.46 -0.2
 1.0s 14.25nm 4.9mb

Z 21s 0.35um 4.1Msz
 FBA 35.47 39 ePc 23 10.80 0.5
 0.9s 54.00nm 5.5mb

XAN 35.89 265 Pd 23 14.00 -0.2
 1.0s 31.00nm 5.2mb
 Z 20s 0.73um 4.4Msz

pP 23 22.00 27kmX
 sP 23 28.40

KLU 36.47 45 eP 23 18.30 -0.5
 LZH 38.19 271 Pd 23 33.00 -0.7
 1.2s 110.00nm 5.6mb

Z 20s 0.74um 4.5Msz
 E 15s 0.51um

pP 23 44.00 39kmX
 sP 23 48.00

BALM 38.24 45 eP 23 34.28 0.5
 GTA 39.19 279 eP 23 42.00 0.0
 1.0s 19.00nm 4.8mb

Z 16s 0.86um 4.7MszX
 pP 23 51.00 30kmX

sP 23 54.50
 PP 25 13.00

INK 40.95 33 ePc 23 58.00 2.1
 1.0s 8.00nm 4.4mb

CD2 41.25 265 Pd 23 59.20 0.3
 1.0s 140.00nm 5.6mb

Gya 42.16 257 iPd 24 07.00 0.5
 0.8s 78.00nm 5.5mb
 Z 20s 0.63um 4.5Msz

S 30 20.00
 MBC 43.89 20 eP 24 20.50 0.6
 0.8s 4.00nm 4.3mb X

WMD 44.99 291 P 24 29.40 0.1
 Z 20s 1.07um 4.8Msz

PP 26 13.00
 OIZ 45.39 247 eP 24 35.00 2.5

KMI 45.67 259 iPd 24 35.50 0.5
 1.5s 220.00nm 5.9mb

pP 24 45.00 32kmX
 sP 24 50.00

HON 46.71 107 P 24 50.00 7.1X
 Z 19s 0.48um 4.5Msz

YKA 50.23 37 eP 25 09.30 -0.4
 0.9s 7.90nm 4.7mb

LSA 50.56 273 Pd 25 14.20 0.9
 0.8s 27.00nm 5.3mb

LOE 51.76 253 eP 25 22.30 0.4
 CHG 52.57 257 iPd 25 29.00 0.9

1.0s 106.25nm 5.8mb
 MCW 53.16 55 P 25 32.05 0.0

28d 05h

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PPT 82.28 126 iPd 28 34.70 -0.1
1.3s 134.30nm 5.8mb
DIX 82.31 337 ePd 28 35.90 0.8
PAIG 82.31 323 e(P) 28 34.14 -0.7
LBF 82.33 340 iPd 28 34.80 -0.1
0.6s 5.60nm 4.8mb
SSF 82.37 340 iPd 28 35.10 0.1
0.9s 9.15nm 4.8mb
OHR 82.43 326 iPd 28 34.20 -1.3
0.8s 43.00nm 5.6mb
EMS 82.45 337 ePd 28 36.20 0.5
TVO 82.63 126 iPd 28 37.00 0.3
1.6s 308.50nm 6.1mb
AVF 82.66 340 iPd 28 36.90 0.4
1.1s 31.25nm 5.3mb
SMF 82.68 340 iPd 28 36.90 0.2
1.3s 69.30nm 5.6mb
BOB 82.96 335 P 28 39.60 1.4
MYNC 83.00 44 P 28 50.00 11.5X
Z 20s 0.17um 4.4Msz
LPL 83.01 337 iPd 28 39.50 0.8
0.7s 16.75nm 5.2mb
SFI 83.02 333 P 28 39.80 1.4
LPG 83.02 337 iPd 28 39.70 0.9
0.9s 30.95nm 5.4mb
ARV 83.06 332 P 28 39.10 0.4
PGD 83.10 333 P 28 40.50 1.5
BDI 83.27 334 P 28 40.90 1.1
MAF 83.38 340 eP 28 41.10 0.8
1.0s 36.80nm 5.5mb
TCF 83.40 340 iPd 28 40.90 0.5
1.1s 20.50nm 5.2mb
JVI 83.52 311 eP 28 41.80 0.5
LSF 83.59 341 iPd 28 41.80 0.5
1.0s 29.60nm 5.4mb
MFF 83.61 342 iPd 28 41.90 0.5
0.8s 10.75nm 5.0mb
RJF 84.49 341 eP 28 46.80 0.9
Z 1.1s 27.35nm 5.3mb
22s 0.25um 4.6Msz
CEH 84.63 40 eP 28 46.57 -0.1
0.8s 41.48nm 5.7mb
Z 19s 0.35um 4.8Msz
GOGA 84.67 45 P 29 00.00 13.0X
Z 21s 0.20um 4.5Msz
CAF 84.72 340 eP 28 48.70 1.6
1.0s 13.40nm 5.1mb
TOO 84.89 186 eP 28 49.00 1.3
JSC 85.00 43 eP 28 48.59 0.0
LPO 85.15 341 eP 28 50.60 1.4
0.8s 9.65nm 5.1mb
ROI 85.34 328 P 28 51.00 0.8
MBH 85.49 310 eP 28 51.70 0.5
ZOBO 133.75 62 PKP 35 31.00 -0.3
LPB 133.97 62 ePKP 35 27.00 -4.5X
CNCB 134.26 63 PKP 35 33.00 0.7
BAO 143.64 37 iPKPd 35 45.00 -3.8X
i 36 05.00
PPD 147.73 47 ePKP 35 55.70 0.4
e 35 57.70
CACB 149.56 40 ePKPc 36 03.10 4.7X
e 36 15.00
e 36 19.80
NVL 150.34 205 iPKPd 36 03.00 5.2X
1.0s 46.00nm
VAO 150.62 41 ePKP 36 05.20 5.4X
S.D. = 0.9 on 250 of 279 obs.

* APR 28, 1993 05h 44m 39.27±0.67s
2.743 N ±18.0km 123.624 E ±20.7km
DEPTH = 33.0km (normal)
4.8mb (8 obs.)
CELEBES SEA (262)

SWI 8.43 115 iPd 46 41.50 -0.7
MTN 17.19 154 iPd 48 42.50 3.9X
WB2 24.89 155 eP 50 00.30 -0.4
0.5s 45.00nm 5.3mb
eS 54 15.60
LOE 25.97 306 eP 50 28.80 18.0X
ASPA 28.09 160 eP 50 30.50 0.3
0.4s 10.50nm 4.9mb
BDT 28.15 302 eP 50 28.80 -1.9
STK 38.43 155 eP 51 59.50 -0.2
0.4s 6.00nm 4.8mb
e 53 24.40
ARMA 42.45 143 eP 52 31.30 -1.7

BFD 0.7s 8.00nm 4.6mb
43.44 158 iPd 52 42.10 1.3
0.6s 16.00nm 5.0mb
BWA 43.71 150 iPd 52 44.00 0.9
CAN 44.71 150 iPd 52 50.90 -0.3
TOO 44.95 155 eP 52 53.70 0.6
0.9s 29.00nm 5.2mb
GBA 46.88 286 P 53 23.00 14.3X
KAF 91.02 332 eP 57 41.70 0.4
0.3s 1.30nm 4.8mb
NUR 92.05 331 eP 57 45.60 -0.4
NB2 98.27 333 P 58 16.80 2.3
0.7s 1.60nm 4.7mb
S.D. = 1.2 on 13 of 16 obs.

% APR 28, 1993 07h 18m 09.59±0.74s
44.502 N ±6.3km 7.174 E ±9.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

PZZ 0.05 274 P 18 12.23 0.3
S 18 14.01
STV 0.28 157 P 18 15.55 0.1
S 18 19.55
ENR 0.33 147 P 18 16.25 -0.2
S 18 20.92
BHB 0.35 11 P 18 16.92 0.2
S 18 21.55
RRL 0.50 327 P 18 19.44 -0.4
S 18 26.67
S.D. = 0.4 on 5 of 5 obs.

* APR 28, 1993 07h 25m 33.83±2.05s
29.302 S ±17.1km 68.723 W ±14.1km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTRS 1.08 216 ePd 25 53.30 -0.8
RTLL 2.03 174 ePc 26 08.50 -0.1
S 26 34.00
RTPR 2.17 118 e(P)c 26 09.00 -1.4
RTCB 2.18 182 ePd 26 11.50 0.8
S 26 41.00
ZON 2.24 179 eP 26 14.30 2.8X
eS 26 44.30
CFA 2.33 170 eP 26 13.70 0.8
S 26 43.00
RTBS 2.43 195 ePc 26 17.10 2.9X
S 26 41.00
RTCV 2.56 176 iPd 26 18.60 2.6X
S 26 50.60
CYA 2.71 72 ePd 26 18.80 0.6
S 26 53.00
MDZ 3.57 182 e(P) 26 37.60 7.1X
FSA 4.01 38 eP 26 40.80 4.3X
MRA 4.04 141 eP 26 37.10 0.1
e 27 24.00
e 27 35.00
S.D. = 1.0 on 7 of 12 obs.

? APR 28, 1993 07h 26m 09.57±4.07s
22.847 N ±14.0km 144.087 E ±36.1km
DEPTH = 167.0 ±36.3 km
4.2mb (6 obs.)
VOLCANO ISLANDS REGION (213)

MAT 14.57 341 eP 29 29.00 0.1
0.7s 9.59nm 4.3mb
YAK 40.37 350 iPd 33 31.50 -0.6
0.9s 51.00nm 5.2mb
WB2 43.58 193 eP 33 58.70 0.0
0.5s 3.50nm 4.2mb
INK 66.19 24 eP 36 41.50 0.7
MBC 69.54 15 eP 37 02.00 0.5
YKA 75.05 28 eP 37 33.20 -0.9
0.7s 2.10nm 4.0mb
KAF 82.04 335 eP 38 12.50 0.6
0.5s 2.20nm 4.1mb
HFS 87.99 338 eP 38 41.20 -0.4
0.4s 1.40nm 4.3mb
ZOBO 148.99 84 PKP 45 42.70 6.4X
LPB 149.10 84 ePKP 45 31.00 -5.3X
CNCB 149.28 85 PKP 45 44.80 8.1X
S.D. = 0.8 on 8 of 11 obs.

% APR 28, 1993 07h 42m 04.10±0.91s

39.611 N ±8.1km 29.476 E ±7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST 0.66 270 ePg 42 16.50 -0.7
eSg 42 26.90
ALT 0.74 138 ePg 42 19.00 0.3
YLV 0.96 355 ePn 42 22.70 0.3
KCT 1.07 307 iPn 42 25.00 0.7
EYL 1.09 28 ePn 42 24.00 -0.6
S.D. = 0.9 on 5 of 5 obs.

APR 28, 1993 08h 06m 40.42±0.96s
30.558 S ±5.2km 72.000 W ±11.0km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

JACH 2.43 151 eP 07 18.61 -0.2
RTBS 2.45 117 iPd 07 19.80 0.9
PEL 2.81 157 eP 07 23.93 -0.1
eS 08 01.11
LCCH 2.93 173 iP 07 25.24 -0.5
iS 08 06.35
ZON 3.02 110 eP 07 28.30 1.3
eS 08 02.30
SAN 3.10 159 eP 07 29.70 1.5
FCH 3.12 153 eP 07 29.02 0.3
TACH 3.22 164 eP 07 29.55 -0.2
RTCV 3.24 115 ePc 07 30.50 0.4
S 08 10.00
PCH 3.30 158 eP 07 31.01 -0.1
CFA 3.39 109 iPd 07 32.20 -0.2
S 08 10.70
LNV 3.42 172 eP 07 31.35 -1.4
MDZ 3.55 132 iP 07 36.30 1.7
i(S) 08 18.10
CHCH 3.55 162 eP 07 34.24 -0.4
RTPR 4.75 88 ePc 07 49.90 -1.6
MRA 5.68 111 ePc 08 02.00 -2.7X
S 09 03.00
CYA 5.80 70 ePd 08 04.60 -1.9
S 09 07.30
FSA 6.91 51 eP 08 21.70 -0.2
ANT 6.97 12 eP 08 42.00 19.2X
CNCB 14.17 16 P 10 06.00 4.6X
LPB 14.41 15 eP 10 05.00 0.6
ZOBO 14.66 15 P 10 09.30 1.5
e 22 45.00
PPD 20.38 70 eP 11 12.80 -4.2X
KIC 73.99 72 P 18 13.60 -1.3
WRA 123.76 210 PKP 25 43.50 6.5X
0.8s 3.70nm
S.D. = 1.1 on 20 of 25 obs.

? APR 28, 1993 08h 17m 24.34±7.48s
6.775 N ±79.1km 72.685 W ±39.0km
DEPTH = 189.2 ±39.7 km
4.0mb (2 obs.)
NORTHERN COLOMBIA (99)

SDV 2.92 44 iPd 18 13.10 0.0
iSn 18 50.80
TOV 4.14 44 ePd 18 28.40 0.2
iPP 18 28.90
iSn 18 18.40
CEOS 4.86 62 iP 18 37.30 -0.1
iS 19 34.80
MORO 5.93 46 iP 18 50.80 -0.7
GUAC 6.34 57 iP 18 57.30 0.5
OLLA 6.65 61 iP 19 01.00 0.1
ULM 47.48 340 eP 25 43.00 1.2
YKA 63.46 340 eP 27 34.00 -1.9
0.5s 2.20nm 4.3mb
INK 73.22 340 eP 28 36.50 0.6
MBC 73.93 350 eP 28 40.00 0.1
0.6s 1.00nm 3.7mb
WB2 150.68 241 iPKPd 36 55.80 5.4X
0.3s 5.00nm
WRA 150.69 241 PKP 36 56.50 6.1X
0.4s 2.20nm
S.D. = 1.0 on 10 of 12 obs.

APR 28, 1993 08h 39m 18.73±2.20s
40.040 N ±12.3km 29.486 E ±16.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

28d 08h

MD 2.5 (ISK).

YLV 0.53 351 iPg 39 29.20 -0.3
 DST 0.79 237 ePg 39 33.90 -0.2
 HRT 0.79 10 iPg 39 34.70 0.5
 KCT 0.89 284 iPg 39 36.50 0.7
 BNT 1.24 285 ePn 39 41.80 0.0
 CTT 1.37 324 iPn 39 43.20 -0.6
 S.D. = 0.7 on 6 of 6 obs.

APR 28, 1993 09h 15m 13.43±0.74s

40.499 S ± 6.0km 176.545 E ± 7.6km

DEPTH = 75.3 ± 11.1 km

NORTH ISLAND, NEW ZEALAND (159)

Felt in central North Island.

PGZ 0.24 240 Pc 15 23.80 -1.1
 S 15 29.30
 TEHZ 0.55 22 P 15 27.20 -0.2
 WAHZ 0.81 350 Pc 15 29.10 -1.1
 MNG 0.82 261 P 15 29.90 -0.4
 S 15 40.10
 TTH 0.98 13 P 15 32.80 0.6
 MTW 1.03 230 P 15 33.40 0.6
 BLW 1.19 223 P 15 36.00 1.1
 CAW 1.28 241 Pd 15 36.60 0.6
 KIW 1.29 253 P 15 36.70 0.5
 MOW 1.34 226 P 15 37.50 0.6
 MOH 1.44 19 P 15 38.70 0.5
 WEL 1.56 239 P 15 40.20 0.5
 MRW 1.58 242 P 15 40.30 0.3
 S 15 58.40
 WHH 1.61 359 P 15 40.90 0.3
 MAHZ 1.66 39 P 15 42.30 1.1
 PAHZ 1.68 14 P 15 41.70 0.2
 TCW 1.86 247 P 15 43.90 0.0
 NOZ 2.20 32 P 15 48.60 0.0
 URZ 2.28 11 P 15 48.70 -0.9
 NRZ 2.32 299 eP 15 51.10 0.9
 MOZ 2.40 325 eP 15 51.70 0.4
 WLZ 2.73 344 P 15 55.30 -0.5
 PUZ 2.76 29 P 15 55.60 -0.7
 S 16 27.90
 KHZ 2.96 229 P 15 58.20 -0.9
 S 16 31.90
 THZ 3.03 244 P 15 59.30 -0.8
 LTZ 3.93 233 P 16 11.00 -1.7
 S 16 54.50

S.D. = 0.8 on 26 of 26 obs.

APR 28, 1993 09h 16m 38.13±0.45s

12.491 N ± 7.3km 87.817 W ± 5.2km

DEPTH = 66.5 ± 5.1 km

4.5mb (10 obs.)

NEAR COAST OF NICARAGUA (74)

MD 4.2 (APY). Felt (V) at

Chinondego and Corinto. Also

felt (II) at Usulután, El

Salvador.

PYN 0.78 98 eP 16 52.91 -1.1
 eS 17 04.13
 PYT 1.71 89 eP 17 05.62 -0.7
 eS 17 29.32
 LFU 1.78 315 iPc 17 06.90 -0.4
 TME 2.13 316 iPc 17 11.80 -0.4
 SSN 2.26 121 eP 17 13.68 -0.2
 YPE 2.43 312 iPd 17 16.30 -0.2
 CUSS 2.51 304 iPd 17 16.80 -0.7
 SLP 3.28 313 iPd 17 28.59 0.2
 iS 18 01.25
 8VA 3.49 309 iPd 17 33.84 2.4
 TPX 4.94 300 (P) 17 54.50 2.9X
 DVD 6.64 127 eP 18 16.25 1.0
 eS 18 28.65
 ECO 8.56 110 eP 18 40.67 -1.2
 eS 19 14.23
 ECO 8.56 110 eP 18 42.59 0.7
 UPA 8.85 112 eP 18 44.96 -0.9
 eS 19 18.94
 UPA 8.85 112 iP 18 47.69 1.8
 OXX 9.75 299 (P) 19 31.00 32.7X
 IISM 11.24 306 (P) 19 22.00 3.7X
 PPM 12.28 304 (P) 19 34.50 1.8
 III 12.66 299 (P) 19 38.00 0.6

MRX 14.71 301 (P) 20 10.50 6.5X
 SDV 17.26 100 eP 20 35.00 -1.5
 TOV 17.89 97 eP 20 44.10 0.0
 GOGA 21.20 10 eP 21 20.64 0.4
 0.5s 20.85nm 4.7mb

PRM 22.06 12 eP 21 37.26
 e 21 30.07 1.3
 e 21 46.78
 LTX 22.32 321 eP 21 31.15 -0.3
 e 21 40.51

MIAR 22.57 348 eP 21 34.26 0.5

0.8s 21.04nm 4.6mb

MYNC 22.73 8 eP 21 36.14 0.7

1.1s 17.74nm 4.4mb

LHS 22.80 15 eP 21 36.84 0.8

GBTN 23.30 7 eP 21 42.15 1.2

TKL 23.35 8 eP 21 42.29 0.9

MEO 24.25 338 iPc 21 49.50 -0.6

FNO 24.27 341 iPc 21 50.00 -0.3

WMOK 24.28 338 eP 21 49.61 -0.8

0.6s 7.95nm 4.4mb

OCO 24.54 341 iPd 21 39.40 -13.5X

ELC 24.72 357 eP 21 53.48 -1.1

ACO 26.17 339 iPc 22 06.50 -1.6

CVL 26.72 17 eP 22 12.78 -0.4

SRU 33.29 327 eP 23 11.42 -0.2

ARUT 34.02 322 eP 23 18.26 0.2

RSSD 34.46 339 eP 23 21.47 -0.3

0.6s 4.75nm 4.6mb

ZOBO 34.58 145 P 23 24.00 0.6

LR 34 40.00

DAU 34.62 328 eP 23 23.26 0.0

LPB 34.81 145 (P) 23 32.00 6.8X

EEO 34.83 11 eP 23 25.50 0.9

CNCB 35.10 146 P 23 29.00 1.1

e 25 59.00

DUG 35.30 326 eP 23 29.22 0.4

0.7s 2.59nm 4.3mb

BW06 35.58 332 eP 23 30.56 -0.7

0.9s 5.27nm 4.5mb

HVU 36.40 328 eP 23 37.75 -0.4

BONR 37.16 318 (P) 23 44.31 -0.5

ULM 38.23 352 eP 23 53.50 0.3

LMN 38.56 26 eP 23 58.00 2.0

LCCM 39.00 333 eP 23 59.60 -0.3

JAO 42.31 11 ePd 24 24.00 -2.8X

NEW 43.20 331 eP 24 32.97 -1.2

1.0s 10.00nm 4.6mb

DPW 43.44 330 eP 24 35.43 -0.7

LON 44.53 327 eP 24 44.02 -1.0

BMW 45.14 326 eP 24 49.27 -0.6

GMW 45.55 327 eP 24 51.53 -1.5

FCC 46.42 355 ePc 25 00.00 0.4

pP 25 16.00 63kmX

FRB 52.95 11 ePd 25 46.30 -3.3X

0.6s 5.00nm 4.7mb

YKA 53.48 345 eP 25 50.00 -3.5X

0.7s 2.00nm 4.3mb

INK 63.06 343 eP 27 00.50 0.2

MBC 65.93 352 eP 27 16.00 -2.8X

WB2 138.92 254 ePKP 35 52.30 -7.3X

0.9s 1.60nm

i 35 59.70

WRA 138.93 254 PKP 36 01.10 1.4X

0.8s 1.00nm

S.D. = 1.0 on 53 of 65 obs.

APR 28, 1993 09h 20m 47.60±0.72s

40.489 N ± 6.8km 21.872 E ± 6.5km

DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.1 (THE).

FNA 0.48 308 ePg 20 56.98 -0.4

eSg 21 04.50

LIT 0.61 129 iPg 20 59.30 -0.6

GRG 0.62 41 ePg 21 00.02 0.0

VAY 0.99 32 ePn 21 25.40 19.1X

OHR 1.03 308 ePn 21 07.20 0.2

KNT 1.03 49 ePg 21 07.34 0.3

eSg 21 23.40

AGG 1.51 166 ePb 21 15.22 0.5

SKD 1.52 348 eP 21 41.00 26.2X

S.D. = 0.6 on 6 of 8 obs.

APR 28, 1993 09h 25m 16.80±4.83s

39.448 N ± 35.2km 29.540 E ± 19.8km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

DST 0.72 283 iPg 25 30.90 -0.2
 iSg 25 39.90
 YLV 1.12 353 ePn 25 37.60 -0.3
 KCT 1.21 312 iPn 25 39.70 0.3
 EYL 1.21 23 ePn 25 39.60 0.1
 S.D. = 0.5 on 4 of 4 obs.

APR 28, 1993 09h 33m 41.37±0.82s

39.121 N ± 6.8km 27.589 E ± 8.5km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM 0.77 200 iPg 33 56.50 0.1
 iSg 34 09.00
 DST 0.94 59 iPn 33 58.90 -0.4
 EZN 1.21 306 ePn 34 03.50 -0.3
 EDC 1.24 10 ePn 34 05.00 0.6
 BNT 1.26 12 iPn 34 04.50 -0.3
 KCT 1.27 27 iPn 34 05.30 0.3
 S.D. = 0.5 on 6 of 6 obs.

APR 28, 1993 10h 24m 05.93±0.71s

35.372 N ± 8.0km 28.001 E ± 6.4km

DEPTH = 79.1 ± 10.2 km

3.9mb (8 obs.)

EASTERN MEDITERRANEAN SEA (371)

MD 4.0 (ATH).

KSL 1.49 59 ePb 24 31.00 -0.4
 YER 1.77 7 iPn 24 35.00 -0.3
 NPS 1.96 267 ePn 24 39.50 1.7
 ELL 2.07 48 iPn 24 39.10 -0.3
 CIN 2.22 2 eP 24 40.00 -1.4
 BCK 2.95 44 ePn 24 54.00 2.5
 IZM 3.08 349 ePn 24 51.00 -2.3
 KHL 3.19 22 ePn 24 54.20 -0.6
 ALT 4.04 24 eP 25 09.00 2.2
 VLI 4.32 290 ePn 25 10.00 -0.6
 CSS 4.39 94 eP 25 11.30 -0.2
 eS 26 04.50
 MMR 6.59 109 eP 25 41.60 -0.7
 DSI 7.24 120 eP 25 50.60 -0.5
 MBH 8.05 132 eP 26 02.40 0.0
 OHR 8.06 317 eP 26 03.70 1.3
 KHC 17.36 327 eP 28 05.50 1.1
 LPG 19.02 309 eP 28 24.40 -0.2
 0.9s 7.35nm 3.9mb
 LPL 19.04 309 eP 28 24.60 -0.1
 0.8s 4.05nm 3.7mb
 SMF 21.34 309 eP 28 47.40 -0.7
 0.8s 9.00nm 4.2mb
 LBF 21.39 310 eP 28 47.80 -0.8
 0.9s 4.90nm 3.9mb
 LOR 21.58 311 eP 28 49.90 -0.6
 1.0s 4.00nm 3.8mb
 AVF 21.71 309 eP 28 51.20 -0.5
 1.0s 5.40nm 3.9mb
 SSF 21.72 310 eP 28 51.40 -0.4
 1.1s 16.85nm 4.3mb
 YKA 77.94 343 eP 35 58.20 1.8
 0.8s 0.30nm 3.3mb
 S.D. = 1.2 on 24 of 24 obs.

APR 28, 1993 10h 39m 21.20±0.28s

44.002 N ± 3.3km 15.936 E ± 3.0km

DEPTH = 14.6 ± 2.3 km

NORTHWESTERN BALKAN REGION (383)

ML 3.4 (TTG), 3.4 (VIE), 3.4

(ZAG). MD 3.5 (TRI). Felt at

Knin, Croatia.

HVAR 0.90 156 iPg 39 34.40 -3.7X

iSg 39 49.50

VBY 1.58 342 iPn 39 49.10 0.4

iSn 40 10.30

RIY 1.74 321 iPn 39 51.80 0.8

iSg 40 16.60

ZAG 1.81 1 i(Pn) 39 51.00 -1.1

iSg 40 18.40

PTJ 1.90 0 iPn 39 52.30 -1.1

iSg 40 18.40

CEY 2.04 329 ePn 39 55.50 0.1

			e	40 00.50					Sn	43 05.60		NGZ	0.43	199	P	55 42.40	-0.9
BRY	2.20	119	eSg	40 24.00		SMF	8.92	291	Pn	41 30.90	-1.6X	CNZ	0.47	203	P	55 42.60	-1.0
			ePn	39 58.11	0.3				Sn	43 03.90		WHH	0.57	102	P	55 42.50	-1.6
ARV	2.23	258	iSn	40 23.22		LOR	9.07	295	Pn	41 32.50	-2.0X	MOZ	0.81	289	P	55 45.80	0.3
			Pd	39 58.00	-0.1				Sn	43 06.60					S	56 01.00	
LJU	2.27	335	eSn	40 26.90		AVF	9.28	292	Pn	41 33.60	-3.8X	WLZ	0.91	351	Pc	55 47.10	0.8
			ePn	40 00.40	1.7	BGF	9.58	290	Pn	41 38.20	-3.3X				S	56 02.50	
TRI	2.30	319	eSn	40 28.00					Sn	43 20.20		PAHZ	1.00	95	P	55 46.60	-0.4
			e(Pn)	40 00.30	1.2							WAHZ	1.03	154	Pc	55 47.40	0.1
			ePg	40 03.90								TTH	1.12	134	P	55 47.40	-0.6
			i(Sn)	40 29.70								URZ	1.16	64	Pd	55 47.60	-0.8
			e	40 32.00											S	56 03.60	
			iSg	40 36.00								BSZ	1.22	212	P	55 49.80	0.9
HCY	2.43	129	ePn	40 02.21	1.2							TEHZ	1.46	147	P	55 51.70	0.4
			iSn	40 30.50								MAHZ	1.69	105	P	55 54.60	0.4
AQU	2.48	229	P	40 02.00	0.3							NOZ	1.77	86	P	55 55.20	0.5
VOY	2.49	325	ePn	40 02.20	0.2							MNG	1.86	187	P	55 56.30	0.6
			eSn	40 34.50		VAY	0.42	149	iPg	54 27.70	0.0				S	56 17.90	
RSM	2.52	270	P	40 03.00	0.8							PGZ	1.89	168	P	55 56.50	0.5
NKY	2.53	117	ePn	40 03.43	1.0	KNT	0.70	138	iPg	54 32.57	-0.3	PUZ	2.07	71	P	55 58.70	0.6
			iSn	40 31.00					eSg	54 41.48					S	56 22.10	
ASS	2.56	250	P	40 03.00	0.1	GRG	0.73	173	ePg	54 33.48	0.0	KIW	2.20	197	Pc	56 00.20	0.6
DUI	2.58	205	P	40 04.00	0.8	SOH	1.18	136	ePg	54 41.44	0.3	MTW	2.40	185	Pc	56 02.20	0.2
PLE	2.60	104	ePn	40 02.50	-1.0							CAW	2.40	193	P	56 02.50	0.4
			iSn	40 31.50								MRW	2.59	198	P	56 04.70	0.2
BDV	2.73	128	ePn	40 06.20	1.0										S	56 34.40	
			iSn	40 36.90								BLW	2.61	185	P	56 04.80	0.2
SDI	2.77	215	P	40 04.90	-1.1							WEL	2.63	197	eP	56 05.00	0.1
			eSn	40 38.00								MOW	2.68	189	P	56 05.60	0.0
MNS	2.88	237	P	40 07.20	-0.2							TCW	2.70	205	P	56 06.20	0.4
TTG	2.89	122	ePn	40 08.20	0.7							QRZ	3.24	230	P	56 13.90	1.2
			iSn	40 40.50								THZ	3.71	215	eP	56 18.70	-0.2
CRE	2.91	264	P	40 08.90	1.0							KHZ	4.02	204	Pc	56 22.80	0.0
SFI	2.95	270	P	40 08.70	0.4										S	57 08.10	
RBL	2.96	326	P	40 08.20	-0.3							DSZ	4.25	224	eP	56 26.20	0.2
PGD	3.05	269	P	40 10.90	1.0							LTZ	4.81	212	eP	56 32.10	-1.3
ULC	3.17	129	ePn	40 12.50	1.0										S	57 24.90	
UZD	3.19	35	e(P)	40 24.00	12.2X							ODZ	7.35	210	eP	57 05.00	-2.3
SDA	3.26	126	ePn	40 24.00	11.3X										eS	58 23.30	
BRT	3.26	163	P	40 09.00	-3.8X												
FVI	3.42	320	P	40 14.00	-0.9												
SGO	3.47	188	P	40 15.30	-0.4												
KBA	3.57	330	iPnd	40 17.40	0.0												
			iPg	40 31.50													
			iSn	41 02.40													
			iSg	41 24.80													
LACI	3.65	129	ePn	40 27.50	9.3X												
CTI	3.66	305	P	40 17.90	-0.7												
BDI	3.85	273	P	40 20.50	-0.7												
MGR	3.87	184	P	40 19.60	-1.9												
TIR	3.93	131	ePn	40 32.00	9.8X												
PHP	4.04	123	ePn	40 22.70	-1.2												
			iSn	41 11.20													
SRO	4.16	23	eP	40 22.40	-3.1X												
			e	41 41.00													
ZST	4.27	11	e(P)	40 28.50	1.4												
			e	41 10.00													
			i	41 43.20													
			i	41 47.50													
WTTA	4.44	319	iPnc	40 29.10	-0.6												
			iSn	41 23.70													
SKO	4.52	115	ePn	40 29.50	-1.1												
			i	41 41.00													
WATA	4.52	319	iPnd	40 30.30	-0.5												
			iSn	41 26.60													
OHR	4.61	127	ePn	40 32.00	0.0												
SQTA	4.62	316	iPnd	40 32.20	0.0												
			iSn	41 28.10													
MOTA	4.76	316	iPnc	40 33.30	-0.9												
			iSn	41 30.40													
TPE	4.78	139	ePn	40 55.50	21.1X												
SBF	6.14	272	Pn	40 51.30	-2.3X												
			Sn	41 59.60													
LPG	6.71	286	Pn	40 59.20	-2.7X												
			Sn	42 11.50													
LPL	6.73	286	Pn	40 59.70	-2.3X												
FRF	6.74	269	Pn	41 00.60	-1.4X												
			Sn	42 14.10													
LMR	6.87	268	Pn	41 02.90	-0.9X												
			Sn	42 16.10													
LRG	6.96	269	Pn	41 03.00	-2.0X												
BSF	7.44	304	Pn	41 10.00	-1.9X												
			Sn	42 29.60													
CDF	7.45	309	Pn	41 08.90	-3.1X												
HAU	7.78	304	Pn	41 13.70	-2.9X												
			Sn	42 36.30													
LBF	8.91	294	Pn	41 28.90	-3.5X												

28d 13h

SPU	1.54	30	iP	29 07.43	-1.0
			eS	29 29.90	
CKN	1.55	27	eP	29 08.16	-0.3
CP2	1.57	25	eP	29 07.75	-1.2
CPAM	1.58	27	iPd	29 08.33	-0.6
CRP	1.59	26	eP	29 07.56	-1.5
SVW	1.60	323	P	29 08.30	-0.8
SLKM	1.82	67	iPc	29 09.92	-1.7
SEW	2.11	81	iPc	29 13.31	-1.7
SUA	2.15	40	ePd	29 14.43	-1.2
KDC	2.19	164	eP	29 12.50	-3.5
MPA	2.22	72	iPc	29 14.86	-1.5
SKT	2.37	25	ePc	29 17.02	-1.2
PMS	2.44	53	P	29 17.30	-1.9
PTE	2.50	64	eP	29 17.69	-2.1
PWA	2.57	44	P	29 20.20	-0.6
PMR	2.81	50	eP	29 20.14	-3.7
GHO	3.00	48	eP	29 25.07	-1.3
SML	3.25	51	eP	29 26.92	-2.6
HIN	3.60	78	iPc	29 31.80	-2.4
SCM	3.66	54	eP	29 33.50	-1.6
VLZ	3.83	67	eP	29 35.43	-1.6
FBA	5.74	26	eP	29 59.44	-3.3
YKA	18.80	65	eP	32 48.50	-0.9
0.7s 0.30nm 2.7mb					
49 obs. associated					

APR 28, 1993 13h 33m 57.74±0.61s
41.639 N ± 7.4km 13.752 E ± 5.4km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SDI	0.08	35	Pd	34 00.00	-0.3
			eSg	34 00.40	
DUI	0.53	87	P	34 07.50	-1.0
			eSg	34 17.50	
AQU	0.76	340	P	34 13.00	0.4
RDP	0.78	279	P	34 12.40	-0.7
			eSn	34 26.20	
RMP	0.80	283	P	34 12.50	-0.9
			eSn	34 25.40	
MNS	1.09	313	P	34 19.30	1.0
			eSg	34 35.00	
SGO	1.60	132	P	34 27.40	1.4
ASS	1.64	331	P	34 27.00	0.2
MGR	2.03	137	P	34 32.20	-0.2
PGD	2.69	327	P	34 42.00	0.0
VBY	4.02	15	ePn	35 04.70	4.1X

S.D. = 0.9 on 10 of 11 obs.

? APR 28, 1993 13h 43m 48.61±26.45s
43.511 N ± 107.7km 128.696 W ± 180.7km
DEPTH = 10.0km (geophysicist)

OFF COAST OF OREGON (30)

NLO	4.54	54	P	44 58.58	-0.4
SSOR	4.68	71	P	45 00.61	-0.5
WPO	4.70	62	P	45 01.17	-0.1
BMW	4.88	51 (P)		45 02.57	-1.3X
RVW	4.99	56	P	45 04.85	-0.4
LVP	5.15	58	P	45 07.37	-0.4
FL2	5.25	57	P	45 08.98	-0.1
MTMW	5.26	59	P	45 09.08	-0.1
TDH	5.26	68	P	45 09.64	0.4
ERK	5.31	56	P	45 09.31	-0.6
SHW	5.32	57	eP	45 10.18	0.1
STD	5.35	57	P	45 10.38	-0.1
VLL	5.39	66	P	45 11.39	0.3
CDFW	5.40	59	P	45 11.24	0.1
SOSW	5.40	57	P	45 11.41	0.2
TDL	5.41	56	P	45 11.19	-0.2
KOSW	5.48	55	P	45 12.06	-0.2
VFP	5.49	68	P	45 12.35	-0.2
GULW	5.60	62	P	45 14.74	0.6
ASR	5.70	60	P	45 15.47	0.0
LON	5.85	54	eP	45 18.22	0.7
RVC	5.86	52	P	45 17.64	0.0
REMR	5.87	53	P	45 18.29	0.4
WPW	5.98	55	P	45 19.49	0.1
VGB	6.01	68	P	45 19.27	-0.4
HTW	6.48	46	P	45 26.11	-0.3
TBM	6.78	55	P	45 31.03	0.4

S.D. = 0.4 on 26 of 27 obs.

% APR 28, 1993 13h 58m 57.67±0.92s
40.110 N ± 7.3km 28.968 E ± 6.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

KCT	0.49	287	iPg	59 07.60	0.0
			iSg	59 15.40	
YLV	0.55	34	iPg	59 08.80	-0.1
			eSg	59 15.90	
DST	0.57	208	iPg	59 09.70	0.5
			eSg	59 17.70	
BNT	0.84	287	iPg	59 13.40	-0.5
EDC	0.88	286	iPg	59 14.00	-0.5
			eSg	59 27.00	
HRT	0.89	37	iPg	59 13.80	-0.9
ISK	0.96	4	ePn	59 16.90	1.0
CTT	1.11	339	iPn	59 19.10	0.5

S.D. = 0.8 on 8 of 8 obs.

APR 28, 1993 14h 20m 05.52±0.28s
42.167 N ± 3.3km 20.140 E ± 3.1km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 3.3 (TTG).

PVY	0.44	344	iPg	20 14.16	-0.5
			iSg	20 21.26	
ULC	0.69	253	iPg	20 18.37	-0.9
			iSg	20 29.02	
TTG	0.70	292	iPg	20 18.36	-1.0
			iSg	20 29.19	
IVA	0.73	346	iPg	20 18.91	-0.9
			iSg	20 30.01	
BDV	0.98	277	iPg	20 23.41	-0.8
			iSg	20 38.26	
SKO	0.99	101	iPg	20 23.50	-0.7
			i	20 24.30	
			iSg	20 38.50	
			Lg	20 40.60	
NKY	1.06	308	iPg	20 24.69	-0.9
			iSg	20 40.82	
OHR	1.16	155	iPnd	20 26.00	-1.3
			iPg	20 28.90	
			i	20 41.50	
			iSg	20 44.00	
			Lg	20 45.80	
HCY	1.25	283	iPg	20 28.06	-0.7
			iSg	20 46.66	
PLE	1.29	335	ePg	20 28.89	-0.5
			iSg	20 47.66	
BRY	1.39	302	iPg	20 30.26	-0.8
			iSg	20 50.11	
FNA	1.67	146	ePb	20 35.82	0.9
			eSb	20 59.38	
VAY	2.01	114	iPn	20 39.70	-0.1
GRG	2.08	125	ePn	20 41.22	0.3
			eSn	21 09.80	
KNT	2.30	115	ePn	20 43.90	-0.1
			eSn	21 11.70	
LCI	2.46	223	P	20 45.40	-0.9
IGT	2.64	177	ePn	20 50.50	1.7
LIT	2.72	139	ePn	20 50.74	0.6
HVAR	2.90	292	iPn	20 53.00	0.4
			iSn	21 32.00	
SSR	2.94	23	ePd	21 04.00	10.9X
PAIG	3.49	129	ePn	21 00.58	-0.3
BZS	3.61	17	ePc	21 02.00	-0.6
ROI	3.75	227	P	21 04.30	-0.4
SGO	3.98	248	P	21 07.80	0.0
MGR	4.01	241	P	21 08.70	0.4
ACI	4.11	228	P	21 06.10	-3.5X
PTJ	4.80	322	iP	21 20.10	0.5
VBY	4.86	315	iPnd	21 22.10	1.7
R1Y	5.24	309	i(Pn)	21 26.30	0.6
CEY	5.45	313	ePn	21 30.10	1.3
			eSn	22 35.50	
ARV	5.46	287	P	21 28.50	-0.4
MNS	5.54	275	P	21 30.30	0.2
ASS	5.59	282	P	21 30.90	0.1
TRI	5.81	310	e(Pn)	21 33.50	-0.2
			eSn	22 40.20	
			eSgSg	23 17.50	
VOY	5.93	313	ePn	21 36.30	0.8
			eSn	22 45.60	
			e	23 20.50	

S.D. = 0.8 on 8 of 8 obs.

APR 28, 1993 14h 58m 44.27±1.23s

60.122 N ± 6.2km 4.665 E ± 10.8km

DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 2.0 (BER).

EGD 0.32 62 eP 58 51.40 0.5

ASK 0.45 36 eP 58 53.34 -0.1

SUE 0.94 3 eP 59 00.09

KMY 0.96 162 eP 59 02.61 0.1

ODD1 1.01 101 eP 59 04.20 0.8

FOO 1.49 7 eP 59 11.48 0.4

NRA0 3.46 77 Pn 59 38.96 -0.3

HFS 4.52 86 eP 59 52.90 -1.3

0.1s 0.50nm

S.D. = 0.8 on 8 of 8 obs.

% APR 28, 1993 15h 03m 46.14±1.15s

60.117 N ± 5.6km 4.615 E ± 10.2km

DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 2.2 (BER).

RBL 6.36 314 P 21 42.00 0.3

PGD 6.40 288 P 21 43.90 1.5

FVI 6.88 313 P 21 50.00 1.2

KBA 6.90 318 iPd 21 50.20 0.9
e 23 17.00
e 24 07.00
CTI 7.24 305 P 21 52.80 -1.2
S.D. = 0.9 on 38 of 40 obs.

? APR 28, 1993 14h 46m 47.21±0.88s
26.435 S ± 6.5km 27.495 E ± 11.3km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

PRY 0.49 182 eP 46 57.00 -0.1
S 47 02.50
KSR 0.78 316 e(P) 47 03.00 0.0
S 47 13.50
SLR 0.99 46 eP 47 06.60 0.0
S 47 19.00
SEK 1.88 177 eP 47 20.60 0.1
S 47 45.00
S.D. = 0.1 on 4 of 4 obs.

APR 28, 1993 14h 57m 47.19±0.80s
39.194 N ± 6.5km 20.522 E ± 6.9km
DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

ML 3.2 (THE). MD 3.2 (ATH).

IGT	0.37	337	ePg	57 54.04	-0.7
			eSg	58 00.32	
KEK	0.76	313	ePb	58 01.50	-0.6
VLS	1.02	177	ePb	58 07.00	0.6
AGG	1.42	96	ePb	58 12.56	-0.5
			eSb	58 34.32	
KZN	1.47	41	ePb	58 13.50	-0.3
FNA	1.72	22	ePb	58 18.84	1.5
			eSb	58 42.88	
LIT	1.77	59	ePb	58 18.04	0.0
OHR	1.93	6	ePn	58 14.50	-5.9X
			i	58 22.50	
			i	58 46.50	
			i	58 53.10	
			Lg	58 57.20	
GRG	2.28	39	ePn	58 26.64	1.2
LCI	2.28	301	P	58 20.00	-5.5X
PAIG	2.55	72	ePn	58 28.16	-1.1
VAY	2.64	36	iPn	58 26.00	-4.5X
KNT	2.68	42	ePn	58 31.52	0.4
SOH	2.71	52	ePn	58 31.92	0.2
SKO	2.86	14	iPn	58 34.60	0.9
			iSg	59 13.50	
			Lg	59 21.70	
SRS	3.04	50	ePn	58 34.52	-1.6
BRT	3.05	304	P	58 48.00	11.6X
VBY	7.41	330	ePn	59 34.60	-3.4X

S.D. = 1.0 on 13 of 18 obs.

APR 28, 1993 14h 58m 44.27±1.23s
60.122 N ± 6.2km 4.665 E ± 10.8km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 2.0 (BER).

EGD	0.32	62	eP	58 51.40	0.5
			eSg	58 58.69	
ASK	0.45	36	eP	58 53.34	-0.1
			eSg	59 00.09	
SUE	0.94	3	eP	59 01.99	-0.2
			eSg	59 17.10	
KMY	0.96	162	eP	59 02.61	0.1
			eSg	59 18.02	
ODD1	1.01	101	eP	59 04.20	0.8
			eSg	59 18.82	
FOO	1.49	7	eP	59 11.48	0.4
			eSg	59 31.16	
NRA0	3.46	77	Pn	59 38.96	-0.3
			Pg	59 45.99	
			Lg	00 36.24	
HFS	4.52	86	eP	59 52.90	-1.3
	0.1s		0.50nm		
S.D. = 0.8 on 8 of 8 obs.					

EGD 0.34 63 eP 03 53.21 0.0
 ASK 0.47 38 eSg 04 00.45
 SUE 0.95 4 eP 03 55.10 -0.5
 KMY 0.96 160 eSg 04 01.66
 ODD1 1.03 101 eP 04 04.00 -0.1
 HYA 1.31 36 eSg 04 19.07
 FOO 1.50 8 eP 04 04.34 -0.1
 NRA0 3.49 77 eSg 04 19.77
 S.D. = 0.5 on 8 of 8 obs.

% APR 28, 1993 15h 09m 08.73 ± 0.59s
 28.061 S ± 5.0km 26.896 E ± 6.4km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.7 (PRE).

SEK 0.69 112 iPc 09 22.70 0.1
 BFS 1.16 355 eP 09 31.70 0.1
 BLF 1.22 211 iPd 09 31.10 0.1
 PRY 1.24 25 eP 09 47.00 -0.4
 SWZ 1.65 302 eP 09 46.00 0.2
 FRS 2.18 219 eP 09 38.70 0.2
 KSR 2.19 0 iPd 09 55.90 0.4
 SLR 2.63 28 eP 09 46.50 0.4
 S.D. = 0.4 on 7 of 8 obs.

? APR 28, 1993 15h 27m 56.89 ± 6.81s
 18.930 N ± 59.6km 66.399 W ± 11.3km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

LRS 0.76 214 iP 28 11.00 -0.2
 LPR 0.80 141 iP 28 21.20 0.1
 SJG 0.85 164 iP 28 22.30 0.1
 CLLP 0.86 191 iP 28 12.20 -0.2
 PORP 0.90 195 iP 28 33.40 0.4
 MGP 1.13 216 iP 28 13.00 -0.2
 S.D. = 0.3 on 6 of 6 obs.

APR 28, 1993 15h 38m 25.37 ± 0.61s
 26.367 S ± 5.7km 27.462 E ± 7.0km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.0 (PRE). mbLg 3.0 (BUL).

PRY 0.56 179 eP 38 36.00 -0.6
 KSR 0.71 314 iPc 38 43.00 0.4
 BFS 0.80 229 eP 38 40.00 0.8
 SLR 0.97 50 iPd 38 42.30 0.1
 SEK 1.95 176 iPc 38 44.50 0.1
 SWZ 2.08 247 eP 38 56.50 2.4X
 BFT 2.42 74 eP 39 02.10 0.6
 BLF 2.96 202 eP 39 02.00 1.6
 BUL 6.28 10 iPn 39 08.10 -1.1
 MTD 10.28 23 iPn 39 13.00 -0.8
 S.D. = 1.1 on 9 of 10 obs.

? APR 28, 1993 16h 54m 46.90 ± 3.92s
 37.798 S ± 29.1km 176.179 E ± 13.4km
 DEPTH = 224.4 ± 25.5 km
 NORTH ISLAND, NEW ZEALAND (159)

URZ 0.87 122 Pc 55 17.80 -0.9
 WHH 1.11 167 P 55 35.40 -0.6
 PAHZ 1.26 147 P 55 19.70 -0.4
 NGZ 1.45 198 P 55 20.90 0.7
 CNZ 1.49 199 P 55 23.60 0.6
 NOZ 1.68 120 P 55 23.70 0.4
 TTH 1.81 164 P 55 25.00 0.3
 WAHZ 1.90 176 P 55 26.10 0.1
 MAHZ 1.93 137 P 55 26.80 0.7
 TEHZ 2.24 167 P 55 27.60 0.1
 PGZ 2.82 179 P 55 30.10 0.0
 MNG 2.87 191 Pc 55 36.20 0.0
 KIW 3.22 197 P 56 08.60 -0.2
 MTW 3.40 189 P 55 40.50 -0.5
 CAW 3.42 194 P 55 42.30 -0.2
 BLW 3.61 188 P 55 42.90 -0.5
 MRW 3.61 198 P 55 44.80 -0.2
 TCW 3.71 203 P 56 25.00 0.1
 KHZ 5.04 203 eP 55 45.20 0.5
 S.D. = 0.5 on 19 of 19 obs.

% APR 28, 1993 17h 27m 51.83 ± 0.68s
 28.102 S ± 6.3km 26.889 E ± 8.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.3 (PRE).

SEK 0.69 109 eP 28 05.50 -0.1
 BLF 1.18 211 iPc 28 15.00 0.1
 PRY 1.28 24 eP 28 30.00 -0.6
 FRS 2.14 220 e(P) 28 30.50 -0.2
 KSR 2.23 0 eP 28 28.50 0.0
 SLR 2.67 28 eP 28 58.60 0.8
 S.D. = 0.6 on 6 of 6 obs.

% APR 28, 1993 17h 43m 15.67 ± 0.84s
 26.385 S ± 6.4km 27.406 E ± 9.0km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.4 (PRE).

PRY 0.54 174 eP 43 25.90 -0.7
 KSR 0.69 318 iPd 43 29.50 0.0
 SLR 1.02 51 eP 43 40.00 -0.5
 SEK 1.94 174 iPd 43 43.50 0.7
 BFT 2.47 74 eP 44 13.20 0.5
 S.D. = 0.9 on 5 of 5 obs.

APR 28, 1993 18h 04m 32.14 ± 1.16s
 42.915 N ± 10.8km 20.801 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.9 (TTG), 2.6 (TIR).

IVA 0.66 267 iPgc 04 44.47 -1.0
 PVY 0.69 243 iPgc 04 53.89 -1.8
 PLE 1.11 292 iPgc 04 44.02 0.6
 TTG 1.24 247 iPgc 04 52.80 -1.0
 PHP 1.26 192 ePg 05 10.27 -1.1
 SDA 1.29 229 ePg 04 54.40 2.7X
 NKY 1.33 266 iPgc 05 09.90 -0.1
 ULC 1.49 231 iPgc 04 56.62 -0.6
 S.D. = 0.5 on 5 of 5 obs.

LACI 1.51 213 ePn 05 00.20 1.0
 BDV 1.59 247 iSn 05 23.50 0.2
 BRY 1.66 270 iPnd 05 00.60 0.9
 TIR 1.71 204 ePn 05 22.92 1.8
 HCY 1.76 255 ePn 05 02.45 1.0
 FNA 2.17 168 ePn 05 26.55 0.5
 KBN 2.29 180 ePn 05 04.00 1.2
 GRG 2.29 148 ePn 05 30.20 0.0
 KNT 2.35 138 ePn 05 03.90 -0.4
 TPE 2.68 193 ePn 05 28.39 4.8X
 SRS 2.75 130 ePn 05 09.40 1.2
 HVAR 3.20 276 e(Pn) 05 39.24 4.2X
 S.D. = 1.1 on 17 of 20 obs.

APR 28, 1993 18h 50m 18.32 ± 0.65s
 46.420 N ± 4.6km 14.319 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 3.1 (VIE), 3.0 (LJU). MD 2.8
 (TRI). Felt (IV) at Ferlach,
 Austria. Felt (IV) at Jesenice,
 Slovenia.

LJU 0.40 158 iPgc 50 26.90 0.3
 VOY 0.49 217 iPgc 50 33.10 -0.6
 RBL 0.52 273 Pc 50 27.70 1.6
 CEY 0.69 174 ePc 50 34.80 -0.4
 TRI 0.81 209 ePg 50 31.50 0.5
 KBA 0.94 315 iPgc 50 42.00 -1.8
 FVI 1.08 280 P 50 33.50 -1.1
 VBY 1.12 144 iPgc 50 45.30 0.5
 BHG 1.63 323 ePn 50 47.00 0.1
 CTI 1.89 260 P 50 53.30 0.2
 SCE 1.90 290 ePnd 50 37.40 1.8
 WTTA 2.03 296 iPnc 50 53.30 1.2
 WATA 2.09 297 iP 50 56.30 1.5
 SOTA 2.28 292 iP 50 56.10 1.7
 VKA 2.29 36 i(Pn) 50 58.40 4.6X
 0.6s 58.20nm 51 00.10 0.4
 MOTA 2.39 294 iPnc 51 04.40 1.1
 GEC2 2.46 350 Pn 51 28.50 -0.5
 ZST 2.60 46 eP 51 34.20 31.5X
 KHC 2.76 350 Pn 51 41.00 -0.4
 SRO 3.06 61 eP 51 45.00 8.0X
 ARV 3.08 199 P 51 48.50 -0.2
 PRU 3.57 2 Pg 51 03.00 9.1X
 GRF 3.88 329 ePn 52 07.50 3.2X
 S.D. = 0.5 on 8 of 8 obs.

28d 18h

BRG 4.46 357 eSg 52 17.40
iPc 51 41.00 13.5X
iSg 52 44.00
MOX 4.59 338 ePn 51 28.20 -1.2
eSg 52 44.20

S.D. = 1.1 on 19 of 25 obs.

APR 28, 1993 19h 24m 46.74 ± 0.76s
34.281 N ± 9.1km 23.658 E ± 7.3km
DEPTH = 33.0km (normal)

4.1mb (3 obs.)

CRETE (370)

YER 4.72 52 ePn 26 00.00 2.5
AGG 4.85 348 eP 26 00.42 1.1
CIN 4.89 46 eP 26 03.00 3.2X
PAIG 5.64 0 eP 26 09.46 -0.9
ELL 5.66 62 ePn 26 12.10 1.2
IGT 5.88 334 eP 26 13.78 -0.1
LIT 5.88 351 eP 26 12.58 -1.3
SRS 6.82 360 eP 26 26.30 -0.8
KNT 6.90 355 eP 26 28.34 0.2
LCI 7.56 325 P 26 33.40 -3.9X
MEU 7.64 294 P 26 39.60 1.0
CSS 8.00 82 eP 26 42.50 -1.1
eS 28 08.00
ORI 8.15 317 P 26 45.50 -0.1
BRT 8.34 324 P 26 47.00 -1.3
JVI 10.08 100 eP 27 11.60 -0.8
HRI 10.11 92 eP 27 11.80 -1.0
SAGI 10.16 110 eP 27 13.00 -0.4
eS 28 58.10
MASJ 10.44 101 P 27 16.70 -0.6
MBH 10.53 112 eP 27 19.70 1.2
SHWJ 10.74 108 P 27 21.70 0.1
NAQJ 10.91 110 P 27 24.80 1.0
HSHJ 11.10 113 P 27 25.40 -0.9
KHC 16.61 336 P 28 42.50 3.9X
1.0s 2.40nm 3.3mb
e 28 52.50
DOU 21.10 324 P 29 31.80 1.3
0.7s 7.80nm 4.2mb
HFS 26.67 349 eP 30 23.90 -0.3
0.4s 3.50nm 4.3mb

S.D. = 1.1 on 22 of 25 obs.

? APR 28, 1993 19h 30m 09.34 ± 6.13s
9.820 S ± 65.2km 72.940 W ± 18.0km
DEPTH = 33.0km (normal)

PERU-BRAZIL BORDER REGION (112)

NNA 4.40 240 iPd 31 15.60 0.0
0.5s 137.32nm
eS 31 57.00
ARE 6.75 168 eP 31 49.00 0.0
ZOBO 7.94 144 P 32 05.20 -0.8
LPB 8.17 145 eP 32 10.00 1.0
CNCB 8.46 146 P 32 13.00 -0.2
S.D. = 0.9 on 5 of 5 obs.

* APR 28, 1993 19h 55m 54.91 ± 2.46s
31.270 S ± 17.6km 68.470 W ± 14.9km
DEPTH = 102.2 ± 25.5 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.06 179 iPc 56 09.30 -0.3
ZON 0.33 213 iPd 56 11.10 0.9
eS 56 21.10
RTCB 0.35 233 iPd 56 10.00 -0.4
RTCV 0.59 186 iPd 56 11.60 -0.3
RTBS 0.93 245 ePd 56 14.90 0.0
MDZ 1.64 191 e(P) 55 26.20 -57.3X
RTPR 1.94 61 iPc 56 27.30 0.0
MRA 2.61 117 e(P) 56 36.20 0.0
S 57 01.90

S.D. = 0.6 on 7 of 8 obs.

* APR 28, 1993 20h 20m 02.63 ± 4.29s
31.561 S ± 16.6km 67.272 W ± 10.4km
DEPTH = 164.3 ± 55.5 km

SAN JUAN PROVINCE, ARGENTINA (137)

ZON 1.20 270 iPc 20 30.80 0.0
eS 20 47.80
RTPR 1.41 28 ePd 20 32.60 -0.1
MRA 1.58 123 iPc 20 34.50 0.1
S 20 55.20

RTBS 1.86 266 iPc 20 37.70 0.3
MDZ 1.88 225 iP 20 37.50 -0.2
iS 20 59.80
RFA 3.35 197 eP 20 55.60 0.0
S.D. = 0.3 on 6 of 6 obs.

APR 28, 1993 20h 30m 34.77 ± 0.33s
21.000 S ± 5.5km 67.936 W ± 7.5km
DEPTH = 168.2km (12 depth phases)

4.6mb (11 obs.)

CHILE-BOLIVIA BORDER REGION (124)

YJA 2.55 118 iPd 31 19.20 0.9
HJA 3.22 134 ePc 31 27.30 1.2
ANT 3.54 220 iP 31 27.80 -2.4
iS 32 04.80
CNCB 4.17 359 iPc 31 39.60 0.7
SLA 4.34 149 ePc 31 41.40 0.7
S 32 31.00
LPB 4.45 358 iPc 31 43.20 0.8
1.0s 580.00nm
ZOBO 4.71 358 iPc 31 45.30 -0.7
FSA 5.36 161 iPc 31 55.00 1.1
ARE 5.63 323 iPc 31 54.50 -3.4X
iS 32 52.00
RTPR 9.35 172 e(P)d 32 43.60 -3.3X
RTLL 10.30 183 eP 32 55.60 -3.8X
RTCB 10.47 184 eP 33 00.00 -1.7
CFA 10.57 181 e(P) 32 59.50 -3.4X
PEL 12.34 191 eP 33 25.00 -0.9
NNA 12.37 315 eP 33 23.00 -3.5X
0.5s 9.15nm 4.5mb
eS 35 32.50
PPD 15.51 97 eP 34 05.20 -0.7
e 34 07.80
BAO 19.67 78 eP 34 51.50 -1.5
i 34 52.90 5kmX
i 35 20.60
i 35 27.00
e 39 49.20
e 40 23.10
e 40 26.90
CACB 19.76 96 eP 34 52.60 -1.4
e 34 53.70 4kmX
i 34 54.40
e 34 57.30
CDCB 21.74 92 iPd 35 13.90 0.3
e 35 15.00 4kmX
e 35 22.10
e 35 49.00

MIAR 60.38 336 eP 40 26.54 -1.8
0.6s 5.45nm 4.6mb
pP 41 05.67 167km
OLY 60.46 338 ePc 40 26.98 -1.9
ELC 61.35 341 eP 40 32.62 -2.2
pP 41 13.47 174km
FVM 62.36 340 eP 40 39.61 -1.9
0.7s 55.16nm 5.6mb
pP 41 18.18 163km
ALO 66.58 326 eP 41 08.71 -0.4
0.7s 5.80nm 4.5mb
LMN 66.59 2 eP 41 10.50 1.8
GAC 66.74 354 eP 41 10.00 0.4
pP 41 54.00 186kmX
NVL 66.97 159 iPd 41 12.00 1.1
0.8s 20.00nm 5.0mb
LIC 67.38 74 P 41 13.34 -0.9
0.7s 15.50nm 4.9mb
TIC 67.56 73 P 41 14.26 -1.2
KIC 67.69 74 P 41 15.04 -1.2
SPA 69.13 180 ePd 41 25.80 1.3
0.9s 13.64nm 4.7mb
GOL 69.77 330 eP 41 28.68 -0.1
0.7s 5.99nm 4.5mb
pP 42 08.46 165km
SRU 71.86 326 eP 41 40.65 -0.6
MSU 72.29 325 eP 41 44.41 0.5
pP 42 26.01 172km
ARUT 72.45 324 eP 41 46.25 1.5
EMUT 72.53 327 eP 41 45.98 0.7
RSSD 72.75 334 P 41 47.20 0.8
0.8s 9.59nm 4.6mb
DAU 73.20 327 eP 41 49.92 0.7
pP 42 31.56 172km
BW06 74.14 329 eP 41 54.52 0.0
0.9s 3.79nm 4.1mb
pP 42 35.15 167km

JAO 74.79 355 eP 41 56.00 -1.7
pP 42 36.50 166km
HVV 74.98 327 eP 41 59.67 0.4
ULM 75.12 342 eP 42 02.00 2.3
pP 42 43.50 170km
MMPM 75.55 320 eP 42 03.33 0.5
ORV 78.28 321 eP 42 18.64 1.1
pP 43 00.56 171km
DPW 82.03 328 eP 42 37.97 0.8
PcP 42 45.27
pP 43 19.70 168km
sP 43 37.39

FCC 82.35 347 eP 42 41.50 3.0X
pP 43 22.00 163km
YKA 91.02 340 eP 43 20.20 -0.3
0.7s 5.60nm 4.8mb
ASPA 130.77 207 ePKP 49 28.60 0.5
0.6s 5.20nm

WRA 133.84 210 PKP 49 35.50 1.5
0.8s 2.50nm
GBA 146.19 97 PKP 49 58.00 1.8
HYB 148.19 91 ePKP 50 03.50 4.1X
IRK 148.21 9 ePKP 50 03.00 4.6X
2.0s 46.00nm
e 50 46.30
LEM 152.01 171 ePKPc 50 14.50 9.0X
S.D. = 1.3 on 44 of 53 obs.

% APR 28, 1993 21h 28m 04.89 ± 0.88s
39.182 N ± 8.1km 27.937 E ± 12.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

DST 0.68 51 iPg 28 18.20 -0.3
eSg 28 28.20
IZM 0.94 214 iPg 28 22.90 0.0
iSg 28 37.40
KCT 1.11 17 iPn 28 26.10 0.3
EDC 1.16 357 ePn 28 27.00 0.4
BNT 1.17 359 ePn 28 26.10 -0.7
YLV 1.77 38 ePn 28 36.00 0.2
S.D. = 0.5 on 6 of 6 obs.

APR 28, 1993 21h 52m 06.10 ± 0.31s
45.317 N ± 6.2km 150.122 E ± 4.4km
DEPTH = 52.5km (3 depth phases)

4.8mb (57 obs.)

KURIL ISLANDS (221)

KUR 1.59 268 iPnd- 52 33.50 1.2
iS 52 51.00
KUSJ 4.48 242 P 53 11.00 -2.0
eS 53 59.00
YSS 5.42 291 iPnd 53 26.80 0.5
Z 17s 1.50um
N 16s 0.50um
E 16s 1.10um

(S) 54 28.00
ASAJ 5.46 260 eP 53 29.10 2.1
HOOJ 5.75 242 eP 53 30.70 -0.2
eS 54 33.10

SKR 6.69 35 ePn 53 43.60 -0.4
Z 14s 1.10um
N 14s 1.30um
E 14s 1.10um

iS 54 58.40
MRRJ 7.15 249 eP 53 51.20 0.7
OFUJ 8.84 228 P 54 09.30 -4.6X
eS 55 41.60

YAMJ 10.37 230 eP 54 31.30 -3.6X
MAT 12.56 230 eP 55 01.00 -3.3X
0.7s 10.27nm 4.9mb
(S) 57 42.00

MDJ 14.55 275 eP 55 31.00 0.6
MGD 14.81 1 eP 55 34.00 0.3
CN2 17.64 274 eP 56 09.80 0.3
0.8s 7.70nm 3.9mb
Z 18s 0.72um 4.6Msz
N 14s 0.13um
E 14s 0.19um

epP 56 18.00
eS 59 22.00
SNY 19.51 269 eP 56 32.40 0.7
Z 22s 0.62um
eS 00 08.00

YAK 20.48 332 eP 56 42.20 0.6

	1.0s	176.00nm	5.3mb	ASPA	70.22	196 eP	03 15.80	0.4	& APR 28, 1993 22h 40m 01.90s			
Z	22s	0.50um	3.8Msz		0.5s	4.40nm		4.6mb	36.190 N 89.440 W			
N	22s	0.40um		KIV	70.28	313 iPd	03 15.50	-0.2	DEPTH = 7.0km			
		eS	00 27.00		1.0s	23.00nm		5.1mb	NEW MADRID, MISSOURI REGION (486)			
DL2	22.02	263 eP	56 59.00		Z 16s	0.20um		4.5MsZx	<SLM-P>. MD 3.5 (SLM). mblg 3.6			
BOD	25.27	313 eP	57 27.40 -1.3	PV08	70.59	55 eP	03 18.02	0.0	(GS). Felt (IV) at Bogota,			
	1.5s	14.00nm	4.3mb	JAO	73.80	26 eP	03 35.50	-0.8	Covington, Finley, Lenox,			
BJ1	25.39	270 eP	57 31.00	KAC	75.52	347 eP	03 45.70	-0.4	Newborn and Ridely, Tennessee.			
	Z 16s	0.52um	4.1MsZx	KPL	75.73	347 eP	03 46.90	-0.4	Also felt (IV) at			
		eS	01 44.00	KSB	75.82	347 eP	03 47.50	-0.3	Coruthersville, Missouri. Felt			
SSE	26.63	248 P	57 41.50 0.0	CLL	76.87	334 iPc	03 53.00	-0.8	(III) at Somerville, Tigrett and			
	0.8s	9.00nm	4.4mb	EKA	77.21	345 Pd	03 55.50	-0.1	Trimble, Tennessee; Steele,			
	Z 20s	0.50um	4.1Msz		0.5s	3.30nm		4.6mb	Missouri and Leochville,			
NJ2	27.58	252 Pc	57 53.00 -2.9X	PRU	77.53	332 Pc	03 57.30	-0.2	Arkansas. Felt at Dyersburg,			
ILT	27.83	25 iPd	57 51.00 -0.9	KHC	78.59	333 Pc	04 03.50	0.2	Tennessee.			
		e	58 02.00			e	04 38.50		MFTN	0.05	127 iPc	40 03.60 0.0
HHC	28.33	275 Pc	57 56.60 -0.3	GEC2	78.79	332 ePc	04 04.10	-0.5	GRT	0.07	9 ePg	40 04.03 0.1
	0.8s	23.00nm	4.9mb		0.5s	3.85nm		4.6mb	ACTN	0.19	34 iPc	40 06.06 0.2
	Z 19s	0.74um	4.3Msz	GRF	78.84	334 iPc	04 05.00	0.3	HATI	0.19	266 iPd	40 06.26 0.3
E	14s	0.42um			1.0s	20.00nm		5.0mb	BBTN	0.20	356 iPc	40 05.17 -0.9
		eS	02 36.00	DMU	Z 21s	0.10um		4.1MsZx	OBTN	0.23	351 iPc	40 06.73 0.0
BTO	29.51	275 eP	58 06.60 -0.9	DLF	79.24	346 eP	04 06.40	-0.3	LDMO	0.24	336 iPc	40 06.80 -0.1
ZAK	31.42	296 eP	58 19.00 -5.1X	LTX	79.75	346 eP	04 09.40	-0.1	NMMO	0.41	347 ePc	40 09.67 -0.5
	1.0s	4.00nm	4.1mb	KBA	80.02	58 ePc	04 10.84	-0.7		S	40 15.23	
		e	59 47.00		80.45	332 iPc	04 13.80	0.2	DWM	0.62	356 ePc	40 13.14 -1.1
WHN	31.55	255 P	58 24.00 -1.4	PTJ	0.7s	12.00nm		4.9mb		S	40 21.29	
XAN	33.31	265 Pc	58 39.80 -1.1	ECB	80.56	329 eP	04 11.10	-3.0	WGAR	0.70	241 iPd	40 15.05 -0.8
	0.8s	11.00nm	4.8mb	ECP	80.69	346 eP	04 14.60	0.1		S	40 23.91	
		pP	58 53.90 56km		80.80	346 eP	04 15.20	0.2	ELC	1.11	9 iPnc	40 21.62 -1.3
TTA	34.87	40 eP	58 54.30 0.3	GAC	0.5s	36.00nm		5.6mb		S	40 34.59	
LZH	35.85	272 iPc	59 02.50 -0.2	WTTA	80.82	30 eP	04 15.50	0.2	OLY	1.79	248 iPnd	40 31.45 -1.9
	1.0s	40.00nm	5.3mb		80.85	333 iPc	04 15.90	0.2	FVM	1.96	337 iPnc	40 34.90 -0.9
	Z 24s	0.42um	4.1MsZx	CDF	0.4s	15.50nm		5.2mb		Sg	41 01.96	
		pP	59 16.00 51km		81.16	336 eP	04 16.90	-0.3	NHIL	2.01	30 ePd	40 36.15 -0.4
BRW	36.17	26 eP	59 05.20 0.5	BSF	0.5s	2.50nm		4.4mb		S	41 02.73	
IMA	36.19	35 eP	59 04.95 -0.2		81.82	336 eP	04 20.20	-0.5	8PIL	2.12	18 ePd	40 37.66 -0.5
	0.6s	3.27nm	4.4mb	MML	0.8s	3.10nm		4.4mb		S	41 05.31	
GTA	37.14	279 P	59 13.10 -0.4	FLN	82.60	309 eP	04 26.00	1.1	WDIN	2.34	35 ePd	40 41.00 -0.4
	1.0s	11.00nm	4.7mb		82.85	341 iPc	04 25.80	0.0		S	41 10.84	
	Z 16s	0.34um	4.2MsZx		0.5s	7.50nm		5.0mb	TYS	2.50	339 ePd	40 43.17 -0.4
		PcP	01 33.50	LDF	Z 19s	0.05um		3.9MsZx		S	41 18.36	
FBA	38.57	37 eP	59 25.41 0.4		82.92	341 iPc	04 26.10	-0.1	MIAR	3.76	245 Pn	40 59.09 -2.4
	0.8s	6.78nm	4.6mb	LOR	0.4s	3.15nm		4.7mb		Pg	41 07.98	
CD2	38.68	265 iPc	59 26.20 -0.1		83.15	338 iPc	04 27.30	-0.2		Lg	41 52.52	
	0.7s	38.00nm	5.4mb	Z 19s	0.5s	6.70nm		4.9mb	GBTN	4.28	95 Pn	41 07.03 -1.9
KMI	42.92	258 Pc	00 01.00 -0.5	GRR	0.6s	18.60nm		5.3mb		Pg	41 15.54	
	1.6s	50.00nm	5.0mb		83.28	341 iPc	04 28.30	0.2		Lg	42 07.76	
		pP	00 14.50 51km	LBF	0.6s	5.30nm		4.7mb	TKL	4.63	95 ePn	41 11.79 -2.1
INK	43.97	31 ePc	00 11.10 1.9		83.38	337 iPc	04 28.40	-0.3		Pg	41 22.39	
	0.7s	3.00nm	4.1mb	SSF	0.5s	2.60nm		4.5mb		Lg	42 21.11	
LSA	48.26	272 Pc	00 45.10 0.9		83.43	338 iPc	04 28.80	-0.1	GOGA	5.64	118 ePn	41 24.40 -3.8
	0.7s	4.00nm	4.5mb	LPF	0.6s	5.30nm		4.7mb		eP*	41 35.64	
CHG	49.75	255 eP	00 55.00 -0.2		83.66	341 iPc	04 30.40	0.4		ePg	41 44.71	
YKA	53.31	35 eP	01 21.10 -0.4	AVF	0.8s	12.20nm		5.0mb		(Sn)	42 31.57	
	0.6s	4.50nm	4.7mb		83.72	338 iPc	04 30.50	0.2	PRM	6.17	108 ePn	41 33.51 -2.1
NEW	59.70	51 eP	02 08.00 0.7	SMF	0.5s	4.45nm		4.7mb	OCO	6.56	267 iPd	42 04.70 23.5
	1.1s	8.64nm	4.8mb		83.73	337 iPc	04 30.50	0.1	JSC	6.96	104 (Pn)	41 42.43 -4.4
		e	02 23.00	LPL	0.9s	18.65nm		5.1mb		(Pg)	42 05.28	
FCC	63.59	32 ePc	02 35.00 1.9		83.93	335 iPc	04 32.20	0.5	MEO	7.59	262 e(P)	41 51.10 -4.5
KAF	63.85	334 eP	02 32.60 -2.2	LPG	0.8s	9.40nm		4.9mb	WMOK	7.76	262 ePn	41 52.27 -5.7
	0.6s	2.50nm	4.4mb		83.95	335 iPc	04 32.40	0.5		Lg	44 02.29	
BGMT	64.31	51 ePc	02 38.70 0.2	BGF	0.7s	5.50nm		4.7mb	ACO	7.84	277 e(P)	41 57.40 -1.7
VAN	65.53	300 iP	02 45.00 -1.0		84.07	338 eP	04 32.80	0.7	CEH	8.39	89 P	42 01.36 -5.4
	7.0s	10.00nm	3.9mb X	LMN	0.5s	4.50nm		4.8mb		S	44 17.90	
NUR	65.59	334 eP	02 43.90 -2.2	PRNI	84.12	24 eP	04 44.50	12.1X	GOL	13.05	290 eP	43 04.33 -6.3
	0.4s	2.20nm	4.5mb	MAF	84.42	308 eP	04 35.40	1.2		Sg	46 49.46	
TNP	65.83	60 eP	02 48.66 0.4		84.46	338 iPc	04 34.90	0.8	29 obs. associated			
	0.6s	2.82nm	4.5mb	TCF	0.7s	12.80nm		5.1mb	* APR 28, 1993 23h 52m 52.10± 3.13s			
WB2	66.51	196 eP	02 51.40 -1.0	LSF	84.49	338 iPc	04 34.70	0.4	32.241 S ±13.9km 68.349 W ±18.0km			
	0.7s	4.40nm	4.6mb		0.8s	6.45nm		4.8mb	DEPTH = 110.2 ± 37.6 km			
WRA	66.52	196 P	02 52.00 -0.4	MFF	84.70	339 iPc	04 35.70	0.4	MENDOZA PROVINCE, ARGENTINA (139)			
	0.6s	2.20nm	4.4mb		1.0s	17.20nm		5.1mb	CFA	0.64	8 eP	53 10.70 0.4
FRB	67.07	18 ePc	02 53.90 -1.5		84.79	340 iPc	04 36.30	0.6		S	53 25.80	
	0.5s	2.00nm	4.4mb	MBH	0.6s	9.55nm		5.1mb	MDZ	0.77	213 iP	53 11.30 -0.1
BW06	67.27	52 eP	02 57.44 0.1	RJF	84.93	308 eP	04 37.70	0.9		i	53 26.80	
	0.7s	2.21nm	4.3mb		85.58	338 iPc	04 40.40	0.7	RTCB	0.84	333 iPc	53 11.70 -0.4
POO	67.50	274 eP	03 04.00 5.1X		0.8s	7.80nm		4.9mb		S	53 27.20	
GBA	68.30	268 P	03 03.00 -0.8	Z 23s	0.8s	7.80nm		4.9mb	RTLL	0.91	354 iPd	53 12.50 -0.3
NB2	68.89	340 P	03 04.70 -2.2	CAF	85.79	338 iPc	04 41.90	1.1		S	53 28.80	
	0.5s	1.20nm	4.1mb		0.7s	7.70nm		5.0mb	RTBS	1.10	301 iPc	53 15.00 0.4
ULM	68.96	39 ePc	03 09.60 2.2	LFF	86.12	339 iPc	04 43.30	0.9				
HFS	69.04	338 eP	03 06.00 -1.8		0.6s	12.10nm		5.3mb				
	0.4s	3.30nm	4.6mb	LPO	86.25	338 iPc	04 43.90	0.9				
	Z 17s	0.07um	3.9MsZx		0.5s	3.85nm		4.9mb				
		LR	32 28.00	BAO	146.71	33 ePKP	11 42.90	0.7				
SRU	69.15	55 eP	03 08.75 -0.3			i	11 44.00					

28d 23h

RTPR 2.49 40 S 53 31.30
S.D. = 0.5 on 6 of 6 obs.

% APR 29, 1993 00h 07m 46.80±2.08s
17.838 N ±24.2km 66.266 W ±6.9km
DEPTH = 33.0km (normal)

PUERTO RICO REGION (90)

SJG 0.29 22 iP 07 54.80 0.2
S 08 00.30
CPD 0.39 59 iP 07 56.20 0.3
PORP 0.41 301 iP 07 56.60 0.4
LPR 0.60 39 iP 07 58.40 -0.6
S 08 07.20
LRS 0.71 310 iP 08 00.20 -0.3
S 08 09.60
APR 0.75 324 iP 08 01.20 0.2
S 08 12.20
MGP 0.80 282 iP 08 01.50 -0.2
S.D. = 0.4 on 7 of 7 obs.

APR 29, 1993 00h 42m 42.48±1.10s

30.684 S ±8.2km 71.324 W ±11.4km

DEPTH = 95.8 ±15.2 km

NEAR COAST OF CENTRAL CHILE (135)

MD 4.5 (SAN).

RTRS 1.69 73 iPc 43 11.00 -0.3
RTBS 1.88 122 iPd 43 14.50 0.8
JACH 2.09 163 eP 43 16.31 -0.4
iS 43 43.19
RTCB 2.31 111 iPd 43 20.00 0.4
ZON 2.43 111 iPd 43 23.20 2.0
eS 43 53.20
PEL 2.51 168 iP 43 22.71 0.4
iS 43 53.43
RTCV 2.66 117 iPd 43 24.60 0.3
S 44 00.20
FCH 2.78 162 eP 43 26.96 0.7
iS 44 01.56
LCCH 2.79 184 eP 43 25.13 -0.9
CFA 2.80 110 iPc 43 26.70 0.4
S 43 43.50
TACH 2.98 174 eP 43 28.99 0.3
PCH 3.01 167 eP 43 29.13 0.0
iS 44 05.84
MDZ 3.04 137 iP 43 31.40 1.8
i 43 49.50
LNV 3.26 181 eP 43 31.11 -1.4
CHCH 3.29 170 iP 43 32.99 0.0
iS 44 11.53
RTPR 4.17 86 ePd 43 43.80 -1.2
RFA 4.73 150 eP 43 52.00 -0.9
MRA 5.09 111 iPd 43 56.00 -1.8
S 44 52.50
CYA 5.31 67 iPd 43 59.20 -1.6
FSA 6.55 47 eP 44 17.00 -0.9
ANT 7.00 7 eP 44 33.50 9.4X
CNCB 14.14 13 eP 46 08.00 7.9X
LPB 14.39 13 (P) 46 18.00 14.8X
ZOB0 14.64 12 eP 46 08.00 1.4
PPD 19.87 69 eP 47 08.30 -0.2
BAO 26.09 60 eP 48 09.80 0.7
S.D. = 1.1 on 23 of 26 obs.

& APR 29, 1993 00h 48m 37.23s
33.961 N 119.172 W

DEPTH = 11.6km

SOUTHERN CALIFORNIA (43)

<PAS-P>. ML 3.3 (PAS).

SSK 1.25 78 eP 48 59.39 -1.1
S 49 16.68
BCH 1.43 329 eP 49 01.78 -1.4
PEC 1.67 92 eP 49 04.26 -2.3
S 49 29.38
ISA 1.79 19 ePn 49 04.40 -3.9
ePg 49 08.35
S 49 31.98
PLM 2.02 107 eP 49 08.87 -2.8
S 49 41.40
GSC 2.37 55 eP 49 15.34 -1.3
S 49 49.62
BONR 4.05 10 (P) 49 39.18 -1.4
7 obs. associated

& APR 29, 1993 02h 30m 01.15s

60.149 N 153.337 W

DEPTH = 146.6km

SOUTHERN ALASKA (2)

<AEIC>.

INW 0.13 128 iPc 30 20.19 0.5
eS 30 35.36
INE 0.16 123 iPc 30 20.30 0.5
eS 30 35.63
RDW 0.43 38 iPd 30 21.30 -0.9
eS 30 37.49
RS1 0.42 42 ePd 30 21.37 -0.9
eS 30 37.26
RS2 0.43 42 ePc 30 21.31 -1.0
eS 30 36.95
RSO 0.43 42 ePd 30 21.36 -0.9
eS 30 36.92
NCT 0.46 26 eP 30 21.31 -1.0
OPT 0.50 174 iPc 30 21.53 -0.9
eS 30 37.52
DFR 0.55 36 ePd 30 21.61 -1.1
eS 30 38.30
PDB 0.56 230 iPc 30 21.51 -1.2
RDT 0.63 47 eP 30 22.20 -1.0
AUL 0.77 184 iPc 30 23.29 -0.7
AUW 0.78 185 iPc 30 23.33 -0.8
AUH 0.79 184 eP 30 23.53 -0.7
AUE 0.79 181 eP 30 23.18 -1.0
AUI 0.82 183 ePc 30 23.35 -1.0
XLV 1.07 130 eP 30 25.35 -1.2
MCNL 1.09 208 ePc 30 25.61 -1.1
CKL 1.16 25 iPd 30 26.81 -0.7
eS 30 46.72
CKT 1.19 27 iPd 30 26.87 -0.9
NKA 1.20 59 iPc 30 28.24 0.6
BGL 1.21 22 iPd 30 27.54 -0.4
SPU 1.21 31 iPd 30 26.93 -1.0
eS 30 47.86
CKN 1.22 27 ePd 30 27.39 -0.6
CNPM 1.23 120 iPc 30 26.97 -1.1
eS 30 46.89
CDD 1.23 187 iPc 30 26.83 -1.2
CP2 1.24 25 iPd 30 27.52 -0.8
CPAM 1.26 27 iPd 30 27.70 -0.7
CRP 1.26 27 eP 30 27.24 -1.3
BRLK 1.29 106 eP 30 27.93 -0.7
SLKM 1.59 76 ePc 30 30.51 -1.3
SYI 1.62 162 ePc 30 30.75 -1.3
SUA 1.83 43 ePd 30 33.51 -1.1
eS 30 58.88
SEW 1.95 90 eP 30 34.54 -1.2
MPA 2.01 78 iPc 30 35.50 -1.0
SKT 2.04 25 ePd 30 35.92 -1.0
PMS 2.16 58 P 30 36.70 -1.7
PTE 2.25 70 ePc 30 38.68 -0.8
GHO 2.70 51 iPc 30 42.71 -2.4
SML 2.95 54 ePc 30 45.76 -2.6
TTA 3.07 337 P 30 46.20 -3.7
SCM 3.38 57 eP 30 52.39 -1.5
HIN 3.41 83 eP 30 52.34 -2.0
VLZ 3.59 71 eP 30 55.36 -1.2
TRF 3.62 22 eP 30 55.94 -1.2
CVA 3.79 81 eP 30 57.10 -2.1
KLU 3.87 66 eP 30 57.77 -2.6
RND 3.90 31 eP 30 59.05 -1.7
FBA 5.41 26 eP 31 18.46 -2.4
49 obs. associated

* APR 29, 1993 02h 42m 47.90±2.96s
33.983 S ±15.4km 179.092 W ±19.3km

DEPTH = 58.0 ±20.8 km

4.8mb (7 obs.) 4.8msz (1 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.18 210 eP 43 51.10 0.5
PUZ 4.61 207 P 43 55.10 -1.6
eS 44 54.40
KUZ 5.06 235 P 44 04.70 1.7
NOZ 5.17 206 eP 44 04.80 0.2
URZ 5.26 215 eP 44 04.40 -1.4
eS 45 09.60
WLZ 5.80 226 eP 44 14.00 0.7
OUZ 6.15 256 eP 44 20.00 1.7
MOZ 6.68 226 eP 44 26.00 0.3
NGZ 6.71 218 eP 44 24.80 -1.5
MNG 7.91 212 eP 44 37.60 -5.1X

SNZO 8.81 212 eS 46 08.60
eP 45 19.00 23.9X
eS 47 27.00
KHZ 10.22 212 eP 45 08.00 -6.4X
eS 47 00.90
LTZ 11.09 215 eP 45 18.20 -8.1X
eS 47 21.80
DZM 17.41 309 iPc 46 47.60 -0.7
BRS 25.02 278 eP 48 11.00 3.0X
RMO 28.68 276 IPd 48 42.90 1.5
1.0s 70.00nm 5.2mb
STK 32.93 263 eP 49 17.90 -0.9
1.1s 2.60nm 4.0mb
CTA 33.65 285 iPc 49 25.00 -0.2
1.0s 21.25nm 5.0mb
i 49 37.00
ADE 34.62 256 eP 49 34.20 0.7
ASPA 42.13 271 IPd 50 35.50 -0.7
1.3s 20.50nm 4.7mb
Z 18s 1.10um 4.8msz
eS 56 51.80
WB2 43.43 277 iPc 50 45.30 -1.5
0.4s 31.00nm 5.4mb
WRA 43.44 277 P 50 45.80 -1.1
0.8s 8.90nm 4.6mb
SPA 56.19 180 IPd 52 25.00 1.0
1.0s 3.50nm 4.4mb
NVL 75.25 184 eP 54 26.00 0.3
LMN 129.55 56 ePKP 01 23.00 -28.5X
OBN 147.47 321 iPKPd 02 24.00 0.5
1.6s 140.00nm
e 03 29.00
KAF 147.56 338 iPKP 02 22.60 -0.9
0.8s 12.70nm
NUR 149.30 337 ePKP 02 28.00 1.8
0.5s 13.80nm
MBH 150.93 271 ePKP 02 34.70 4.9X
DSI 150.99 275 ePKP 02 34.50 4.8X
HRI 151.07 278 ePKP 02 35.30 5.4X
MML 151.17 277 ePKP 02 35.50 5.5X
UPP 151.88 342 iPKP 02 33.30 3.2X
NB2 152.12 349 PKP 02 34.30 3.7X
1.0s 12.00nm
HFS 152.53 346 ePKP 02 35.30 4.2X
0.4s 1.20nm
CSS 153.31 281 ePKP 02 32.80 -0.2
S.D. = 1.2 on 23 of 36 obs.

& APR 29, 1993 03h 00m 11.38s
61.942 N 151.366 W

DEPTH = 77.7km

SOUTHERN ALASKA (2)

<AEIC>.

SKT 0.09 297 IPd 00 22.10 1.1
SUA 0.56 148 iPc 00 25.67 -0.2
eS 00 37.14
PWA 0.76 112 P 00 27.70 0.0
S 00 40.90
CRP 0.78 209 IPd 00 26.77 -1.3
eS 00 39.67
CPAM 0.78 209 IPd 00 27.43 -0.7
eS 00 41.57
CP2 0.80 212 eP 00 27.10 -1.3
eS 00 40.63
CKN 0.82 209 IPd 00 27.83 -0.6
SPU 0.83 204 IPd 00 27.63 -1.0
eS 00 41.13
BGL 0.84 216 IPd 00 28.17 -0.6
CKT 0.85 209 IPd 00 27.84 -1.0
CKL 0.88 212 IPd 00 28.36 -0.9
1.11 128 P 00 31.70 -0.3
PMS 1.12 107 eP 00 31.09 -0.9
PMR 1.12 107 eP 00 30.57 -1.4
GHO 1.17 97 ePd 00 32.13 -0.7
NKA 1.20 177 ePc 00 34.69 1.6
HUR 1.31 37 ePc 00 33.57 -1.0
eS 00 51.06
SML 1.44 94 IPd 00 35.18 -1.1
RDT 1.46 201 eP 00 35.81 -0.8
DFR 1.50 206 ePd 00 36.22 -0.8
SLKM 1.54 158 eP 00 37.14 -0.5
PTE 1.56 133 iPc 00 36.66 -1.1
NCT 1.58 209 ePd 00 37.38 -0.8
TRF 1.59 18 iPc 00 37.26 -1.2
eS 00 57.34
RDW 1.62 206 IPd 00 38.30 -0.5

29d 03h

RS2 1.63 205 ePd 00 38.36 -0.6
 RSO 1.63 205 ePd 00 38.34 -0.6
 RS1 1.63 205 ePd 00 38.35 -0.6
 MPA 1.75 145 eP 00 39.56 -0.8
 RND 1.87 37 eP 00 40.93 -1.2
 SCM 1.92 91 iPd 00 41.22 -1.5
 SEW 2.07 152 eP 00 46.27 1.6
 SVW 2.20 250 ePd 00 44.81 -1.8
 CNPM 2.43 178 eP 00 50.42 0.8
 VLZ 2.54 106 eP 00 48.65 -2.6
 KLU 2.63 97 ePc 00 50.30 -2.3
 SDG 2.79 75 eP 00 53.93 -0.7
 PAX 2.93 67 eP 00 55.18 -1.5
 WRH 2.94 29 eP 00 54.54 -2.2
 MCNL 3.13 209 eP 00 59.03 -0.4
 CCB 3.16 29 eP 00 57.24 -2.5
 HDA 3.18 37 eP 00 57.94 -2.2
 FBA 3.38 27 (P) 01 00.33 -2.5
 IMA 4.27 347 eP 01 12.50 -2.9
 44 obs. associated

? APR 29, 1993 03h 00m 46.20 ± 4.60s
 34.246 S ± 18.2km 178.725 W ± 39.1km
 DEPTH = 88.7 ± 24.2 km
 5.0mb (5 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.13 215 eP 01 49.90 1.8
 NOZ 5.08 210 eP 02 01.50 0.1
 KUZ 5.17 240 eP 02 03.00 0.3
 URZ 5.23 219 P 02 02.30 -1.1
 PAHZ 5.72 215 P 02 07.70 0.7
 WLZ 5.85 230 eP 02 13.10 1.0
 MOH 5.90 213 eP 02 14.10 1.4
 OUZ 6.40 259 eP 02 18.90 -0.7
 NGZ 6.71 221 eP 02 23.40 -0.6
 WAHZ 6.72 214 eP 02 20.80 -3.3X
 MOZ 6.73 229 eP 02 23.90 -0.3
 TEHZ 6.75 211 eP 02 22.30 -2.2
 PGZ 7.50 211 eP 02 30.60 -4.2X
 BSZ 7.51 221 eP 02 33.90 -1.0
 MNG 7.85 214 eP 02 36.60 -3.0X
 S 04 07.00
 MRW 8.70 215 eP 03 07.00 15.8X
 LTZ 11.06 217 eP 03 19.30 -3.8X
 DZM 17.81 309 iPd 04 49.70 -0.1
 RMO 29.01 277 iPd 06 41.30 1.5
 1.0s 44.00nm 5.0mb
 STK 33.20 263 eP 07 17.60 1.1
 0.8s 1.50nm 3.9mb X
 CTA 34.02 285 iPc 07 23.00 -0.6
 1.0s 15.00nm 4.8mb
 ASPA 42.44 271 eP 08 33.40 -0.6
 0.5s 13.60nm 5.0mb
 WB2 43.76 277 iPc 08 44.30 -0.4
 0.4s 39.70nm 5.6mb
 WRA 43.77 277 P 08 44.30 -0.4
 0.5s 8.80nm 4.8mb
 OBN 147.87 321 iPKPd 20 22.30 3.7X
 1.5s 84.00nm
 i 20 47.00
 KAF 147.92 338 iPKP 20 21.40 2.9X
 0.5s 4.70nm
 NUR 149.66 337 iPKP 20 26.60 5.4X
 0.4s 8.50nm
 MBH 151.23 270 ePKP 20 33.00 8.3X
 DSI 151.32 274 ePKP 20 32.80 8.1X
 HRI 151.41 278 ePKP 20 33.50 8.6X
 NB2 152.43 350 PKP 20 33.00 7.6X
 1.1s 8.40nm
 HFS 152.85 346 ePKP 20 33.10 7.1X
 0.4s 1.30nm
 S.D. = 1.1 on 19 of 32 obs.

? APR 29, 1993 03h 02m 45.16 ± 5.50s
 18.305 N ± 16.3km 67.027 W ± 48.6km
 DEPTH = 33.0km (normal)
 MONA PASSAGE (89)

LRS 0.17 94 iP 02 51.90 0.3
 S 03 18.90
 APR 0.32 63 iP 02 52.90 -0.2
 PORP 0.45 124 iP 02 54.50 -0.5
 CLLP 0.48 117 iP 02 55.20 -0.3
 SJG 0.86 103 iP 03 01.30 0.5
 CPD 1.09 104 iP 03 05.00 0.8

LPR 1.10 90 iP 03 03.70 -0.6
 S.D. = 0.7 on 7 of 7 obs.
 % APR 29, 1993 03h 44m 26.31 ± 1.80s
 40.119 N ± 17.5km 28.959 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).
 KCT 0.48 286 iPg 44 35.90 -0.2
 eSg 44 42.90
 YLV 0.55 35 iPg 44 37.30 -0.1
 eSg 44 44.40
 EDC 0.87 286 ePg 44 43.00 0.0
 eSg 44 56.00
 HRT 0.89 37 ePg 44 42.90 -0.5
 EYL 1.02 64 ePn 44 46.00 0.3
 CTT 1.10 339 iPn 44 47.40 0.4
 S.D. = 0.4 on 6 of 6 obs.

& APR 29, 1993 04h 00m 07.23s
 59.447 N 152.493 W
 DEPTH = 70.3km
 SOUTHERN ALASKA (2)
 <AEIC>.

XLV 0.39 89 iPc 00 18.43 -0.9
 eS 00 27.41
 OPT 0.43 299 iPd 00 18.96 -0.7
 eS 00 28.44
 AUE 0.46 259 eP 00 19.19 -0.6
 AUL 0.49 263 ePd 00 19.72 -0.4
 AUI 0.49 257 eP 00 19.54 -0.6
 eS 00 29.23
 AUH 0.49 261 eP 00 20.04 -0.2
 AUW 0.51 262 eP 00 19.91 -0.4
 CNPM 0.65 82 iPc 00 21.12 -0.7
 eS 00 32.10
 INE 0.68 335 iPd 00 21.22 -1.1
 eS 00 32.38
 INW 0.70 333 eP 00 21.48 -1.0
 eS 00 33.21
 CDD 0.79 229 iPd 00 22.69 -0.7
 eS 00 34.64
 SYI 0.84 176 eP 00 23.72 -0.3
 eS 00 36.33
 BRLK 0.88 68 iPc 00 23.86 -0.6
 iS 00 36.20
 PDB 0.93 292 ePd 00 24.01 -1.1
 eS 00 37.08
 MCNL 0.98 255 iPc 00 24.57 -1.2
 eS 00 38.09
 RS1 1.03 353 iPd 00 25.79 -0.7
 RSO 1.03 353 iPd 00 25.74 -0.8
 RS2 1.03 353 iPd 00 25.80 -0.8
 RDW 1.05 351 iPd 00 26.01 -0.8
 eS 00 41.71
 RDN 1.08 353 eP 00 26.34 -0.8
 RDT 1.13 2 eP 00 26.76 -1.0
 NCT 1.14 349 iPd 00 27.07 -0.8
 eS 00 42.80
 DFR 1.15 355 iPd 00 27.23 -0.8
 eS 00 42.53
 NKA 1.44 25 iPc 00 32.87 1.0
 SEW 1.67 66 eP 00 34.98 0.0
 KDC 1.70 180 eP 00 34.02 -1.3
 SPU 1.75 7 iPd 00 35.50 -0.6
 CKL 1.76 2 iPd 00 35.64 -0.6
 eS 00 58.23
 CKT 1.77 5 iPd 00 35.66 -0.7
 CKN 1.79 5 ePd 00 36.16 -0.5
 CPAM 1.82 5 ePd 00 36.81 -0.3
 BGL 1.82 2 eP 00 36.72 -0.4
 CP2 1.83 4 eP 00 36.72 -0.6
 CRP 1.83 5 eP 00 36.46 -0.9
 eS 01 00.38
 MPA 1.89 55 eP 00 37.86 -0.1
 SUA 2.20 22 ePc 00 42.10 -0.3
 PTE 2.24 49 eP 00 41.73 -1.1
 SVW 2.28 318 (P) 00 41.54 -1.9
 PMS 2.32 38 P 00 43.00 -0.9
 SKT 2.59 10 eP 00 46.70 -0.9
 PMR 2.72 36 (P) 00 47.92 -1.5
 GH0 2.92 35 eP 00 51.43 -0.9
 SML 3.13 39 eP 00 53.76 -1.5
 HIN 3.16 70 eP 00 54.48 -1.2
 SCM 3.49 45 eP 00 59.06 -1.3

VLZ 3.50 59 eP 00 59.80 -0.6
 KLU 3.85 55 iPc 01 03.05 -2.2
 BALM 5.30 68 eP 01 23.49 -2.3
 FBA 5.90 20 eP 01 31.16 -2.8
 49 obs. associated

& APR 29, 1993 04h 35m 07.28s
 59.105 N 153.109 W
 DEPTH = 73.7km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUI 0.28 325 iP 35 18.28 -0.6
 eS 35 26.68
 AUE 0.29 332 iP 35 18.52 -0.4
 AUH 0.31 327 iP 35 18.64 -0.5
 AUL 0.32 329 iP 35 18.89 -0.3
 AUW 0.32 325 iP 35 18.70 -0.5
 CDD 0.33 238 iP 35 18.38 -0.9
 eS 35 27.80
 OPT 0.55 354 iP 35 20.64 -0.5
 eS 35 31.20
 SYI 0.62 143 iP 35 21.08 -0.7
 eS 35 31.68
 MCNL 0.64 278 iP 35 21.25 -0.7
 XLV 0.79 63 eP 35 24.22 0.5
 eS 35 35.29
 PDB 0.88 322 iP 35 23.89 -0.9
 iS 35 36.91
 INE 0.96 1 eP 35 24.74 -1.2
 eS 35 38.76
 INW 0.97 359 iP 35 24.93 -1.0
 eS 35 38.40
 CNPM 1.05 65 eP 35 25.89 -1.0
 eS 35 41.25
 BRLK 1.31 59 eP 35 30.29 0.0
 eS 35 45.82
 RSO 1.37 7 eP 35 32.19 0.9
 RDW 1.39 6 eP 35 30.96 -0.5
 KDC 1.40 166 eP 35 29.75 -1.6
 eS 35 47.19
 RDN 1.42 7 eP 35 30.57 -1.3
 NCT 1.46 3 eP 35 31.81 -0.6
 DFR 1.51 8 eP 35 32.60 -0.4
 NKA 1.89 29 eP 35 38.64 0.5
 SEW 2.11 60 eP 35 39.37 -1.7
 CKL 2.13 10 eP 35 40.76 -0.8
 SPU 2.15 14 iP 35 40.77 -0.9
 CKT 2.15 12 iP 35 40.81 -0.9
 CKN 2.18 12 eP 35 41.49 -0.6
 BGL 2.20 9 eP 35 41.27 -1.1
 CP2 2.21 11 eP 35 41.25 -1.4
 CPAM 2.21 12 eP 35 42.05 -0.5
 CRP 2.22 12 eP 35 42.06 -0.7
 MPA 2.35 52 eP 35 43.83 -0.5
 SVW 2.37 329 eP 35 43.79 -1.0
 SUA 2.64 25 eP 35 47.62 -1.0
 PTE 2.71 48 eP 35 47.30 -2.0
 PMS 2.78 38 P 35 49.00 -1.5
 SKT 2.99 14 eP 35 52.29 -1.0
 PWA 3.02 31 P 35 52.70 -0.9
 PLRM 3.18 37 eP 35 53.45 -2.5
 KLU 4.30 53 eP 36 08.32 -3.5
 40 obs. associated

APR 29, 1993 05h 19m 12.45 ± 0.54s
 23.138 S ± 5.6km 68.243 W ± 7.6km
 DEPTH = 153.3 ± 10.0 km
 4.6mb (2 obs.)
 NORTHERN CHILE (123)

ANT 2.07 254 iP+ 19 50.00 1.0
 iS 20 15.50
 HJA 2.61 92 iPc 19 55.60 0.0
 YJA 2.71 70 iPc 19 56.60 -0.7
 SLA 2.97 123 ePd 20 01.70 1.4
 CYA 5.73 158 ePd 20 37.20 0.7
 CNCB 6.30 2 iPc 20 45.00 0.3
 LPB 6.57 1 P 20 48.40 0.1
 ZOBO 6.83 1 P 20 51.10 -0.9
 RTRS 7.09 189 ePd 20 54.50 -0.2
 RTPR 7.30 168 e(P) 20 56.80 -0.8
 ARE 7.31 335 eP 20 57.00 -1.1
 eS 22 12.00
 RTLL 8.16 181 ePc 21 07.70 -1.5
 RTBS 8.56 187 e(P) 21 09.40 -4.9X
 RTCV 8.69 182 ePc 21 08.00 -8.2X

29d 05h

SIV	9.81	45	Pc	21	39.80	8.8X
PEL	10.20	192	eP	21	33.00	-3.1X
PPD	15.68	89	eP	22	48.10	1.8
VAO	19.58	94	eP	23	30.20	-0.7
			e	23	31.20	
CACB	19.94	90	iPd	23	33.90	-0.7
			e	23	34.60	
BAO	20.50	72	eP	23	39.40	-0.9
			i	29	02.50	
FVM	64.27	341	eP	29	35.36	2.1
	0.7s	10.73nm			4.9mb	
PV08	72.13	328	eP	30	26.91	4.5X
MSU	73.87	325	eP	30	37.48	5.1X
ARUT	74.01	324	eP	30	38.63	5.5X
YKA	92.93	340	eP	32	12.30	3.7X
	0.7s	1.60nm			4.3mb	
WB2	131.84	209	ePKP	38	14.00	4.4X
	0.3s	3.40nm				
WRA	131.84	209	PKP	38	14.60	5.0X
	0.6s	1.30nm				
GBA	146.15	100	PKP	38	40.80	5.2X
	0.8s	5.50nm				
HYB	148.38	94	ePKP	38	47.50	8.3X
S.D. = 1.2 on 17 of 29 obs.						

% APR 29, 1993 05h 32m 02.13 ± 1.05s
38.992 N ± 7.5km 29.602 E ± 15.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

KHL	0.67	185	iPg	32	15.50	0.0
			iSg	32	24.50	
DST	0.97	309	ePn	32	20.00	-0.6
KCT	1.58	323	iPn	32	31.30	1.0
YLV	1.58	354	ePn	32	30.00	-0.3
EYL	1.63	15	ePn	32	31.00	0.0
S.D. = 0.9 on 5 of 5 obs.						

? APR 29, 1993 06h 20m 33.64 ± 1.65s
41.157 N ± 19.0km 28.854 E ± 6.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

ISK	0.18	120	iPg	20	37.80	0.1
			iSg	20	40.30	
CTT	0.32	268	iPg	20	40.30	0.0
HRT	0.70	118	ePn	20	47.40	-0.1
KCT	0.98	203	ePn	20	52.30	0.0
S.D. = 0.2 on 4 of 4 obs.						

APR 29, 1993 07h 37m 04.61 ± 0.53s
40.689 N ± 6.1km 107.053 W ± 4.9km
DEPTH = 5.0km (geophysicist)

COLORADO (479)
ML 2.5 (GS).

GOL	1.62	127	eP	37	33.46	-0.8
GLD	1.69	123	eP	37	35.43	0.4
			S	37	57.78	
PV08	2.44	211	eP	37	45.26	-0.9
			S	38	14.93	
PV09	2.71	217	ePc	37	50.71	0.7
			S	38	23.33	
PV10	2.77	214	ePn	37	51.48	0.7
			ePg	37	53.28	
BW06	2.80	319	(Pn)	37	51.39	0.2
			ePg	37	56.41	
EMUT	3.01	254	(Pn)	37	53.43	-0.6
			ePg	37	57.68	
			S	38	36.98	
SRU	3.10	241	ePn	37	55.88	0.6
			ePg	37	58.81	
			S	38	36.13	
DAU	3.21	266	(Pn)	37	56.23	-0.8
			ePg	38	00.37	
			S	38	42.38	
RSSD	4.09	32	(Pn)	38	09.61	0.2
			eP*	38	15.94	
			ePg	38	25.56	
			S	39	23.91	
DUG	4.42	265	(Pn)	38	14.08	0.0
HVU	4.45	286	(Pn)	38	16.46	2.0X
			ePg	38	30.41	
MSU	4.51	243	(Pn)	38	15.68	0.3
S.D. = 0.7 on 12 of 13 obs.						

APR 29, 1993 07h 54m 30.05 ± 0.43s
37.673 N ± 4.6km 21.391 E ± 2.6km
DEPTH = 10.0km (geophysicist)
4.7mb (29 obs.) 4.2Msz (1 obs.)
SOUTHERN GREECE (368)
ML 4.7 (TIR), 4.6 (TTG), 4.4
(ATH), 4.3 (THE). Felt at
Pirgos and Ilio.

VLS	0.81	309	ePn	54	45.00	-0.8
AGG	1.54	28	ePb	54	56.90	-0.6
			eSb	55	20.78	
VLI	1.56	127	ePn	54	57.00	-0.9
ATH	1.87	80	ePn	55	03.00	0.7
IGT	2.03	336	ePn	55	06.34	1.6
			eSn	55	38.60	
KEK	2.39	329	ePb	55	11.00	1.2
LSK	2.55	346	ePn	55	14.50	2.3
			iSn	56	00.00	
LIT	2.57	19	ePn	55	13.10	0.7
			eSn	55	48.20	
KZN	2.65	6	ePn	55	15.00	1.4
TPE	2.83	338	iPnc	55	20.00	3.9X
			iSn	56	07.50	
PAIG	2.87	38	ePn	55	15.54	-1.2
			eSn	55	53.10	
KBN	2.98	351	iPnc	55	20.00	1.7
			iSn	56	06.00	
FNA	3.11	360	iPn	55	20.30	0.3
			eSn	56	02.80	
VLO	3.16	333	ePn	55	25.20	4.5X
			iSn	56	18.60	
THE	3.20	22	ePn	55	21.38	0.1
GRG	3.37	13	ePn	55	24.66	0.8
OHR	3.46	353	iPnc	55	26.80	1.7
			i	55	36.50	
			i	55	41.30	
			i	56	08.10	
			i	56	27.50	
			i	56	32.20	
			Lg	56	41.00	
SOH	3.49	25	ePn	55	25.74	0.2
KNT	3.67	18	ePn	55	28.10	0.0
VAY	3.76	14	iPnc	55	30.30	1.1
			i	56	15.40	
			i	56	20.40	
			i	56	31.70	
			Lg	56	36.30	
LCI	3.77	316	P	55	29.20	-0.3
SRS	3.84	26	ePn	55	30.70	0.3
TIR	3.85	343	iPnc	55	31.00	0.4
			iSn	56	31.70	
PHP	4.07	350	iPnc	55	33.00	-0.7
			iSn	56	36.00	
GRI	4.08	288	P	55	38.88	5.1X
PRK	4.14	66	ePn	55	37.00	2.3
LACI	4.17	342	iPnd	55	35.40	0.4
			iSn	56	40.00	
ROI	4.23	298	P	55	38.00	2.8X
			eSn	56	31.40	
SOI	4.24	277	P	55	37.50	1.4
SKO	4.29	0	iPnc	55	37.20	0.3
	1.1s	196.00nm				
			iPb	55	46.40	
			iPg	55	49.50	
			i	56	13.50	
			iSn	56	23.50	
			iSb	56	39.50	
			iSg	56	44.00	
MMB	4.31	24	iPc	55	37.00	-0.1
AKB	4.39	17	iPd	55	39.00	0.8
ACI	4.40	294	P	55	41.60	3.2X
CZI	4.41	292	P	55	42.30	3.8X
EZN	4.42	59	iP	55	39.50	0.9
TDS	4.42	298	P	55	42.80	4.1X
CSI	4.51	299	P	55	44.50	4.5X
			eSn	56	40.20	
BRT	4.56	316	P	55	41.80	1.1
ULC	4.59	340	iPnc	55	40.26	-0.8
			iSn	56	30.81	
SDA	4.61	342	iPnd	55	40.60	-0.7
IZM	4.69	79	iP	55	42.10	-0.5
ATN	4.71	278	P	55	44.60	1.7
RDO	4.73	42	ePn	55	44.00	1.0
MMN	4.77	299	P	55	48.80	5.2X
BDV	5.01	338	iPnd	55	45.54	-1.4

TTG	5.02	342	iSn	56	39.97	
			iPnc	55	46.27	-0.9
			iSn	56	41.59	
PVY	5.03	348	iPnc	55	47.74	0.3
			iSn	56	44.07	
PLD	5.11	29	iPd	55	50.00	1.6
VTS	5.11	15	iPd	55	49.00	0.5
MGR	5.17	300	P	55	51.00	1.6
MEU	5.18	266	P	55	48.40	-1.1
PZI	5.20	265	P	55	47.68	-2.1X
HCY	5.26	336	iPnc	55	48.69	-1.9
			iSn	56	45.49	
CIN	5.31	89	eP	55	53.00	1.6
PGB	5.31	23	iPc	55	53.00	1.6
IVA	5.32	348	iPnd	55	51.64	0.2
			iSn	56	50.79	
DIM	5.41	35	iP	55	53.00	0.3
NKY	5.45	341	iPnc	55	51.97	-1.4
			iSn	56	51.66	
YER	5.51	94	eP	55	59.00	4.8X
SGO	5.54	303	P	55	57.60	3.1X
BRY	5.66	338	iPnc	55	54.24	-2.1
			iSn	56	55.56	
EDC	5.70	60	eP	55	58.00	1.1
BNT	5.75	60	eP	55	57.70	0.2
GIB	5.84	275	P	56	00.40	1.6
PLE	5.85	346	iPnc	55	58.57	-0.4
			iSn	57	02.66	
KCT	6.01	63	eP	56	01.30	0.2
DMK	6.42	48	iP	56	07.80	0.8
KHL	6.45	82	eP	56	06.50	-1.1
CTT	6.46	55	eP	56	07.80	0.3
HVAR	6.67	327	ePn	56	07.10	-3.3X
			iSn	57	21.30	
DUI	6.67	309	P	56	12.50	2.0
KSL	6.75	101	ePn	56	14.50	3.0X
ITU	6.83	58	eP	56	16.00	3.4X
ISK	6.84	58	eP	56	15.80	3.0X
YLV	6.84	63	eP	56	12.30	-0.7
SDI	7.09	307	P	56	18.90	2.4X
HRT	7.15	61	iP	56	17.40	0.1
SSR	7.19	2	ePd	56	17.00	-0.7
EYL	7.40	64	eP	56	14.00	-6.8X
GPA	7.42	67	eP	56	19.00	-2.0
BUC1	7.53	26	eP	56	32.00	9.5X
BUC	7.61	26	ePd	57	03.00	39.4X
GZR	7.78	7	ePd	56	25.00	-1.1
BZS	7.94	1	eP	56	24.00	-4.2X
MTUR	8.03	19	eP	56	28.00	-1.1
CMP	8.07	19	ePc	56	32.00	2.0
MNS	8.17	308	P	56	35.00	3.5X
DEV	8.28	7	ePd	56	33.00	0.0
ISR	8.40	26	eP	56	34.00	-0.7
MLR	8.52	22	ePc	56	37.50	1.0
ASS	8.57	312	P	56	38.20	1.1
ARV	8.67	315	P	56	38.90	0.5
CVO	8.89	22	eP	56	43.00	1.5
CFR	9.06	32	eP	56	43.00	-0.7
VBY	9.07	332	ePn	56	41.40	-2.5
ZAG	9.08	335	e(P)	56	44.70	0.7
VRI	9.18	24	ePd	56	45.50	1.1
UZD	9.15	348	eP	56	41.80	-3.2X
PTJ	9.16	335	iP	56	41.60	-3.7X
RIY	9.29	328	e(P)	56	43.60	-3.3X
CRE	9.32	313	P	56	49.40	2.0
SFI	9.55	314	P	56	51.80	1.3
CEY	9.59	329	eP	56	48.00	-3.1X
			eS	58	33.00	
PGD	9.60	313	P	56	52.70	1.3
LJU	9.80	331	eP	56	50.50	-3.5X
			e(S)	58	36.50	
FIR	9.81	312	e(P)	57	04.00	9.9X
			e(S)	58	42.00	
TRI	9.84	327	e(Pn)	56	54.70	0.2
			e	58	04.80	
			e(Sn)	58	40.20	
			e	00	03.60	
BUD	9.96	351	e(P)	56	53.00	-3.1X
CSS	10.01	102	eP	56	59.00	2.1
			eS	58	45.00	
VOY	10.05	329	iPc	56	53.90	-3.6X
			eS	58	42.20	
KAS	10.25	65	eP	57	05.50	5.2X
SRO	10.38	348	eP	57	01.20	-0.7
RBL	10.51	329	P	57	01.00	-2.8X
KIS	10.85	28	eP	57	17.00	8.7X
Z	12s		2.60um			

FVI	10.96	327	eS	59	10.00	
ZST	10.97	345	eP	57	08.60	-1.2
			e	57	06.50	-3.5X
			e	57	19.20	
			e	57	26.50	
			e	57	39.00	
			e	58	05.90	
UZH	10.97	3	eP	57	10.00	0.0
CTI	11.07	322	P	57	09.50	-2.0
KBA	11.12	330	iPc	57	09.60	-2.6X
	1.3s	20.50nm			5.3mb	X
		i	57	31.50		
		i	59	01.90		
		i	59	09.90		
SPC	11.54	356	eP	57	16.70	-1.3
WTTA	11.98	326	iPc	57	22.90	-1.0
	1.2s	44.10nm			5.6mb	X
		i	57	34.80		
		i	59	21.50		
		i	59	31.30		
WATA	12.06	326	iPc	57	23.30	-1.6
SBF	12.25	305	eP	57	29.50	2.1
	0.7s	10.70nm			5.2mb	X
GEC2	12.48	336	Pn	57	27.60	-3.0X
KHC	12.77	336	eP	57	31.50	-2.9X
	1.2s	12.50nm			5.0mb	X
	Z	15s	2.10um		5.4Msz	
	N	14s	1.00um			
	E	16s	1.10um			
		i	57	35.10		
		i	57	46.00		
		e	59	46.70		
JVI	12.82	112	eP	57	30.10	-5.0X
RMN	13.09	119	eP	57	33.60	-5.2X
PRU	13.26	340	eP	57	39.90	-0.9
	Z	16s	2.00um			
	N	16s	1.00um			
	E	16s	1.00um			
		e	57	50.20		
		e	58	02.50		
LPG	13.45	310	eP	57	46.00	2.4X
	0.8s	5.50nm			4.6mb	X
LPL	13.47	310	eP	57	46.40	2.6X
	1.0s	10.40nm			4.8mb	X
KSP	13.66	346	eP	57	46.50	0.4
MBH	13.71	121	eP	57	46.00	-0.9
ANN	13.95	54	eP	57	56.50	6.6X
GRF	14.07	332	eP	57	49.00	-2.5X
	Z	18s	1.00um			
		i	57	59.80		
MOX	14.73	335	eP	57	58.50	-1.6
	1.6s	44.00nm			4.8mb	X
		e	58	06.80		
BSF	14.74	318	eP	57	59.50	-0.9
CDP	14.86	321	eP	58	01.00	-1.0
CLL	14.87	339	eP	58	01.00	-1.0
		i	58	08.40		
HAU	15.09	318	eP	58	05.10	0.3
	0.8s	21.65nm			4.6mb	X
	Z	17s	0.75um		5.8Msz	
SOC	15.10	61	eP	58	20.00	15.0X
LBF	15.86	311	eP	58	17.70	2.8X
	1.2s	17.55nm			4.1mb	
LOR	16.07	312	eP	58	20.20	2.6X
	1.3s	19.15nm			4.1mb	
	Z	23s	0.55um		4.0Msz	
AVF	16.14	310	eP	58	21.00	2.6X
	1.1s	11.50nm			3.9mb	
SSF	16.18	311	eP	58	21.40	2.5X
	0.9s	14.60nm			4.1mb	
WLF	16.25	322	iPd	58	25.49	5.8X
	1.6s	87.50nm			4.6mb	
MAF	16.37	307	eP	58	22.90	1.4
	0.9s	5.55nm			3.7mb	
MNK	16.78	13	eP	58	29.00	2.6X
ENN	17.11	325	eP	58	35.00	4.4X
	1.2s	50.00nm			4.5mb	
KIV	17.28	62	eP	58	33.00	0.0
	1.4s	23.00nm			4.1mb	
	Z	15s	0.10um		5.0Msz	
		eS	01	46.00		
DOU	17.29	321	P	58	34.40	1.4
PYA	17.56	62	eP	58	38.00	1.7
MTA	18.44	70	eP	58	46.00	-1.3
LDF	19.05	312	eP	58	54.30	-0.4
	0.9s	20.15nm			4.4mb	
GRO	19.29	65	eP	59	07.00	9.3X

N	14s	1.50um				
E	14s	1.00um				
FLN	19.34	312	eP	58	57.30	-1.0
	1.0s	30.00nm			4.5mb	
	Z	23s	0.45um		4.3Msz	
LPF	19.37	309	eP	58	57.40	-1.2
	1.0s	19.00nm			4.3mb	
GRS	19.57	77	eP	58	59.00	-2.2
	1.4s	40.00nm			4.5mb	
	Z	11s	0.34um		5.6MszX	
	N	11s	0.16um			
	E	11s	0.31um			
	eS		02	42.00		
PAB	20.18	283	eP	59	07.00	-0.6
		eS	02	52.00		
OBN	20.26	26	iPc	59	05.00	-3.1X
	0.8s	26.00nm			4.6mb	
	Z	14s	1.30um		4.4MszX	
	N	14s	1.30um			
	E	14s	0.60um			
	i		59	13.00		
MOS	21.13	26	eP	59	16.00	-1.0
	Z	17s	1.32um		4.4MszX	
		e		59	36.00	
UPP	22.33	355	iP	59	27.50	-1.6
PUL	22.84	12	ePd	59	37.00	2.9X
	1.5s	140.00nm			5.3mb	
	Z	18s	0.80um		4.2Msz	
	N	18s	0.90um			
		e	59	51.00		
		e	00	09.00		
		e	03	28.00		
		e	03	38.00		
NUR	22.95	4	eP	59	33.00	-2.2
	0.6s	16.00nm			4.7mb	
HFS	23.01	350	eP	59	33.70	-2.1
	0.7s	23.90nm			4.8mb	
	Z	16s	0.45um		4.0MszX	
		LR	08	07.00		
KONO	23.26	345	eP	59	38.30	0.1
EKA	24.24	325	Pc	59	47.00	-0.7
	0.8s	18.30nm			4.7mb	
NB2	24.25	348	P	59	46.70	-1.2
	0.9s	30.60nm			4.9mb	
KAF	24.66	6	iP	59	50.20	-1.5
	0.7s	18.80nm			4.9mb	
VAN	28.89	78	eP	00	25.30	-5.6X
SVE	32.19	41	ePd	00	58.50	-1.5
	Z	11s	0.50um		4.5MszX	
	N	11s	0.50um			
	E	11s	0.50um			
GKN	53.12	81	P	03	46.60	-3.7X
	0.6s	22.00nm			5.3mb	
DMN	53.67	81	P	03	51.20	-3.3X
	0.6s	23.00nm			5.4mb	
KKN	53.73	81	P	03	51.00	-3.8X
	0.6s	15.00nm			5.2mb	
PKI	53.93	81	P	03	52.40	-4.0X
GUN	54.14	80	P	03	54.20	-3.8X
	0.6s	18.00nm			5.3mb	
GBA	55.03	100	P	04	00.00	-4.2X
LSA	57.39	76	eP	04	19.00	-2.6X
	0.6s	5.00nm			4.7mb	
GTA	59.46	62	eP	04	32.20	-3.3X
	1.0s	6.00nm			4.7mb	
		pP	04	38.50	21kmX	
BOD	60.42	38	eP	04	37.20	-4.5X
	1.0s	14.00nm			5.0mb	
LMN	61.83	308	eP	05	02.00	10.5X
JAO	64.43	319	eP	05	08.00	-0.4
HHC	66.75	56	eP	05	27.00	3.3X
	1.2s	16.00nm			5.1mb	
XAN	68.44	63	eP	05	30.00	-4.4X
INK	72.68	350	eP	05	59.00	-0.3
ILT	73.66	8	iPd	06	03.80	-1.2
CN2	73.73	47	eP	06	04.80	-1.1
	1.0s	12.00nm			4.9mb	
		eP	06	09.40	15kmX	
MGD	74.08	24	eP	06	06.00	-1.6
YKA	74.10	340	eP	06	04.80	-2.9X
	0.9s	1.60nm			4.0mb	
ULM	76.51	324	eP	06	23.50	1.8
YSS	80.70	36	eP	06	45.30	0.7
		e		06	54.50	
S.D. = 1.2 on 122 of 190 obs.						
APR 29, 1993 08h 21m 00.81± 0.13s						

35.611 N ± 2.3km 112.112 W ± 1.6km
 DEPTH = 10.0km (geophysicist)
 5.5mb (87 obs.) 5.0Msz (16 obs.)
 WESTERN ARIZONA (42)

Mw 5.3 (HRV). Some damage at Big Water, Utah and additional damage at Pipe Springs National Monument. Slight damage (V) in the Flagstaff area and short power outages at Grand Canyon Village, Tusayan and Valle. Felt (V) at Ash Fork, Bellemont, Clorkdale, Cottonwood, Parks, Peach Springs and Sedona; (IV) at Fredonia, Gray Mountain, Jerome, Page, Paulden, Seligman, Williams and Winslow; (III) at Chinle, Chloride, Colorado City, Carnville, Grand Canyon, Kirkland and Pine. Felt (V) at Bryce, Cedar City, Kanab and Springdale, Utah; (IV) at Hurricane and Tropic, Utah. Felt at Lake Powell, Orderville, Rockville and St. George, Utah. Also felt at Cottonwood Cave, Las Vegas, Overton and Searchlight, Nevada.

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 29S, 50C
 Centroid Location:
 Origin Time 08:21:10.0 0.3
 Lat 35.99N 0.04 Lon 111.93W 0.06
 Dep 15.0 BDY Half-duration 1.2
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.13 0.04 Mtt= 0.87 0.04
 Mff= 0.26 0.06 Mrt= 0.14 0.17
 Mrf= 0.14 0.14 Mtf=-0.13 0.04
 Principal Axes:
 T Val= 0.90 Plg= 3 Azm= 11
 N 0.26 7 280
 P -1.16 83 126
 Best Double Couple: Mo=1.0*10**17
 NP1: Strike=108 Dip=42 Slip=-80
 NP2: 275 49 -99

ARUT	2.42	334	eP	21	41.35	0.1
GLA	3.40	222	eP	21	54.24	-0.8
TPNV	3.60	293	ePnd	21	58.65	0.7
PV10	3.70	41	eP	21	58.95	-0.5
SRU	3.72	19	iPc	21	59.67	0.0
PV09	3.74	39	iPc	22	01.15	1.0
PV08	4.05	42	iPc	22	05.48	0.9
EMUT	4.32	13	iPc	22	08.80	0.5
PEC	4.50	249	iPd	22	10.20	-0.4
PLM	4.52	242	iPd	22	10.97	-0.1
DUG	4.61	353	ePnc	22	11.72	-0.6
		ePg	22	23.90		
ALO	4.67	97	ePnd	22	13.92	0.6
		ePg	22	26.62		
TNP	4.78	303	ePd	22	14.04	-0.8
SSK	4.79	255	ePn	22	14.30	-0.7
DAU	4.84	8	ePnc	22	15.36	-0.4
ISA	5.18	272	ePnd	22	19.36	-0.9
MTUM	5.48	290	iPd	22	24.66	0.0
		ePg	22	42.60		
BONR	5.49	297	iPd	22	24.45	-0.5
MRCM	5.54	294	ePnd	22	25.33	-0.2
MEMM	5.86	292	ePn	22	30.29	0.5
		ePg	22	52.04		
KVN	5.88	308	ePn	22	29.83	-0.4
MMPM	5.91	292	ePnd	22	30.24	-0.6
		ePg	22	51.16		
		eSg	24	05.80		
HVU	6.18	355	ePd	22	34.41	-0.1
FRI	6.29	285	iPc	22	36.56	0.7
		eS	24	20.47		
BCH	6.53	269	eP	22	38.13	-1.2
GOL	6.73	51	ePnd	22	42.88	0.6
		ePg	23	05.23		
PHAM	6.74	274	ePn	22	42.06	-0.3
		eSg	24	39.99		
GLD	6.85	51	ePnc	22	45.01	1.1
		ePg	23	07.70		
PRI	6.96	277	iPc	22	45.39	-0.1
		eS	24	40.22		

1.5

	1.2s	63.80nm	5.5mb	MAL	81.60	51 iPc	33 21.50	1.2		Z	16s	0.70um	5.2MsZx	
Z	17s	0.69um	5.0MsZx	BRG	81.69	31 iP	33 19.60	-0.9		N	15s	0.50um		
		LR	01 48.00		1.2s	32.00nm		5.3mb		E	15s	0.20um		
KUSJ	75.01	312 eP	32 42.50	-1.6		i	33 24.20		ARU	88.01	5 iPd	33 52.00	-0.1	
ASAJ	75.65	314 eP	32 48.00	0.2	ECOG	81.79	50 iPd	33 21.87	0.4		1.8s	200.00nm	6.1mb	
UPP	76.26	24 iP	32 50.30	-0.6	EROQ	81.92	45 eP	33 21.63	-0.2			i	33 56.60	
GRR	76.40	40 eP	32 50.40	-1.5	EGUA	82.06	50 eP	33 22.80	0.1	MOY	88.36	340 ePd	33 54.40	0.6
	1.4s	61.45nm	5.5mb	LPL	82.19	38 eP	33 23.60	0.1		1.6s	95.00nm		5.9mb	
LPF	76.52	40 eP	32 51.50	-1.1		1.1s	13.45nm	5.0mb	ZAK	88.85	338 iPd-	33 56.80	0.6	
	1.6s	84.60nm	5.6mb	LPG	82.22	38 eP	33 23.70	0.0		1.6s	69.00nm		5.7mb	
KAF	77.00	19 iP	32 54.20	-0.8		1.5s	28.75nm	5.2mb	ELT	90.08	349 iPc	34 01.80	-0.1	
	0.9s	23.40nm	5.3mb	ETER	82.33	43 eP	33 22.91	-1.1		1.5s	73.00nm		5.7mb	
NUR	77.88	20 iP	32 59.50	-0.3	FUR	82.51	34 eP	33 25.90	1.0		e	44 58.00		
	0.9s	36.30nm	5.5mb	MDJ	82.54	321 eP	33 23.50	-1.5	SKO	91.86	33 iP	34 10.00	-0.4	
Z	17s	1.00um	5.2MsZx	PRU	82.60	31 Pc	33 25.60	0.3		Z	17s	0.68um	5.2MsZx	
		LR	07 40.00		Z	17s	0.60um	5.0MsZx			LR	17 05.00		
MFF	77.90	41 eP	32 59.30	-0.9	N	16s	0.10um		OHR	92.27	34 eP	34 10.70	-1.6	
	1.2s	27.95nm	5.2mb	E	16s	0.40um			GUA	92.47	288 eP	34 07.20	-6.4X	
RTLL	78.19	143 iPd	33 03.70	1.7	KSP	82.68	30 eP	33 24.00	-1.7	BJI	92.57	325 eP	34 14.50	0.9
EPLA	78.53	49 iPd	33 02.50	-1.4	KHC	82.83	33 eP	33 26.50	0.0		1.5s	63.00nm	5.8mb	
PEL	78.63	146 ePd	33 04.50	0.1		1.5s	26.80nm	5.2mb	Z	24s	0.38um		4.8MsZx	
LSF	79.01	40 eP	33 05.30	-1.1		Z	18s	1.00um	5.2MsZ		eSKS	44 50.00		
WLF	79.05	36 P	33 04.00	-2.5		N	16s	0.50um			eS	45 20.00		
ECRI	79.09	45 eP	33 05.58	-1.4		E	16s	0.50um		VAY	92.88	32 iP	34 14.40	-0.7
BOD	79.12	337 iPd	33 06.10	-0.6			e	33 30.50		HHC	93.98	328 P	34 21.00	0.7
	1.4s	124.00nm	5.7mb				e	33 39.00			1.2s	41.00nm	5.7mb	
BAO	79.20	118 eP	33 08.50	0.6			e	34 22.00		Z	24s	0.67um	5.0MsZx	
		i	33 12.60		ACU	82.93	47 eP	33 28.69	1.4	N	24s	1.20um		
OFUJ	79.23	310 P	33 07.70	0.0	GEC2	83.10	33 ePc	33 27.90	-0.1	E	23s	1.22um		
GUD	79.34	47 iPd	33 07.44	-1.0		1.2s	19.16nm	5.2mb		S	45 32.00			
TCF	79.34	40 eP	33 07.20	-1.0			e	33 32.20		8TO	94.84	329 eP	34 24.00	-0.3
	1.3s	25.25nm	5.1mb				e	33 39.50		TIY	96.17	326 eP	34 32.00	1.6
LFF	79.44	42 eP	33 07.90	-0.8	WTTA	83.33	35 iPd	33 29.50	0.2		Z	20s	0.75um	5.2MsZ
	1.4s	41.40nm	5.2mb	LRG	83.43	40 eP	33 29.80	0.1		N	17s	0.57um		
SSF	79.50	39 eP	33 08.10	-0.9		1.8s	104.00nm	5.7mb	KIV	97.56	18 eP	34 37.00	0.4	
	1.6s	48.50nm	5.3mb	FRF	83.51	40 eP	33 29.80	-0.3		Z	15s	0.40um	5.0MsZx	
LOR	79.55	39 eP	33 08.40	-0.9		1.5s	101.35nm	5.8mb			e	34 41.40		
	1.3s	29.25nm	5.1mb		1.4s	64.05nm	5.6mb		GTA	99.74	335 eP	34 46.50	-0.1	
Z	20s	0.55um	4.9MsZ	BHG	83.57	34 eP	33 30.90	0.6		1.2s	6.00nm	5.0mb		
MAF	79.57	40 eP	33 08.60	-0.8	LMR	83.59	40 eP	33 30.40	-0.1	Z	22s	0.70um	5.1MsZ	
	1.5s	31.85nm	5.1mb		1.3s	44.05nm	5.5mb		WB2	120.18	266 ePKP	39 52.50	-1.4	
EVAL	79.60	51 iPc	33 09.37	-0.4	VRAC	83.99	31 eP	33 33.00	0.7		0.8s	9.00nm		
AVF	79.60	39 eP	33 08.40	-1.2		1.9s	308.70nm	6.2mb	WRA	120.19	266 PKP	39 54.50	0.5	
	1.5s	39.15nm	5.2mb				e	33 36.60			1.1s	4.70nm		
RJF	79.62	41 eP	33 08.70	-1.0	CACB	84.10	122 ePd	33 34.20	0.7	SPA	125.43	180 iPKPd	40 02.40	-0.4
	1.2s	34.80nm	5.2mb				e	33 38.70			1.1s	1.19nm		
Z	21s	0.43um	4.8MsZ	CTI	84.23	36 P	33 33.70	-0.1	GBA	130.23	348 PKPc	40 13.20	-0.1	
LBF	79.80	39 eP	33 09.40	-1.3	KBA	84.25	34 iPc	33 34.10	0.1		1.1s	2.50nm		
	1.5s	40.75nm	5.2mb		1.1s	30.50nm	5.4mb		WIN	134.21	88 iPKPd	40 25.00	4.0X	
LPO	79.84	42 eP	33 10.20	-0.7	MNK	84.28	23 eP	33 30.00	-3.7X		1.5s	50.00nm		
	1.6s	72.75nm	5.4mb	Z	18s	1.63um	5.5MsZ		NVL	134.24	157 ePKP	40 18.00	-1.3	
PAB	79.90	48 eP	33 11.00	-0.4	FVI	84.36	35 P	33 34.20	0.0	CER	140.20	101 e(PKP)	40 30.00	-1.6
SMF	79.95	39 eP	33 10.20	-1.3	CDCB	84.56	119 e(P)	33 36.10	0.4	BUL	142.29	77 iPKPc	40 30.20	-5.7X
	1.2s	25.60nm	5.1mb	OJC	84.57	29 eP	33 35.30	0.0		1.1s	12.66nm			
PUL	80.03	18 (P)	33 12.00	0.4			e	33 39.00		KSR	143.67	86 iPKPc	40 35.00	-3.1X
Z	18s	1.00um	5.2MsZ	VAO	84.81	123 eP	33 42.30	5.4X		1.0s	122.00nm			
N	18s	0.80um		RBL	84.83	34 P	33 36.40	-0.4	8LF	144.38	92 ePKP	40 35.00	-4.2X	
		e	33 16.00	ZST	85.06	31 iP	33 38.10	0.3		0.9s	66.00nm			
CAF	80.16	41 eP	33 11.70	-0.9			i	33 42.00		PRY	144.59	87 iPKPd	40 38.00	-1.6
	1.5s	39.15nm	5.2mb	VOY	85.29	34 e(P)	33 37.00	-2.1		1.5s	220.00nm			
HAU	80.28	37 eP	33 12.50	-0.7	MOS	85.41	17 eP	33 39.00	-0.4	SLR	144.74	85 iPKPd	40 38.90	-1.0
	1.3s	36.10nm	5.2mb			Z	15s	1.20um	5.4MsZx		1.5s	360.00nm		
Z	20s	0.63um	5.0MsZ				e	33 44.00			Z	18s	4.06um	6.2MsZx
EHOR	80.40	50 iPd	33 13.14	-0.8	PGF	85.45	39 eP	33 39.60	-0.4	SEK	145.26	89 iPKPc	40 40.70	0.0
EPF	80.45	43 eP	33 13.40	-0.8	1.7s	88.25nm		5.7mb		1.2s	230.00nm			
	1.4s	24.40nm	5.0mb	SPC	85.57	29 eP	33 41.90	1.3	GRM	146.03	98 ePKP	40 42.00	0.2	
CDF	80.45	36 eP	33 13.40	-0.8	LJU	85.57	34 eP	33 40.00	-0.4		1.0s	160.00nm		
	1.3s	15.90nm	4.9mb	OBN	85.75	17 iPc	33 41.00	-0.1	BFT	146.15	84 iPKPd	40 43.00	0.6	
ETOR	80.48	46 eP	33 12.81	-1.7		1.4s	90.00nm	5.8mb		1.0s	52.00nm			
EGRA	80.61	44 iPc	33 15.61	0.6		Z	16s	1.20um	5.4MsZx	MAW	147.83	176 iPKPc	40 41.50	-1.9
BSF	80.62	37 eP	33 14.20	-0.9		N	16s	1.00um			1.2s	117.65nm		
	1.3s	37.20nm	5.2mb		E	16s	0.60um			S.D. = 1.0	on 266 of 313 obs.			
MOX	80.85	32 iP	33 16.50	0.3			i	33 45.00			?	APR 29, 1993 08h 34m 04.52± 1.38s		
	1.6s	43.00nm	5.2mb	PGD	85.86	37 P	33 42.40	0.3			39.088 N ± 8.6km 27.705 E ± 16.8km			
EPRU	80.93	51 eP	33 16.44	-0.4	SRO	85.87	31 iP	33 42.60	0.8			DEPTH = 10.0km (geophysicist)		
CLL	80.96	31 iPd	33 16.00	-0.7	SFI	85.89	37 P	33 43.00	1.0			TURKEY	(366)	
	1.3s	26.00nm	5.1mb	VBV	86.31	34 eP	33 43.50	-0.6			MD 2.8 (ISK).			
		i	33 20.60	IRK	86.88	339 eP-	33 46.00	-0.8						
EBAN	81.10	49 eP	33 17.87	0.2		1.6s	69.00nm	5.6mb						
EJIF	81.10	51 iPc	33 18.57	0.9		Z	15s	0.25um	4.7MsZx					
PPD	81.22	125 eP	33 19.70	1.2			e	33 51.00						
		e	33 24.10		SNY	87.60	322 Pd	33 50.00	-0.4					
GRF	81.37	33 eP	33 19.90	1.0		1.6s	85.00nm	5.8mb	EDC	1.26	6 ePn	34 28.50	0.5	
	1.7s	90.00nm	5.5mb			Z	20s	0.42um	4.8MsZ	BNT	1.28	7 ePn	34 27.70	-0.5
Z	20s	0.90um	5.1MsZ		SVE	87.73	4 ePd	33 51.00	0.3	EZN	1.30	305 ePn	34 28.50	0.0
		e	33 23.70			1.7s	140.00nm	6.0mb			S.D. = 0.7	on 4 of 4 obs.		
EVIA	81.59	48 eP	33 20.65	0.3										

29d 08h

* APR 29, 1993 08h 55m 15.71 ± 0.93s
32.107 S ± 8.6km 68.050 W ± 13.5km
DEPTH = 98.7 ± 14.8 km
MENDOZA PROVINCE, ARGENTINA (139)

RTCV	0.48	301	iPd	55	32.30	0.8
ZON	0.77	316	iPc	55	35.00	1.0
			eS	55	47.00	
MDZ	1.03	221	iP	55	37.10	0.4
			iS	55	51.00	
RTBS	1.27	290	iPc	55	38.00	-1.4
MRA	2.01	99	iPc	55	54.50	5.7X
			S	56	22.50	
RTPR	2.23	37	ePd	55	50.20	-1.6
			S	56	23.50	
RTRS	2.28	328	iPd	55	51.70	-0.7
RFA	2.68	187	eP	55	57.70	-0.2
			i	56	27.80	
CYA	4.14	29	ePd	56	18.70	0.8
			S	56	57.20	
CNCB	15.23	0	P	58	47.00	-0.1
LPB	15.51	360	(P)	58	56.00	5.5X
ZOBO	15.77	360	P	58	55.00	1.0
			i	00	27.80	

S.D. = 1.2 on 10 of 12 obs.

APR 29, 1993 08h 55m 25.23 ± 0.66s
43.195 N ± 5.1km 7.750 E ± 4.4km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 3.0 (LDG), 2.5 (GEN).

REVF	0.61	333	Pg	55	36.00	-1.6
SBF	0.71	341	Pg	55	39.30	0.1
			Sg	55	48.53	
IMI	0.72	8	P	55	40.17	0.7
			S	55	47.58	
AURF	0.76	336	Pg	55	40.25	0.2
SAOF	0.80	350	Pg	55	40.96	0.1
			Sg	55	50.74	
AUTN	0.83	344	Pg	55	41.59	0.1
			Sg	55	51.34	
CALN	0.84	312	Pg	55	41.20	-0.3
			Sg	55	51.80	
FRF	0.88	295	Pn	55	42.30	0.1
			Sn	55	52.20	
TOUF	0.90	336	Pg	55	42.57	0.0
			Sg	55	53.29	
LMR	0.92	279	Pn	55	42.80	0.1
			Sn	55	53.30	
LRG	1.05	285	Pn	55	45.20	0.2
			Sn	55	55.90	
ENR	1.06	347	P	55	45.62	0.4
			S	55	57.74	
FIN	1.07	18	P	55	45.39	0.1
			S	55	57.10	
STV	1.09	344	P	55	46.12	0.3
			S	55	58.66	
ROB	1.10	5	P	55	46.39	0.4
			S	55	58.66	
PGF	1.12	125	Pg	55	46.38	0.0
PZZ	1.39	341	P	55	51.02	0.2
			S	56	07.07	
PCP	1.46	23	P	55	51.15	-0.6
			S	56	07.58	
BHB	1.68	348	P	55	53.85	-1.0
			S	56	12.62	
RRL	1.86	338	P	55	59.16	1.5
RSP	1.99	350	P	55	58.33	-1.0
			S	56	19.48	
LSD	2.30	350	P	56	03.92	-0.1
LPG	2.41	343	Pn	56	01.90	-3.7X
			Sn	56	28.00	
LPL	2.43	343	Pn	56	01.20	-4.6X

S.D. = 0.7 on 22 of 24 obs.

* APR 29, 1993 09h 03m 32.40 ± 1.00s
37.864 N ± 10.2km 21.420 E ± 9.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.3 (ATH).

VLS	0.73	296	ePb	03	47.00	0.3
AGG	1.36	31	ePg	03	57.00	0.4
			eSg	04	20.30	
VLI	1.66	133	ePb	04	01.00	-0.7
ATH	1.82	86	ePn	04	05.00	1.0

IGT	1.87	333	ePb	04	05.90	1.2
KEK	2.24	326	ePg	04	17.00	6.9X
TPE	2.66	336	ePn	04	19.50	3.4X
OHR	3.28	352	ePn	04	10.30	-14.6X
TIR	3.68	341	ePn	04	31.50	1.0
PHP	3.89	349	ePn	04	32.80	-0.7
LACI	3.99	341	ePn	04	34.50	-0.4
SKO	4.10	0	ePn	04	35.00	-1.5
SDA	4.44	341	ePn	04	40.60	-0.6

S.D. = 1.0 on 10 of 13 obs.

? APR 29, 1993 09h 39m 38.51 ± 7.41s
40.445 N ± 23.0km 21.229 E ± 52.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.0 (THE).

FNA	0.36	18	ePg	39	45.24	-0.6
			eSg	39	50.24	
LIT	1.02	109	ePg	39	57.52	-0.4
GRG	1.03	60	ePg	39	57.76	-0.2
VAY	1.34	49	ePn	40	04.40	1.2

S.D. = 1.4 on 4 of 4 obs.

? APR 29, 1993 10h 37m 51.35 ± 3.63s
17.694 S ± 26.7km 178.879 W ± 27.4km
DEPTH = 588.8 ± 45.1 km
4.6mb (10 obs.)
FIJI ISLANDS REGION (181)

DZM	14.47	250	iPc	40	54.50	-0.1
ARMA	29.66	239	iPd	43	12.50	0.0
			0.6s	13.00nm	4.7mb	
RMQ	31.17	248	iPc	43	26.10	0.9
			0.6s	12.00nm	4.7mb	
CNB	33.20	232	iPc	43	42.20	0.0
			0.4s	18.00nm	5.1mb	
CAN	33.48	232	eP	43	43.40	-1.1
CMS	34.74	240	eP	43	54.50	-0.5
			0.7s	6.00nm	4.3mb	
TOO	36.96	230	iPd	44	13.30	0.1
			0.7s	44.00nm	5.2mb	
STK	38.35	241	iPd	44	25.10	0.6
			0.6s	6.30nm	4.3mb	
BFD	39.01	232	eP	44	30.30	0.5
WB2	44.22	259	eP	45	10.50	-0.7
			0.5s	9.30nm	4.6mb	
WRA	44.23	259	P	45	11.60	0.3
			0.5s	3.70nm	4.2mb	
ASPA	44.42	254	iPd	45	12.90	0.1
			0.7s	68.10nm	5.3mb	
MCMT	86.37	41	eP	49	34.00	0.8
YKA	94.32	25	eP	50	08.40	-0.8
			0.8s	0.50nm	3.8mb	
GEC2	147.29	345	ePKPc	56	31.30	3.9X
			0.6s	1.38nm		

S.D. = 0.7 on 14 of 15 obs.

? APR 29, 1993 10h 56m 36.36 ± 1.60s
63.280 N ± 10.4km 27.247 E ± 19.2km
DEPTH = 10.0km (geophysicist)
FINLAND (721)

FIA0	1.92	197	Pg	57	09.35	0.0
			Lg	57	33.72	
			Rg	57	42.32	
ARA0	6.32	354	Pn	58	11.84	0.0
			Sn	59	22.24	
			Lg	59	53.51	
HFS	7.17	250	eP	58	23.90	0.2
			0.5s	5.00nm	4.9mb	
NRA0	7.81	258	Pn	58	32.54	-0.2
			Sn	00	00.80	
			Lg	00	41.26	

S.D. = 0.3 on 4 of 4 obs.

* APR 29, 1993 11h 16m 14.90 ± 0.65s
44.401 N ± 5.3km 7.303 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV	0.16	174	P	16	18.75	0.1
			S	16	20.81	
PZZ	0.18	306	P	16	19.35	0.4
			S	16	21.91	
ENR	0.19	154	P	16	19.39	0.1

ROB	0.42	104	P	16	23.74	0.2
			S	16	30.06	
BHB	0.44	356	P	16	23.35	-0.5
			S	16	29.28	
IMI	0.65	139	P	16	27.18	-0.7
			S	16	35.92	
FIN	0.68	106	P	16	28.18	-0.2
			S	16	37.43	
PCP	0.90	81	P	16	32.85	0.7
			S	16	45.32	

S.D. = 0.6 on 8 of 8 obs.

* APR 29, 1993 11h 17m 29.44 ± 0.52s
44.403 N ± 4.7km 7.316 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV	0.16	178	P	17	33.29	0.1
			S	17	35.26	
PZZ	0.18	304	P	17	34.16	0.5
			S	17	37.28	
ENR	0.19	157	P	17	33.84	0.1
			S	17	36.31	
ROB	0.41	105	P	17	38.03	0.1
			S	17	44.14	
BHB	0.44	355	P	17	38.15	-0.3
			S	17	44.11	
IMI	0.64	140	P	17	41.72	-0.6
			S	17	50.18	
RRL	0.64	324	P	17	42.10	-0.4
FIN	0.67	107	P	17	42.77	0.0
			S	17	51.46	
PCP	0.89	81	P	17	46.98	0.4

S.D. = 0.4 on 9 of 9 obs.

* APR 29, 1993 12h 13m 39.33 ± 0.87s
42.453 N ± 8.8km 24.071 E ± 9.8km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.38	195	eP	14	04.12	-0.5
			eS	14	26.80	
KNT	1.56	215	eP	14	07.00	-0.1
			eS	14	29.96	
VAY	1.59	225	iPn	14	07.00	-0.6
SOH	1.72	198	eP	14	08.96	-0.5
SKO	2.01	257	ePn	14	15.00	1.3
			i	14	43.50	
ALN	2.15	136	eP	14	16.60	1.0
			eS	14	46.16	
MLR	3.33	23	eP	14	32.00	-0.5

S.D. = 1.0 on 7 of 7 obs.

* APR 29, 1993 12h 22m 47.47s
37.420 N 119.056 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.4 (GM). ML 3.7 (BRK), 3.3 (GS).

MMPM	0.19	7	iPc	22	51.68	-0.2

COE	2.09	266	ePn	23	24.72	1.7
			S	23	49.32	
PRS	2.15	240	iPd	23	25.04	1.2
			iS	23	53.09	
TPNV	2.29	101	ePn	23	26.23	0.2
HMR	2.29	289	ePn	23	25.69	-0.2
GCC	2.38	261	iPc	23	29.03	1.9
BKS	2.56	281	ePd	23	30.58	0.8
ZSP	2.59	283	iPd	23	31.27	1.1
PCC	2.65	273	iPc	23	30.68	-0.3
JEGM	2.71	273	ePn	23	32.61	0.7
GSC	2.79	139	ePn	23	32.94	-0.1
ORV	2.87	319	iPd	23	36.66	2.6
			iS	24	11.28	
NTYM	3.01	290	ePn	23	37.65	1.6
			S	24	17.04	
SSK	3.39	161	ePn	23	43.31	1.7
			S	24	32.95	
LMEM	3.68	329	eP	23	48.24	2.5
PEC	3.84	156	eP	23	48.52	0.5
PLM	4.44	156	ePn	23	57.38	0.9
ARUT	4.47	84	ePn	23	56.79	-0.2
LBFM	4.49	332	(Pn)	23	58.10	0.8
			ePg	24	10.78	
LGPM	4.56	321	(P)	24	00.72	2.6
MSU	5.55	77	(Pn)	24	14.25	1.9
			ePg	24	30.44	
DUG	5.61	58	(Pn)	24	14.99	1.9
			ePg	24	32.08	

37 obs. associated

% APR 29, 1993 12h 33m 06.33±1.01s
39.130 N ± 7.1km 27.656 E ± 11.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.79	203	iPg	33	21.70	-0.1
			iSg	33	34.20	
EDC	1.23	7	ePn	33	29.00	-0.1
KCT	1.24	26	iPn	33	30.10	0.7
BNT	1.24	9	ePn	33	28.60	-0.8
EZN	1.24	304	ePn	33	29.60	0.2
KGT	1.35	348	iPn	33	31.20	0.1

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

APR 29, 1993 12h 36m 09.77±0.81s
35.603 N ± 7.5km 112.079 W ± 8.8km
DEPTH = 10.0km (geophysicist)
WESTERN ARIZONA (42)
ML 2.7 (GS).

ARUT	2.44	334	eP	36	50.15	-0.3
			S	37	19.79	
MSU	2.91	359	eP	36	57.76	0.6
TUC	3.46	161	(Pn)	37	04.26	-0.5
			ePg	37	12.49	
			S	37	58.40	

PV10	3.69	40	eP	37	08.02	-0.2
SRU	3.71	19	eP	37	07.02	-1.6
			S	37	58.45	

PV09	3.73	38	eP	37	09.10	0.2
			S	38	00.97	

GSC	3.87	267	(P)	37	11.39	0.7
PV08	4.04	42	ePn	37	14.99	1.7
			S	38	08.31	

EMUT	4.32	13	(Pn)	37	17.63	0.4
			ePg	37	24.37	
			S	38	18.55	

DUG	4.62	353	ePn	37	20.50	-0.9
			ePg	37	31.52	

S.D. = 1.0 on 10 of 10 obs.

% APR 29, 1993 13h 39m 06.48±0.92s
39.287 N ± 7.8km 27.601 E ± 20.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM	0.93	197	iPg	39	24.20	0.0
			iSg	39	39.20	
EDC	1.08	11	ePn	39	27.00	0.3
BNT	1.10	13	ePn	39	26.70	-0.4
KCT	1.12	31	iPn	39	27.60	0.1
KGT	1.19	349	iPn	39	28.60	0.0

S.D. = 0.3 on 5 of 5 obs.

% APR 29, 1993 14h 36m 44.11±0.51s
40.243 N ± 5.1km 29.714 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

YLV	0.41	321	iPg	36	52.90	0.3
			eSg	36	58.10	
GPA	0.46	84	iPg	36	53.60	0.2
			eSg	37	00.60	
EYL	0.47	46	iPg	36	53.60	-0.1
			eSg	37	01.60	
HRT	0.58	357	iPg	36	55.60	-0.3
			eSg	37	05.60	
KCT	1.04	271	iPn	37	03.60	-0.1
CTT	1.33	313	ePn	37	08.60	0.0
BNT	1.38	275	ePn	37	09.60	0.3
EDC	1.42	275	ePn	37	10.00	0.1
KGT	1.85	277	ePn	37	16.00	-0.2
KHL	1.92	184	ePn	37	17.20	-0.1

S.D. = 0.2 on 10 of 10 obs.

% APR 29, 1993 15h 01m 35.96±1.81s
42.987 N ± 7.2km 13.056 E ± 16.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.30	286	Pc	01	41.80	-0.5
			eSg	01	45.60	
ARV	0.52	351	Pc	01	46.10	-0.4
			eSg	01	53.90	
MNS	0.66	205	P	01	49.20	0.0
			eSg	01	59.90	
CRE	1.03	309	P	01	55.60	0.1
			eSn	02	08.80	
SFI	1.28	317	P	02	00.40	0.7

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

? APR 29, 1993 15h 24m 22.07±1.08s
39.558 N ± 8.8km 29.898 E ± 27.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ALT	0.53	162	iPg	24	32.80	0.0
			iSg	24	40.40	
EYL	1.03	11	ePn	24	41.60	0.1
YLV	1.08	338	ePn	24	42.60	0.1
HRT	1.27	352	ePn	24	45.60	-0.1

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

APR 29, 1993 15h 26m 36.47±0.68s
35.587 N ± 6.2km 112.140 W ± 7.8km
DEPTH = 10.0km (geophysicist)
WESTERN ARIZONA (42)
ML 3.3 (GS).

ARUT	2.43	335	eP	27	17.93	0.9
			S	27	47.09	
MSU	2.92	359	eP	27	24.35	0.3
TUC	3.46	161	eP	27	32.31	0.8
			eS	28	23.86	

PV10	3.73	41	eP	27	34.82	-0.8
			eS	28	25.20	

SRU	3.75	20	eP	27	34.97	-0.8
			eS	28	26.46	

PV09	3.77	39	ePn	27	36.47	0.2
			ePg	27	43.99	
			eS	28	27.84	

PV08	4.09	42	eP	28	40.86	0.2
			ePg	27	49.74	
			eS	28	37.85	

PLM	4.49	242	eP	27	45.56	-0.7
DUG	4.63	354	ePn	27	46.96	-1.3
			ePg	27	58.70	

ALQ	4.69	96	ePn	27	48.83	-0.4
			ePg	28	04.44	
			eS	28	59.45	

DAU	4.87	8	(Pn)	27	53.32	1.5
			ePg	28	01.49	

S.D. = 1.0 on 11 of 11 obs.

APR 29, 1993 16h 11m 48.16±0.81s
26.365 S ± 6.4km 27.474 E ± 9.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE). mbLg 2.8 (BUL).

PRY	0.56	180	eP	11	58.40	-1.0
			S	12	04.50	
KSR	0.72	314	eP	12	03.00	0.4
			S	12	13.00	
SLR	0.96	49	iPd	12	07.80	0.8
			S	12	20.00	
SEK	1.96	176	iPc	12	23.50	1.0
			S	12	46.50	
SWZ	2.09	247	eP	12	24.50	0.1
			S	12	49.20	
BFT	2.41	74	eP	12	31.50	2.4X
			S	12	54.50	
BLF	2.96	202	eP	12	42.00	5.1X
			S	13	10.00	
BUL	6.28	10	iPn	13	22.50	-1.4
			iSn	14	31.00	
			iSg	15	03.90	

S.D. = 1.3 on 6 of 8 obs.

% APR 29, 1993 16h 55m 14.97±0.64s
39.455 N ± 5.2km 28.128 E ± 6.3km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

KCT	0.81	12	iPg	55	30.50	-0.7
			iSg	55	42.00	
BNT	0.91	350	iPg	55	32.60	-0.3
			eSg	55	46.00	
EDC	0.91	347	iPg	55	33.00	0.1
			eSg	55	46.00	
KGT	1.18	328	iPn	55	37.50	0.1
IZM	1.25	213	iPn	55	38.80	0.1
YLV	1.47	40	iPn	55	42.00	-0.1
ALT	1.59	104	ePn	55	43.40	-0.5
CTT	1.71	8	ePn	55	46.00	0.5
HRT	1.80	40	iPn	55	47.00	0.0
EYL	1.91	54	ePn	55	49.60	1.0

S.D. = 0.5 on 10 of 10 obs.

% APR 29, 1993 18h 01m 20.81±0.91s
40.671 N ± 6.1km 23.423 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.9 (THE).

SOH	0.16	341	iPg	01	24.85	0.3
THE	0.35	264	iPg	01	28.14	0.1
			eSg	01	32.86	
SRS	0.46	16	iPg	01	30.21	0.0
			eSg	01	36.58	
KNT	0.63	321	ePg	01	33.10	-0.4
			eSg	01	41.46	
PAIG	0.77	165	ePg	01	35.78	0.0
			eSg	01	46.58	

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

% APR 29, 1993 18h 58m 04.48±0.81s
45.470 N ± 7.8km 27.705 E ± 6.6km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

CFR	0.43	132	iPc	58	13.00	-0.2
PPE	0.75	355	ePc	58	19.50	0.4
VRI	0.79	301	eP	58	19.50	-0.4
ISR	0.88	248	ePd	58	22.00	0.5
CVO	1.13	289	eP	58	25.50	-0.2
MLR	1.24	272	ePd	58	27.50	-0.1

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

* APR 29, 1993 19h 34m 49.71±0.73s
80.368 N ± 16.8km 0.921 W ± 15.1km
DEPTH = 10.0km (geophysicist)
3.8mb (5 obs.)
NORTH OF SVALBARD (641)

KBS	2.74	116	iPc	35	34.00	-0.4
			eS	36	03.50	
DAG	5.04	234	eP	36	00.00	-7.0X
ARA0	12.64	134	Pn	37	51.09	-0.9
			Sn	40	06.86	
SDF	14.75	136	iP	38	27.00	7.2X
KAF	19.89	141	eP	39	22.00	-1.5
	0.6s	3.20nm			3.8mb	
NRA0	20.06	162	P	39	25.96	0.6
MBC	20.30	323	eP	39	29.50	1.8
FIA0	20.52	142	P	39	31.14	1.1

29d 19h

HFS 20.78 159 eP 39 32.70 -0.1
0.5s 1.40nm 3.6mb
NUR 21.29 144 eP 39 39.00 1.0
1.0s 8.90nm 4.1mb
FRB 24.30 268 eP 40 07.00 -0.6
0.9s 4.00nm 4.0mb
GEC2 32.04 162 P 41 18.82 0.7
YKA 32.69 308 eP 41 21.70 -1.8
0.9s 0.70nm 3.6mb
LCCM 48.49 299 eP 43 34.20 0.1
S.D. = 1.2 on 12 of 14 obs.

* APR 29, 1993 20h 04m 07.21 ± 1.49s
40.095 N ± 6.5km 20.264 E ± 16.3km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.6 (THE).

IGT 0.56 175 ePg 04 18.14 -0.5
eSg 04 28.50
FNA 1.09 51 ePg 04 26.74 -1.0
eSg 04 42.46
OHR 1.09 22 ePg 04 28.00 0.2
iSg 04 45.80
LIT 1.71 89 ePb 04 37.18 0.0
eSb 05 02.18
GRG 1.84 61 ePb 04 39.18 0.0
eSb 05 03.94
AGG 1.92 123 iPn 04 41.22 0.9
iSn 05 07.18
SKO 2.08 25 ePn 04 43.00 0.5
e 05 13.50
VAY 2.14 54 ePn 04 45.00 1.6X
S.D. = 0.8 on 7 of 8 obs.

? APR 29, 1993 20h 55m 47.04 ± 2.61s
1.095 N ± 22.5km 99.869 E ± 22.7km
DEPTH = 174.9 ± 25.2 km
4.2mb (4 obs.)
NORTHERN SUMATERA, INDONESIA (706)

KLM 2.67 42 iP 56 44.00 12.1X
iS 57 32.00
KGM 3.57 75 eP 56 43.80 0.7
eS 57 55.50
IPM 3.65 18 ePc 56 44.00 -0.1
eS 57 55.40
SNG 6.09 7 ePn 57 15.00 -1.0
ePg 57 30.80
eSn 58 25.00
eSg 58 52.00
CHG 17.63 357 eP 59 44.00 0.5
GBA 25.44 300 P 01 01.00 0.5
WRA 39.74 124 P 03 04.90 0.6
0.5s 2.80nm 4.2mb
WB2 39.75 124 iPc 03 04.70 0.3
0.5s 5.80nm 4.5mb
ASPA 41.22 129 eP 03 15.70 -0.8
0.4s 3.70nm 4.3mb
STK 51.33 134 eP 04 34.80 -0.8
2.0s 2.50nm 3.5mb
e 04 48.90
S.D. = 0.9 on 9 of 10 obs.

APR 29, 1993 21h 08m 13.66 ± 0.52s
35.617 N ± 5.4km 112.142 W ± 5.5km
DEPTH = 10.0km (geophysicist)
WESTERN ARIZONA (42)
ML 3.6 (GS).

ARUT 2.41 335 eP 08 55.02 1.2
S 09 24.91
MSU 2.89 359 ePnd 09 00.51 -0.3
iPg 09 03.07
S 09 39.83
GLA 3.39 222 ePn 09 07.97 0.3
ePg 09 16.93
S 10 01.30
TUC 3.49 161 ePn 09 09.81 0.7
ePg 09 18.31
S 10 04.40
TPNV 3.57 293 (Pn) 09 10.45 0.0
S 10 01.43
PV10 3.71 41 eP 09 12.33 -0.2
S 10 02.12
SRU 3.72 20 ePn 09 11.79 -0.8
S 10 05.41

PV09 3.75 39 eP 09 13.66 0.6
GSC 3.82 267 eP 09 12.92 -1.0
S 10 12.34
PV08 4.07 42 eP 09 18.13 0.6
S 10 14.23
EMUT 4.32 14 ePn 09 19.79 -1.3
S 10 22.26
PLM 4.50 241 eP 09 22.72 -0.9
DUG 4.60 354 (Pn) 09 30.41 5.4X
S 10 34.77
ALO 4.70 97 ePn 09 28.67 2.2X
ePg 09 38.96
S 10 36.11
TNP 4.76 303 ePn 09 28.34 1.0
S 10 38.53
DAU 4.84 8 ePn 09 27.99 -0.6
BONR 5.47 297 (P) 09 39.22 1.8X
KVN 5.85 308 (Pn) 09 40.25 -2.5X
ePg 10 00.67
HVU 6.17 356 (Pn) 09 48.44 1.2
GOL 6.74 51 (Pn) 09 54.88 -0.5
Lg 11 41.68
BW06 7.43 15 (P) 10 01.81 -3.1X
S 12 01.92
S.D. = 0.9 on 16 of 21 obs.

* APR 29, 1993 21h 32m 28.39 ± 0.72s
52.581 S ± 11.5km 139.602 E ± 24.4km
DEPTH = 10.0km (geophysicist)
4.6mb (6 obs.)
WEST OF MACQUARIE ISLAND (701)

BFD 15.54 9 eP 36 09.80 0.8
1.6s 62.00nm 4.6mb
eTT 50 49.20
TOO 15.57 18 eP 36 08.50 -0.9
0.9s 44.00nm 4.7mb
ADE 17.62 358 e(P) 36 39.00 3.6X
CAN 18.51 25 iPd 36 47.70 1.3
BWA 19.22 23 iPd 36 54.30 -0.7
STK 20.74 5 eP 37 11.00 -0.4
1.3s 4.30nm 3.6mb
RMO 26.95 18 eP 38 11.00 -0.7
ASPA 29.20 349 eP 38 32.10 0.1
0.9s 8.50nm 4.5mb
WB2 32.83 351 eP 39 03.70 -0.4
0.8s 9.50nm 4.8mb
WRA 32.83 351 P 39 04.20 0.1
0.9s 4.00nm 4.3mb
NVL 51.42 200 eP 41 34.00 -0.9
Z 17s 1.00um 4.9mszx
N 17s 0.50um
LEM 52.59 319 ePc 41 49.50 5.0X
CHG 79.37 321 eP 44 36.00 0.2
YKA 141.15 45 ePKP 52 00.20 0.8
0.7s 0.30nm
KAF 144.36 312 iPKP 52 03.40 -1.5
1.1s 21.00nm
NUR 144.67 309 ePKP 52 05.00 -0.5
1.0s 12.10nm
KSP 145.60 290 ePKP 52 13.50 6.1X
GEC2 146.21 286 ePKPc 52 09.30 0.6
0.9s 3.04nm
e 52 13.90
e 52 20.30
e 52 26.30
e 52 31.70
PRU 146.24 288 ePKP 52 12.00 3.5X
e 52 25.00
KHC 146.42 286 ePKP 52 11.00 2.1
e 52 20.00
e 52 25.50
SBF 147.49 274 ePKP 52 26.10 15.3X
0.8s 10.50nm
CLL 147.68 290 e(PKP) 52 23.00 12.3X
GRF 148.05 286 ePKP 52 19.00 7.6X
APO 149.83 307 ePKP 52 17.70 3.9X
0.4s 0.70nm
BSF 149.86 280 ePKP 52 28.70 14.3X
0.8s 4.05nm
HAU 150.21 280 ePKP 52 28.30 13.5X
0.6s 4.50nm
LBF 151.17 277 ePKP 52 32.40 16.1X
0.8s 4.45nm
NB2 151.22 308 PKP 52 21.20 5.2X
0.9s 2.60nm
EPF 151.37 267 ePKP 52 32.90 16.1X

0.7s 3.75nm
SSF 151.49 277 ePKP 52 34.00 17.2X
0.9s 3.60nm
S.D. = 1.0 on 16 of 30 obs.

% APR 29, 1993 21h 37m 27.75 ± 0.69s
43.233 N ± 4.9km 12.870 E ± 8.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.22 223 Pd 37 32.50 -0.1
eSg 37 36.30
ARV 0.27 11 Pd 37 32.80 -0.7
eSg 37 37.30
RSM 0.76 337 P 37 42.40 -0.1
CRE 0.78 301 P 37 42.50 -0.5
eSg 37 54.40
MNS 0.86 189 Pc 37 43.30 -1.0
eSg 37 57.10
AQU 0.96 156 P 37 45.60 -0.5
eSg 38 01.40
SFI 1.01 313 P 37 47.80 1.0
eSg 38 02.90
PGD 1.05 308 P 37 48.00 0.3
eSg 38 03.00
SDI 1.68 155 P 37 59.00 1.7
S.D. = 1.0 on 9 of 9 obs.

APR 29, 1993 22h 12m 48.10 ± 0.20s
42.452 N ± 2.2km 20.968 E ± 2.0km
DEPTH = 12.2 ± 1.6 km
4.0mb (2 obs.)
NORTHWESTERN BALKAN REGION (383)
ML 3.8 (TTG), 3.6 (THE), 3.5
(TIR). Felt (IV) at Skopje,
Yugoslavia.

SKO 0.59 144 iPg 12 58.90 -1.0
iSg 13 06.10
i 13 07.00
Lg 13 08.00
PVY 0.75 281 iPg 13 02.19 -0.5
iSg 13 13.10
PHP 0.86 207 iPg 13 03.00 -1.5
iSg 13 13.60
IVA 0.89 298 iPg 13 04.82 -0.3
iSg 13 17.85
SDA 1.16 250 iPg 13 10.50 0.9
iSg 13 27.50
LACI 1.24 229 ePn 13 11.00 0.0
iSn 13 29.00
TTG 1.26 270 iPg 13 11.72 0.4
iSg 13 30.19
ULC 1.37 250 iPg 13 13.64 0.7
iSg 13 33.62
TIR 1.38 217 iPnd 13 14.50 1.5
iSn 13 32.70
PLE 1.45 308 iPg 13 15.10 0.9
iSg 13 36.34
NKY 1.50 285 iPg 13 16.04 1.2
iSg 13 37.85
BDV 1.60 265 iPnd 13 17.75 1.6
iSn 13 41.00
VTS 1.66 84 iPd 13 18.00 0.7
KKB 1.68 110 iPc 13 18.00 0.6
FNA 1.69 169 iPb 13 18.48 0.8
eSb 13 41.56
HCY 1.83 271 iPnc 13 21.45 1.9
iSn 13 47.00
KBN 1.83 184 iPnd 13 19.80 0.1
iSn 13 43.80
GRG 1.84 144 ePb 13 20.36 0.6
iSb 13 43.44
BRY 1.84 285 iPnd 13 21.67 1.8
iSn 13 47.40
KNT 1.93 131 iPb 13 21.52 0.4
eSb 13 45.20
KZN 2.23 164 ePb 13 26.00 0.6
MMB 2.23 112 iP 13 26.00 0.6
VLO 2.27 210 ePn 13 32.00 6.1X
iSn 14 04.50
TPE 2.27 199 ePn 13 31.00 5.0X
LSK 2.32 187 ePn 13 30.40 3.7X
iSn 14 02.30
THE 2.36 140 ePn 13 27.72 0.6
PCB 2.37 87 eP 13 28.00 0.6
SRS 2.37 123 ePn 13 27.60 0.2

SOH	2.42	132	eSn	13	56.40		0.3s	11.60nm	5.6mb X	EKA	144.48	353	PKP	11	16.00	-0.2				
SSR	2.48	13	iPn	13	28.56	0.5					1.0s	5.90nm								
LIT	2.61	153	ePd	13	31.00	2.2				SOP	144.84	328	ePKP	11	17.30	0.2				
			ePn	13	31.00	0.2				VAY	144.86	314	ePKP	11	17.00	-0.3				
			eSn	14	02.90					MOX	144.91	335	iPKPc	11	17.80	0.7				
PLD	2.79	96	iP	13	26.00	-7.4X	WATA	8.26	309	i(P)	14	50.20	-0.5							
KEK	2.88	198	ePn	13	35.50	1.0					14	54.20								
RZN	2.89	104	iP	13	36.00	1.1	SQTA	8.41	308	iPd	14	52.90	0.1	KHC	145.24	332	iPKPc	11	19.00	1.2
IGT	2.96	190	iPn	13	37.25	1.6					14	55.80			1.0s	21.00nm				
LCI	3.10	228	P	13	36.20	-1.5	KHC	8.44	325	eP	14	52.00	-1.0							
BZS	3.20	8	ePc	13	32.00	-7.1X		0.8s	5.20nm	4.9mb X		15	02.30	SKO	145.30	316	iPKP	11	19.00	0.9
GZR	3.22	23	ePd	13	40.50	1.1						15	23.60							
BRT	3.23	242	P	13	40.40	0.8						16	24.00	GEC2	145.40	331	PKPd	11	19.60	1.5
PAIG	3.25	140	ePn	13	39.52	-0.3						17	47.00		1.2s	33.16nm				
TIM	3.29	3	eP	12	50.00	-50.4X	MOTA	8.54	308	i(P)	14	54.80	0.3							
HVAR	3.40	284	ePn	13	42.50	0.5	BOB	8.67	289	P	14	55.40	-0.9							
			iSn	14	24.20		PRU	8.75	332	eP	15	02.00	4.7X	GRF	145.81	334	ePKP	11	21.00	2.3X
DIM	3.41	95	iPg	13	52.00	9.9X						15	12.50							
AGG	3.58	163	ePn	13	44.72	0.2						16	28.50	OHR	146.14	315	iPKP	11	38.50	18.9X
RDO	3.66	109	ePn	13	48.50	2.9X	PGF	8.84	275	eP	14	58.50	-0.2	DMU	146.25	356	ePKP	11	21.00	1.8
DEV	3.70	21	ePc	13	59.50	13.2X		0.6s	3.80nm	4.9mb X		15	09.00	ENN	146.82	341	e(PKP)	11	23.00	2.8X
MTUR	4.06	45	eP	13	56.00	4.7X	GRF	9.91	320	eP	15	09.00	-4.2X		1.0s	8.00nm				
CMP	4.07	45	ePd	14	10.00	18.5X	CLL	10.40	331	eP	15	19.00	-0.9	VBY	146.96	326	iPKPc	11	23.90	3.3X
ALN	4.11	111	ePn	13	52.04	0.1						17	09.00	FUR	146.97	333	ePKP	11	23.90	3.3X
JMB	4.15	88	iP	13	54.00	1.3	MOX	10.42	325	e(P)	15	19.60	-0.6							
ORI	4.16	236	P	13	52.60	-0.1	FRF	10.55	281	eP	15	21.10	-1.0	LJU	146.98	327	e(PKP)	11	24.00	3.3X
ROI	4.40	231	P	13	55.30	-0.9		0.6s	4.50nm	5.0mb X		15	22.90	CEY	147.24	327	e(PKP)	11	24.20	3.1X
CSI	4.43	234	P	13	54.70	-1.9	LMR	10.65	280	eP	15	22.90	-0.5	VOY	147.31	328	ePKP	11	24.20	2.9X
TDS	4.48	233	P	13	56.90	-0.3		0.6s	2.00nm	4.7mb X		15	25.90	WLF	147.70	339	iPKPc	11	26.16	4.5X
UZD	4.48	338	iPnd	13	56.80	-0.4	LPG	10.69	291	eP	15	25.90	1.6		1.3s	28.40nm				
MMN	4.55	237	P	14	01.80	3.6X	LPL	10.71	291	eP	15	26.00	1.6	DOU	147.82	341	PKPc	11	26.10	4.3X
SGO	4.65	248	P	13	59.60	-0.1		0.4s	3.95nm	5.1mb X		15	26.00		1.0s	36.10nm				
MGR	4.69	242	P	14	00.40	0.1	LRG	10.76	280	eP	15	23.60	-1.3	CDF	148.38	337	iPKPc	11	27.20	4.3X
MLR	4.70	48	ePd	14	05.50	4.9X		0.8s	10.75nm	5.3mb X		15	38.00	SLE	148.44	335	ePKPd	11	27.60	4.6X
EZN	4.82	121	eP	14	09.00	6.9X	HAU	11.70	303	eP	15	38.00	0.2	OSS	148.60	332	ePKPd	11	28.70	5.2X
ISR	4.85	54	eP	14	28.50	25.9X		0.4s	1.95nm	4.8mb X		15	38.00	ZLA	148.71	335	ePKPd	11	28.20	4.7X
CZI	4.89	230	P	14	02.80	-0.2		0.8s	0.10um	5.5msz		17	16.60	LLS	148.95	333	ePKPd	11	29.20	5.1X
DUI	4.91	263	P	14	04.23	0.7	NB2	19.53	346	P	17	16.60	-1.5	BSF	149.04	337	iPKPc	11	28.80	4.8X
ZAG	4.92	315	eP	14	03.00	-0.5		0.5s	0.60nm	3.1mb X		17	27.80		1.1s	12.70nm				
PTJ	4.99	315	iPc	14	04.30	-0.2	EKA	20.31	318	Pd	17	27.80	1.5	HAU	149.05	338	iPKPc	11	28.90	5.0X
GRI	5.02	225	P	14	03.64	-1.3		1.1s	8.70nm	4.0mb		23	57.00	TMA	149.61	333	ePKPd	11	30.60	5.6X
CVO	5.04	46	eP	14	12.00	6.8X	YKA	69.50	340	eP	23	57.00	-0.9	MMK	150.04	334	ePKPd	11	32.40	6.6X
VBY	5.13	308	ePnc	14	06.60	0.1		0.7s	0.80nm	4.0mb				DIX	150.24	334	ePKPd	11	32.90	6.8X
KGT	5.16	111	eP	14	06.00	-1.0		S.D. = 0.9 on 95 of 118 obs.												
BUD	5.22	345	iPn	14	06.50	-1.2		* APR 29, 1993 23h 51m 43.49±0.55s												
RFI	5.34	260	P	14	10.82	1.4		20.216 S ±18.8km 169.348 E ±16.0km												
VRI	5.37	49	eP	14	13.00	3.1X		DEPTH = 45.4km (3 depth phases)												
SDI	5.38	264	P	14	10.20	0.1		4.6mb (6 obs.)												
RIY	5.57	304	ePn	14	13.60	0.9		VANUATU ISLANDS (186)												
AQU	5.60	272	P	14	13.70	0.4	DZM	3.28	235	iPd	52	32.00	-1.8	EMS	150.44	335	ePKPd	11	33.00	6.7X
SRO	5.68	342	iP	14	14.30	0.1								LDF	150.45	346	iPKPc	11	31.70	5.7X
			i	15	28.90										1.4s	23.10nm				
CTT	5.73	101	eP	14	42.00	27.0X	RMQ	19.90	248	eP	56	16.00	1.9	LOR	150.54	340	iPKPc	11	32.40	6.2X
CEY	5.74	307	ePn	14	15.50	0.3		1.0s	49.00nm	4.8mb				LBF	150.75	339	iPKPc	11	32.90	6.3X
			eSn	15	42.50		BWA	23.30	228	iPd	56	48.00	-0.3		0.9s	4.60nm				
SOI	5.77	222	P	14	13.70	-1.7								GRR	150.80	347	iPKPc	11	32.90	6.4X
LJU	5.85	310	ePn	14	17.00	0.3	CAN	23.40	226	eP	56	58.50	40km	SSF	150.84	340	iPKPc	11	33.20	6.6X
			e(Sn)	15	46.00										1.1s	14.15nm				
CFR	5.87	60	eP	14	39.00	22.1X	CMS	23.90	237	eP	56	55.00	0.9	LPL	150.98	334	ePKP	11	33.90	6.7X
ARV	5.98	283	P	14	18.40	-0.1	STK	27.43	239	eP	57	27.50	0.4		1.2s	11.60nm				
SOP	6.09	331	ePn	14	18.50	-1.5		0.5s	2.00nm	4.0mb				LPG	150.98	334	ePKP	11	34.10	6.8X
TRI	6.13	305	ePn	14	23.40	2.9X	WB2	32.83	264	eP	58	14.20	-1.0		0.8s	4.85nm				
			e	15	19.30			0.6s	3.90nm	4.4mb				SMF	151.09	339	iPKPc	11	33.60	6.6X
			eSn	15	33.10		WRA	32.84	264	P	58	14.90	-0.3		1.0s	6.80nm				
			eSgSg	16	12.70			0.5s	0.90nm	3.9mb				AVF	151.13	340	iPKPc	11	33.50	6.5X
MNS	6.14	272	P	14	21.00	0.3	ASPA	33.01	257	iPc	58	16.10	-0.6	LPF	151.18	347	iPKPc	11	33.90	6.8X
ASS	6.15	279	P	14	21.50	0.6		0.7s	15.80nm	5.0mb					1.0s	16.80nm				
VOY	6.21	308	ePn	14	21.80	-0.1								BGF	151.50	340	ePKP	11	34.50	6.9X
			e(Sn)	15	38.40										0.8s	3.75nm				
ZST	6.36	336	iP	14	23.50															

30d 00h

MNS 0.15 233 Pc 12 27.90 0.0
 eSg 12 29.40
 AQU 0.43 106 P 12 32.70 -0.4
 eSg 12 38.90
 ASS 0.61 347 P 12 36.50 -0.1
 eSg 12 45.60
 RDP 0.72 188 P 12 38.40 -0.2
 eSg 12 49.10
 ARV 1.02 4 P 12 43.80 0.2
 eSg 12 59.90
 SDI 1.06 137 P 12 44.70 0.5
 S.D. = 0.4 on 6 of 6 obs.

APR 30, 1993 00h 22m 29.31±0.35s
 31.046 N ± 8.3km 41.446 W ± 5.8km
 DEPTH = 10.0km (geophysicist)
 4.5mb (10 obs.)

NORTHERN MID-ATLANTIC RIDGE (403)

LPF 35.01 49 eP 29 23.70 -0.1
 1.3s 15.15nm 4.7mb
 MFF 35.29 52 eP 29 26.30 0.1
 1.1s 13.65nm 4.7mb
 FLN 35.55 48 eP 29 28.20 -0.2
 1.2s 11.60nm 4.6mb
 Z 24s 0.10um 3.5mszx
 LDF 35.74 49 eP 29 29.80 -0.2
 1.3s 16.25nm 4.7mb
 LSF 36.36 53 eP 29 35.30 -0.1
 1.1s 11.00nm 4.6mb
 TCF 36.84 53 eP 29 39.30 0.0
 1.2s 17.25nm 4.7mb
 SMF 38.00 53 eP 29 49.30 0.2
 1.1s 12.20nm 4.6mb
 HAU 39.87 51 eP 30 04.40 -0.4
 1.0s 8.20nm 4.4mb
 Z 19s 5000.00um 8.4mszx
 BSF 40.15 51 eP 30 06.70 -0.4
 1.1s 6.60nm 4.2mb
 CDF 40.54 50 eP 30 10.10 -0.2
 1.0s 6.00nm 4.3mb
 GRF 43.26 49 eP 30 33.40 0.9
 Z 16s 0.10um 3.8mszx
 MOX 43.61 48 eP 30 35.90 0.7
 1.4s 15.00nm 4.6mb
 CLL 44.54 47 eP 30 43.00 0.2
 e 30 53.00
 KHC 44.76 50 eP 30 45.00 0.4
 1.0s 3.50nm 4.2mb
 e 30 55.50
 GEC2 44.82 50 P 30 45.30 0.0
 0.7s 0.89nm 3.8mb
 e 30 46.90
 e 30 51.20
 e 30 55.50
 PRU 45.42 49 eP 30 49.00 -0.9
 SRO 47.90 52 eP 31 09.40 0.0
 ZOBO 53.58 212 P 31 53.00 -0.5
 LPB 53.80 212 P 31 55.00 0.1
 CNCB 53.99 212 P 31 57.00 0.5
 BW06 54.35 303 eP 31 58.10 -0.4
 1.2s 7.97nm 4.6mb
 YKA 55.25 327 eP 32 03.20 -1.4
 1.2s 1.60nm 3.9mb
 SRU 55.88 299 eP 32 09.98 0.3
 MBC 57.23 344 eP 32 19.00 0.4
 MSU 57.28 298 eP 32 20.61 0.9
 NEW 58.42 311 eP 32 26.39 -0.9
 1.0s 6.00nm 4.6mb
 INK 62.30 335 eP 32 55.00 1.5
 1.0s 1.00nm 4.0mb
 S.D. = 0.6 on 27 of 27 obs.

APR 30, 1993 00h 45m 48.43±0.78s
 22.745 S ± 5.4km 70.982 W ± 13.5km
 DEPTH = 33.0km (normal)
 3.6mb (1 obs.)

NEAR COAST OF NORTHERN CHILE (122)

ANT 1.09 151 iP+ 46 08.00 0.6
 iS 46 21.20
 HJA 5.16 96 eP 47 05.30 -0.1
 ARE 6.27 356 eP 47 21.00 -0.3
 eS 48 33.00
 CNCB 6.54 26 P 47 26.00 0.6
 LPB 6.75 24 P 47 35.00 6.8X
 ZOBO 6.98 23 P 47 38.80 -0.8

RTLL 8.84 166 iPc 47 56.60 -0.3
 S 48 07.20
 RTC8 8.92 168 iPd 47 57.70 -0.4
 S 48 09.50
 SIV 11.51 56 P 48 40.50 6.9X
 YKA 91.73 341 eP 58 54.00 0.6
 0.4s 0.10nm 3.6mb
 S.D. = 0.7 on 8 of 10 obs.

* APR 30, 1993 01h 13m 20.13±0.77s
 36.012 N ± 11.7km 65.141 E ± 8.1km
 DEPTH = 33.0km (normal)
 4.2mb (10 obs.)

HINDU KUSH REGION, AFGHANISTAN (718)

MAIO 4.58 275 ePn 14 29.00 0.0
 0.8s 14.64nm
 eSn 15 37.00
 ASH 5.77 292 ePn 14 45.70 0.0
 eS 15 58.70
 VAN 5.96 291 iPnd 14 46.80 -1.6
 iS 16 26.50
 QUE 6.00 165 e(P) 14 49.00 -0.2
 eS 16 23.40
 FRU 10.00 44 eP 15 41.00 -3.6X
 PRZ 12.13 54 (P) 16 11.50 -2.2
 GRO 16.65 302 eP 17 13.00 0.5
 1.5s 80.00nm 4.6mb
 eS 20 21.00
 KIV 18.91 302 eP 17 38.40 -2.2
 1.3s 14.00nm 4.0mb
 ARU 20.87 350 eP 18 06.00 4.5X
 SVE 21.03 353 ePc 18 07.00 3.9X
 ELT 22.73 34 eP 18 20.30 0.2
 1.1s 23.00nm 4.6mb
 eS 22 33.00
 GEC2 39.35 305 P 20 49.80 1.8
 1.4s 1.79nm 3.7mb
 HFS 40.56 323 eP 20 58.40 0.7
 0.6s 3.60nm 4.3mb
 NB2 41.95 324 P 21 10.00 0.8
 0.9s 4.30nm 4.2mb
 TIK 48.01 22 eP 21 58.00 0.5
 0.8s 9.00nm 4.9mb
 EKA 49.33 316 Pd 22 07.00 -0.8
 0.7s 3.60nm 4.5mb
 MBC 67.98 1 eP 24 19.00 1.6
 1.0s 1.00nm 3.9mb
 INK 75.06 7 eP 25 03.00 3.2X
 YKA 81.84 360 eP 25 37.50 0.7
 1.3s 1.70nm 3.9mb
 S.D. = 1.3 on 15 of 19 obs.

* APR 30, 1993 01h 51m 39.19±1.35s
 9.276 S ± 8.9km 113.246 E ± 9.5km
 DEPTH = 42.6 ± 11.7 km
 5.0mb (12 obs.)

SOUTH OF JAWA, INDONESIA (282)

KHKI 2.50 69 iPd 52 19.60 1.3
 6.08 293 eP 53 10.00 0.9
 1.5s 250.00nm 5.5mb
 MBL 13.41 153 iPd 54 40.60 -8.7X
 0.3s 20.00nm 5.5mb
 eS 56 58.50
 MEEK 18.00 164 eP 55 46.00 -2.0
 eS 58 50.00
 WARB 21.08 145 eP 56 28.00 5.7X
 WB2 22.98 120 iPc 56 40.40 -0.9
 0.7s 19.30nm 4.7mb
 i 57 01.90
 ASPA 24.38 128 iPd 56 54.50 -0.4
 0.6s 23.60nm 4.9mb
 e 57 07.90
 STK 34.59 135 iPd 58 25.80 -0.4
 0.6s 14.30nm 5.1mb
 TOO 40.48 139 iPc 59 17.10 1.5
 0.8s 17.00nm 4.9mb
 CD2 40.98 348 P 59 19.60 -0.1
 GBA 42.19 302 Pd 59 29.10 -0.7
 0.6s 4.00nm 4.3mb
 XAN 43.27 355 eP 59 37.50 -0.9
 LZH 45.98 349 Pd 00 01.00 0.7
 1.5s 40.00nm 5.1mb
 TIY 46.75 359 eP 00 02.20 -4.0X
 BJI 49.14 3 eP 00 23.00 -1.7
 1.0s 11.00nm 4.8mb

BTO 49.71 357 eP 00 28.00 -1.2
 GTA 50.02 346 eP 00 31.00 -0.7
 1.5s 11.00nm 4.7mb
 pP 00 42.00 38kmX
 MDJ 55.64 14 eP 01 11.20 -2.0
 0.8s 17.00nm 5.1mb
 KSH 59.55 327 P 01 41.00 0.0
 BUL 81.86 251 eP 03 56.70 0.5
 OBN 90.00 326 eP 04 36.00 0.7
 e 04 42.00

KAF 96.69 332 iP 05 06.10 0.2
 0.5s 4.00nm 5.2mb
 YKA 116.70 23 ePKP 10 19.20 -0.9
 0.3s 0.10nm

YKA 116.70 23 ePKP 10 19.20 -0.9

KIC 118.56 272 Pdif 06 28.20 -16.5X
 BGMT 127.16 39 ePKP 10 42.50 1.4
 EMUT 130.43 45 ePKP 10 48.75 1.2
 e 11 01.52
 PV10 132.30 46 ePKP 10 52.95 1.8
 PV08 132.48 45 (PKP) 10 53.90 2.3
 RSSD 132.59 36 ePKP 10 52.13 0.7
 FVM 144.34 33 ePKP 11 11.05 -1.7
 UYO 144.50 42 iPKPc 11 12.20 -1.0
 EMM 144.66 1 ePKP 11 12.00 -1.0
 MIAR 144.84 40 iPKPd 11 13.40 -0.3
 PPD 145.40 206 ePKP 11 15.40 0.4
 ELC 145.50 33 ePKP 11 14.75 0.0
 OLY 145.51 37 iPKPc 11 14.75 -0.1
 BAO 149.05 217 ePKP 11 26.00 4.8X
 GBTN 149.28 29 ePKP 11 21.92 1.0
 iPKPbc 11 25.68
 TKL 149.49 28 ePKP 11 26.24 5.0X
 CNCB 154.05 177 PKP 11 39.00 10.0X
 LPB 154.32 177 (PKP) 11 34.00 4.8X
 ZOBO 154.58 177 PKP 11 41.00 11.3X
 S.D. = 1.2 on 34 of 43 obs.

APR 30, 1993 02h 10m 59.00±0.59s
 40.940 N ± 9.6km 25.630 E ± 4.5km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

ML 3.1 (THE).

ALN 0.32 98 iPg 11 04.84 -0.8
 eSg 11 08.56
 EZN 1.23 154 iPn 11 22.10 0.2
 SRS 1.55 277 ePb 11 26.48 -0.2
 eSb 11 49.56
 SOH 1.73 267 ePb 11 30.00 0.7
 EDC 1.80 108 ePn 11 31.00 0.7
 PAIG 1.80 236 ePb 11 29.72 -0.6
 DMK 1.83 60 ePn 11 30.80 0.1
 KNT 2.08 277 ePn 11 34.24 -0.1
 eSn 12 01.30
 S.D. = 0.6 on 8 of 8 obs.

APR 30, 1993 02h 37m 02.29±0.37s
 44.525 N ± 4.1km 9.785 E ± 3.5km
 DEPTH = 19.6 ± 3.9 km

NORTHERN ITALY (545)

ML 2.5 (LDG).

BORS 0.28 174 Pc 37 07.72 -1.0
 S 37 11.52
 BOB 0.34 315 Pc 37 07.70 -2.0
 eSg 37 12.60
 BDI 0.74 128 P 37 16.10 -0.4
 eSg 37 29.30
 PCP 0.89 272 P 37 18.83 -0.1
 S 37 30.22
 PII 0.96 146 P 37 19.90 -0.2
 eSg 37 35.40
 CKI 1.08 265 P 37 22.70 0.5
 FIN 1.17 255 P 37 23.09 -0.6
 S 37 38.92
 MDI 1.25 358 P 37 25.70 1.0
 eSn 37 43.70
 ROB 1.39 261 P 37 28.03 1.3
 IMI 1.50 246 P 37 27.71 -0.5
 S 37 44.98
 VAI 1.52 332 P 37 29.70 1.2
 PGD 1.54 114 P 37 30.00 1.1
 ENR 1.72 261 P 37 31.46 -0.1
 STV 1.79 262 P 37 32.47 0.0
 S 37 53.70

CRE	1.80	119	P	37	34.10	1.4
			eSn	37	57.00	
SBF	1.82	249	Pn	37	33.80	0.9
			Sn	37	55.80	
BHB	1.83	281	P	37	32.83	-0.2
RSP	1.90	290	P	37	33.63	-0.6
			S	37	56.63	
PZZ	1.92	270	P	37	35.26	0.8
CTI	2.01	40	P	37	34.30	-1.5
PGF	2.06	196	Pn	37	36.00	-0.4
LSD	2.09	297	P	37	37.64	0.6
LPG	2.36	295	Pn	37	41.50	0.6
LPL	2.38	296	Pn	37	42.10	0.9
FRF	2.46	248	Pn	37	41.90	-0.2
LMR	2.65	244	Pn	37	43.80	-1.0
			Sn	38	13.90	
HAU	4.22	327	Pn	38	06.80	-0.3
			Sn	38	55.30	
CDF	4.26	337	Pn	38	06.70	-1.0
			Sn	38	54.30	
BGF	5.28	295	Pn	38	21.90	-0.2

S.D. = 0.9 on 29 of 29 obs.

* APR 30, 1993 03h 16m 36.58±0.82s
 24.172 S ± 9.2km 67.033 W ± 9.3km
 DEPTH = 206.2 ± 9.6 km
 CHILE-ARGENTINA BORDER REGION (127)

SLA	1.51	112	eP	17	11.20	-0.2
			S	17	36.90	
HJA	1.77	58	iPd	17	13.50	-0.1
FSA	2.12	154	iP	17	17.20	0.2
YJA	2.44	36	ePd	17	20.50	-0.6
ANT	3.13	278	iP+	17	28.50	0.0
			eS	18	05.50	
CNCB	7.38	353	P	18	24.00	0.8
			S	19	45.00	
LPB	7.67	352	P	18	27.00	0.1
ZOBO	7.93	352	P	18	30.00	-0.5
			S	19	57.00	
SIV	9.88	36	P	19	06.40	11.3X
PPD	14.62	85	eP	19	56.90	1.7
VAO	18.43	90	(P)	20	38.00	-1.1
BAO	19.80	68	eP	20	52.80	-0.4

S.D. = 0.9 on 11 of 12 obs.

* APR 30, 1993 04h 02m 10.14±3.50s
 51.446 N ± 25.0km 16.082 E ± 19.2km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.2 (GRF), 3.2 (VIE).

KSP	0.62	167	iP	02	21.50	-1.1
	0.6s		67.00nm			
			iS	02	30.50	
PRU	1.76	214	ePn	02	40.70	-0.1
			Pg	02	42.40	
			eSn	02	59.80	
			Sg	03	06.40	
CLL	1.93	267	ePn	02	43.00	-0.4
			ePg	02	47.00	
			eSg	03	12.00	
VRAC	2.16	171	ePn	02	47.90	1.2
	0.3s		13.90nm			
			eSg	03	18.10	
OJC	2.66	116	eP	02	58.00	4.2X
			iS	03	33.90	
KHC	2.82	216	Pn	02	56.50	0.4
	0.5s		8.00nm			
			Pg	03	02.40	
			eSn	03	30.00	
			eSg	03	39.50	
MOX	2.93	256	ePg	03	06.60	9.0X
			iSg	03	45.80	
GEC2	3.02	211	Pn	02	59.00	0.0
			Pg	03	08.20	
			Sn	03	33.50	
			Sg	03	45.00	
WET	3.09	223	iPnc	03	00.10	0.3
VKA	3.19	177	iPg	03	09.90	8.6X
			iSg	03	53.30	
ZST	3.32	168	eP	03	17.00	13.8X
			e	03	43.10	
			e	04	01.10	
SPC	3.50	129	eP	03	18.50	12.7X
GRF	3.56	242	ePn	03	06.70	0.1
			ePg	03	19.40	

			e(Sn)	03	54.50	
			eSg	04	04.80	
KBA	4.72	203	iPnc	03	22.90	-0.4
			i	03	31.70	
			iSg	04	34.50	

S.D. = 0.7 on 9 of 14 obs.

% APR 30, 1993 05h 21m 45.85±0.79s
 38.357 N ± 8.4km 1.025 W ± 7.1km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.8 (MDD).

ACU	0.51	72	ePg	21	56.00	-0.1
			eSg	22	03.20	
EALH	0.59	212	eP	21	57.80	0.1
			eS	22	06.20	
EVIA	1.19	284	ePg	22	07.90	-0.3
			eSg	22	22.00	
ECHE	1.23	2	ePn	22	09.00	0.2
			eSn	22	25.50	
EHUE	1.35	247	ePn	22	10.90	0.1
			eSn	22	29.50	

S.D. = 0.3 on 5 of 5 obs.

* APR 30, 1993 05h 45m 44.34±1.88s
 38.545 N ± 17.5km 20.400 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.1 (THE).

IGT	0.99	357	ePb	46	03.98	0.9
			eSb	46	20.58	
AGG	1.58	72	iPb	46	12.85	0.3
			eSb	46	37.02	
LIT	2.25	46	ePn	46	22.78	0.7
			eSn	46	55.66	
FNA	2.36	18	ePn	46	23.54	-0.2
			eSn	46	55.94	
OHR	2.58	7	ePn	46	25.70	-1.2
PAIG	2.90	61	iPn	46	30.82	-0.5
SGO	4.42	299	P	46	53.00	0.1
			eSg	46	57.70	

S.D. = 0.9 on 7 of 7 obs.

APR 30, 1993 05h 50m 10.83±0.54s
 39.039 N ± 4.4km 21.378 E ± 3.5km
 DEPTH = 81.5 ± 12.7 km
 GREECE (364)
 MD 3.4 (ATH).

AGG	0.74	91	ePg	50	26.80	-0.5
			eSg	50	37.88	
IGT	0.95	302	ePg	50	29.12	-0.5
			eSg	50	43.00	
VLS	1.06	216	ePb	50	31.70	0.7
LIT	1.36	39	ePb	50	34.88	0.0
			eSb	50	52.48	
KEK	1.40	299	ePb	50	35.70	0.5
FNA	1.74	360	iPb	50	40.30	0.4
			eSb	51	01.32	
PAIG	1.99	63	iPb	50	42.41	-0.8
			eSb	51	05.12	
GRG	2.07	22	ePn	50	43.80	-0.5
OHR	2.12	348	iPn	50	45.50	0.5
			i	50	51.00	
			i	51	12.00	
			i	51	16.00	
			Lg	51	25.60	
SOH	2.34	40	ePn	50	48.56	0.5
KNT	2.42	28	iPn	50	49.33	0.3
			iSn	51	17.04	
VAY	2.46	21	iPn	50	50.00	0.5
VLI	2.63	151	ePn	50	52.00	0.1
SKO	2.93	1	ePn	50	55.90	-0.2
			i	51	10.60	
BRT	3.70	301	P	51	06.10	-0.7
ROI	3.77	280	P	51	07.10	-0.7
CSI	4.01	282	P	51	10.90	-0.3
CZI	4.08	274	P	51	12.60	0.5
			eSn	51	52.20	
SOI	4.28	259	P	51	05.30	-9.6X
MGR	4.63	286	Pc	51	19.70	-0.1
SGO	4.91	290	P	51	23.70	0.0
MEU	5.44	251	P	52	26.10	54.9X
			eSg	52	28.50	
SDI	6.36	297	P	51	44.10	0.2

S.D. = 0.5 on 21 of 23 obs.
 * APR 30, 1993 07h 11m 53.41±0.67s
 33.696 S ± 8.4km 178.665 W ± 13.2km
 DEPTH = 10.0km (geophysicist)
 5.1mb (9 obs.) 4.7Msz (1 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

RAO	4.48	8	eP	13	01.00	-1.8
			eS	13	48.00	
HBZ	4.61	212	eP	13	05.90	1.2
PUZ	5.03	209	eP	13	09.00	-1.7
NOZ	5.59	208	eP	13	18.10	-0.5
URZ	5.70	216	eP	13	18.30	-1.8
			eS	14	22.20	
WLZ	6.25	227	eP	13	28.10	0.2
MOZ	7.14	226	eP	13	40.90	0.5
SVA	15.73	350	eP	15	33.00	-3.6X
DZM	17.51	308	iPc	16	03.40	4.1X
BRS	25.34	277	iPc	17	27.20	5.2X
ARMA	25.35	269	eP	17	25.80	3.6X
	1.0s		12.00nm			4.5mb
CAN	26.64	257	eP	17	35.20	1.2
BWA	27.22	259	eP	17	37.90	-1.4
RMO	29.01	276	iPd	17	57.00	1.5
	0.9s		22.00nm			4.9mb
BFD	31.65	252	eP	18	19.30	0.4
CTA	33.92	285	iPd	18	39.50	0.7
	1.3s		24.04nm			5.0mb
ADE	35.03	256	eP	18	48.90	0.6
ASPA	42.48	271	iPc	19	49.10	-1.4
	0.7s		24.30nm			5.0mb
Z	18s		0.90um			4.7Msz
			eS	26	04.00	
WB2	43.75	276	iPd	19	59.60	-1.3
	0.6s		28.50nm			5.3mb
WRA	43.76	276	P	20	02.00	1.1
	1.1s		4.60nm			4.2mb
CSY	51.98	209	eP	21	03.10	-1.4
	0.1s		10.40nm			5.7mb
SPA	56.48	180	iPd	21	39.40	1.6
	1.3s		25.83nm			5.1mb
NVL	75.56	184	eP	23	43.00	3.6X
			e	24	05.00	
YSS	87.53	335	eP	24	41.70	-0.6
	0.6s		10.00nm			5.3mb
MBC	115.74	13	ePKP	30	35.00	-1.5
SVE	134.05	319	ePKPc	31	13.00	1.0
KRV	143.79	294	ePKP	31	36.00	5.7X
PYA	146.23	300	iPKPd	31	34.00	-0.4
KIV	146.50	300	ePKP	31	34.00	-0.9
	1.5s		29.00nm			
			e	31	40.90	
			e	38	35.10	
MOS	146.66	322	iPKP	31	35.00	0.4
	2.0s		180.00nm			
			i	31	40.00	
KAF	147.43	338	iPKP	31	36.70	1.1
	0.5s		5.80nm			
OBN	147.47	322	iPKPd	31	37.50	1.6
	1.1s		43.00nm			
SOC	148.68	300	ePKP	31	40.00	1.8
	1.0s		45.00nm			
NUR	149.17	338	iPKP	31	41.80	3.4X
	0.7s		25.20nm			
ANN	150.23	303	ePKP	31	45.00	4.5X
DSI	151.32	275	ePKP	31	48.50	5.9X
JVI	151.43	276	ePKP	31	48.90	6.0X
MMR	151.59	278	ePKP	31	49.60	6.4X
UPP	151.71	343	iPKP	31	47.10	4.8X
NB2	151.90	350	PKP	31	48.00	5.4X
	0.9s		9.20nm			
LIC	152.04	166	PKP	31	51.00	6.8X
KIC	152.22	167	PKP	31	51.20	6.7X
HFS	152.33	347	ePKP	31	47.90	4.7X
	0.7s		7.50nm			
TIC	152.45	166	PKP	31	51.80	7.0X
MNK	152.58	325	ePKP	31	49.00	5.3X
S.D. = 1.3 on 27 of 45 obs.						

30d 07h

EZN	1.23	103	eSg	44	21.88	
			iPg	44	12.70	-1.3
			eSg	44	27.70	
ALN	1.25	51	ePb	44	13.32	-1.1
			eSb	44	31.52	
SOH	1.29	304	iPb	44	15.28	0.0
SRS	1.35	319	ePb	44	15.72	-0.3
			eSb	44	35.96	
THE	1.48	291	ePb	44	18.50	0.7
LIT	1.75	270	ePb	44	21.44	-0.4
KNT	1.77	307	ePb	44	22.12	0.0
			eSb	44	49.36	
GRG	1.99	296	ePn	44	26.04	0.6
VAY	2.07	307	iPn	44	31.30	4.9X
AGG	2.18	241	ePn	44	27.04	-1.0
EDC	2.38	83	ePn	44	31.00	0.1
BNT	2.42	83	iPn	44	32.20	0.7
KCT	2.75	86	ePn	44	37.10	0.9
CTT	2.97	68	ePn	44	40.10	0.8
SKO	3.13	307	ePn	44	38.50	-3.0X
			i	44	55.40	
OHR	3.19	290	ePn	44	53.50	11.1X
YLV	3.55	81	ePn	44	48.00	0.5
MLR	5.45	9	ePd	45	14.00	-0.5
VRI	5.93	13	ePd	45	21.00	-0.2
BZS	5.97	338	eP	45	18.00	-3.7X

S.D. = 0.8 on 17 of 21 obs.

? APR 30, 1993 07h 53m 45.25 ± 1.32s
 19.225 N ± 12.4km 121.016 E ± 21.0km
 DEPTH = 10.0km (geophysicist)
 PHILIPPINE ISLANDS REGION (248)

PIP	0.97	203	iPd	54	03.50	-0.2
			iS	54	17.50	
BBP	1.50	36	ePd	54	12.20	0.0
CVP	1.69	153	ePc	54	15.00	0.0
			eS	54	37.00	
SZP	1.75	198	iPd	54	16.00	0.2
			eS	54	35.00	

S.D. = 0.3 on 4 of 4 obs.

? APR 30, 1993 08h 03m 42.56 ± 3.45s
 31.231 S ± 15.8km 68.898 W ± 20.0km
 DEPTH = 118.7 ± 39.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.37	149	iPd	04	00.00	0.1
			eS	04	12.00	
RTBS	0.64	228	iPd	04	01.40	-0.1
			S	04	13.90	
RTRS	1.16	335	iPc	04	06.50	0.1
RTPR	2.25	66	ePd	04	19.50	-0.1
			S	04	47.20	
MRA	2.96	114	iPc	04	29.00	0.1

S.D. = 0.2 on 5 of 5 obs.

% APR 30, 1993 08h 04m 47.65 ± 1.05s
 39.089 N ± 7.7km 27.678 E ± 12.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM	0.76	205	iPg	05	02.60	0.0
			iSg	05	15.10	
EDC	1.26	6	ePn	05	11.50	0.4
KCT	1.27	24	ePn	05	11.10	-0.2
BNT	1.28	8	ePn	05	11.20	-0.2
EZN	1.28	306	ePn	05	11.30	-0.1

S.D. = 0.3 on 5 of 5 obs.

% APR 30, 1993 08h 33m 45.15 ± 0.82s
 47.272 N ± 12.9km 11.275 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 AUSTRIA (546)
 ML 1.6 (VIE).

SOTA	0.07	221	iPg	33	47.40	-0.2
			iSg	33	49.20	
MOTA	0.14	302	iPg	33	48.70	0.1
			iSg	33	51.60	
WATA	0.21	73	iPg	33	49.50	-0.4
			iSg	33	53.10	
WTTA	0.25	92	iPg	33	50.30	-0.2
			iSg	33	54.20	
KBA	1.42	97	iPnc	34	11.90	0.7
			iPg	34	16.10	

iSn 34 31.10
 iSg 34 38.30
 S.D. = 0.6 on 5 of 5 obs.

* APR 30, 1993 08h 35m 07.91 ± 0.60s
 7.234 N ± 14.8km 37.007 W ± 11.5km
 DEPTH = 10.0km (geophysicist)
 4.5mb (16 obs.) 4.6Msz (3 obs.)
 CENTRAL MID-ATLANTIC RIDGE (406)

MBO	20.93	68	iP	39	55.50	2.2
BAO	25.19	206	iPc	40	42.00	6.5X
			i	40	51.30	
SIV	33.17	226	P	42	03.00	16.0X
ZOBO	38.65	233	P	42	33.70	-0.6

1.1s 14.50nm 4.6mb
 S 48 44.00
 LR 53 48.00

LPB	38.78	232	P	42	35.00	-0.2
Z	20s	1.77um			4.9Msz	
		LR	07	48.00		

CNCB	38.85	232	P	42	36.00	0.1
EPF	48.44	36	eP	43	53.60	1.1

1.0s 11.80nm 4.9mb
 LPF 50.82 31 eP 44 10.70 0.1
 1.0s 11.00nm 4.7mb

FLN	51.58	30	eP	44	16.10	-0.3
Z	22s	0.43um			4.4Msz	

LDF	51.65	31	eP	44	16.60	-0.3
BGF	51.97	34	eP	44	19.50	0.2

0.9s 6.90nm 4.6mb
 LBF 52.85 34 eP 44 25.80 -0.2
 1.2s 8.05nm 4.5mb

LOR	52.94	34	eP	44	26.50	-0.2
Z	24s	0.50um			4.5MszX	

LPL	53.63	37	eP	44	31.50	-0.5
	0.7s	3.10nm			4.4mb	

HAU	54.75	34	eP	44	39.80	-0.1
Z	24s	0.32um			4.3MszX	

BSF	54.90	35	eP	44	41.00	-0.2
	0.9s	10.50nm			4.9mb	

DOU	55.00	31	P	44	40.10	-1.6
VOY	58.29	39	e(P)	45	05.30	0.0

VBY	58.94	40	e(P)	45	09.20	-0.5
PRU	60.41	36	eP	45	20.20	0.4

WIN	60.66	121	e(P)	45	29.00	6.8X
FRB	60.78	345	eP	45	21.00	-1.1

1.0s 3.00nm 4.4mb
 ZST 61.18 38 eP 45 24.80 -0.2
 SRO 61.78 39 iP 45 29.50 0.4

NB2	64.47	24	P	45	46.40	-0.4
	1.1s	7.10nm			4.8mb	

ULM	64.84	323	eP	45	47.50	-1.7
AP0	65.30	25	eP	45	50.60	-1.5

0.4s 0.70nm 4.2mb
 MLR 66.03 43 eP 45 54.00 -3.2X
 LTX 66.16 299 (P) 46 00.71 2.4X

CVO	66.27	43	eP	45	57.50	-1.1
			e	59	59.00	

FCC	67.18	332	eP	46	06.50	2.4
ALO	69.06	305	P	46	30.00	13.4X

Z 20s 0.34um 4.6Msz
 BLF 70.67 124 eP 46 22.70 -3.7X
 e 59 35.50

SLR	71.33	120	eP	46	38.50	8.0X
			e	59	25.50	

PV10	71.46	308	(P)	46	36.00	4.9X
BW06	72.32	313	eP	46	36.00	-0.2

1.4s 6.57nm 4.5mb
 DAU 73.36 310 eP 46 44.22 1.8
 MSU 73.93 308 eP 46 49.29 3.6X

YKA	77.89	332	eP	47	02.50	-4.8X
	0.8s	0.90nm			3.9mb	

MBC	81.20	346	eP	47	26.50	1.6
	1.0s	1.00nm			3.8mb	

INK	85.74	338	eP	47	49.00	0.8
	1.0s	1.00nm			4.0mb	

S.D. = 1.1 on 30 of 41 obs.

APR 30, 1993 08h 49m 09.16 ± 0.25s
 7.647 N ± 5.7km 37.128 W ± 3.7km
 DEPTH = 10.0km (geophysicist)
 5.0mb (53 obs.) 4.7Msz (24 obs.)
 CENTRAL MID-ATLANTIC RIDGE (406)
 Mw 5.4 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 21S, 39C

Centroid Location:

Origin Time 08:49:15.3 0.5

Lot 7.84N 0.07 Lon 37.20W 0.05

Dep 15.0 FIX Half-duration 1.1

Moment Tensor: Scale 10¹⁷ Nm

Mrrm=-0.09 0.05 Mtt=-0.02 0.07

Mffm=0.10 0.08 Mrt=-0.18 0.19

Mrfm=0.12 0.25 Mtf=-1.24 0.05

Principal Axes:

T Vol= 1.32 Plg= 8 Azm=226

N -0.12 81 63

P -1.20 3 317

Best Double Couple: Mo=1.3*10¹⁷

NP1: Strike= 2 Dip=82 Slip= 4

NP2: 271 86 172

MBO	20.89	70	iPc	53	58.30	4.1X
BAO	25.51	205	eP	54	39.20	-0.5

			i	54	42.00	
			i	55	04.50	
			i	55	19.00	

			e	00	26.10	
			e	00	48.00	

TIC	31.87	90	P	55	40.90	3.9X
LIC	31.89	90	P	55	36.10	-1.1

Z 21s 0.35um 4.0Msz
 KIC 32.17 90 P 55 45.50 5.9X
 SDV 33.17 275 eP 55 47.80 -0.8

SIV	33.37	225	iPc	56	04.60	14.6X
ZOBO	38.80	232	iPc	56	37.20	0.4

1.0s 88.25nm 5.4mb
 S 02 46.00
 LR 07 50.00

LPB	38.94	232	iPc	56	38.60	0.9
	1.2s	131.25nm			5.5mb	

CNCB	39.01	231	iPc	56	39.30	0.8
			e	10	22.00	

EVAL	40.57	38	eP	56	53.50	3.0X
YJA	40.64	223	ePc	56	52.60	0.8

EJIF	40.67	40	eP	56	53.00	1.6
EPRU	41.13	40	eP	56	57.00	1.8

ARE	41.59	235	eP	56	59.00	-0.5
ECOG	42.39	41	eP	57	07.00	1.4

EPLA	42.57	36	iPc	57	07.50	0.6
ENIJ	43.11	42	iPd	57	12.00	0.6

STS	43.16	31	iPd	57	12.80	1.1
PAB	43.26	38	eP	57	13.00	0.3

			eS	03	42.00	
ERUA	43.55	33	iPd	57	16.00	1.2

EVIA	43.86	40	eP	57	19.00	1.4
NNA	44.04	244	eP	57	17.80	-1.5

0.8s 8.21nm 4.6mb
 GUD 44.07 37 iPc 57 19.50 0.3
 LMN 44.92 333 eP 57 32.00 6.1X

ECHE	45.39	40	eP	57	31.00	1.2
HRV	46.09	325	P	57	50.00	14.8X

Z 20s 0.45um 4.4Msz
 PAL 46.59 321 eP 57 40.60 1.5
 CBM 47.27 331 P 58 00.00 15

30d 08h

	1.2s	21.40nm	5.0mb	SGO	56.91	46 P	58 56.80	0.0	TUC	72.15	301 eP	00 35.96	-0.5		
Z	25s	1.13um	4.8MszX	WTTA	57.19	38 iPc	58 57.80	-1.2		0.9s	4.08nm	4.5mb			
GAC	50.28	326 eP	58 10.00	2.3			58 58.20		Z	21s	0.26um	4.5Msz			
CAF	50.30	36 iPc	58 08.30	0.3	FVI	57.59	39 P	59 01.20	-0.3	SRU	72.34	309 eP	00 36.68	-0.9	
	1.2s	34.80nm	5.2mb	TRI	57.83	40 P	59 03.10	-0.1	SDF	72.99	21 iP	00 40.30	-0.3		
MDZ	50.35	215 i(P)	58 08.80	0.2	RBL	58.02	39 P	59 04.60	0.0	DAU	73.00	310 eP	00 41.13	-0.5	
LPF	50.53	31 iPc	58 09.90	0.3	VOY	58.05	40 ePc	59 04.30	-0.6	MSU	73.58	308 eP	00 44.36	-0.6	
	1.1s	46.90nm	5.3mb				59 17.20		ANN	73.61	46 eP	00 46.00	1.4		
LSF	50.78	34 eP	58 11.60	0.0			59 36.20		LCCM	73.93	315 eP	00 48.60	1.9		
GRR	50.86	31 iPc	58 11.90	-0.2	GRF	58.11	35 ePc	59 04.80	-0.3	KEV	74.07	19 eP	00 45.00	-1.8	
	1.0s	15.60nm	4.9mb				59 04.80		DUG	74.17	310 eP	00 45.46	-2.7X		
MYNC	50.94	309 eP	58 13.95	0.9	Z	1.5s	42.00nm	5.3mb			1.2s	15.52nm	4.9mb		
	1.0s	14.98nm	4.9mb			27s	0.50um	4.5MszX		Z	19s	0.41um	4.7Msz		
Z	21s	0.50um	4.5Msz				e	59 08.40		OBN	74.47	35 eP	00 52.00	2.7X	
ECB	51.03	23 eP	58 13.20	-0.1	BHG	58.15	38 eP	59 04.70	-0.8	MOS	75.14	34 eP	00 53.00	-0.2	
ECP	51.05	24 eP	58 13.40	-0.1	KBA	58.15	38 iPc	59 04.50	-1.2			e	01 03.00		
TCF	51.18	34 iPc	58 14.90	0.2			i	59 16.60		SOC	75.24	47 eP	00 54.00	-0.1	
	1.7s	43.40nm	5.1mb		MIAR	58.21	306 eP	59 04.55	-1.5		1.0s	45.00nm	5.5mb		
FLN	51.29	30 eP	58 15.20	-0.2			0.9s	5.22nm	4.6mb			e	00 58.00		
	1.2s	32.45nm	5.1mb				21s	0.52um	4.6Msz	GLA	75.57	302 (P)	00 54.35	-1.9	
Z	22s	0.77um	4.7MszX		CEY	58.27	40 e(P)	59 06.00	-0.3	GSC	77.21	304 (P)	01 06.32	0.8	
MAF	51.34	35 iPc	58 16.10	0.2	LJU	58.46	40 e(P)	59 07.50	-0.2	KIV	77.41	47 eP	01 06.60	0.2	
	1.6s	29.85nm	5.0mb		VBY	58.71	41 eP	59 09.10	-0.3		1.4s	41.00nm	5.3mb		
LDF	51.36	31 iPc	58 15.80	-0.2	MOX	58.80	34 ePc	59 09.50	-0.4	Z	19s	0.10um	4.2Msz		
	1.1s	25.15nm	5.1mb				1.9s	24.00nm	5.0mb			e	01 14.50		
ETA	51.51	24 eP	58 16.80	-0.1	UYO	58.83	305 iPc	59 09.30	-1.2	YKA	77.48	332 eP	01 04.50	-1.7	
BGF	51.70	34 iPc	58 18.70	0.2	GEC2	59.15	37 P	59 11.00	-1.5		0.8s	4.00nm	4.6mb		
	1.0s	31.80nm	5.2mb				0.7s	1.92nm	4.3mb	TNP	77.54	307 eP	01 07.03	-0.4	
DLF	51.84	23 eP	58 19.20	-0.3				e	59 14.60		0.9s	8.79nm	4.8mb		
HYF	52.00	34 iPc	58 21.00	0.2	KHC	59.20	36 eP	59 12.00	-0.8	PYA	77.68	47 iP	01 12.00	4.2X	
DMU	52.16	22 eP	58 21.30	-0.6		1.3s	9.70nm	4.8mb		KVN	78.23	308 eP	01 08.16	-3.0X	
SMF	52.31	35 eP	58 23.30	0.1			e	59 20.00		ISA	78.57	305 P	01 20.00	7.1X	
	1.5s	30.30nm	5.0mb		CLL	59.89	34 eP	59 17.00	-0.4	Z	21s	0.53um	4.8Msz		
SSF	52.36	34 iPc	58 23.40	-0.1	PRU	60.15	36 P	59 18.50	-0.8	GRO	79.58	47 eP	01 18.00	-0.1	
	1.4s	24.40nm	4.9mb				1.2s	2.70nm	4.3mb	CMB	80.04	307 P	01 30.00	9.2X	
LBF	52.58	35 iPc	58 25.10	-0.1				e	59 27.20		Z	21s	0.33um	4.6Msz	
	1.5s	38.15nm	5.1mb					PcP	59 57.70	KRV	80.12	50 iP	01 23.00	1.9	
LOR	52.67	34 iPc	58 25.50	-0.4	BRG	60.21	35 eP	59 18.00	-0.8		1.2s	20.00nm	5.0mb		
	1.0s	14.40nm	4.9mb		FRB	60.36	345 eP	59 19.00	-1.4	GRS	80.15	51 eP	01 22.00	0.5	
Z	24s	1.00um	4.8MszX				0.9s	9.00nm	4.9mb	MBC	80.77	346 ePd	01 25.00	1.1	
EEO	52.86	325 eP	58 31.00	3.7X	SOP	60.39	39 e(P)	59 11.00	-10.0X		1.0s	5.00nm	4.5mb		
SBF	52.98	39 iPc	58 28.40	0.1	ZST	60.93	38 eP	59 24.00	-0.6	SAO	80.93	306 P	01 30.00	4.5X	
	1.2s	43.15nm	5.3mb		OHR	61.03	47 eP	59 26.00	0.5	Z	21s	0.46um	4.8Msz		
BNI	53.11	38 P	58 30.40	1.1	UZD	61.26	41 e(P)	59 25.00	-1.9	LBFM	81.08	311 eP	01 26.63	0.2	
DOI	53.18	39 P	58 30.70	0.9	KSP	61.53	35 eP	59 28.70	0.0	WDC	81.60	310 P	01 40.00	11.1X	
PGF	53.37	42 iPc	58 30.60	-0.6	SRO	61.53	39 iP	59 26.00	-1.9	Z	20s	0.38um	4.8Msz		
	1.2s	14.90nm	4.8mb		OCO	61.54	306 iPd	59 38.50	9.5X	NVL	84.78	165 eP	01 46.00	1.5	
LPL	53.38	37 iPc	58 31.90	0.5	SKO	61.74	46 iP	59 30.00	-0.2	INK	85.31	338 eP	01 49.00	1.7	
	1.1s	9.50nm	4.7mb		MEQ	62.30	305 iPd	59 32.10	-2.0		1.0s	3.00nm	4.5mb		
LPG	53.38	37 iPc	58 31.90	0.4	VAY	62.38	47 iP	59 34.60	0.1	ARU	86.85	34 eP	01 57.00	1.9	
	1.4s	20.50nm	4.9mb		ACO	63.10	307 iPd	59 35.20	-4.2X	PMR	93.53	334 P	02 40.00	13.7X	
EMS	53.79	37 P	58 34.97	0.7	SPC	63.23	38 eP	59 41.30	1.1	Z	21s	0.45um	4.9Msz		
DIX	54.08	37 P	58 37.63	1.1	OJC	63.33	37 eP	59 41.20	0.5	LEM	145.02	91 iPKPd	08 44.50	-5.2X	
VITF	54.39	34 P	58 38.14	-0.4	NB2	64.14	24 P	59 45.10	-0.8	TOO	150.12	184 ePKP	09 10.20	13.2X	
MMK	54.40	37 P	58 40.00	1.1			1.0s	13.40nm	5.1mb		0.9s	19.00nm	5.8X		
LOMF	54.40	35 P	58 38.40	-0.3	UZH	64.32	39 eP	59 48.00	0.9	BFD	150.60	179 ePKP	09 03.50	5.8X	
HAU	54.48	35 eP	58 38.80	-0.4			1.0s	25.00nm	5.4mb	CNB	151.83	191 ePKP	09 10.00	10.3X	
	1.3s	40.05nm	5.3mb					e	00 25.00	CAN	151.89	191 e(PKP)	09 08.60	8.9X	
Z	26s	0.70um	4.6MszX		ULM	64.44	323 eP	59 49.00	1.1		S.D. = 0.9	on 159 of 191 obs.			
BSF	54.64	35 P	58 40.19	-0.3	HFS	64.67	25 eP	59 47.70	-1.5						
EKA	54.68	23 Pd	58 39.80	-0.7			0.7s	9.10nm	5.0mb						
	0.8s	6.00nm	4.7mb		Z	20s	0.30um	4.5Msz							
DOU	54.72	32 Pc	58 40.40	-0.5				LR	19 22.00						
	0.9s	30.00nm	5.3mb		MLR	65.81	43 ePd	59 57.00	0.0						
MOF	54.84	35 P	58 41.04	-0.9	LTX	65.86	299 eP	59 55.58	-2.0						
BBS	54.85	36 P	58 41.47	-0.5	UPP	66.25	27 iP	59 58.50	-0.8						
TMA	54.97	38 P	58 42.68	-0.4	VRI	66.44	43 eP	00 00.00	-0.9						
ECH	55.05	35 P	58 42.66	-0.7	FCC	66.77	332 eP	00 04.00	1.3						
CDF	55.22	35 P	58 44.19	-0.5	KIS	68.14	42 eP	00 10.00	-1.6						
WLS	55.27	35 P	58 44.19	-0.8			Z	16s	0.50um	4.8MszX					
FEL	55.36	35 P	58 44.96	-0.8				eS	09 30.00						
ZLA	55.37	36 P	58 46.45	0.7					00 30.00						
GRT	55.40	309 eP	58 47.42	1.3	RSSD	68.18	314 P	00 20.00	7.8X						
LLS	55.42	37 P	58 46.47	0.1			Z	21s	0.31um	4.5Msz					
JAO	55.53	333 eP	58 47.00	0.3	GLD	68.33	310 P	00 20.00	6.8X						
ELC	55.57	310 eP	58 48.27	1.0			Z	21s	1.57um	5.2Msz					
SLE	55.58	36 P	58 47.40	0.2	GOL	68.43	310 (P)	00 13.35	-0.6						
SFI	55.84	41 P	58 49.80	0.7			1.3s	11.78nm	4.9mb						
ASS	56.02	42 P	58 50.50	0.0			Z	19s	0.57um	4.8Msz					
OSS	56.02	38 P	58 50.40	-0.2	ALO	68.73	304 P	00 20.00	4.2X						
CTI	56.65	39 P	58 54.50	-0.6			Z	21s	0.64um	4.8Msz					
FVM	56.69	311 eP	58 55.74	0.4	MNK	69.07	35 eP	00 19.00	1.9						
	1.0s	20.27nm	5.1mb		NUR	69.71	28 eP	00 20.00	-0.2						
Z	20s	0.99um	4.9Msz		KAF	71.03	26 iP	00 28.00	-1.0						
SLM	56.76	312 P	59 10.00	14.2X			0.5s	2.70nm	4.6mb						
	1.9s	1.51um	5.1Msz		PV10	71.12	308 eP	00 30.27	-0.1						
OLY	56.78	308 eP	58 55.34	-0.7	BW06	71.95	312 eP	00 34.80	-0.5						
							1.3s	9.37nm	4.7mb						

30d 09h

GRG 0.70 45 ePg 31 05.38 -1.1
 VAY 1.06 36 ePn 31 07.00 -5.6X
 KNT 1.11 51 ePg 31 14.82 1.2
 PAIG 1.58 109 ePb 31 20.70 -0.1
 S.D. = 1.2 on 5 of 6 obs.

% APR 30, 1993 09h 35m 53.01± 1.00s
 39.095 N ± 7.6km 27.597 E ± 12.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

IZM 0.74 201 iPg 36 07.60 0.0
 EZN 1.23 307 ePn 36 15.80 0.0
 EDC 1.27 9 ePn 36 17.00 0.5
 BNT 1.28 11 ePn 36 16.20 -0.6
 KCT 1.29 27 iPn 36 17.10 0.1
 S.D. = 0.6 on 5 of 5 obs.

APR 30, 1993 10h 15m 16.37± 0.24s
 13.437 S ± 6.8km 66.718 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 5.0mb (33 obs.) 4.5Msz (3 obs.)
 MID-INDIAN RIDGE (429)

HYB 32.81 21 eP 21 52.50 0.2
 BUL 37.02 254 iPd 22 27.20 -1.3
 SLR 38.08 245 iPd 22 36.20 -1.2
 IPM 38.48 65 ePc 22 42.60 2.0
 PRY 39.04 244 iP 22 45.50 0.1
 SEK 39.22 242 iPd 22 47.50 0.6
 KSR 39.33 246 eP 22 49.50 1.6
 LEM 40.75 85 iPc 23 03.00 3.3X
 OUE 43.37 0 eP 23 21.50 0.6
 CHG 45.12 45 iPc 23 36.00 1.0
 LSA 48.93 29 Pd 24 04.20 -1.1
 MAIO 49.93 352 eP 24 11.00 -1.5
 KSH 53.32 9 eP 24 38.00 0.0
 MAW 54.18 182 P 24 45.50 1.8
 GYA 55.50 44 iPc 24 53.60 -0.6
 CD2 56.67 38 P 25 01.00 -1.5
 WMO 60.11 17 P 25 25.60 -0.7
 Z 22s 0.38um 4.5Msz
 pP 25 32.40 22kmX
 sP 25 35.30
 PcP 26 05.00

GTA 60.96 29 Pc 25 31.50 -0.7
 1.5s 39.00nm 5.3mb
 pP 25 37.00 18kmX
 sP 25 42.00

XAN 61.98 39 Pc 25 38.00 -1.1
 1.2s 33.00nm 5.4mb
 pP 25 42.50 15kmX
 sP 25 46.00

WHN 63.33 46 eP 25 48.00 0.0
 0.7s 17.00nm 5.3mb
 ASPA 64.02 110 eP 25 51.90 -1.0
 1.3s 10.50nm 4.9mb

WRA 64.74 106 P 25 53.20 -4.4X
 0.9s 6.90nm 4.8mb
 WB2 64.75 106 iPd 25 57.60 0.0
 0.9s 10.20nm 5.0mb

NVL 66.21 197 iPc 26 04.00 -2.2
 1.2s 25.00nm 5.3mb
 Z 18s 0.50um 4.8Msz
 i 26 17.00
 e 30 15.00
 e 31 37.00

TIY 66.54 38 Pc 26 09.00 0.2
 BTO 67.08 35 eP 26 12.00 -0.3
 HHC 68.11 35 P 26 19.50 0.8
 1.4s 31.00nm 5.3mb

ELT 68.51 12 eP 26 20.00 -0.8
 1.9s 40.00nm 5.3mb
 TIA 68.55 42 Pc 26 21.80 0.3

VRI 69.17 331 eP 26 25.00 -0.1
 MLR 69.26 331 eP 26 26.00 -5.8X

CVO 69.39 331 iPc 26 19.00 -7.5X
 ARU 69.90 355 eP 26 33.00 3.7X
 SVE 70.17 356 eP 26 29.00 -1.9
 1.7s 40.00nm 5.3mb
 BJI 70.27 38 eP 26 32.50 0.6
 1.0s 11.00nm 4.9mb

STK 70.28 119 eP 26 32.20 -0.1
 1.2s 1.40nm 4.0mb
 ZAK 71.16 24 eP 26 36.00 -1.1
 1.8s 10.00nm 4.6mb

OBN 72.86 342 eP 26 48.00 0.9
 1.2s 22.00nm 5.1mb
 MOS 73.12 343 eP 26 51.00 2.4
 KIC 73.61 281 P 26 51.74 -0.6

LIC 73.85 281 P 26 52.58 -1.1
 TIC 73.96 281 P 26 53.62 -0.7
 VBY 74.80 325 e(P) 26 50.20 -8.4X
 CEY 75.41 325 e(P) 27 00.50 -1.6

LJU 75.53 325 e(P) 27 05.00 2.2
 BWA 75.76 122 iPc 27 06.20 1.7
 e 28 57.90

SNY 75.87 40 Pd 27 04.90 0.1
 VOY 75.88 325 e(P) 27 05.00 0.1
 CAN 76.13 123 eP 27 07.50 0.9
 e 28 48.80

CIT 76.72 28 eP 27 10.00 0.5
 GEC2 77.68 327 P 27 11.90 -3.0X
 0.8s 1.45nm 4.1mb

KHC 77.92 327 eP 27 18.00 1.9
 1.1s 4.60nm 4.5mb
 e 27 21.60

PRU 77.95 329 eP 27 18.50 2.3
 e 27 22.00
 CN2 78.09 39 Pd 27 17.00 -0.1
 0.8s 5.80nm 4.7mb

BRG 78.80 329 e(P) 27 22.60 1.8
 GRF 79.49 327 eP 27 30.00 5.3X
 CLL 79.53 329 eP 27 26.00 1.2
 1.8s 18.00nm 4.8mb

NUR 80.98 340 eP 27 33.60 1.3
 BOD 80.99 24 eP 27 31.00 -1.4
 1.2s 8.00nm 4.6mb

MDJ 81.07 40 Pc 27 33.00 -0.2
 1.0s 13.00nm 4.9mb
 KAF 81.69 342 iP 27 36.20 0.2
 0.7s 10.90nm 5.0mb

MAT 83.58 50 eP 27 46.00 -0.4
 1.2s 15.63nm 5.1mb
 HFS 84.66 336 eP 27 50.70 -0.6
 0.7s 4.40nm 4.8mb

Z 19s 0.07um 4.1Msz
 LR 03 16.00
 NB2 86.19 336 P 27 58.50 -0.4
 0.8s 2.90nm 4.5mb

TIK 94.30 16 eP 28 36.00 -0.7
 1.0s 10.00nm 5.2mb
 IMA 120.87 18 ePKP 34 09.42 -0.7
 INK 123.63 9 ePKP 34 15.50 0.3

SLKM 125.84 22 ePKP 34 18.68 -1.1
 CNC8 126.09 237 PKP 34 22.20 -0.1
 LPB 126.33 238 ePKP 34 23.00 0.5
 ZOBO 126.49 238 PKP 34 21.00 -2.0

GMW 145.08 11 iPKPc 34 55.35 -0.4
 NEW 145.13 4 ePKPc 34 55.17 -0.7
 PRM 145.24 312 ePKP 34 55.20 -1.2
 WTV 145.39 8 PKP 34 55.69 -0.7

DPW 145.43 6 iPKPc 34 56.20 -0.2
 ETW 145.43 8 PKP 34 56.01 -0.5
 SAW 145.46 7 PKP 34 56.03 -0.4
 GBTN 145.74 315 ePKP 34 56.60 -0.6

MYNC 146.00 314 ePKP 34 56.93 -0.8
 BMW 146.02 12 (PKP) 34 58.37 0.9
 BMW 146.02 12 PKP 34 55.03 -2.4X
 LON 146.03 11 ePKP 34 57.63 0.2

WRD 146.21 7 PKP 34 58.91 1.2
 ASR 146.65 11 PKP 35 00.29 1.8
 VGB 147.40 10 ePKP 34 59.26 -0.4
 JBO 147.60 9 PKP 35 03.04 3.1X

LCCM 147.68 358 ePKP 35 02.90 2.6X
 ELC 147.99 322 (PKP) 35 01.74 1.0
 FVM 148.21 324 ePKP 35 01.29 0.2
 VIPM 148.41 10 PKP 35 05.56 4.1X

RSSD 148.41 347 ePKP 35 01.21 -0.4
 ePKPbc35 04.84
 OLY 150.52 322 (PKP) 35 05.81 1.1
 BW06 150.59 354 ePKP 35 04.57 -0.4

LBFM 151.20 14 ePKP 35 12.72 6.8X
 MIAR 152.43 323 (PKP) 35 07.12 -0.5
 ePKPbc35 14.60
 DAU 153.07 357 ePKP 35 09.39 0.6
 ePKPbc35 16.16

UYO 153.21 324 iPKPc 35 15.70 7.0X
 DUG 153.34 359 (PKP) 35 08.86 -0.1
 ePKPbc35 16.97

ALO 157.72 345 (PKP) 35 15.86 0.9
 S.D. = 1.1 on 86 of 100 obs.

APR 30, 1993 11h 19m 00.29± 0.69s
 53.831 N ± 3.0km 160.514 E ± 2.5km
 DEPTH = 58.9 ± 6.3 km
 5.2mb (91 obs.)

NEAR EAST COAST OF KAMCHATKA (218)
 Mw 5.0 (HRV). Felt (III) at
 Petropavlovsk-Kamchatskiy.

CENTROID, MOMENT TENSOR (HRV)
 Dato Used: GDSN
 L.P.B.: 21S, 27C

Centroid Location:
 Origin Time 11:19: 6.3 0.7
 Lot 53.71N 0.09 Lon 160.78E 0.10

Dep 55.8 6.3 Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr= 3.74 0.38 Mtt=-2.09 0.66
 Mff=-1.66 0.37 Mrt= 0.71 0.48
 Mrf= 0.68 0.49 Mtf=-0.51 0.42

Principal Axes:
 T Val= 3.90 Plg=81 Azm=317
 N -1.33 1 55
 P -2.57 9 145

Best Double Couple: Mo=3.2*10**16
 NP1: Strike=237 Dip=36 Slip= 92
 NP2: 54 54 88

PET 1.38 235 iPnd- 19 26.00 2.4
 eS 19 36.00

SKR 4.17 222 ePn 20 03.60 0.8
 iS 20 48.90

MGD 8.22 324 ePn 21 00.00 0.7
 Z 14s 2.10um
 E 14s 2.00um

SMY 8.22 92 eP 20 55.60 -3.7X
 SEY 10.03 338 ePn 21 27.50 3.3X
 Z 16s 1.60um
 eS 23 22.00

OKH 10.43 276 ePn 21 34.00 4.4X
 Z 15s 1.10um
 eS 23 30.00

KUR 11.88 229 (Pn) 21 48.00 -1.1
 Z 16s 1.10um
 E 16s 1.30um
 (S) 24 04.00

YSS 13.22 246 ePn 22 10.00 3.3X
 Z 16s 0.80um
 N 15s 0.50um
 E 15s 0.50um

ADK 13.90 89 eP 22 12.70 -2.9X
 KUSJ 14.97 231 eP 22 23.40 -6.2X
 ASAJ 15.20 237 P 22 33.40 0.9

HOOJ 16.18 232 eP 22 39.40 -5.6X
 ILT 17.22 27 iPc 22 57.00 -0.8
 i 26 14.00

OFUJ 19.56 229 eP 23 22.10 -3.7X
 YAMJ 21.04 230 eP 23 40.20 -0.8
 MDJ 22.04 258 Pc 23 49.80 -1.2
 1.0s 13.00nm 4.3mb

NIIJ 22.27 231 P 23 53.90 0.6
 TIK 22.51 334 iPd 23 55.00 -0.4
 Z 17s 0.70um 4.2MszX
 e 24 13.00
 ePPP 24 35.00
 eS 27 54.00

KAKJ 22.61 227 P 23 57.70 1.1
 MAT 23.21 231 eP 24 03.00 0.5
 1.2s 140.63nm 5.3mb
 eS 28 11.00

CHJJ 23.26 229 P 24 04.40 1.4
 MTMJ 23.36 232 P 24 05.10 1.0
 TTA 24.08 50 eP 24 11.20 0.3
 e 24 21.30

SVW 24.28 55 eP 24 13.30 0.6
 CN2 24.93 261 eP 24 17.80 -1.3

	1.1s	27.00nm	4.7mb	KSH	56.40	292 P	28 35.00	-2.8X	WIM	71.69	351 eP	30 16.90	-0.3	
Z	18s	0.66um	4.2MsZx	FRB	56.73	24 ePc	28 37.60	-2.0	CLL	71.75	339 iPd	30 17.70	0.1	
TSRJ	25.06	233 P	24 21.00	0.6		0.9s	30.00nm	5.3mb		1.3s	94.00nm	5.6mb		
IMA	25.33	43 ePc	24 22.50	-0.3	BW06	56.94	61 ePc	28 41.61	-0.2	BRG	71.96	338 iPd	30 18.60	-0.3
	0.9s	38.50nm	4.9mb			0.8s	21.72nm	5.3mb		1.1s	33.00nm	5.2mb		
BRW	25.48	31 ePc	24 24.00	0.1	DUG	57.04	66 ePd	28 42.51	0.1		i	30 30.80		
RSO	25.73	56 eP	24 27.37	0.8		0.9s	18.83nm	5.2mb	UZH	71.97	332 eP	30 21.50	2.6X	
BOD	25.92	298 iPc	24 27.10	-1.0	DAU	57.72	65 eP	28 47.75	0.4		1.0s	27.00nm	5.1mb	
	1.0s	80.00nm	5.2mb			e	28 55.00		SPC	72.02	334 iP	30 20.60	1.1	
KDC	26.29	62 eP	24 30.30	-1.2	LOE	57.81	255 eP	28 47.70	-0.1	DMU	72.13	352 eP	30 19.50	-0.3
WKYJ	26.33	232 P	24 32.60	0.4	CHG	58.30	258 ePc	28 50.50	-0.7		0.9s	144.00nm	5.9mb	
YONJ	26.56	236 P	24 34.10	-0.2	GSC	58.33	72 eP	28 51.26	-0.1	WME	72.40	351 eP	30 20.50	-0.9
SNY	27.23	259 Pd	24 39.00	-1.2	EMUT	58.38	65 eP	28 52.13	0.2	BNH	72.46	36 eP	30 21.43	-0.5
Z	20s	0.85um	4.3MsZx	ARUT	58.41	68 eP	28 51.41	-0.6	PRU	72.66	338 P	30 23.00	0.0	
	S	29 11.00		MSU	58.58	67 ePc	28 53.42	0.1		1.1s	46.00nm	5.3mb		
TKSJ	27.25	234 P	24 41.20	0.7		PcP	29 42.86			PcP	30 45.30			
PMR	27.36	53 eP	24 40.80	-0.4	RSSD	58.79	57 ePd	28 54.38	-0.3	MOX	72.67	340 iPd	30 23.60	0.5
FBA	27.73	46 eP	24 44.20	-0.4		0.7s	56.23nm	5.8mb		1.3s	54.00nm	5.3mb		
CIT	27.95	286 eP	24 46.50	-0.3	KAF	58.91	337 iP	28 53.70	-1.2	DLF	72.70	352 eP	30 22.90	-0.2
KUMJ	30.00	237 P	25 05.60	0.4		0.4s	18.80nm	5.6mb		1.0s	151.00nm	5.9mb		
KAGJ	31.06	235 P	25 15.50	0.9	SRU	59.05	65 ePc	28 56.48	0.0	VRAC	72.82	336 iPd	30 25.00	1.1
BJI	32.70	263 eP	25 27.00	-1.8	PLM	59.71	74 eP	29 00.76	-0.3		1.3s	170.50nm	5.8mb	
	1.3s	20.00nm	4.8mb		PV10	60.38	65 ePc	29 05.54	-0.1	YRH	72.99	351 eP	30 24.00	-0.9
Z	18s	0.59um	4.3MsZx	PV08	60.44	64 ePc	29 05.81	-0.4		1.2s	21.00nm	4.9mb		
IRK	33.07	291 eP	25 49.50	17.5X	NUR	60.70	337 eP	29 05.80	-1.4	VR1	73.17	328 eP	30 27.00	1.0
	Z 18s	0.66um	4.4MsZx			0.6s	11.70nm	5.2mb	POO	73.31	279 eP	30 26.50	-0.8	
N	16s	0.50um			AKU	60.81	359 iP	29 08.50	0.7	CVO	73.38	329 ePd	30 28.00	0.7
E	17s	0.30um				1.0s	32.00nm	5.4mb	LMN	73.46	31 ePd	30 30.30	2.6X	
INK	33.13	38 ePc	25 33.00	0.7	GLA	61.09	73 ePd	29 10.12	-0.2	ENN	73.61	343 iPc	30 28.90	0.4
	0.9s	14.00nm	4.8mb		GOL	61.34	61 eP	29 12.56	0.3		1.0s	70.00nm	5.5mb	
ZAK	34.50	288 eP	25 43.00	-1.3		0.8s	8.19nm	4.9mb	ECB	73.64	352 eP	30 28.60	0.0	
	1.0s	10.00nm	4.7mb		GLD	61.38	61 eP	29 12.75	0.3	GRF	73.65	340 iPc	30 29.70	0.9
Z	14s	0.59um	4.5MsZx			0.9s	25.04nm	5.3mb		1.2s	96.00nm	5.6mb		
E	16s	0.97um			08N	62.03	327 eP	29 14.00	-2.3	Z	22s	0.10um	4.1MsZ	
	e	28 18.00				1.1s	60.00nm	5.6mb		KHC	73.68	338 eP	30 30.00	1.0
TIA	34.71	257 eP	25 44.60	-1.6		e	29 40.00			1.0s	26.80nm	5.1mb		
Z	20s	0.85um	4.5MsZx	NNT	62.81	253 iPd	29 23.30	1.4		e	30 38.00			
MOY	35.18	291 eP	25 49.00	-1.0	UPP	62.82	340 iP	29 20.60	-0.8		e	31 02.50		
	1.2s	24.00nm	5.0mb			0.9s	700.00nm	6.8mb X	TNS	73.69	342 ePc	30 29.50	0.4	
BTO	35.98	269 eP	25 56.00	-1.1	NB2	62.90	344 P	29 20.20	-1.8	ZST	73.73	335 iP	30 30.30	1.1
N	12s	0.24um				0.9s	45.80nm	5.6mb	MLR	73.75	329 iPd	30 30.00	0.4	
E	12s	0.26um			JAQ	63.07	34 eP	29 21.00	-2.1	SRO	73.79	335 eP	30 30.70	1.2
MBC	36.26	23 ePc	25 59.00	0.1	NAO	63.17	344 P	29 20.57	-3.2X	ECP	73.79	352 eP	30 29.40	-0.1
	1.0s	10.00nm	4.7mb		HFS	63.32	342 eP	29 23.20	-1.5	ISR	73.88	328 eP	30 30.00	-0.2
XAN	41.02	263 P	26 37.00	-2.0		0.6s	17.50nm	5.3mb	GEC2	73.92	338 P	30 31.00	0.5	
Z	16s	0.60um	4.6MsZx	Z	18s	0.09um	4.0MsZx			0.8s	13.20nm	4.9mb		
ELT	42.23	301 iPc	26 47.00	-1.6		LR	53 39.00			e	30 37.20			
	1.1s	52.00nm	5.2mb	TUC	63.91	70 ePc	29 28.98	-0.1	SNF	74.13	344 Pc	30 31.20	-0.3	
	e	28 26.00			1.0s	5.37nm	4.5mb		SOP	74.35	336 eP	30 33.00	0.2	
YKA	42.45	43 eP	26 50.70	0.3	ALQ	64.31	66 ePc	29 31.36	-0.5	DOU	74.48	344 P	30 33.70	0.1
	0.7s	19.30nm	5.0mb			0.9s	10.70nm	4.8mb		0.8s	50.00nm	5.5mb		
GTA	42.78	276 Pc	26 52.60	-0.9	KONO	64.49	344 eP	29 32.00	-0.3	CTA	74.63	194 iPc	30 34.00	-0.7
	1.0s	43.00nm	5.2mb		MNK	65.78	332 eP	29 37.00	-3.7X		1.0s	11.25nm	4.8mb	
CD2	46.29	264 P	27 20.00	-1.6	ACO	66.82	59 iPd	29 46.00	-1.6	WLF	74.64	343 P	30 36.00	1.6
CVP	46.81	235 ePc	27 24.50	-1.2	VAN	66.89	303 iPc	29 45.50	-2.5X	GBTN	74.85	50 eP	30 35.18	-0.7
WMQ	46.97	289 P	27 25.40	-1.5		Z 14s	0.60um	5.0MsZx	NAV	74.97	46 eP	30 36.05	-0.6	
	0.9s	44.00nm	5.4mb	MAIO	67.47	301 eP	30 07.00	15.2X	LANF	75.00	342 P	30 36.79	0.2	
Z	20s	1.07um	4.8MsZ	EEO	67.86	40 eP	29 55.00	1.0	GBA	75.07	273 P	30 36.60	-0.8	
	pP	27 31.00	19kmX	QUE	68.22	291 eP	29 55.50	-1.2		0.6s	6.00nm	4.7mb		
	PP	29 11.00		KAC	68.43	352 eP	29 56.90	-0.4	BHG	75.17	338 eP	30 48.40	10.8X	
GYA	47.90	257 P	27 33.00	-1.4	MEO	68.59	60 iPd	29 58.20	-0.5	MYNC	75.38	50 ePc	30 38.48	-0.5
SHW	47.92	66 eP	27 33.32	-1.0	KPL	68.62	352 eP	29 58.10	-0.4		0.9s	21.69nm	5.1mb	
DPW	49.01	62 eP	27 42.15	-0.5	IPM	68.66	247 ePc	29 59.50	0.1	CVL	75.40	44 eP	30 38.69	-0.3
DAG	49.67	360 eP	27 46.50	-0.7	KSB	68.73	352 eP	29 58.70	-0.4	WLS	75.63	342 P	30 40.37	0.1
	0.8s	13.43nm	5.0mb	KIV	69.07	317 eP	29 59.70	-1.9	CDF	75.64	342 P	30 40.37	0.0	
LBFM	51.25	71 eP	27 59.84	-0.2	Z	18s	0.20um	4.4MsZx	KBA	75.67	338 iPc	30 41.20	0.5	
SVE	51.92	317 ePd	28 02.10	-2.5X		e	30 23.40			0.9s	87.70nm	5.7mb		
	Z 20s	0.50um	4.5MsZ	FVM	70.09	53 ePc	30 07.01	-0.8		i	30 42.00			
	N 20s	0.40um			0.8s	51.19nm	5.5mb			i	31 09.70			
E	20s	0.40um		EKA	70.37	350 Pd	30 09.20	0.0	DZM	75.76	174 iPd	30 41.80	0.6	
					0.7s	23.10nm	5.2mb		WATA	75.82	339 iPc	30 41.80	0.4	
ORV	52.68	72 eP	28 10.06	-0.5	UYO	71.17	58 iPc	30 13.60	-0.8		i	30 42.30		
FCC	52.75	39 ePc	28 11.90	1.2	OJC	71.19	335 eP	30 14.50	0.2	LIBD	75.84	342 P	30 41.56	0.2
ARU	53.03	317 ePc	28 11.00	-1.9	GRS	71.19	312 eP	30 13.00	-1.7	ECH	75.85	342 P	30 41.30	-0.2
LSA	54.64	273 P	28 22.00	-3.6X		1.0s	20.00nm	5.0mb	WTTA	75.87	339 iPc	30 42.20	0.4	
	0.9s	6.00nm	4.6mb			e	30 32.00			1.3s	83.50nm	5.5mb		
FRU	54.78	296 eP	28 24.80	-1.2	ELC	71.21	52 ePc	30 14.11	-0.5		i	30 42.90		
	1.8s	40.00nm	5.1mb	MIAR	71.31	57 ePc	30 14.48	-0.8	MOTA	75.91	339 iPc	30 42.40	0.4	
Z	20s	0.60um	4.7MsZ		0.7s	15.89nm	5.1mb			0.9s	50.40nm	5.4mb		
	e	28 47.00		RSNY	71.32	38 eP	30 13.59	-1.6		i	30 42.80			
	e	29 24.00			0.8s	6.93nm	4.6mb		SQTA	76.00	339 iPc	30 43.20	0.7	
KVN	54.94	70 eP	28 27.70	0.3	KSP	71.46	337 eP	30 15.40	-0.5		0.8s	44.50nm	5.4mb	
MEMM	55.44	72 (P)	28 29.52	-1.2		0.9s	38.00nm	5.3mb		i	30 43.50			
HVU	55.94	64 eP	28 34.63	0.1		i	30 16.40		FEL	76.02	341 P	30 42.40	-0.2	
TNP	56.11	70 ePc	28 35.99	0.1	OLY	71.58	55 ePc	30 15.50	-1.3	SLE	76.04	341 P	30 42.83	0.3
	0.7s	10.89nm	5.0mb			e	30 29.75		VITF	76.06	343 P	30 42.66	0.0	
									PTJ	76.16	335 iPd	30 44.00	0.7	

30d 11h

HAU	76.20	342	iPc	30	43.50	0.0
	1.2s		70.80nm			5.5mb
MOF	76.21	342	P	30	43.51	-0.1
ZAG	76.23	335	iP	30	44.20	0.6
BSF	76.29	342	P	30	43.77	-0.3
ZLA	76.33	341	P	30	45.38	1.2
OGA	76.38	339	eP	30	45.40	0.7
	0.8s		34.00nm			5.4mb
BBS	76.51	342	P	30	45.38	0.2
FLN	76.53	347	iPc	30	44.80	-0.4
	0.9s		41.10nm			5.4mb
VOY	76.53	337	eP	30	45.10	-0.3
			e	31	19.20	
LDF	76.64	347	iPc	30	45.50	-0.4
	1.2s		45.20nm			5.3mb
CEY	76.68	336	e(P)	30	45.50	-0.7
VBY	76.70	336	eP	30	45.70	-0.5
OSS	76.74	340	P	30	47.72	1.1
LOMF	76.75	342	P	30	46.75	0.2
WB2	76.85	205	iPd	30	47.00	-0.3
	1.0s		10.40nm			4.8mb
WRA	76.86	205	P	30	47.00	-0.3
	1.0s		3.20nm			4.3mb
TRI	76.87	337	eP	30	46.80	-0.3
CEH	76.91	46	eP	30	47.33	-0.2
	0.7s		41.62nm			5.5mb
GRR	76.94	347	iPc	30	47.50	0.0
	1.1s		81.30nm			5.6mb
RIY	77.06	336	eP	30	47.50	-0.7
VDL	77.07	340	P	30	49.81	1.3
LPF	77.32	347	iPc	30	49.70	0.1
	0.9s		32.45nm			5.3mb
LOR	77.34	344	iPc	30	49.80	0.0
	1.0s		56.20nm			5.5mb
LHS	77.36	48	eP	30	49.33	-0.7
HYF	77.54	345	iPc	30	51.30	0.5
TMA	77.55	340	P	30	50.52	-0.6
LBF	77.60	344	iPc	30	51.00	-0.2
	1.0s		14.60nm			4.9mb
SSF	77.60	344	iPc	30	51.30	0.1
	0.8s		23.25nm			5.2mb
MMK	77.78	341	P	30	53.58	1.1
ALN	77.85	326	e(P)	30	52.98	0.4
DIX	77.86	341	P	30	54.08	1.1
AVF	77.89	344	iPc	30	53.00	0.3
	1.1s		67.40nm			5.6mb
SMF	77.95	344	iPc	30	53.20	0.1
	1.1s		41.25nm			5.3mb
EMS	77.96	342	P	30	54.41	1.0
BGF	78.20	344	iPc	30	54.60	0.1
	1.0s		29.00nm			5.2mb
SKO	78.31	330	iP	30	55.40	0.3
SRS	78.44	328	i(P)	30	56.26	0.4
LSD	78.51	341	P	30	57.72	1.2
LPL	78.53	342	iPc	30	57.90	1.3
	0.9s		88.45nm			5.7mb
LPG	78.55	342	iPc	30	58.10	1.3
	1.0s		123.60nm			5.8mb
TCF	78.56	345	iPc	30	56.90	0.4
	1.0s		29.40nm			5.2mb
VAY	78.57	329	P	30	56.50	0.0
MAF	78.57	345	iPc	30	57.30	0.8
	0.9s		33.25nm			5.3mb
SGS	78.58	48	eP	30	57.02	0.3
MFF	78.60	347	iPc	30	57.10	0.5
	1.2s		39.85nm			5.2mb
KNT	78.61	329	e(P)	30	56.76	0.0
LSF	78.70	345	iPc	30	57.60	0.4
	0.9s		34.25nm			5.3mb
SOH	78.78	328	e(P)	30	57.24	-0.5
RSP	78.78					

STV	79.65	341	P	31	01.29	-1.2
LIT	79.71	329	i(P)	31	01.92	-0.8
SAOF	79.85	341	P	31	03.73	0.2
IMI	79.85	340	P	31	03.76	0.2
AUTN	79.86	341	P	31	03.99	0.2
TOUF	79.88	341	P	31	04.34	0.4
CAF	79.91	345	iPc	31	05.00	1.2
	1.1s	42.75nm			5.3mb	
AURF	79.99	341	P	31	04.60	0.3
SBF	79.99	341	P	31	04.60	0.3
LFF	80.10	346	iPc	31	05.70	0.9
	1.0s	39.60nm			5.3mb	
REVF	80.12	341	P	31	05.31	0.3
CALN	80.20	341	P	31	05.94	0.4
LPO	80.28	345	iPc	31	06.80	1.0
	1.0s	50.00nm			5.4mb	
FRF	80.43	341	iPc	31	07.10	0.5
	1.2s	65.15nm			5.4mb	
ASPA	80.53	205	iPc	31	07.30	0.0
	1.0s	23.20nm			5.1mb	
LRG	80.59	341	iPc	31	08.30	0.9
	0.9s	104.85nm			5.8mb	
RMO	80.63	191	iPd	31	08.50	0.8
	0.7s	17.00nm			5.1mb	
LMR	80.68	341	iPc	31	08.70	0.8
	1.0s	99.20nm			5.7mb	
IGT	80.88	330	e(P)	31	08.88	-0.1
PGF	80.93	339	P	31	09.58	0.2
HRI	81.00	316	eP	31	09.30	-0.5
QLP	81.31	195	eP	31	11.40	0.2
MTHF	81.77	344	P	31	15.26	1.6
MMN	81.78	333	P	31	13.60	0.0
CSI	81.80	333	P	31	14.20	0.4
ROI	81.92	333	P	31	15.40	1.0
HMDT	81.96	315	eP	31	14.50	-0.2
EPF	82.03	345	eP	31	15.50	0.5
	1.5s	40.20nm			5.2mb	
GR8F	82.03	345	P	31	16.23	1.2
PERF	82.16	343	P	31	16.83	1.2
ETER	82.34	343	iPd	31	18.00	1.5
CZI	82.37	333	P	31	15.60	-1.1
EGRA	82.94	346	iPd	31	21.50	1.9
ERUA	83.57	351	iPd	31	24.00	1.1
EBR	84.17	345	eP	31	27.00	1.1
EROO	84.18	345	iPd	31	28.00	2.0
MBH	84.40	315	eP	31	26.70	-0.7
ETOR	84.54	347	iPd	31	29.20	1.3
GUD	84.98	348	iPd	31	31.50	1.3
ECHE	85.59	346	eP	31	36.00	2.9X
EPLA	85.77	350	iPc	31	36.00	2.0
EVIA	86.74	347	eP	31	41.00	2.1
STK	86.92	196	iPc	31	39.80	0.4
	0.4s	1.40nm			4.5mb	
BWA	88.52	190	iPc	31	47.90	0.8
CAN	89.34	189	iPc	31	51.70	0.7
TIC	118.53	344	PKP	37	42.30	-0.6
KIC	118.76	343	PKP	37	42.00	-1.3
LIC	118.94	344	PKP	37	43.20	-0.5
ZO80	126.90	64	PKP	37	59.40	-0.2
LP8	127.13	65	ePKP	37	54.00	-5.9X
CNCB	127.43	65	PKP	38	01.20	0.6
SLR	135.00	289	ePKP	38	14.20	-0.1
	0.7s	16.00nm				
RT8S	138.23	79	iPKPd	38	37.00	17.0X
RTC8	138.48	78	iPKPd	38	38.00	17.4X
GRM	141.69	283	iPKPd	38	40.50	14.2X
	1.4s	88.00nm				
SPA	143.64	180	iPKPd	38	24.60	-4.1X
	0.7s	39.06nm				
SUR	144.27	290	ePKP</			

KCT	0.71	251	eSg	23	28.60	
CTT	0.90	318	iPg	23	18.00	-0.7
			Pq	23	22.00	0.1
			eSg	23	35.50	
BNT	1.01	263	iPn	23	23.50	-0.3
EDC	1.05	263	iPn	23	24.50	-0.1
ALT	1.58	154	ePn	23	33.00	0.9
DMK	1.74	321	ePn	23	36.00	0.9
S.D. = 0.7			on	9 of	9 obs.	
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? APR 30, 1993			11h	38m	17.63± 4.15s	
31.508 S ±14.9km				69.441 W	±37.3km	
DEPTH = 141.7 ± 27.6 km						
SAN JUAN PROVINCE, ARGENTINA			(137)			
ZON	0.65	94	iPd	38	39.40	0.2
			eS	48	52.40	
RTCV	0.85	115	iPd	38	40.30	-0.4
			S	38	53.50	
MDZ	1.46	160	iP	38	46.70	0.1
			iS	39	08.20	
RTPR	2.79	65	ePd	39	02.90	0.4
			(S)	39	34.00	
MRA	3.30	107	iPc	39	09.00	-0.1
			S	39	45.60	
CYA	4.40	47	ePd	39	23.50	-0.2
			S	40	12.20	
S.D. = 0.4			on	6 of	6 obs.	
<hr/>						
% APR 30, 1993			11h	45m	57.14± 1.58s	
38.077 N ± 9.7km				26.944 E	±14.4km	
DEPTH = 10.0km (geophysicist)						
AEGEAN SEA			(365)			
MD 3.3 (ISK).						
IzM	0.41	38	iPg	46	05.20	-0.3
			iSg	46	12.20	
YER	1.42	131	iPn	46	23.00	0.0
EZN	1.81	345	ePn	46	28.40	-0.2
KHL	2.05	82	ePn	46	32.10	0.0
KCT	2.43	26	ePn	46	38.00	0.5
S.D. = 0.4			on	5 of	5 obs.	
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? APR 30, 1993			11h	48m	56.79± 3.73s	
19.386 N ±18.1km				96.058 W	±32.0km	
DEPTH = 33.0km (normol)						
VERACRUZ, MEXICO			(525)			
LVMM	0.38	304 (P)		49	05.50	-0.2
IISM	1.31	253 eP		49	17.45	-1.4
		(S)		49	42.56	
IIT	2.16	261 iP		49	32.15	0.8
OXX	2.38	196 iP		49	34.60	0.1
		iS		50	00.27	
PPM	2.45	263 eP		49	36.49	0.7
		(S)		50	09.18	
IJA	2.47	265 (P)		49	18.85	-16.7X
III	3.38	253 (P)		49	57.01	8.2X
ACX	4.40	236 (P)		49	43.09	-19.9X
MRX	4.85	275 (P)		50	16.96	7.6X
S.D. = 1.2			on	5 of	9 obs.	
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APR 30, 1993			12h	29m	36.35± 0.48s	
13.991 N ± 5.2km				91.536 W	± 3.5km	
DEPTH = 68.2 ± 3.8 km						
4.7mb (28 obs.)						
NEAR COAST OF GUATEMALA			(71)			
Mw 5.1 (HRV). MD 4.5 (GCG).						
CENTROID, MOMENT TENSOR (HRV)						
Doto Used: GDSN						
L.P.B.: 295, 43C						
Centroid Location:						
Origin Time			12:29:37.5 0.4			
Lot 13.86N 0.04			Lon 91.72W 0.05			
Dep 56.1 4.7			Half-duration 1.0			
Moment Tensor:			Scale 10**16 Nm			
Mrr= 5.22 0.41			Mtt=-5.22 0.63			
Mrf= 0.00 0.93			Mrt= 0.66 0.53			
Mrf= 0.92 0.58			Mtf=-0.45 0.38			
Principal Axes:						
T Vol= 5.41			Plg=80 Azm=288			
N -0.10			9 84			
P -5.31			4 174			
Best Double Couple:Mo=5.4*10**16						
NP1:Strike=274 Dip=42 Slip= 104						
NP2: 76 50 78						

PCG	0.99	66	iPd	29 54.67	-0.4					ADK	76.15	320	eP	41 16.85	-1.7		
BVA	1.10	52	iPd	29 56.79	0.2	PEC	30.53	315	eP	35 46.25	0.8		0.7s	22.89nm	5.2mb		
GCG	1.14	59	iPc	29 57.76	0.8		1.1s	21.52nm			4.8mb	EKA	77.71	36	Pc	41 24.00	-3.2X
TPX	1.15	322	iP	29 55.50	-1.4	ARUT	30.67	325	eP	35 48.42	1.6		1.1s	15.10nm	4.9mb		
			iS	30 10.00		EMUT	30.80	330	eP	35 48.68	0.6	NB2	83.94	29	P	41 59.10	-0.9
SLP	1.43	58	iPd	30 02.00	1.2	DAU	31.48	330	ePcP	35 54.76	0.7		1.1s	6.10nm	4.5mb		
CUSS	1.54	93	eP	30 01.20	-1.1							TIC	85.05	84	PKP	42 06.40	-0.1
YPE	1.81	86	eP	30 06.00	0.0	RSSD	31.87	343	eP	35 57.55	0.2	LIC	85.14	85	PKP	42 06.20	-0.7
MRL	2.08	59	ePd	30 10.44	0.6		0.7s	2.55nm			4.1mb	KIC	85.39	85	PKP	42 06.80	-1.3
			eS	30 41.71		Z	21s	0.19um			3.7Msz	HFS	85.39	29	eP	42 05.40	-1.9
TME	2.12	89	eP	30 10.10	-0.1								0.6s	3.50nm	4.6mb		
QZG	2.18	73	ePd	30 11.69	0.4							Z	21s	126.00um	7.3MszX		
SJAS	2.32	98	iPc	30 13.00	-0.2	DUG	32.08	328	eP	35 59.83	0.7			LR	10 13.00		
LFU	2.36	96	iPc	30 13.80	0.1		1.3s	9.85nm			4.5mb	KHC	89.15	39	eP	42 23.00	-2.8X
OXX	5.87	302	eP	31 02.75	-0.2	Z	19s	0.35um			4.1Msz			e	43 20.00		
			iS	32 05.50		ISA	32.42	317	P	36 10.00	7.9X	GEC2	89.32	40	P	42 25.60	-1.1
IISM	7.49	312	eP	31 22.50	-2.7X	Z	18s	0.41um			4.2Msz		1.1s	1.14nm	4.1mb		
			iS	32 47.00		BW06	32.62	335	eP	36 03.69	-0.3	WMQ	122.47	1	PKP	48 25.70	0.0
PPM	8.47	308	eP	31 38.00	-1.2		1.1s	3.59nm			4.1mb	Z	30s	0.39um	4.9MszX		
			iPc	33 09.50				ePcP				TOO	124.45	234	iPKPc	48 46.40	16.7X
ACX	8.52	291	eP	31 38.50	-1.0	HRV	33.24	27	P	36 20.00	11.0X		0.8s	11.00nm			
IIA	8.54	308	(P)	31 39.50	-0.2	Z	20s	0.64um			4.3Msz	GTA	125.83	349	ePKP	48 31.50	-1.0
III	8.78	301	iP	31 43.50	0.3	HVU	33.26	330	eP	36 09.84	0.4	LZH	128.12	344	ePKP	48 37.00	0.0
UNM	9.05	307	eP	31 47.00	0.0	RSNY	33.73	22	P	36 20.00	6.8X	XAN	128.42	338	PKP	48 37.50	0.1
CRX	9.48	306	(P)	31 56.00	3.1X	Z	22s	0.65um			4.3Msz	STK	128.45	240	ePKP	48 38.20	0.7
MRX	10.85	303	(P)	32 05.50	-5.7X	EEO	34.19	15	eP	36 18.00	0.8		0.5s	1.50nm			
AGX	12.90	309	(P)	32 41.50	3.1X	KVN	34.23	322	eP	36 19.30	1.4	LSA	136.49	357	ePKP	48 53.60	0.2
MZX	16.81	305	(P)	33 30.00	1.2	GAC	34.40	20	eP	36 33.50	14.5X	CHG	145.81	342	iPKPc	49 09.70	0.0
BUTX	18.41	344	iP	33 47.90	-0.5	SAO	35.03	316	P	36 30.00	5.5X		1.2s	67.97nm</			

FORT	24.70	185	eP	21	47.30	-0.1
	0.6s	131.00nm				5.6mb
		e		21	59.00	
		eS		26	28.00	
MRWA	26.72	209	iPc	22	05.80	-0.3
	0.3s	11.00nm				4.9mb
		eS		27	10.00	
STK	27.79	159	iPd	22	15.50	-0.2
	0.7s	48.90nm				5.2mb
		e		22	44.20	
		eS		27	37.00	
MUN	28.97	205	eP	22	26.00	-0.4
		i		23	09.30	
		eS		28	02.00	
CMS	29.19	152	iPd	22	27.70	-0.6
		i		23	17.10	
		eS		28	11.20	
NWAO	29.39	203	eP	22	29.70	-0.3
		e		23	15.00	
		eS		28	12.50	
ADE	29.81	166	iPd	22	34.00	0.2
BRS	30.12	137	iPc	22	36.00	-0.6
	0.5s	16.00nm				5.0mb
		i		23	18.00	
RKG	30.93	202	eP	22	35.00	-8.7X
IPM	31.08	289	ePc	22	44.00	-1.2
ARMA	31.47	143	iPc	22	48.10	-0.4
	0.7s	15.00nm				4.8mb
BWA	32.84	152	iPd	23	01.80	1.5
BFD	32.94	162	iPd	23	01.20	0.1
	0.3s	13.00nm				5.2mb
		e		23	48.10	
CAN	33.84	152	iPd	23	09.60	0.6
CNB	34.01	151	iPc	23	10.70	0.2
	0.8s	44.00nm				5.3mb
TOO	34.30	158	iPd	23	14.10	1.2
	0.7s	90.00nm				5.7mb
		i		24	12.70	
		eS		30	14.00	
NNT	35.58	301	eP	23	24.30	0.4
LOE	36.60	310	eP	23	33.00	0.5
KHT	37.64	304	eP	23	42.50	1.3
DZM	38.37	118	iPc	23	47.80	0.4
BOT	38.63	307	eP	23	45.00	-4.5X
	0.9s	84.80nm				5.6mb
NJ2	39.42	345	Pd	23	57.40	1.5
	0.7s	15.00nm				4.9mb
		pP		24	22.00	106km
WHN	39.46	338	Pc	23	57.50	1.3
	0.7s	23.00nm				5.1mb
CHG	39.56	309	iPc	23	58.00	0.7
	1.0s	85.00nm				5.5mb
GYA	39.61	326	iPc	23	58.00	0.3
	0.8s	19.00nm				5.0mb
		pP		24	24.00	113km
TKSJ	39.96	5	P	24	00.90	0.6
WKYJ	40.35	7	P	24	04.50	0.9
KMI	40.97	320	Pc	24	10.00	1.0
	1.5s	60.00nm				5.2mb
YONJ	41.12	4	P	24	10.50	0.7
MAT	43.00	9	iPc	24	23.90	-1.3
	0.8s	14.93nm				4.8mb
TIA	43.81	345	eP	24	31.40	-0.3
CD2	44.67	327	P	24	38.00	-0.7
XAN	44.70	335	Pc	24	38.00	-1.0
	0.9s	31.00nm				5.1mb
		pP		25	03.00	107km
YAMJ	44.91	11	eP	24	40.80	0.3
TIY	46.61	340	iPd	24	54.00	0.0
	0.8s	28.00nm				5.1mb
BJI	47.67	345	eP	25	01.50	-0.7
	1.0s	44.00nm				5.2mb
		pP		25	27.00	108km
SNY	48.03	353	Pd	25	04.90	0.0
LZH	48.71	331	iPc	25	11.00	0.5
	1.5s	51.00nm				5.2mb
Z	20s	0.25um				4.2Msz
		pP				

ASAJ 51.15 11 eP 25 28.50 -0.3
LSA 51.72 316 Pc 25 32.50 -1.4
0.6s 17.00nm 5.2mb
TUZ 52.30 146 eP 25 36.60 -0.8
MNG 53.03 137 eP 25 41.70 -1.2
URZ 53.10 134 eP 25 43.40 -0.1
GTA 53.29 331 iPc 25 45.00 0.1
1.0s 28.00nm 5.2mb
pP 26 10.00 103km
NOZ 53.91 134 eP 25 50.10 0.7
YSS 53.96 10 eP 25 48.30 -1.3
0.6s 10.00nm 5.0mb
GBA 55.99 291 P 26 04.00 -0.8
HYB 56.17 296 ePc 26 04.50 -1.6
1.0s 40.00nm 5.4mb
CIT 59.55 348 eP 26 28.80 -0.4
ZAK 60.87 341 iPc 26 38.00 -0.1
1.0s 15.00nm 5.0mb
e 27 20.00
IRK 62.17 342 iPc 26 46.30 -0.6
1.0s 27.00nm 5.2mb
MOY 62.74 340 ePc 26 51.90 1.3
1.1s 48.00nm 5.4mb
WMO 62.76 327 iPc 26 51.00 0.0
0.7s 48.00nm 5.6mb
PcP 27 24.60
PET 63.55 19 eP 26 52.00 -3.9X
BOD 65.01 351 iPc 27 05.20 -0.1
0.6s 16.00nm 5.1mb
KSH 67.49 317 iP 27 23.00 1.4
1.0s 20.00nm 5.0mb
YAK 67.86 360 iPc 27 23.00 -0.2
MGD 67.90 11 ePc 27 23.30 -0.3
0.8s 30.00nm 5.3mb
ELT 69.75 334 iPc 27 35.20 0.2
0.9s 36.00nm 5.2mb
eS 36 32.00
e 37 20.00
FRU 70.03 320 eP 27 38.00 1.0
1.5s 20.00nm 4.7mb
e 27 52.00
QUE 70.50 305 eP 27 40.70 0.4
TIK 77.53 360 iPd 28 14.00 -5.7X
0.7s 18.00nm 5.0mb
e 28 49.00
VAN 79.85 310 iPc 28 33.50 0.4
0.9s 23.00nm 5.0mb
ILT 81.95 17 iPc 28 44.00 0.5
SVE 84.10 329 iPc 28 55.00 0.3
1.0s 60.00nm 5.5mb
e 29 23.90
TTA 88.00 26 eP 29 14.00 0.2
0.5s 3.36nm 4.6mb
e 29 42.00
IMA 89.85 23 eP 29 22.40 -0.2
0.9s 2.50nm 4.3mb
SLKM 90.06 29 eP 29 23.33 -0.2
FBA 92.00 25 (P) 29 30.50 -1.8
0.7s 2.91nm 4.7mb
INK 97.87 22 eP 29 59.50 0.5
MBC 100.62 13 ePdiff30 10.50 -0.8
YKA 106.76 26 ePdiff30 36.20 -2.7X
0.6s 0.20nm 4.4mb
YKA 106.76 26 ePKP 34 47.70 -1.0
0.4s 0.30nm
HFS 108.27 332 ePdiff30 44.20 -1.5
0.6s 2.70nm 5.6mb
NB2 109.07 333 Pdiff 30 47.90 -1.4X
0.8s 1.80nm
GEC2 111.88 320 PKP 34 58.80 -0.2
0.5s 0.85nm
LPG 117.45 319 ePKP 35 09.90 -0.1
0.5s 1.95nm
LPL 117.45 319 ePKP 35 09.80 -0.2
0.5s 3.45nm
LBF 118.66 321 ePKP 35 11.90 -0.1
SSF 118.92 321 ePKP 35 12.40 0.0
0.6s 3.80nm
BGF 119.54 321 ePKP 35 13.80 0.2
0.6s 5.25nm
TCF 120.05 321 ePKP 35 14.80 0.2
0.6s 2.45nm
GRR 120.95 324 ePKP 35 16.30 0.1
0.2s 1.25nm
LPF 121.23 324 ePKP 35 16.90 0.2
0.6s 3.70nm
MFF 121.37 322 ePKP 35 17.10 0.1

0.5s 5.70nm
YJA 147.97 152 ePKPc 36 10.00 2.7X
CNCB 150.97 142 iPKPc 36 20.00 7.9X
LPB 151.11 141 ePKP 36 20.00 7.8X
ZOB0 151.30 141 PKP 36 20.00 7.4X
PPD 152.06 177 ePKP 36 20.10 7.2X
S.D. = 0.8 on 93 of 106 obs.

% APR 30, 1993 14h 18m 24.34±1.55s
37.993 N ± 9.1km 26.913 E ± 14.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.5 (ISK).

IZM 0.49 34 iPg 18 34.20 -0.1
eSg 18 41.20
YER 1.38 128 iPn 18 50.00 0.3
EZN 1.89 346 iPn 18 56.50 -0.4
KHL 2.08 80 ePn 18 59.20 -0.6
BNT 2.49 18 ePn 19 05.50 0.0
KCT 2.52 26 ePn 19 06.50 0.6
YLV 3.20 36 ePn 19 16.00 0.3
S.D. = 0.5 on 7 of 7 obs.

% APR 30, 1993 14h 20m 49.03±1.76s
37.968 N ± 10.4km 26.809 E ± 15.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.4 (ISK).

IZM 0.56 40 iPg 20 59.70 -0.7
eSg 21 07.70
YER 1.44 125 iPn 21 15.00 -0.2
EZN 1.89 349 iPn 21 21.50 -0.1
KHL 2.17 80 ePn 21 26.00 0.2
BNT 2.54 20 ePn 21 31.00 0.1
KCT 2.58 27 ePn 21 31.60 0.1
YLV 3.27 37 ePn 21 42.00 0.6
S.D. = 0.5 on 7 of 7 obs.

APR 30, 1993 14h 56m 51.63±1.31s
37.947 N ± 8.4km 26.763 E ± 11.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.8 (ATH), 3.7 (ISK).

IZM 0.60 41 iPg 57 02.70 -1.0
eSg 57 10.00
CIN 1.11 108 iPgd 57 13.00 0.6
iSg 57 31.00
PRK 1.35 344 ePn 57 15.60 -0.9
eSn 57 31.50
YER 1.46 123 iPn 57 18.00 0.0
EZN 1.91 350 ePn 57 24.50 0.1
KHL 2.21 79 ePn 57 28.00 -1.0
EDC 2.54 19 ePn 57 34.00 0.4
BNT 2.57 20 ePn 57 35.00 1.0
KCT 2.61 28 ePn 57 35.00 0.4
ELL 2.78 115 ePn 57 37.00 -0.1
NPS 2.83 199 ePn 57 46.00 8.2X
ALT 2.85 66 ePn 57 38.00 -0.1
KSL 2.90 128 ePn 57 41.50 2.8X
YLV 3.31 37 ePn 57 45.00 0.4
RDO 3.33 34 ePn 57 43.10 -1.7X
EYL 3.71 44 ePn 58 02.00 11.6X
VAY 4.67 317 eP 58 18.40 14.6X
S.D. = 0.7 on 12 of 17 obs.

% APR 30, 1993 15h 05m 38.69±1.54s
19.342 N ± 9.7km 96.083 W ± 15.6km
DEPTH = 33.0km (normol)
3.4mb (1 obs.)
VERACRUZ, MEXICO (525)

LVMM 0.39 311 (P) 05 47.25 -0.4
IISM 1.27 254 iP 06 00.00 -0.2
(S) 06 18.00
OXX 2.33 195 iP 06 16.00 0.3
(S) 06 42.50
PPM 2.42 264 iP 06 18.50 1.2
(S) 06 50.00
IIA 2.44 266 (P) 06 01.00 -16.1X
III 3.35 254 iP 06 30.50 0.4
(S) 06 58.50
ACX 4.35 236 iP 06 42.99 -1.3
YKA 44.98 348 eP 13 52.50 0.1
0.6s 0.30nm 3.4mb

S.D. = 0.9 on 7 of 8 obs.

* APR 30, 1993 15h 42m 02.61±1.28s
37.947 N ± 8.7km 26.851 E ± 11.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.8 (ATH), 3.6 (ISK).

IZM 0.55 36 iPg 42 13.20 -0.7
eSg 42 20.20
PRK 1.37 341 ePn 42 26.70 -1.1
eSn 42 43.80
YER 1.40 125 ePn 42 28.50 0.3
EZN 1.92 348 ePn 42 36.00 0.4
KHL 2.14 79 ePn 42 38.50 -0.4
EDC 2.52 18 ePn 42 45.00 0.7
KCT 2.58 27 ePn 42 46.00 0.9
ELL 2.71 115 ePn 42 47.00 -0.2
ALT 2.79 66 ePn 42 48.00 -0.2
KSL 2.85 129 ePn 42 58.70 9.8X
NPS 2.86 201 ePn 42 57.00 7.9X
YLV 3.27 36 ePn 42 55.00 0.1
VAY 4.72 317 eP 43 29.70 14.2X
S.D. = 0.7 on 10 of 13 obs.

% APR 30, 1993 16h 04m 24.22±1.90s
38.865 N ± 10.4km 26.623 E ± 18.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

IZM 0.68 133 iPg 04 37.80 0.0
eSg 04 49.30
EZN 0.99 347 iPn 04 43.00 0.1
EDC 1.76 33 ePn 04 55.00 0.0
BNT 1.79 34 ePn 04 54.90 -0.5
KCT 1.93 44 iPn 04 57.90 0.6
CTT 2.67 31 ePn 05 07.90 -0.1
S.D. = 0.5 on 6 of 6 obs.

& APR 30, 1993 16h 15m 07.62s
58.144 N 142.863 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.5 (AEIC).

CYK 1.95 6 eP 15 35.96 -5.2
eS 15 58.86
SNH 2.04 0 iP 15 37.53 -4.9
YAH 2.30 14 iP 15 41.28 -5.1
RAGM 2.43 338 eP 15 43.55 -4.5
TGL 2.62 0 iP 15 45.53 -5.3
S 16 14.35
CROM 2.62 357 iP 15 45.48 -5.5
BALM 2.91 5 iP 15 49.64 -5.3
eS 16 22.85
HIN 2.93 322 eP 15 50.81 -4.3
CTGM 2.94 15 iP 15 49.80 -5.5
GLB 3.34 352 iP 15 55.48 -5.5
eS 16 32.02
VLZ 3.48 331 eP 15 57.89 -4.9
KLU 3.70 337 iP 16 00.74 -5.3
MPA 4.08 308 eP 16 05.56 -5.7
13 obs. associated

* APR 30, 1993 16h 35m 24.16±0.84s
34.116 N ± 12.2km 26.388 E ± 8.0km
DEPTH = 33.0km (normol)
3.8mb (9 obs.)

CRETE (370)
YER 3.38 27 iPn 36 17.00 1.0
ELL 3.89 47 iPn 36 24.10 0.8
BGIO 7.69 106 eP 37 15.60 -1.2
HRI 7.84 94 eP 37 18.70 -0.2
SAGI 8.02 117 eP 37 22.30 1.0
eS 38 45.40
BSF 20.09 319 eP 39 57.40 -0.3
0.5s 2.40nm 3.8mb
CDF 20.18 321 eP 39 59.10 0.5
0.6s 3.45nm 3.9mb
HAU 20.43 319 eP 40 01.30 0.1
0.5s 2.05nm 3.7mb
LBF 21.25 314 eP 40 10.40 0.9
SSF 21.57 314 eP 40 13.40 0.7
0.5s 1.70nm 3.7mb
DOU 22.60 322 P 40 26.80 3.9X
0.7s 7.80nm 4.3mb

30d 16h

NUR 26.43 358 iP 40 59.00 -0.4
0.4s 1.70nm 4.0mb
HFS 27.33 346 eP 41 06.00 -1.6
0.3s 0.90nm 3.8mb
KAF 28.02 360 iP 41 12.10 -1.7
0.4s 2.00nm 4.2mb
YKA 78.75 343 eP 47 24.80 0.3
0.7s 0.20nm 3.2mb
S.D. = 1.0 on 14 of 15 obs.

APR 30, 1993 17h 40m 01.22±0.50s
42.536 N ± 4.2km 19.033 E ± 4.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.3 (TTG).

TTG 0.20 122 ePg 40 06.36 0.8
iSg 40 10.16
NKY 0.28 355 iPg 40 07.72 0.6
iSg 40 12.33
BDV 0.29 211 iPg 40 07.83 0.4
iSg 40 12.42
HCY 0.41 258 iPg 40 09.33 -0.2
iSg 40 15.90
BRY 0.51 315 iPg 40 11.36 -0.3
iSg 40 19.46
ULC 0.59 164 iPg 40 12.61 -0.6
iSg 40 21.83
PVY 0.70 85 iPg 40 14.63 -0.5
iSg 40 25.52
IVA 0.72 62 iPg 40 15.27 -0.2
iSg 40 26.31
PLE 0.84 18 iPg 40 17.33 -0.1
iSg 40 29.99
OHR 1.94 137 e(Pn) 40 39.00 4.4X
S.D. = 0.6 on 9 of 10 obs.

APR 30, 1993 17h 57m 45.57±0.62s
39.804 N ± 5.5km 21.932 E ± 5.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.4 (THE).

LIT 0.52 55 ePg 57 56.36 0.2
eSg 58 05.92
AGG 0.84 158 ePg 58 01.92 0.1
eSg 58 15.64
FNA 1.07 337 iPg 58 05.12 -0.6
GRG 1.21 17 ePb 58 07.92 -0.1
IGT 1.26 258 ePb 58 08.88 -0.2
PAIG 1.35 84 ePb 58 10.08 -0.3
KNT 1.54 28 iPb 58 13.20 0.1
OHR 1.57 327 e(Pn) 58 14.30 0.8
S.D. = 0.5 on 8 of 8 obs.

% APR 30, 1993 18h 46m 11.33±0.91s
60.381 N ± 5.9km 5.096 E ± 13.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.7 (BER).

ASK 0.11 26 eP 46 14.00 -0.2
EGD 0.13 150 eP 46 14.00 -0.4
SUE 0.70 346 eP 46 24.31 -0.8
eS 46 32.90
HYA 0.95 34 eP 46 31.71 2.3X
eS 46 45.88
KMY 1.18 176 eP 46 33.59 0.3
eS 46 49.84
FOO 1.22 359 eP 46 34.95 0.9
eS 46 51.49
NRA0 3.20 81 Pn 47 02.75 0.1
Pg 47 08.64
Sg 47 50.90
S.D. = 0.8 on 6 of 7 obs.

? APR 30, 1993 19h 16m 44.00±5.61s
11.957 N ± 51.9km 68.909 W ± 16.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)

TOV 2.32 202 ePn 17 23.40 0.4
eSn 17 49.70
LLAV 2.53 125 iP 17 25.40 -0.5
iS 17 56.00
OLLA 2.82 133 iP 17 30.50 0.4
iS 18 03.70

CEOS 2.96 169 iP 17 31.80 -0.2
iS 18 06.30
SDV 3.49 209 ePn 17 39.30 -0.3
eSn 18 17.40
GUAN 3.77 121 iP 17 43.80 0.2
iS 18 26.90
S.D. = 0.5 on 6 of 6 obs.

? APR 30, 1993 19h 22m 06.80±1.33s
40.377 N ± 19.1km 27.058 E ± 12.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

EZN 0.79 226 iPg 22 22.10 0.0
iSg 22 34.10
KCT 1.00 97 iPg 22 25.80 0.0
iSg 22 39.80
CTT 1.29 53 iPn 22 30.80 0.0
YLV 1.78 83 ePn 22 37.80 0.0
S.D. = 0.0 on 4 of 4 obs.

* APR 30, 1993 19h 50m 30.64±1.94s
37.963 N ± 11.4km 26.808 E ± 16.4km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)

Izm 0.56 39 iPg 50 41.30 -0.6
CIN 1.08 109 eP 50 51.00 -0.3
YER 1.43 125 ePn 50 57.00 -0.4
EZN 1.90 349 ePn 51 04.00 0.1
KHL 2.17 80 ePn 51 09.30 1.3
S.D. = 1.1 on 5 of 5 obs.

APR 30, 1993 20h 49m 17.94±0.68s
43.171 N ± 5.1km 7.723 E ± 5.8km
DEPTH = 22.6 ± 7.1 km
NEAR SOUTH COAST OF FRANCE (379)
ML 2.1 (LDG).

SBF 0.72 343 Pg 49 32.20 0.4
Sg 49 41.00
IMI 0.75 9 P 49 32.45 0.2
S 49 39.98
AURF 0.77 338 Pg 49 32.58 -0.1
Sg 49 40.68
SAOF 0.82 352 Pg 49 33.14 -0.4
Sg 49 42.77
CALN 0.84 314 Pg 49 33.83 0.0
Sg 49 44.19
AUTN 0.85 345 Pg 49 33.49 -0.6
FRF 0.88 297 Pn 49 34.50 0.1
Sn 49 44.30
LMR 0.90 281 Pn 49 35.10 0.3
Sn 49 45.30
TOUF 0.91 338 Pg 49 35.03 -0.1
Sg 49 45.76
LRG 1.03 286 Pn 49 36.40 -0.6
Sn 49 48.40
ENR 1.08 348 P 49 37.71 0.0
S 49 49.77
FIN 1.10 19 P 49 37.51 -0.4
S 49 49.56
STV 1.11 345 P 49 38.32 0.1
S 49 50.91
PGF 1.13 123 Pg 49 38.43 0.0
ROB 1.13 5 P 49 38.75 0.3
PZZ 1.41 342 P 49 43.22 0.0
S 50 00.12
PCP 1.49 23 P 49 43.50 -0.1
S 50 00.79
S.D. = 0.4 on 17 of 17 obs.

APR 30, 1993 21h 01m 18.12±0.82s
39.219 N ± 7.1km 22.016 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (THE).

AGG 0.31 129 ePg 01 25.00 0.3
iSg 01 30.00
LIT 0.95 22 iPg 01 36.16 -0.1
eSg 01 50.30
IGT 1.34 284 ePb 01 42.48 -0.4
PAIG 1.47 61 iPb 01 43.80 -0.8
eSb 02 02.36
FNA 1.64 343 iPb 01 47.56 0.5

GRG 1.76 10 ePb 01 49.10 0.2
SOH 1.90 32 ePb 01 50.88 -0.1
KNT 2.05 19 ePn 01 53.40 0.3
eSn 02 21.44
OHR 2.11 334 iPn 01 46.70 -7.2X
VAY 2.14 11 ePn 01 59.30 5.0X
SKO 2.78 351 ePn 02 11.10 7.6X
S.D. = 0.5 on 8 of 11 obs.

APR 30, 1993 21h 42m 17.10±0.75s
18.567 S ± 8.3km 177.850 W ± 7.6km
DEPTH = 543.7 ± 8.2 km
4.7mb (32 obs.)
FIJI ISLANDS REGION (181)

DZM 15.14 254 iPc 45 30.60 2.7
KUZ 18.97 196 eP 46 03.90 -0.9X
URZ 20.11 192 eP 46 12.50 -2.9X
NOZ 20.30 189 eP 46 15.60 -1.6X
MNG 22.71 193 eP 46 36.30 -2.9X
0.2s 19.00nm 5.4mb
CAW 23.27 194 eP 46 41.40 -2.8X
MRW 23.47 194 eP 46 43.60 -2.4X
QRZ 23.67 198 eP 46 46.30 -1.6X
THZ 24.43 197 eP 46 52.70 -2.0X
DSZ 24.74 199 eP 46 55.20 -2.2X
KHZ 24.88 195 eP 46 55.30 -3.2X
LTZ 25.55 197 eP 47 01.40 -3.2X
0.3s 31.00nm 5.4mb
WVZ 26.27 199 eP 47 08.60 -2.2X
ODZ 28.09 197 eP 47 23.80 -2.9X
LRCZ 28.50 199 eP 47 27.70 -2.8X
MHZ 28.52 199 P 47 27.90 -2.6X
SBCZ 28.53 199 eP 47 27.90 -2.7X
TLC 28.70 199 eP 47 29.80 -2.4X
TUZ 29.22 198 eP 47 35.40 -1.0
BCZ 29.82 200 eP 47 40.90 -0.7
SIZ 30.50 199 eP 47 47.00 -0.4
CMS 35.17 241 iPc 48 27.60 0.7
0.7s 13.00nm 4.7mb
STK 38.79 242 eP 48 57.50 1.0
0.5s 6.80nm 4.5mb
DHH 44.19 27 eP 49 40.28 0.8
WBZ 45.03 260 iPd 49 45.30 -0.8
0.3s 10.70nm 4.9mb
ePcP 51 14.50
eS 55 41.20
WRA 45.04 260 P 49 45.70 -0.5
0.7s 6.50nm 4.3mb
ASPA 45.13 255 iPd 49 46.50 -0.4
0.9s 46.30nm 5.0mb
iPcP 51 14.70
eS 55 42.50
eScS 58 40.70
FORT 50.21 245 eP 50 23.00 -2.0
WAR8 51.57 251 iPd 50 34.00 -1.1
0.4s 10.00nm 4.6mb
WKYJ 68.69 320 P 52 28.30 0.2
MAT 68.75 323 eP 52 28.00 -0.3
0.7s 16.44nm 4.7mb
TKSJ 69.49 319 P 52 32.60 -0.2
KUSJ 70.35 332 eP 52 37.30 -0.3
YONJ 70.65 319 P 52 39.70 0.1
LEM 73.23 268 iPd 52 55.00 -0.1
YSS 74.31 333 eP 53 00.00 -0.2
0.8s 20.00nm 4.7mb
ARN 76.82 43 eP 53 15.41 1.1
KMFM 77.05 39 (P) 53 18.09 2.5X
ISA 77.89 46 eP 53 21.29 1.1
0.8s 16.23nm 4.5mb
CMB 77.96 43 eP 53 20.72 0.3
0.9s 24.45nm 4.6mb
NJ2 78.76 309 Pd 53 26.00 1.3
0.8s 11.00nm 4.3mb
MDJ 79.03 325 Pd 53 26.50 0.7
1.0s 28.00nm 4.6mb
TNP 80.05 44 P 53 32.64 1.0
1.0s 17.82nm 4.5mb
SNY 80.83 320 Pd 53 35.80 0.6
CN2 80.86 322 P 53 35.80 0.4
0.8s 29.00nm 4.8mb
BMW 81.33 35 eP 53 38.55 0.7
RSO 81.33 12 eP 53 36.51 -1.2
SWW 81.38 11 eP 53 36.97 -0.8
0.9s 14.64nm 4.5mb
SHW 81.69 35 eP 53 40.64 0.9
SLKM 81.90 13 iPd 53 39.63 -0.8

CP2	82.17	12 iPd	53 40.85	-1.9						R1Y	151.42	342 iPKPd	01 09.10	5.3X
CRP	82.19	12 eP	53 40.01	-1.9						SKO	151.47	329 iPKP	01 09.40	5.4X
GMW	82.23	34 eP	53 42.88	0.6	HRI	146.60	303 iPKPd	00 59.80	1.9			i	01 21.80	
MGD	82.42	345 eP	53 41.00	-1.9	ISR	146.62	328 ePKP	01 03.00	6.5X	SSF	151.56	358 iPKPc	01 10.30	6.4X
ARUT	82.44	46 (P)	53 44.95	1.2	MLR	146.67	329 ePKPd	00 58.00	1.3			1.0s	23.20nm	
MCW	82.91	33 eP	53 46.59	0.9	HGH	146.77	6 ePKPd	00 57.70	1.3	LBF	151.62	357 iPKPd	01 10.30	6.2X
TTA	83.03	10 iPd	53 45.85	-0.2	MOX	147.12	349 ePKP	00 56.50	-0.6			0.9s	13.25nm	
	1.0s	13.85nm		4.4mb			e	01 03.00		AVF	151.84	358 iPKPd	01 10.50	6.2X
		e	55 55.27				e	01 03.00				0.9s	6.20nm	
PMR	83.11	13 eP	53 44.40	-1.9	PRU	147.12	345 iPKPd	00 59.50	2.4X	SMF	151.96	358 ePKP	01 11.00	6.5X
	0.6s	17.28nm		4.8mb			1.1s	22.70nm				0.8s	3.35nm	
MSU	83.67	46 eP	53 51.15	1.2			i	01 03.00		MFF	151.98	3 ePKP	01 11.00	6.5X
KLU	83.77	15 eP	53 48.42	-1.3	BRNI	147.36	302 iPKPd	01 00.40	2.4X			0.9s	18.65nm	
DUG	84.08	44 eP	53 52.44	0.6	ZNT	147.47	301 ePKP	01 00.90	2.7X	BGF	152.08	359 ePKP	01 11.30	6.6X
	0.6s	4.70nm		4.3mb	ENN	147.73	356 ePKP	01 01.00	3.0X			0.8s	11.95nm	
BALM	84.29	17 iPc	53 52.03	-0.4			0.7s	13.20nm		TCF	152.36	360 iPKPd	01 11.80	6.7X
BJI	84.62	315 eP	53 54.50	0.2	CSS	147.90	307 ePKP	01 01.00	2.2			0.9s	10.15nm	
	1.2s	23.00nm		4.7mb	SRO	147.98	339 ePKP	01 02.30	3.8X	LSF	152.39	1 iPKPd	01 11.70	6.6X
LTX	85.90	57 ePd	54 00.93	0.1	ZST	148.04	341 ePKP	01 02.00	3.4X			0.8s	14.65nm	
ALO	86.09	51 eP	54 01.59	-0.1	GRF	148.10	349 iPKPd	01 02.40	3.7X	MAF	152.42	359 ePKP	01 12.30	7.1X
	1.1s	14.33nm		4.6mb			id	01 07.50				0.9s	9.50nm	
TJY	86.10	312 eP	54 02.00	0.4	KHC	148.14	346 ePKP	00 58.50	-0.3	OHR	152.43	329 PKP	01 11.30	5.9X
PV08	86.13	47 eP	54 02.38	0.3			1.1s	18.90nm		LPL	152.86	353 ePKP	01 13.90	7.8X
ILT	86.22	360 iPc	54 01.00	-0.3			i	01 02.50				0.8s	5.50nm	
	1.2s	12.00nm		4.5mb			e	01 07.50		LPG	152.88	353 ePKP	01 14.00	7.8X
FBA	86.33	12 eP	54 00.69	-1.3			e	02 22.00				0.8s	4.55nm	
	0.5s	13.99nm		4.9mb	VKA	148.21	342 iPKPc	01 03.10	4.2X	RJF	153.33	1 ePKP	01 13.90	7.4X
NNT	86.92	284 eP	54 08.10	2.3X			i	01 08.30				0.7s	4.30nm	
XAN	87.08	307 Pd	54 06.90	0.6	MBH	148.23	297 iPKPd	01 03.20	3.6X	CAF	153.72	0 ePKP	01 15.10	8.1X
	1.0s	27.00nm		4.9mb	GEC2	148.38	345 PKP	00 57.70	-1.6			0.9s	5.40nm	
LCCM	87.49	40 eP	54 08.10	0.0			0.9s	1.02nm		FIR	153.72	345 ePKP	01 15.00	8.0X
HHC	88.11	314 P	54											

30d 22h

BCK	1.76	84	iPn	18	43.10	0.3
ALT	2.21	37	iPn	18	49.10	-0.2
PRK	2.55	320	eP	19	02.00	7.9X
KCT	2.93	359	ePn	19	00.00	0.4
EZN	2.99	328	iPn	18	59.70	-0.6
NPS	3.04	229	eP	19	02.40	1.4
EDC	3.06	352	ePn	19	01.00	-0.3
YLV	3.34	13	ePn	19	06.00	0.6
ALN	4.02	334	eP	19	14.64	-0.3
PAIG	4.52	307	eP	19	22.84	0.7
SOH	5.26	313	eP	19	32.60	-0.1
SRS	5.32	317	eP	19	33.04	-0.5
LIT	5.39	303	eP	19	34.68	0.2
KNT	5.74	314	eP	19	39.40	0.0
GRG	5.91	310	eP	19	42.29	0.5
HRI	7.23	122	eP	19	55.40	-5.1X
MML	7.54	128	eP	19	59.80	-5.0X
HMDT	7.73	129	eP	20	02.50	-4.8X

S.D. = 0.7 on 19 of 23 obs.

? APR 30, 1993 22h 38m 12.99± 9.41s
 18.074 N ±46.6km 64.960 W ±66.5km
 DEPTH = 10.0km (geophysicist)
 VIRGIN ISLANDS (91)

LPR	0.90	285	P	38	30.10	-0.1
CPD	0.91	268	P	38	30.20	-0.2
SJG	1.13	272	(P)	38	34.50	0.3
CLLP	1.54	270	P	38	40.90	0.4
PORP	1.60	270	P	38	40.90	-0.4

S.D. = 0.5 on 5 of 5 obs.

% APR 30, 1993 22h 50m 11.53± 1.43s
 17.269 N ± 9.3km 100.179 W ±16.2km
 DEPTH = 33.0km (normal)
 GUERRERO, MEXICO (59)

ACX	0.50	142	iP	50	22.17	0.0
			iS	50	30.42	
III	1.29	31	iP	50	32.99	-0.6
			iS	50	50.02	
PPM	2.32	39	iP	50	49.04	0.4
IIA	2.36	37	eP	50	49.00	0.2
			(S)	51	15.00	
MRX	2.61	339	iP	50	52.29	0.1
			(S)	51	19.56	
IISM	3.17	57	(P)	51	06.56	6.4X

S.D. = 0.5 on 5 of 6 obs.

% APR 30, 1993 23h 58m 22.92± 1.03s
 38.831 N ± 7.0km 27.129 E ±13.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

IZM	0.45	166	iPg	58	31.90	-0.1
			iSg	58	36.90	
EZN	1.17	328	iPn	58	45.20	0.4
EDC	1.62	20	ePn	58	51.00	-0.5
BNT	1.64	22	ePn	58	51.00	-0.9
KCT	1.70	33	ePn	58	52.60	-0.2
YLV	2.45	44	ePn	59	05.00	1.4

S.D. = 1.0 on 6 of 6 obs.

X = dots received for this 6-hour time period

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
AA1	XX							X	XXXXXX	X	X			X	XX	XXXX	XXX	X														
ABH		X				X		X	XX	X				X		X	XX	X	X		XX	X	X	X		X						
ABHA		X	X		X			X		X		X		X		X	X	X	X		X	X			X	XX			XXX	X	X	
ABM		X	XX		XX	X	XX		XX	X	XX	XX	X	X	X		XX	X	XX	XX	X											
ACO		XX	XX		XXXX	X		XX	XX	X	X	XX	X	X	XXX		XX	X	X	XX	X	XX			X	X	X	XX	XX	X	XXX	
ACTO	X								X		X			X					X				XX				X					
ACU					XX				X		X			X			XX				X								X			
ACX			X	X	XXX		X		X	X	X	X		XX			XX	XXX	XX		XX	X				XX	X			X	X	
ADAT												X				X		X							XX	X			XX			
ADE		X	XX			XX	X	X	X		XXX	X	XX	XX	X	X		XXXXXX	XXX	X	XX	XXX	X	X	XX		X		XX		X	
AD1						XX					XX		X			X		X		X	X	X	X	X								
ADK		X	XXXXX	X	X	X		XX	X	X	X	XX	X	X	XX		XXXX	X	XX	XX	X	X	X	XX	X		X	XX		X	XX	
AFR		X	XX	X										X		X	X	X	X	X	X			X	X		X	X				
AGG	X	X	XX	XXX	X	X	XXX	XX	XXXXXXXXXX		X	XXX	X	XXXX	X	X	XX	X	XXX	XXXXXXXX	X	X	XXX	XXX	XX	XX	X	X	XXXXXXXXXX	XXXXXX		
AGO						X					X		X		X			XX	XX		XX					X						
A1A		X	XXXXX		XXX	XX			X	XX	XXX	X	XXX	X	X	X	X	X	XXX	XXX	XXX						X		XXXX		X	
AKU		X	X		XXX	X		XX		X	X	X	X	X	XX	X	X		X	X		X	X			X				X	X	
ALN		X	XXX	X	X		X	XX	XX		X	XX	X	X	X	XXX	XX	X	X	XX	X	X	X	XX	X			XXX	X	XXXXXX		
ALO			XX	XXXX	X	X	XX	XX	XXXXXXXXXX	XX	X	XXX	XXXX	XXXXX	XXXXXX	X	XXXXXX	XX	X	XXXX	X	X	XX	X	XX		XXXX	X	X	XXXX	XXXX	
ALT		XX	X	X	X	XX	XXXXXX	X	X	X	XX	X	X	X		XXX	X	X	XX	X	XX	XX	XX	XXXX	XX		XX	X	XX	XXXX		
ANN			XXX			XX		X																					XX	X	X	
ANT	XX	X	XXX		XXX	XXXX	X	X	XX				XXX		X	X	XX			XX	X	X	X		X	X	X	X	XX	XXXX	XX	X
AOMJ			XX		XX					X		X		X		XX	XX	X					X	X			X		X			
APO		X		X	X	X	X		X	XX	X		X	X	X	XX	X	XX	X			X	XX	X					XX	X	X	X
APR				X		X		X				X	X	X		X			X	X	XX		X	X			XX	X	X		X	
AQU	X	XXX			X	XXXX	X		XX		X	X	X		X	XX	XX		X	X	XXXX	XXX	X		X			XXXX		XX	X	
ARAB	X	X	X	X	X	XX	XXX	X		XXX			X	X	X	XX	X		X	X	XX	XX	XX	XX	X		XX	X	XXX	XXX	X	
ARE	XXXX	XX	X	X	X	XXXXXX	X	XX	X	XX	X	XXXXXX						XX	X	X	X	XX				X		X	X	XXX	XX	
ARMA	XXXXXX	X	XX	X	XXXXXXXXXX	XX	XXXXXX	XXXXXXXXXXXX	XXXX	XXXX				X	XX	XXX	XXXXXX	X	XX	XX	XXXXXX				XXX	XXXXXX	X	XXX	XX	X	XX	
ARN		X	XXX	XX	XX	X	XX	X	XXXX	XX			XX		X	X	X	XX	XX	X	XX	X	XX			X	X		X	XX	X	
ARU	XXXXXXXXXX			XXXXXX	X	XX	X	XXXXXX		X												X	XXXX	X	X	XXX		XXX	XXX		X	XXX
ARUT	XX	XXXXX	X	X	XX	X	XXX	XXX	X	X	XXX	XX	XX	XX		XX	XXX	X	XX	X	X	XX	XXX	X	X	XXX	X	XXX	XX	XXXX	XXX	
ARV	XXXXXXXXXX			XXX	XX	XXXXX	X	XX					XX	XX	XX	XXXXX	XXXX	X	XXXXXX	XXXXXX	X	X	XXX	XXX	XXXXXX	XXXX	XX	XXXXXX	XXXX	XX	XX	
ASAJ	X	XXX		X	X	XX		XXX	XX	X	XXX			X	X	XX	XX				XX	X	XX		X	X	XX	XXX	X	XX	XX	
ASH	X	XXX	X		XXXXX	X		XXXX	X												X	XXXX							X	XXX	X	
ASK	X	X	XX		X	X	X	XXX						X		X				X	X	X		X			X		X		X	
ASPA	XX																															

[illegible]

[illegible]

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				
ECOG			X	XX	X		XX	X	X	X	XX	X		XX	X	X	XXXX		X	X		X	X						X		X	X		
ECRI		X	X	X		X		X	X	X	X	X		X		X	X	X	X	XX		XX				X				X				
EDC	X	X	XXXXXX	XX	XX	XXXXXX	XXX	X	XXXXXX	X	X	X	XX	XX	XXX		XXX	X	XXXXXX	X	XX	X	XX	XXX	XXXXXX	X	XXXXXX	X	XXXXXX	XXX	XXX			
EEO		X	X	XX	XXXXXX	XX	X	X	XXX	XX	X	XXX	X	X	XX		X	X		XX		XX		X					XX	X	XXX			
EGD	X	X	XX		X	X	XXX							XX	X	X				X	X	X		X			X	X		XX	X	X		
EGRA		X				X		X	X	X	X	XXXX	X	X	X		X	XX		X	X		XX							X	X			
EGUA		X	X	XX	X	XX		X	X	X	X	X	X	XX	X	X	XXXX		X	X		X								X				
EHOR		X	XXXXX		XX		X	X	X	X	X	X	X	X	X	X	XXXX		X	X		X	X							X				
EHUE			XX	X		XX	X	X	X	X	XX	X	X		X	X	XXX					X	X								X			
EJIF			XX	XX		XX		X	X	X	X		X			XX	X	XXX		X	X		X	X				X		X	X			
EKA	XXX	XXXXX		X	XX	X	X	X	XX		X	XX	X	XXXXXXXXXX	XXXXX	X	X	XXXXX	X	X	X	X	XXXXX	X	X	XXX		XX	XXX	X	X	XXXXX		
ELC		XX	X						XX	X	X	X	X	X	XXX		X	X		XX	X		XX	X		X	X	XX	XX	X	X	XXX		
ELF			X			X	XX		X		X		X	X			X																	
ELL12											X	X					X	X	XX		X	X												
ELL	X	XX	XX	X	X	X	X	XXX	X		XXX	X		X	XX	X	X	XXX	XX	XXX	XXXXX	XX	XXXXXX	XX	XX	XX	XXXX	XX	X	X	XX			
ELO			X			X						X		X			X	X												X				
ELT	XX	XXXX		XXXXX	X	XX	X	XXXX	X	X													XXXXXX	X	X	XXXX	X	XX	XX	X	X	XXX		
ELUQ	X	XX	XX	X	X		X	X	X	X	X	X				XX	X	XXXX		X	X		X	X										
EMON		XX	X					X								X	X	XXXXX		X	XX													
EMS		X			XXX	X	X	X			X	X	X	XX	X	XX	X	XXXXXX		X			XX					XX	X		XX			
EMUT		X	XXXX	X		X	XX	X	XX	X		X	XX		X	X	XXXX		X	X	XXX		X	XX		X	XX	X	X	XXXXXX				
ENIJ			X	X		XX	X	X	X	X	X		X	XX	X	XX	X	XXX		X	X		X	X			X	XX	X	X	XX	X		
ENN	XXXXXX				X	X	X		X	XX		X	X	XX		X	XXXX		XX	X	X	XX	X	X	X		X	XX	X	X	XX	X		
ENR	X	X	X		X	XX	X	XXX	X	X	X	XXXXXX	XX	X	XX	X			XX	X	X	X	XXXX	XX			X	X	X	X	XX	X		
EPF		X	X	X		X	X	XX	X	X	X	XX	X	X	X	XX	XX	XXXX	XX	X	X	X	XX	X	XX	X					X	X		
EPLA		X	X	X		XX		X	X	X	X	X	X	X	X	X	XX		X	X	X	X	X	X	X					X	XX			
EPRU			XXXXX		XX			X	X	X	X	X	X			XX	X	X	X	X		X	X		X	X				X	XX			
ERC	X	XX		X	XX																						X	XX		X	XX			
EROQ						X		X	X	X	XX	X	X	X			XX			X		XX								X	X			
ERUA		X			X			X				X		X	X	X	XXXXX			X	X	X									X			
ESEL						X		X	X				X			X		XX		X	X		X											
ETA		X	X											X	XX	X	X	XX		X		X						X			X	X		
ETER					X			X	X	X				X			XX			X						X				X	X			
ETOR			XXX		XX	X	X	X	X	X	XXX	X	X	X	X	X	X	XX		X	X	XX				X				X	X			
EVAL		X	XXX		XX		X	X	X	X	X	X	X	X	X	X	XX		X	X	X	X								X	XX			
EVIA		X	XXXX		XX		X	X	X	X	X	X	X	X	X	XX	X	XXXX		X	X		X	X					X	X	X	XX		
EWZ		X		X		X	X									X				X	X	X	XX		X					XX				
EYL	XXX	XXXXXXXX	XXX	XXX	XXXXXX	XXX	XXXX	XX	XXX	XXX	XXX			XX	XXX	XXXXXX	XX	XXXX	XXXXXX	XXX	XXX	XXXX	XXX	XXX	XX	XXX	X	X	XXX	XXX	XXX	XXX		
EZN							X	X	XX	X	XXX	XXX	X	X															XXXXXX	XXXXXXXX				
FAI		X	X		X	X										X	X	X				X		X				X			X			
FAM		X	X				X	X								X	XX	X		X			X	XX								X		
FBA	XXXXXXXX	X	X	XXXXXX	XXX	XXX	XXXX	XXXX	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX		XXX			
FCC	X	X	XX	XX	XXXXXXXX	XXXXXXXX	XXXXXX	X	X	XX	XX	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XX	X	XXXXXX	X	XX	X	XXXXXX	X	X	XX		XX			
FCH	XXX	XX	XX	X	XX	X		XX	X	X	XX	X	XX		XX		X	X					XXX	XXX	XX	XX	X	XX	XXXX	XX		X		
FDF		XX	X		X	X	X		XXX	X		X	X	X		X		X		XX	X	XX		X						X		X		
FEL	XXXXX	X		XX	X	X	XX	XX		X	X	X	XX	X	XX	XX	XX	XX	XX	XX	XX	X	XX	X	XX	X	X		XX	X	XX			
FHC		X				X	X				X			X	X	X		X	X		X									X				
FIA0			XX	X	XX	X	XX	XX	X	XX			X	X	X	X		X	XX	X		XX	X	XX	X		XX	X	XX	XXX	X	X		
FIN	X	X	X			X	X	X	XX	X	X	XX	X	X	XX	X				X	X		XX	X	XX		XX		X	X	X	XX	X	
FINC		X	X		X	XX	XX	X																										
FIR		X	XX		X		X			X	X		X	XX	X		X	XX		X	X		X				X	X	X	XX	X	X	X	
FLN	XX	XXXX			X	XXX	X	X	XX	X		XX	X	XXXX	XXXX	XXXXXXXXXXXXXXXX	X	X	X		XXX		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
FMW		X	XX		X	X		XXXX		X	X	X		X																				
FNA	X	X	XXXX	X		XXXX	X	X	X	X	XX	X	XXXX	X	X	XX	XXXX	XX		XXXX	X	XX	XX	XXX	XX				X	XXXX	X	XXXX		
FNO		XX	X		X	X	X	XXXX	XX	XXX		X			X		X										X			X	XX	X		
FOO	X	X	X	X		XX	X																							X	X	X		X
FORT	X	XXX	X		XX	X	X	XX	XX	XX	XXXX	X	XX	X		X	XX	X	XXX	X	X	X	X		XX		XX		X	X	X	XX		
FRB	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XX	XXXX	XX	XX	XXXX	XX	XX	XXXX	XXXXXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XX			
FRF			X	X	XXX	X	X	XXXX	X	X	XXXX	XX	XX	XXX	XXXX		XXXX	X	X	XX		X	XXX	XX					X	X	XXX	X		
FR1		X		XX			X							X		X																XX		
FRS	XX	X	X		XX	X	X			X				XX	X	XX	XXX	XXXX		XXXX		XXXX	XXXX	XXX	X			X	XX	X	X	X		
FRU	XX	XXX		XXXX	X	X	X	XXXX	X	X										X		XXXX	X	X	X		XX	XXXX		XXX				
FSA		X	X	X		X	XX	XX	X	XX	X	XX	XX	XX	XXXX	X	XXX		X	X	X	XX	X	X	X		X	X	X	X	X	X		
FUR	XX	XX		X	X	X		X	XXX	X	X	X		X	XX	X	X	XX		X	X				X	X			X	X	X	X		
FV1	XXX	XX		X		XXXX	XX	XX	XXXX		XXX	XX	X	X	XXX	X	XX	X	X		X	XX		X	XX		X	XXX	X	XXXX	X	X		
FVM		XXX	X					XXXX	XX	X	X	XXX	X	X	XXXX	XX	XXX	XX	XX		XX	X	XXXX	X	X	X	XX	X	XX	X	XXX	XXX		
FYU		X			X				X		XX			X	XXX	X	X				X						X	X	X	X				
GAC					X		X	X	X		X	X		X	X					X	X		XXX	XX		XX	X		XX	X	X	X	XX	
GAZ		X	XX		X	XX	XX	XX	XXXX		XXXXXX	XXX	XX	XX	XXXX	X	X	X			X	XXX	XXXX		XX	X	XX	X	XX	X	XX			
GBA	XX																																	

[illegible]

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		
JACH	XX	XX	XX	X			XX	X	XX	X	XX	XX		XX		X	X	X			XXX	XXX	XX		XX	X	XX	XXXX	XX		X	
JAO		XX	XXXX	XXXXXXXX	X	X	X	XXX	X	X	XXX	X	XXX	X	XXX	X	X	XXXX	XX	X	XXXXXX	X	X	X	X	XXX	XXX	X	X	XXX		
JBO		X	XX		X			X		X	X			X		X	X	X	X				X	X				X	X	X		
JCW		X	X		X	X		XX		X	X	X		X	X	X	X	X	X				X	X				X	X			
JMB		X	X				X				X			XX		XX	X	X										X			XX	
JNE										X	X	X								X	XXX	X									XX	
JNW				X					X	X	X	X		X					XX	X	XXX	X					X				X	
JSC			X					X	X	X	X	X	X		X				XX	X	XXX	XX	X		XX	X	X	X	X	X	XX	
JVI		XX	X			X	X	X	X	X		X	XX	XXX		X	X	XX	X	X		XX		XX	XX	XX	X		X	X	X	
KAF		XXXXXXXXXXXXXX	XXXXX	XX	X		X		X	XX	XXX	X	XXXXXXXXXXXXXX	XXXXXX	XXXXX	X	XXXXXXXXXX				X	X	X	X	XXXXX	XXXXXXXXXX	XXX	XXXXXX				
KAGJ		XXXXXX	X	XX	XX	X	X		XX	X	X		XX	X	XXX		XX	XX	X	X		XX	XX		X	X	X				X	
KAIM				X		X	X	X			X						X	X		XX	X	X	XXX	X	XX							
KAKJ		X	XX	X		X				X	X			X	XXXX	X	XXX	XX	X	XX			X			X	X	X			X	
KAS		XX					X	X	X	X	X	XX		X	XX	X	X	XXXXX		XX	X	X	X	X	X	XXXXX	XXX	X		XX		
KAT			X	X		X		X	X	X												X		X		X	XXX					
KBA		XXXXXXXX		XXXXXXXX	X	XXXXXXXX	XXX	XXX	XX	X		X	XXXX	XX	XX	XXXX	X	XX	XXX	X	XX	XXX	XXX	X	XX	XX	XX	X	XXXXXXXX	X	XXX	
KBN		X	X	XX	X		X	X		X	X	X	X	X	XX	X	X		X	XX		X	X				X	XX	XX	X	XX	
KBS		X	X		X					X	X			X	X	X	X		X	X		X									X	
KCT		XXX	XXXXXXXX	XX	XX	XXXXXX	XXX	X	XXXXXX	X	XXX		X	X	XX	XX	XX	XXXXX		X	XX	XX	X	X	X	XX	XXX	XXXXXXXXXXXXXX	XXX			
KDC			XXX	X	X	X		X	XX	X	X	X	X	X	X	X	X	X	X	X	XX	XXX	X	XX	X	XX	X	XX	X	XX	X	
KDZ		X	X	X	X			XX			X	X		XX	XX		XXX											X			X	
KEK		X	X	XX	X	XX			X	XX		X	X	XX	X	X	XXX				XX	X		XX			X	X	X	XX		
KER			X	X			XX		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	XX	XX	X		X		
KEV		X	X		XXX	X		X	X		X	X	X	X	XXX	XXX	X	X			XX	XX		X	X		XX	X	X		X	
KGM		XXXXXX		XX		X		X	X	X	X	XXX	XXX		X	X	XX	XXX	X	X	X	X	X	X	X	X	X	X	X			
KGT																																
KHC		XXXXXXXX	X	XXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XX	XXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
KHKI		XX	X				X	X	XX		X	XX	X	XXXX	X	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	
KHL		X	XX	XX	X	XX	X	XXXXX	X	X	X	X	XX	X	X	XX	XX		X	X	XXX	X	XX		XXXXXX	XXXXXX	XX	X	XX	XXX	XXXX	
KHT		XXXXXX	X	XXXX			X	X	XX	X	XX															X	X	XX			XX	
KHZ		XXXXXX	X	XXXXXXXXXXXX	X		XXX	X	XX	X	XXXXXX	X	X	XX	XXXX	X	X	XX	XXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
KIC		XXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX						XXXXXX	XXXXXX	XXX	X	XXXXXX	XXXXXX	X	XXXX			XX		X	XXX	X	XXXXXXXXXXXXXXXXXXXX		XXX					
KIP			XX																													
KIS		XX	XX	X		X	XXX	X	X	X	X																					
KIV																																
KIW		XXX		X	XXXXXX	X		XXX	X	X	X	XX		X	X	X	X	X	XXX	X		X	XX									
KKB		X	X	X	XX	X				X		XX		XX	X	XX	XXX															
KKM		XXX		XXX		X	X	XXX	XX	XX	XXXX		X	XX	XXX	X	XX															
KKN		XXX	XX																													

	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		
LIC	XXXXXXX	X	XXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXX	XX	XXX	XX	XX	XX	XX	X	XXXX	X	XX	XX	X	XXXX	X	XX	X	XXXXXXX	XX	XX	XXXXXXX	XX	XX	XXXX	XXXX		
LIT	X	X	XXXXXXX	XXXXXX	XXXXXXXXXX	XX	XXXXXXXXXX	X	XX	XX	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XX	XX	XX	XX	XX	X	XXXX	XXXX	XXXX	XXXX		
LJU	XXX	XX		XXXX	X	XX	X	XXX		X	X	XX	XX	X	XXXX	X	XXXX	X	XXXX	X	X	XXX	X	XX				XXX	X	X	XXX	X
LKO	X			X	XXXXXX	XXXXX	XXXXXX	XXX	X	XXXXXX	X	XXXXXX	XXX	XXXX	XXXXXX	XXXX																
LLA		X		XX			X	X					X		X		X	X													XX	
LLAV				XX							XX	X	X	X	X												X	X		X	X	
LLS	X				XXX	X	X	X	X	XXX	X	XX	X	XX	X	XXXXXX						XX					XX	X		XX		
LMN		XX	X	X	XXXXX	XX	X	XX	X	XXX	XX	X	XX	XXX	X	X	X			XX	XX	X	X	XXX	XX		X	X	XXXXXXXXXX	XX		
LMR				XX	X	XXX	X	X	XXXXX	X	X	XXXX	XX	XX	XX	XXXX			XXXX	X	X	XX	X	XXX	XX			X	XX	X	XXX	X
LNOR		X			X						X				X	X						X	X					X	X	X	X	
LNV	XXX	XXX	XX	X	XX	X		XX	X	X	XX	X	XX		XX		X	X				XXX	XXX	XX	XX	X	XX	XXXX	XX		X	
LOE	XXX	XXX		XXXX		X		X	XX	XX		XX	XX	X	X	XXXXXX		X		X	X	XXX		XX	X		X	XX	X		XX	
LOF	X				XXX	X					X		X		X	XX	X			X	X	XX										
LOMF	XXXXX	X			XX	X	X	XX	XX		X	X	XX	XX	X	XX	XX			X		X	X	X	X		XX	X		X		
LON	X	XXX		X	X	XX	XX	X	XXX	X		X	XX		X	X	X	X	X	X	X	X	X	X	X	X	X	XX	X	XX	XX	
LOR	XXX	XXXXXXXX		X	XXXXXXXX	X	XX	XXX	XXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	X	X	X	X	X	X	X	X	XX	XX	XX	X	XXXX	XX	XXX	XX	X	
LPB	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
LPF	XX	XXXXX		X	XX	XXX	X	X	XX	X		X	X	X	XXXXXX	XXX	XXXX	XXXXXXXXXX	XX			XXX	XX	XX	XX	XXXX	X	X	X	XXXX		
LPG	XXXXXX	XXX	XX		XXXXXX	XXX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXX	X	X	XX	XXXXXXXXXXXX	X	X	XXXX		
LPL	XXXXXX	XXX	XX	XXXXXX	X	XXX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXX	X	XX	XXXXXXXXXXXX	X	X	XXXX		XXXX	
LPO	XX	X	X		X	XX	XX		X	X	X	XXX	X	XXXX	XXX	XXXX	XX		XXXXXX	X	X	X	XXX	X	XXXX	X	XXXX	X	X	XX		
LPR				X		X		X	X			X	X	X	XX	X	X		X	X	XX	X	X	XX		XXX	X	X		X	X	
LRCZ	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		
MMK	X	X			X	X	X	X		X		XX	X		X	XXXX	X	XX	XX		X	X		XX	X			XX	X		XX	
MMN	X	X	X		X		X	X	XX		X	X			X		XXX	X	X		X	X		XX	X	XX		XX	XX		X	X
MMPM								XX	X	XXX	X	X								XXXX		X	X							X	XX	
MNDI			X																													
MNG	XX	XX	X		XXXXXXXXXX	X		XXX	X	X	XXX	XXXXXX	X	XXX	XXX	XXXXXX	X	XX	XXXXXX	XXXXXX		XXXXXX	XX		XXXXXX	XX		X	XXXXXX	XX	XX	
MNI								XX	X	XXXXXX						X	XX			XXXX	XXX		X	X								
MNK		X	XXXX		X	XXX	X	X	X	X	X																	XXX	X	X		
MNO	X	XX							X					X	XX	X	XXX				X	X	XX	XX	XX	X	XX	X				
MNS	XXXXX		X		XX	XXX	XX	X	X	X	X		X	X	X	X	X			XXXXX	XXXXXX	X	XXXX			X	XXXXX	XXXX	XX			
MOF	XXXXX	X			XX	X	X	XX	XX		X	X	X	XX	X	XX	XX	XX	XX		X		X	X	X	X		X	X		X	
MOH		X	X		XXXX	X		XX		X			XX	X	XX	X	X			XX	X				X		X	X	XX		X	
MOL	X	XX	XXX	X		XX		X	X	X		X		X	XX	X	XX			X				X		XXX						
MOR7	XX				X	X	X		X			X	X	XXXXX	XXXX					X	XX	X	X		X	X	X	XX	XXXX	X	XXXXX	
MORO				X									X	XX	X	X	X			X	X						XX	X	XX		X	
MOS		X	X	XX		XXXXX	X	X	XXXX		X											X	X		X	XX		XX		X		
MOTA	X	XX			XXXXX	X	X	X	X	X	XX	X		X	XXXX	XX	XX	XX	X	X	X		X	XXX	X	XX	X	X	XXXXX	X	X	X
MOW		X			XXXXX	X		XXX	X	X				XX	X	XX	X	X	X	XX	XX		XX	XX		X		XXXXX	X	X		
MOX	XX	XXXXX	X		XXXXXXXXX	X	XXXXX	XXX	XX	XX	XXX	XXXXX	XXXXX	XXXX	XX	XXXXXX	X	XX		X	X	XX	XX	XXXX	XXXX	XX	X	XXXX	X	X	XX	
MOY	XXX	X	X		XXX	X	X	X	XXXXX	X											X	XXX	X	X	XX	X	X	XX	X	X	XX	
MOZ	XXXX	X	X	XXXX				X	X	X			XXX	XX	X	X	XXXX	XXX	X	XX	X		XX	XX		X		XXXXX	XX	XX		
MPA	X		XX	X		X	XXXXXX	X	X	XXXXXX		X	X	XXX	XXXXX	X	XX	XX	X	X	XX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX	X	X		X	
MOZ		X	X		X	X	X		X							X				X	XX	X			X							
MRA	XX	XXXXX	XXXXX	X	XX	X	XXXXX	XX	XX	XXXX	X	XX	XX	XXXXX	XXX	XXX	XXXXX	XX	XX	X		XXXXXX	XX	XXX	X	XXXXXX	XXX	XXXX	XXX	XXXX		
MRCM								X	X	X	X									X	XX		X								XX	
MRL		X			X	X	X	X	X					X	X	XX	XXX	XX	XX												X	
MRRJ		XX		X	X				X	XXX			X	X	X	X	XXXXX	XX	X			X	X	XX		X	X		X	X		
MRW	X	XX			XXXXX	X		XXX	X	X	X	XXXXXX	X	XX	XX	X	X	X	XXX	XXX	XX	XXX	XX	XX		XX	XX	XXXXX	XX	XX		
MRWA	XXXXXX	X	XX	X	XX	X	X	X	XX	X	XX	XX	XXXX	X	X	XX	XX	XX	XX	XX	XX	X	XXX	X	XXX	X	XX	XXXXX	X	XX	X	
MRX		X	XX	XXX	XX	X		XX	XX	X	X			XXX		X	X	XXX	XX	X				X		XX	X	X	X	X	XXX	
MSCZ	X	X	X				X			X				X				X	X	X	X				X							
MSU	XX	XXXXXX	XXX	XX	X	XXXXXX	XX	XX	X	XX			X	XXX	X	XXXXXX	XXXXX	XX	X	XX	X	XXXXX	X	X	XXXX	XXXX	X	XXXXXX	XXXX	XXXXXX		
MSZ	X														X					X	X	X		X			XX					
MTA		XXXX			X	X	X	X	X																	XX			X			
MTD		X			X	XX				X	X	X	X	XX	X	X	XX	XX		X	XX		X								XX	
MTMJ	X	XX		XX			X	XX	X	XX			X	X	X	XX	XX	X	XX	XXX		X	XX		X		X	X	X	X	XX	
MTN	XXXXXX	XXXXXX	XXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXX	XXXXXXXXXXXX	XXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	
MTUM							X	X	X	X	X	X								XXXX	X										XX	
MTUR		X						X	X	X	X	X				XX	XX	X				X	X		X	X		X	X	XXX		
MTW	XXXX		X	XXXXXX	X		XXX	X	X	X			XXX	X	XXX	XX	X	X	X	XXX	XXX	XXX	XXX		X	X	XX	XXXXX	X	X		
MUN	XXXXXX	X	XX	XX	X	XX	X		XX	X	XXX	XX	X	XX	X	X	XX	XXX	XX	X	XXX	X	X	X	XXX	X	XX	X	XX		X	
MVM		XX	X			X	X		XXX	X		X	X	X		X		X	X	X	X	XX		X		X	X				X	
MYNC			X		XX		X	X	X	X		XXXX	X	X	XXX		XX			XX				X	XX		X	X	XX		XX	
MZA																																
NAI	X		X		X			X		X	X	X			X	XXXXX	XX	XX		X	X	X	X		X						XX	
NANU	XXXXXX	X	XXXXXX	XXXX	X	X	X	XXXX	XXXX	XX	XXXX		XXXX	XX	XX	XX	X	XX		XXXX	X	XXXX	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
NAO		X		XX				X		XXXXX						X						X	X	X		X	X	X	X		X	
NAV		X	X					X	X	X	XX	X							X	XXX	XXX	X			XX					X	XX	
NB2	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	
NCT	X	XX	X		X			X	XX	XX	X	X	XX	XXXX	X	XX	XX	X	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
NDI	XXXXXX			XXX	XXX	X	XXXXXX	XXXXXXXXXXXXXXXXXXXX	X	X	XXXXX	XXXXX			XXXXX	XXXXX	XX	XXXX	X	X	XXXX	X	X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	X
NEA		X		X		XX		X	X	X		XX	X	X	XX	X	X			XX	X	XX	X	XX	X	XX	X	XXX	X			
NEV			X	X	X							X	X			X								X	X	X						
NEW	XXXXXX	X	X	XX	X	X		X	X	XXXX	X	XX	X	XX	XXX		XXXX	XX	XX		XXXX	XX	XX		X	XX		XXX	XXX	X	XXX	
NGZ	XX	X		XXXX	X		XXX	X	X	X	XX	XX	X		X	X	X	XXX	X	XX	X	XX		X		X		XXX	X	XX	X	
NIJ	X	XX			X		XX	XX						X	XXX	XXX	X	X	XX	XX		X	XX	XX		X	X	X	X		X	
NJ2	XXX	XXX		XXX	X	X	XXXXXX	X	X	XXXX	X	XXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX		XX	X	X	XXXXX	X	XX	
NKA		XX	X			XX	XXX	X	X	X	X	X	XXX	XXXXX	X	X	X	XX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXX	
NKY	X	X			XX	XX	X	X	X				X	X	X	X	XX	XX	X	X	XX	XXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X	X	X	
NNA		X	XX	X	XXXXXX	XXXXXX		XXXXXX								XXX	X	XX	X			XX		XXXXXX	XX	XXXXXX	XXXXXX	XXXXXX	X	XX	X	XX
NNT	XXX	XX																													XXX	
NOZ	XXXXXX	X		XXXXXX	X	X	XX		XX	X	X	XXXXXX	X	XXX	XXX	XXXXX	X	XX	XXX	XXX	XX	X	X		XX	XX	XX	X	XXXXXX	XX	XXX	
NPS		X		X	XX		X	X					X			X		X	XX	X				X		X		XX	X		XX	
NRA0	XX	X	XX	X	XX	XX	XX	X	XXX			X	X	XX	XX	XX	X	XXX	XX	XX	XX	X	XX	X		XX	X	XX	XXX	X	X	
NR1	XX	XXXX		XXXX	X	XX	X	XXXXXX	X																							
NRZ	XX			X	X		X	X								X	X					X	X					XXXX			X	
NSD		X			X	XX	XX	X				X	X	X	X					X	X	X		XX	X	X		X	XX	XX	X	
NSS	XX	X			X			X	X			X	XX	X		X				XX	X											
NST	XXXXXX	X	X	XX	X	X	XX	XX	XX	X			XX	XX	XXX	XXXXXX				X	X	XXX		XX	XXX		X	XX	X		X	
NTYM	X	X	X	XX	XX	X		X		XX	X			XX	X	X			X	X		XX	X		X	X					XX	
NUR	XXXXXXXXXXXX	XXXXXXXXXX	X		X	XX	X	XX	XXXX	XXXXXXXXXXXX	XXXX	X	XXX	X	X	XX	X	XXX	X	XX	X	XXX	X	XXXX		XXXXXX	XXXXXXXXXX	XXX	X	XXX		
NVL		X			XXXXX		X	XX		XX	X				XX	XXX	XX	XX		X	XX		X	X	XX	X	X	X	XXX	X	XXX	X
NWAO		XX			XX	X	X		XX	X				XX	XX	XX		X		X	X	X		XX	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			
OLLA		X	X		X	X							XX		X	X		X				X	X					X	X	XX	X	XX	
OLY		XXX	X					X	X	XX	X	X	X	X	XXX	X	X	XXXXX	X	X		XXXX				X		XXX	X	X	X	XXX	
OPO		XXX			XX	X	X		X	XX		XX	XXX	X		X	XX	X	X	XX	XX												
OPT		X		X				XX	X	X	X			X		XX			X	X	X	XXX	XXX	X	XXXX	XXX	XX		X	X			
ORI	X	X	X	X			X	X	X			X	X	XX		X	X	XXX	XX	X	X	X	XX	X	XX				XX	X	X		
ORO	XX	XX			XX		X		XX						XXX		X	XX			XX		X	XX					X				
ORV	XX	XXX	X	XX	X	X	XX	XXX	XX	X	X	XXX	XX	XX	XXX	X	X	XX	XX	XX	XX	XX	X	X		X	XX	X	XXX	X	XX	XX	
OSS		X			XXX	X	X	X	X	X	X		XX	X	XX	X	XXXXX	X	XXXXXX		X	X	XX					XX	X			XX	
OUR		XX	XXX	XX	XXXXX	XX	XXX		XX	XX		X	XXXXXXX	XX	XXXXXX	XXXX	XXX	XX	XXXXXX	X	XXX	X	XXX	X	XXX	X	X	X					
OUZ					X	XX		XX				X	X	X	XX	XX	XXX	X	XX	X		XX			X	X		X		X		X	
OXX					X	XX	X		X		X	X	XX	XX	XXXXX	XX	XXXX	XXXX	XX	XX	XXXXXX	X	XX	X		XX	X	X	X	X		XXX	
PAB		XX	XXX	X		XXX	XXXX	XX	X	X	X		XX	X	X	XX	XXX	XXXX	XXXX	XXX	X	XXX	XX		XX		XX	X	X	X		XXX	
PAE		X	XX											X	X	X	XX	XX		X					X	X	X		X			X	
PAF		X	X			XX	X		X			XX	X		X	X		XX	XX		XX	XX											
PAG		X	X	X		X	X	XX		X	XX	X	X	X		XX		X	XX	X	X	XX	X	XX	X	X	XX	X	XX			XX	
PAHZ		X	XX	X		XXXX		X	XX		X	X	X	XX	X	XX		X	X	X	XXX	X	X			X		X	XX	XX		X	
PAIG	X	XXX	XX	XX	XXXXXXXX	XXXX	XXXX	XXXX	XX		XX	XXXXXXXX	X	X	XX	XXXX	XXXX	XX	XXXXXXXX	XX	XXX	XXXXXXXXXX	XX	XXX	XXXXXXXXXXXX	X	X	X	XXX	XXXX	XXXXXX	X	
PATZ														X																			
PAX			X	X		X	XXX	X	X		XXXX	XX	X	XXX	X	XXX	X	XX	X		XX	XX	X	XXX	XXX	XX	X	XXXX		X		X	
PCC		X		XX				X		X					X		X	X	X		X					X						XX	
PCH								X							XX		X	X	X				XXX	XXX	XX	XX	X	XX	XXXX	XX		X	
PCI						X		XX	XXX		XX						XX				XX											XX	
PCP	X	X		X		X	X	X	XX	X	X	XX	X		XX	X				X	X		X	XX	X	XX		XX	X	X	X	XX	X
PDB		X	XX	X		X		X	XXXX	X		XX	X	X	XXX	XXXXX	X	XX	XX	X	X	XX	XXX									X	
PEC	XX	XXXXXX	X	XXX		X	X	XXXX		X	XXX	X		XX	X	XX	X	XXX	X	XXX	XX	XXX		XXX	X	X	XX	X	XX	X	XXX	X	
PEL	XXX	XXX	XX	X	XX	X		XXXX	X	XX	XXX	XX	X		XXX	XXXX	XX	XX		X		X	XXX	XXX	XX	XX	X	XXXXX	X	XXX		X	
PET		XX		X	X	X		X	X											X		X	XX		X	X			X	X	XX		
PGB		X	X	X		X	X				X			XX	X	X		X											X	X	X		
PGC		X	XX			X					X			X	X	X	X	X	X	X	X		X	X		X	X		X			X	
PGD		X	X	X	XX	XXX	X	X	XXX	XXXX	X	XX	X	X	XX	XX	X		X	XX	X	X	XXXXXXXX	XX	XXX	XXX	X	XXX	X	XX	X	XX	X
PGF		XX			X	XX	X	X	X	X	X	X		XXX	XX	X	X	XXXX	X		X	X	XXX	XX		X		X	X	XXX	X	XX	X
PGP	X	XXXXXXXX	XXXXXXXXXXXX		XX	XX	XXXXXXXXXXXX		X			XX	XXXXXX	X		XX	XXXXX	X	XX	XXXXX	X	XX	XX	X	XXX	XXXXX		XX	X	X	X	X	X
PGZ		XXXX	X	XXXXX		X		XXX	X	X	XX	XXX	XX	X	X	X	XX	XX	X	X	XX	XX		XX	X	X	X		XXXXXX	X		X	
PHAM		XX	XX	XX				X	X	X	X	X		X		X	X	XX		XXXX		X	X		X	X						XX	
PHP	X	X	XXXX	X		X	X		X			X	X	X	X	X				XXXX	X	XX	XX	X	X	X	X	X	XXXX	X	XX		X
PII		X		X																					XX	X	X	X	X			X	X
PIJ	XXXXX		XX	XX	XXX	XXXX		XXX	XXXXXXXXXXXX		XXXXXXXXXXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	X	XX	X	XXXXXXXX	XXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
PJG	X	XXXX	X	X	X	X	X	X	XXX	X	XXX	X	X	XX	XXX	X	X	XXXX		XXXXXXXX	XXXXXX	XX	X	X	XXX	X	X	XXX	X	X	X	X	X
PKI	XXXX	XX																															

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PWA		X	XX		X		XX	X	X		XXX	X	XX	X	XXX		X	XX	XX	X		XX	XXX	XXX	X	X		XXX	X	X	X		
PYA		X	XXXX		XXXX	X	X	X	XXXX	X													X	X	X	XXXX		XX	XXX		X		
PYM					X							X	X		X	X		XX	XX			XX		XX									
PYT			X				XX	X	XX																					X			
PZZ	X	X	XX	X		X	XX	X	XXXX	XX	XXX	XXXXXX	XX	X	XX	X					XX	X	X	X	XXXX	XX		XXX	X	X	XX	X	
QASM		X	X			X					X	X	X		X	X					X	X				X	X						
QCP		X	X					X	X	X	XX	X			X	XX	XX	XXX		X	XX	X	XX		XX	X		XX	X				
QIZ		XX	XX		XX		X	XXX	X	X	XX	XX	X		X	X	XXX	XX	XXXX		XX	XXX	X	XX	X		XX	X	X	X			
QLP	XX	XXX	X	XX	X	XXXX	XX	X	XX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	XXX	XX	XX				X	XX		XX	XX		XXX	X	XXX	X	XX	X	XX	
QRZ	XXXXXX	X		XX	X	XXXXXX		XXX	X	X	X	XXX	XX	X	XX	X				XX	XX		XXXXXX		X	X	X		XXXX	X	X	XX	
QUE	XXX	XXXXX	X	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
QVP		X	X	XX	X			X	XX	X	XX	XX	X		X	XX	X	XX		X	XX		X	X									
QZH	X	XXXX															X	XX	XXXX		X	X											
RAB		X	X	XXXX		XXX			XX	X	XXX	X	X		X	XX	XX	X	XXXX		X	X				X	XX	XXXX	XXXX			X	
RAC									X	XX																X	X		X	X	X		
RAGM			X	X		X	XX	X			XX		X		X	XX	X	XX	X		XX	XX	X	XX	XXX	XXX	X	XXXX	X			X	
RAO	XX	X		X	X		X	X			X	X	X		X	X	X	XX	X		X	X	X		X		XXX				X	XX	
RAR		XX																								X	X						
RBL	XXX	XX		XXXXXXXX	XX	XX	XXXXXX		XXX	XX	X	XX	XX	XX	XX	XX	XXXX		X	XX		X	XX		X	XX		XXXXXXXX	X	X	X		
RDG		X		X	X							X	X	X	X	XXX	X	XX	XX														
RDN			X				X	X	X	X						X	XX	X	X	X		X	X	XXX	X		XXX				X		
RDO		X					X	X	X							X		X	X	XX		X	X		XX		X		X	X	X	X	
RDP				X	X	X	X	X	X												X	XX	X	X	X	X		X	XX	X	X		
RDT																					X	XX	X	XX									
RDW	X		XX	X						X	XXXX	X	XXX		X	XXXX	X	XX	XX		X	XXX	X	X			XXX	X			X	X	
RED	X		XX	X			XXXXXX	X	X		XX	X			X												XXXXXX	XXXXXX	XX		X	X	
REF			X				X	X							XX			X	X	X							X						
REVF	X																																
RFA	X	XX	XX	X	X	X	XX	X	XX	XX	X	X	XX	XX	XX			XXXX	XXX	XXXX		X	X	XX		X	XXX	XX	X	XX	XX	XXX	
RIV	X	X																															
RIY		XX			XX	X	XXX		XX																								
RJF	X	X	X	X	X	X	XXX	X	X	X	X	XXX	X	XX	XXXX	X	XXX	X	XXXX	X	X	X	XXX	X	XX	XX		XXXX	X	X	X	XXX	
RKG	X	XXX																															
RMN	X	X																															
RMP	X				X	X	X	X	X																								
RMO	XXXXXXXX	XX	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX		XX	XXX	XXXX	X	X	XX	XXXX	X	XX	XXXX	X	XX	XXXX	X	XXX	XXXX	XXXX	XX	XX	X	X		
RMW	XXXX	X		X	XX	X	X	X																									
RND			X				X	XX	X	X	XXXX		XX		XXX	X	XX	X	XX	X	X		XX	X	XXX	XX	XX	X	XXXX	X		X	
ROB	X	X	X	X		XX	X	X	X	X	XXX	X	X	XX	X						X	X	X	X	XXXX	XX		XX	X	X	X	XX	X
ROI	X	X	X	X	X	XX	X	XX	X	XXXX		X	X	XX	XX			XXX	XX		X	X	X	XX	XXX	XX	X	XXXX	X	X	XXXX		
RRL		X	XX			X	XX	X	X	XX	XX	X	X	XX	X						X	X	X	X	XX	X		X	X	X	XX	X	X
RS1	X		X			X	XXXXXX	X	X		XX	X	XXX	XXXX	X	XX	XX		X	X	XX	XXXX	XXXXXX		XXXXXX	XXXX		X	X				
RS2	X		XX	X		X	XXXXX	X		XX	X		XXX	XXXX	X	XX	XX		X	X	XX	XXXX	XXXXXX		XXXXXX	XXXX		X	X				
RSL	X	XX																															
RSM	XX	XX					X	X	X	X																							
RSNY		X	X		XX	XX	X	X	X	XXXX		XXXX		X	XX	X	XXXX	XX	XX	X	X						X	XX	X	XX	X	XX	
RSP	X	XXXX	X	X	X	X	XXXXXX	X	X	XX	X	X	XXXX	XXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XX	X	XX	XXXX	
RSSD	XXXXXXXXXX	X	X	XX	XX	XXXXXXXXXXXX	XX	XX	X	XXXX	XXX	XXXXXXXX	XXXXXXXXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RTBS	XX	XXX	X	X	XX	XXXX	XX	XXXX	XX	XX	XXXX	X	XXXX	XX	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RTCB	XX	XXXX				XXX																											
RTCV		X	XX	XXX		X	X	X	X	X	XX	XX	X	XX	XX	X					XX	XX	X	X	X	XXX	X	X	X	XX	XXX	XX	
RTLL	XXXX	X	X	XXX	XXXX	XXX	X	XX	XX	XX	XX	XX	XX	XX	XX	X					XX	X	X	X	XXXX	XXX	X	XXX	X	XX	XXXX	XXX	
RTPR	X																																
RTRS																																	
RUP		X					X	XX	X																								
RUV	X	XX	X			X	X																										
RVC		X	X																														
RYD	X	X			X	XX	X			XX		X	X	XXX	X																		
RZN	X	X	X		XX	X	X																										
SAGI	XX	X		XX	X	X	X	X	X																								
SAL		X				X					X	X																					
SALF																																	
SALJ		X	X																														
SAN	X	X	X	X	XX	X	X			X	X	XX																					
SAO	X	X	X	X	XX	XX			X	XXXX	XX																						
SAOF	XX				XX																												
SAW					X	X	X			X	X	X	X																				
SBA		XX				X																											
SBCZ	X	X	X	X		X	X																										
SBF	XX			XX	X	XX	X	X	X	XX	XX	X	X																				
SCM			X			X	XXXXXXXX	X	XXXX	X																							
SCX		XX																															
SDA	X	X	XXXX																														
SDF	X	X	X	X	X	X	X	X	X	X	XXXX	XXXXXX	XXXXXX	XXXX	X	XX																	
SDG		X		X		X	XXX	X		XXXX																							
SDI	X	XX	X		XX	X	X	X	X	X																							

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SEK	XXXXXX	XXXX			XX	X	XXXXXXXXXX	X	X	X	XX	X	X	XXXX	XX	XXX	XXXXXX	XXX	XXXXXXXXXX	X	X	XXXX	XXX	X	XXXX	XXX	X	XXXX				
SEW	X	XX	X		X	X	XXXX	X	X	XXXX	X	X	XXX	XXXX	X	X	X	X	XX	X	X	XX	XX					X	X	X		
SFG		X	X			X		X	X							X			X	X	X	X	X									
SFI	XXX	XXX	X	XX	XXX	XXX	XXX	X	X	XX	X	X	X	XX	X	XXXX	X	X	XXX	XXXXXX		XX	XXX	XXX	X	XXX	XXX	XX	XX			
SGAM		X	X		X	XXXX					X		X	XX	X	XX	X	XX	X	XX	X	XX	XX									
SGO	X	X	XX	X	X	X	XXX	XX	X	XX	XX	X	X	XX	XX	X	XXX	X	X	X	X	XXX	XXX	XX	XX		XX	XXXX	X	XXXX		
SGS									X			X	X					XX	X	X			X						X	X	X	
SHE		X			XX		X	XX	X															X	X			X				
SHL		XXXXXX					XXXX			XX	XXXX		X	X	XXXX	XX																
SHMJ	X	XX	X						X			XX	XX		X	X		X	X	X		X	X	XX	XX	X				XX		
SHNJ	XXXXXX			XX	X	X			X	X			X	X	XX	X		XX	X			XX	XX				X	X	X			
SHW	XXX			X	X	X	XX	X	XX			X	X	X	X	X	X	X	X			X		X	X		X	X	X	X	X	
SHWJ	X	XX	X		X		X	X	X	X		X	X	X	XXX	X		X	X	XX	X			XX	XX	X	X		X	XX		
SIT	X	X		X	XX	X			XXX			X	X	X	X	X		XX	X	X		X						X				
SIV	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
SIZ	X	X					X					X		XX	XX	X		X	X	XX	X		X				XX	X				
SJG				X		X		X	X			X	X	X	X	X		X	X	XX	X	X	XX			XXX	X	X		X	X	
SJI	XX						X	X		XXX													XXX									
SKO	XXXXXXXXXX	XX	XXXXXXXXXX	XX	XXXX	XX	XXX	XX	XX	XX	XX	XXXX	XXX	X	XXXXXXXXXX		XXX	XXXXXXXXXX	X	XX	X	XXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SKT	XX	X		X	XXXXXXXX	X	X	XXXX		XXXX		XX	X	XXX	XXXXXX	X	XX	XX	X	X	XX	XXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SLA	X	X	X		XXX	X	X			X	X	X	XX	X	X	XX	XXX	X	X	X	XXX	X							XX	X		
SLB				X	X	X	X		X	X		X				X		X		XX	X											
SLE	X			XXX	X	X		X	X	X		X	X			XXXX	X	XXXX			X		XX	X			XX	X		XX		
SLKI	XXX						X	X	XX									X								XX		XX	X			
SLKM	XX	XXXX	X	X	XXXX	XXX	XXXXXXXX	XXX	XXXXXXXX	X	X	XXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SLL							X	XXX		X	XX	XX			XX	X					X					X		X				
SLM	X															X	XX	X			X	XX				X		X				
SLR	XXXXXXXX	XXXX	XXXX	X	XXXX	XXXX	XX	X	XXX	X	X	XXXX	XX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SMF	XXXXXX	XXX	X	XXXX	XXXX	XX	XX	X	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
SML	X	X	XXX	X		X	XXXXXXXX	X		XXXX	X	X	XX	X	XXX	XXXX	X	XX	XX	X		XX	XXXX	XXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SMY	X	XXXX			X				XX	X			X	X	XXXX	X	X	X	X			XX	X	X	X		X	X		X		
SNA	XX			XXXX	X	X	X		X			X	XX	XXXX	X	X	XX	X	XX			X		X			X	X	X			
SNF	XX	XXXX		XX	X	XX	X	X	XX	X		XXX	X		XXXX	X	XXXX	X	XXXX	X		X	X	X		X	X		X			
SNG	XXXXXX			XXX	X	X	XXX	X	X	XX	X		X	X	X	XX	XX			XX	X	XX	X			XXXX						
SNH				X	X	XX	X									X	X			XX		XX	X	XX	X	X						
SNY	XXXXXXXX	XXXX	XX	XX	XXXX			X	XX	X	X	XXXX	XXXX	XXXXXXXXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SNZO	XXX			XX												X	XXXX	X	XX			X										
SOC	X	X	X	X	XX	X		X																								
SOH	X	XXXXXXXXXX	XXXXXXXXXX		XX	XXXX	XX		XX	XXXXXXXX	XXX	XXXX	XXXX	XXXX	X		XXXXXXXXXX	XX	XXX	X	XXXXXXXX	X	X	X	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	
SOI	X	X	X	XXX	XXX	X	X	X								XXX	X	X	XX	X	X	XX	XXX	XX	X		X	XXXX	X	XX	X	
SOP							X	X	X							X		X	X												XXX	X
SPA	XX	XXXXX	X	XXXXX	X	X	X	X	XXXX	XX	XXX	XXXX	X	X	XX	XXXX	XXXX		XX	X	X	XX	X	X	X	XX	XXX	X	XXX	XX		
SPC	XXXXXXXX	XXXX	XX	X	XXXX	X	XX	X	XXX	XXXX	XXXX	XXXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
SPU	X	XX	X		X	XXXXXXXX	X	X	XXXX	X	X	XXX	XXXX	X	XX	XX	X	X	XX	XXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SQTA	X	XX		XXXX	X	X	X	X	X	XX	X		X	XXXX	X	XX	XX		X	X		X	XX	XX	X		XXXX	X	X	X		
SRN	X	X	X	X		X	X	X	X																							
SRO	XXXXXXXX	XXXX	X	X	XXX	XX	X	XXX	XX	X	XXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SRS	X	XX	XXXX	XXXX	XXXX	X	XXXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SRU	XX	XXXXXXXX	XXX	XX	XX	XXXX	XXXX	XX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSB	XX						X		X	X	X				X	XX	X			XX		XX										
SSE	XXXXXXXX	X	XX	XXXX	X	XXXX	XXXX		XXXX	XX	X	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSF	XXXXXXXXXXXX	XXXXXXXXXXXX	X	XX	X		X	XXXX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSK	X	X	XX	X		X	XX	XX		X	X	X	X	X	X	X	XX	X	XX	X	XX	XX	X	X	X	X	X	X	X	X	XX	
SSR	X	XX	XX	X		X	X	X	XX	X	X	XX	X	XX	X	X			X	X	XX	XX	X	X			XX	XXXX	X	X		
STH	X	X	X	XX	XX	X		X	XX	X	X	X	X	X	X																	
STK	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
STS	X	X																														
STV	X	X	X		X	XX	X	XX	X	X	X	XXXX	XX	X	XX	X																
SUA	X		XX	X		X	XXXXXXXX	X	X	XXXX	XX	X	XXX	XXXX	X	XX	XX	X														
SUE	X		X	X	X	XX																										
SUR	XX			X	X										X	X		XXXX	X	XX		XXXX	XX	X			X	X	X	X	XX	
SURF	XX				X					X	X				X		X	XX	X			XX	X	XX								
SVA	XX	XXX	X				X	XX		XX				X	X	X	XXXX	X	X						X	XX	X				X	
SVB				X	X											XX	X	XX														
SVE	XXXXXXXX	XXXX	X	XX	X	XXXX	X																									
SVV				X	X			X																								
SVW	XX	XXXX	X	X	X	XX	XX	XXXX	X	X	XXXX	X	X	X	XXXX	XXXX	XX	XX	XX	X	XX	XX	X	XX	XX	X	X	XXX	XXX	XXXX	XX	XX
SWI							X	X		XX				XX	XXX	X	XX															
SWZ	XXX	XX		XX	X	XXXX	XXX	X	X	X				X	XX	XX	XX	XXX														
SYI	X		X			X	XXXX	X	X					XX	XXXX	X	X	X	X	XX	XXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SZP	XXX	X	XX	XX		X	X	X	XXX	X	XX	X		XX	X	XXX	X	XX	X	X	XXXX	X	XXXX	X	X	XXXX	XX	X	X	XX	X	X
TAB	XX	X	X				X	XX	X	XX	X	X		X		XX	X	X	X													

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TCW	XX			XXXXX	X					X	XX	X		X	X	X	X	X	X	X	X	X	X	X	XX	XXXXX	X	X		
TDS	X	X	X	X	X	X	X	X	X	X	XX	XX	X	X	XX	XXX	X	XXX	X	X	XXX	XX	XX	XX	XX	XX	XX	XX	XX	XX
TEH				X	X	X	X	X	X	XX	XX	X	X	X	XX	X	X	X	X	X	X	XX	X	X	XXX	XX	X	XX	X	X
TEHZ	X	X	X	XXXX	X				X	X	XXX	XX	X	XXX	XX	X	X	XXX	XX	XX	XX	XX	X	X	XX	XX	XX	XX	XX	X
TGL			X	X	X	XX	XX	X	XX	XX	X	XX	X	XX	X	XXX	X	X	X	X	X	XX	X	XXX	XXX	XXX	XXX	XXX	XXX	X
TGY	X	XX	XX	XX	X	X	XX	XX	XX	XX	XX	XX	X	X	XX	X	XXXX	XX	X	X	X	X	X	XX	XX	XX	X	XX		
THE	X	X	X	XXX	XX	XXXX	XX	X	X	XX	XXX	XX	XXX	XX	X	XX	XX	XXXX	XX	X	XX	XXXX	X	XXX	X	XX	XX	XX	XX	X
THY			X	X	X					X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THZ	XXXXXX	X		X	XXX	X	XXX	X	X	X	XXXXXX	X	X	X	XXX	XX	X	X	X	X	XX	XXX	XXXXXX	X	X	X	XXXXX	X	XX	
TIA	XXXXXX	X	XXXXXXX	X	X	XXX	X			XX	XXXXX	X	XXXX	XXXXXXXXXXXXXXXXXX	XX	XXX	XXXXXX							XXXX	XX	XX	XX	X		XX
TIC	XXXXXXXX			XXXXXX	XX	XXX	XXXXX			XXX	X	XX	X	XXX	X	XX	XX	XX	X	XXX	X	X	XX	X	XXXXXXXXXXXXXXXX	XX				
TIK	XX	X		XXX	X	X	XXXX														X	XXXX		X	XXXX	X	XXXX	X	XX	XX
TIO	XX	XXX	X	X	X		X	XXXX	XX	X	X	XXX	XX	XX	XXXXXX	XX	XXX	X	X	X	X	X	X	X	X	XX	XX	X	XXXX	XX
TIR	X	X	XXXX	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XXXX	X	XX	XXXX	X	X	X	XXXX	X	XX
TIY	XXXXXXXX	X	XXXXXXX	XXXXXXXXXXXX	X	XXX	XX	X	XXXXXX	XXXX	XXXXXXXXXXXX	XXX	X	XXXXXX	XXX	X	XXXXXX	XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
TKL	X	X								X		X	XXXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TKSJ	XXXXXX	X		XX	X	X	XX	X	X	X	X	X	X	X	XXXX	XX	XXX	XXX	X	X	X	X	X	X	X	XX	X	X	X	XXX
TLG	X	X	X			XX				X	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	XX	X	X	X	XXX
TLE	XXXX									X	XXXXX					XX	XXX	X												X
TMA	X	X		XXX	X	X	X	X	X	XXX	X		X	XXX	X	XXXXXX											XX	X		XX
TMW				X	X	X										X	X	X	X						X					
TNE								XX	XX	XX				XXXX													XX	X	XXXXXX	
TNP	XX	XXXXXXXXXX	XX	X	XX	X	XXXX	X	X	X	X	X	X	X	XX	XX	XX	XXXX	XXXXXX	XXXX	X	X	X	X	X	X	X	X	X	XXX
TNR	XX	XX		X	X	X	X								XX	XXX					X	X	X	X	X	X	X	X	X	X
TNS	XXXXX	X		XX	X	X	XX	XX						XX	XX	X	XX	X	X	X	X	X	X	X	X	XX	X	X	X	X
TOO	XXXXXXXX	X	XX	XXXX	XX	X	XX	X	XXXXXXXXXXXXXXXXXX	XX	X	X	XX	XXX	XXXXX	X					XXXXXX	XX	X	XXX	XXXX	XX	X	XXXX	XX	
TOUF	XX			XX			X	X	X	X	X	X	X	X	XXX	X	X	XX	XX	X	XX	XX	X	XX	X	X	X	X	X	X
TOV	XXXXXXXXXXXXXXXXXXXX	XXXX	X	XX			X	XX				XX	X	XXXX	XXX	XX	XX	X	X	XX	XXX	XXXX	XXX	XX	X	XXXXXXXX	XXXX	XX		
TPE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	XXX
TPMT	XX													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPNV	XX	XXXXXX	XX	XX	X	X	XXX	X	X	XXXX	X			X	X	X	XX	XX	X	XXXXXX	XXX	X	X	X	X	X	X	X	X	XXX
TPP		X	X	XXX	X	X		X		XX	X			X	X	X	X	X	X	X	X	X	XX		X	X	X			
TPR			X	X	X	X				X					X	X	XX					XX								
TPT	X	XX	X		X	X								X	X	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X
TPX	X	XXX				X	X			X		XXX	X	X	XX	X	XX	XX	XX	XX	XX	XX								X
TRF		X	X		X	XXX	X	X	XXXX	X	XX	X	XXX	XXXX	X	XX	X	XX	XX	X	XX	XX	X	XX	XX	XX	XX	XX	XX	X
TRI	XXX	XXXX		XXXX	X	X	XXXXXXXXXXXX		X	X	XXX	XX	XXXXXX	XXXX	XX	XX	XX	X	XX	XXX	XXXX	X	XXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX
TRN			X	X	XXX	X	X		X	XX	X			X	XXX	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	XXXX
TRO	XX	X			X									XX	X	X	X	X	X	X	X	X	XX	X	X	X	X	X	X	X
TRT	XX						XXX			XXX															XX					
TSRJ	X	XX		XX	X			XX	X	XX			X	X	X	XXXX	X	XX	X	X	X	XX	X	X	XX	X	X	X	X	X
TTA	XX	XXXX	X	X	XXXX	XXX	XXXXXXXX	X	X	XXXX	X	X	XXX	XXXX	XX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
TTG	X	X		X	XX	XX	X	X	X	X	X	X	X	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XXXXXX	X	XXXXXX	X	XXXXXX	X	X
TTH	X			XXX	X		XX	X	X	X	X	XX			XX						XX					X	XX			X
TUC	XXXXXXXX		X	XX	XX	X	XX	X	X	X	XX	XX	X	X	XX	XXXX	XXXXXXXXXX	X	XX	X	XXXX	X	X	XX	X	XXX	X	XXX	XX	XX
TUH																X					X	X	X	X	X	X	X	X	X	X
TUZ	X	XXX	X		X	X	X	XX		X				X	XXX	XXX	X		X	XX	X	X	X	X	X	X	XXX	X		XX
TVO		XX	X		X									X	X	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X
TZL		X	X		X	XX				XXX			X	XX	X	XX	X	XX	X	XX	X	XX	X	XXX	XXX	XX	X	XXX	X	X
UCC	X	X	X		X					X				X	X	X	X	XXXX	X	X	X	X	X	X	X	X	X	X	X	X
ULC	X	X		X	XX	XX	X	X	X	X			X	X	X	X	XX	XX	X	X	XX	XXXXXX	X	XXXXXX	X	XXXXXX	X	X	XXXX	X
ULM	X	XXXXXX	XXXXXXXXXXXX	XXXXXX	XXXX	X	XX	X	XXX	X	XX	XXXX	X	XXX	XX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XX	X	XXXX	X	XXX
UNM		X	X		X	X								XX		X	X	XX	XX					XX						XX
UPA			X	XX	XX	XX	XXXX	X	XX	X		X										XX			X	XXXX	X	X	X	X
UPP	XX	XXXX	X	XXXX	X	X	X	X	XX	XX	XX	XXXXXX	X	X	X	X	X	X	X	X	XX	XXX		XX	XX	X	XXXX	XXX	XX	X
URZ	XXXXXX	X	XXXXXXXXXX	X	XX	X	XXX	X	XXX	XXXXXXXXXXXX	X	XXX	XXXX	XXXXXX	XX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XXX	XXX	XXXX	XXXX	XXXX
UYO			XX	X	X	XX	XX	X	X			XXX	XXXX			XXX	XXXX	X	X	X	X	X	X	X	X	XXX				XXXX
UZD	XX	XX	X		X	X	XXX						X	X	X	X	XX	XX	X	XX	XX	X	X	X	X	X	X	X	X	X
UZH	XXXXX	X		XX	X	X	XXXX	X	X							X						XX		X	XX	X	XX	X	X	X
VAH	X	XX	X		X	X								X	X	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X
VAI	X	XX		X	XX	X	X	X	XX	X				XXX	X	X	XXXX	X	X	XX		XX	X	XX		XX	X	X	X	X
VAN	X	XXXXXX		XXXX	X	X	X	X														XXXX	X	X	XX	X	XX	X	XXX	XXX
VAO	XX	X		XXXX	X	X	X	X	X	X	X	X	X	X	XX	X	XX	XX	XX	XX	XX	XXXX	XX	X	X	X	X	XXXX	XXX	XXX
VAY	XXX	XXXX	XXX	XXXXXXXXXXXX	X	XXXX	XX	XXXXXXXXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX
VBEM			X			XXX				XX	X			X	X							X	X							
VBY	XXXXXXXXXX	X	XXXXXXXXXXXX	XXXX	XXXX			XXX		XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
VDL	X	X		XX	X	X	X	X		X				X	XXXX	X	XXXX	XX				X				X	X	X	X	X
VGB	XXXX	X	X	X	XX	X	X	X	X	XX			X	X	XXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VIPM	X	X		X			X			X	XX			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VITF	XXXXX	X		XX		X	X	XX	XX	X	X	X		XX	XX	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X
VKA	X	XX		X	X	X	X	XX		X	X			X	XXX	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X
VLA	X	XX		X	X	X																			X	X	X	X	X	X
VLI	X	XX	X	XX	X	X	XXX	X	XX		X	X	XX	X	X	X	X	X	X	X	XX	X	XX	X	XX	X	XXX	X	X	X
VLO	X	X	X	X			X	X	</																					

[illegible]

The following stations each reported less than 10 readings:

[illegible]