

## 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  $\Delta$  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 ( $\mu m$ ) 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  $\eta$  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.

#### References

- Bolt, Bruce A. (1968), Estimation of PKP Travel Times, *Bull. Seis. Soc. Am.*, **58**, pp. 1305-1324.
- Choy, George L. and P. G. Richards (1975), Pulse Distortion and Hilbert Transformation in Multiply Reflected and Refracted Body Waves, *Bull. Seis. Soc. Am.*, **65**, pp. 55-70.
- Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1-15.
- Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.
- Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105-1130.



UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

JANUARY 1994

by

U.S. Geological Survey  
NATIONAL EARTHQUAKE INFORMATION CENTER<sup>1</sup>

Open-File Report 94-601



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1994

<sup>1</sup>USGS, Denver, Colorado



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JAN 01, 1994 02h 32m 12.49± 0.16s
4.627 N ± 2.7km 127.640 E ± 4.0km
DEPTH = 123.0km ( 7 depth phases)
5.1mb ( 59 obs.)
TALAUD ISLANDS, INDONESIA (263)
Mw 5.1 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 10C
Centroid Location:
Origin Time 02:32: 9.0 1.0
Lat 4.50N 0.10 Lon 127.39E 0.13
Dep 125.5 5.8 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr= 4.63 0.73 Mtt=-0.85 0.84
Mff=-3.78 1.31 Mrt= 0.07 0.87
Mrf= 1.68 1.21 Mtf= 1.64 0.90
Principal Axes:
T Val= 4.98 Plg=78 Azm=289
N -0.22 8 159
P -4.76 9 67
Best Double Couple:Mo=4.9*10**16
NP1:Strike=148 Dip=36 Slip= 77
NP2: 344 55 100

DAV 3.19 320 eP 33 02.50 0.4
BIP 3.83 339 iPC 33 09.00 -1.7
CTB 4.27 307 ePd 33 16.00 -0.6
CGP 4.80 323 eP 33 12.00 -11.8X
MAP 6.72 328 eP 33 41.00 -9.1X
PLP 7.01 338 ePc 33 32.00 -6.0X
TSM 9.74 268 ePc 34 30.60 -0.3
KKM 11.46 278 ePd 35 00.00 6.3X
MKS 12.74 220 iPC 35 14.50 4.2X
BAG 13.61 330 ePc 35 26.50 4.7X
MTN 17.70 169 eP 36 31.00 18.2X
0.3s 61.00nm
KNA 20.28 177 iPC 36 40.30 -0.2
LAT 22.35 120 eP 37 15.00 13.9X
KGM 24.42 265 ePc 37 20.10 -1.0
IPM 26.53 271 ePd 37 41.30 0.6
KAGJ 26.60 6 eP 37 41.00 -0.1
MBL 26.75 196 iPC 37 42.00 -0.5
SSE 27.02 348 Pd 37 45.70 0.8
1.0s 23.00nm
0.7s 21.20nm
eS 42 41.10
NST 29.17 294 eP 38 05.00 0.5
GYA 29.56 319 iPC 38 08.40 0.5
1.0s 24.00nm
TKSJ 29.81 11 P 38 09.90 0.0
WKYJ 30.36 13 P 38 14.70 -0.1
WARB 30.64 182 iPC 38 18.50 1.2
0.3s 6.00nm
BDT 30.73 296 eP 38 17.00 -1.1
YONJ 30.88 9 P 38 19.30 -0.1
KMI 31.41 313 P 38 25.20 0.8
1.0s 30.00nm
TSRJ 31.71 13 P 38 26.00 -0.5
IIDJ 32.14 16 eP 38 29.90 -0.4
MEEK 32.28 195 iPC 38 31.00 -0.7
0.9s 74.00nm
TIA 32.89 344 P 38 36.70 -0.1
1.0s 110.00nm
CHJJ 32.97 17 P 38 35.80 -1.7
MTMJ 33.15 15 P 38 38.10 -1.1
MAT 33.21 16 eP 38 38.00 -1.7
1.1s 30.38nm
KAKJ 33.48 19 P 38 38.70 -3.2X
XAN 34.05 332 P 38 46.50 -0.4
0.8s 51.00nm
NIJ 34.09 16 eP 38 46.60 -0.5
CD2 34.48 322 iPC 38 50.40 -0.2
1.2s 66.00nm

YAMJ 35.25 17 eP 38 57.40 0.4
MRWA 35.46 198 iPC 38 58.60 -0.3
0.4s 9.00nm
TIY 35.74 339 Pd 39 02.40 1.1
1.0s 38.00nm
COOL 35.85 190 iPC 39 01.50 -0.7
0.6s 12.00nm
BAL 36.56 196 iPC 39 08.00 -0.1
0.4s 15.00nm
OFUJ 36.58 18 eP 39 08.60 0.4
BJI 36.74 345 eP 39 10.00 0.5
1.0s 78.00nm
SNY 37.22 355 P 39 11.50 -2.0
1.0s 31.00nm
KLB 37.23 194 iPC 39 13.70 0.0
0.6s 19.00nm
MUN 37.99 196 iPC 39 20.20 0.1
0.6s 27.00nm
LZH 38.21 328 iPC 39 23.80 1.7
1.5s 190.00nm
NWAO 38.63 194 iPC 39 25.80 0.4
0.8s 37.00nm
STK 38.66 161 iPC 39 25.50 -0.2
0.9s 26.80nm
HHC 38.85 340 Pd 39 28.60 1.3
1.2s 58.00nm
CN2 39.06 357 eP 39 28.60 -0.3
0.6s 7.10nm
MRRJ 39.49 16 eP 39 33.80 1.4
MDJ 39.86 2 eP 39 36.00 0.5
1.1s 57.00nm
HOOJ 40.10 18 P 39 39.30 1.9
ADE 40.74 166 iPC 39 44.00 1.2
KUSJ 41.19 19 P 39 47.60 1.2
ASAJ 41.49 16 P 39 50.00 1.2
ARMA 41.73 148 iPC 39 50.80 -0.3
0.8s 71.00nm
LSA 42.54 310 P 39 59.30 1.1
1.0s 27.00nm
GTA 42.81 328 P 40 01.00 1.2
1.5s 78.00nm
BWA 43.51 155 iPC 40 06.80 1.4
YSS 44.19 15 eP 40 10.10 -0.6
1.0s 60.00nm
CAN 44.52 155 eP 40 14.20 0.6
i 41 03.60 232kmX
CNB 44.67 154 eP 40 15.10 0.3
0.8s 12.00nm
TOO 45.15 160 eP 40 18.70 0.2
0.6s 17.00nm
GUN 45.95 305 P 40 25.80 0.4
PKI 46.21 304 P 40 27.00 -0.4
0.8s 40.00nm
DZM 46.32 127 iPC 40 26.90 -1.2
KKN 46.39 304 P 40 28.20 -0.6
DMN 46.47 304 P 40 29.40 0.0
GKN 47.00 304 P 40 33.20 -0.3
CIT 48.64 348 eP 40 47.00 1.4
HYB 49.68 289 eP 40 53.70 -0.4
ZAK 49.99 340 eP 40 54.50 -1.4
1.4s 16.00nm
IRK 51.27 342 eP 41 05.80 0.1
2.0s 46.00nm
WMQ 52.52 324 iPd 41 16.30 1.0
1.2s 97.00nm
NDI 53.40 302 iPC 41 20.50 -1.3
0.5s 38.73nm
BOD 54.12 351 iPC 41 26.00 -0.7
0.9s 27.00nm
POO 54.27 289 eP 41 26.50 -1.9
YAK 57.28 1 iPC 41 49.30 0.1
KSH 58.03 314 P 41 56.50 1.5
1.0s 40.00nm
QUE 62.45 302 eP 42 25.50 0.2
MAIO 69.70 307 iPC 43 11.70 0.5
ASH 70.87 308 eP 43 19.00 0.9
1.5s 170.00nm
SVE 73.67 328 iPC 43 34.50 0.3

1.9s 60.00nm
e 44 02.20 108kmX
ARU 74.64 327 iPC 43 39.60 -0.2
0.8s 40.00nm
SDN 75.94 34 eP 43 45.95 -1.2
0.6s 76.97nm
ANM 76.08 24 eP 43 47.87 0.0
SVW 79.57 29 eP 44 07.94 0.8
0.8s 31.30nm
TTA 79.70 27 eP 44 08.29 0.5
0.8s 9.97nm
TAB 80.33 308 eP 44 13.00 1.2
KDC 80.70 32 eP 44 13.10 0.1
GRO 80.99 313 iPd 44 16.00 1.1
1.0s 60.00nm
IMA 81.20 24 ePc 44 16.36 0.6
0.8s 18.57nm
CF2 81.21 29 eP 44 15.44 -0.5
CRP 81.25 29 eP 44 15.37 -0.7
PMR 82.73 29 eP 44 23.08 -0.4
0.9s 55.74nm
PYA 82.91 314 eP 44 25.00 0.1
KIV 83.18 314 eP 44 26.50 0.1
1.2s 30.00nm
FBA 83.53 25 eP 44 26.24 -1.4
0.8s 7.71nm
TOA 84.15 28 eP 44 32.20 1.3
KLU 84.26 29 eP 44 32.04 0.6
MOS 86.22 325 eP 44 42.00 0.9
e 45 13.00 120km
e 45 26.00
OBN 86.84 325 iPd 44 44.40 0.3
1.0s 35.00nm
i 45 17.10 127km
INK 89.00 22 eP 44 53.00 -1.3
1.0s 4.00nm
MBC 90.88 13 eP 45 04.00 1.1
1.0s 2.00nm
KAF 91.23 333 eP 45 02.70 -2.0
0.5s 4.50nm
NUR 92.36 331 iP 45 08.90 -1.0
0.6s 4.10nm
SYO 93.62 201 ePc 45 16.10 0.6
VRI 94.28 317 ePd 45 19.50 0.4
MLR 94.89 316 ePd 45 22.50 0.4
DAG 96.50 353 iPC 45 27.60 -1.1
0.8s 6.72nm
UZH 96.60 320 iPC 45 29.50 -0.1
1.0s 30.00nm
RES 96.77 10 eP 45 30.00 0.1
1.0s 5.00nm
HFS 97.65 333 eP 45 31.90 -2.2
0.4s 2.20nm
YKA 98.31 25 eP 45 36.20 -0.8
0.9s 3.80nm
GEC2 101.95 322 Pdfff 45 53.50 -0.3
1.2s 1.46nm
e 45 57.30
NEW 102.97 38 Pdfff 45 58.59 0.3
PV10 112.39 45 ePKP 50 36.31 0.1
RSSD 112.93 38 ePKP 50 36.67 -0.4
KIC 131.22 283 PKP 51 12.78 0.1
0.7s 3.50nm
LIC 131.53 282 PKP 51 12.80 -0.4
0.8s 4.50nm
LPB 160.55 129 ePKP 52 02.00 2.1X
LPAZ 160.66 128 PKP 52 02.00 1.7
S.D. = 0.9 on 120 of 131 obs.

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& JAN 01, 1994 02h 51m 31.29s
34.436 N 106.983 W
DEPTH = 10.0km (geophysicist)
NEW MEXICO (496)
<SNM-P>. MD 2.5 (SNM).
LAZ 0.13 255 P 51 34.50 -0.2
BMNM 0.28 235 P 51 37.10 -0.2
BNM 0.41 134 P 51 39.00 -0.7
SBM 0.49 200 P 51 40.70 -0.6
CRNM 0.52 157 P 51 41.20 -0.8
SMNM 0.66 183 P 51 43.80 -0.7
ALQ 0.67 40 eP 51 43.75 -0.9
eS 51 51.78
ANMO 0.67 40 P 51 44.18 -0.5
S 51 52.39
TUC 3.82 237 eP 52 56.54 25.0

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01d 02h

PV10 4.27 338 eP 52 47.10 9.1  
 PV08 4.34 343 (P) 52 47.10 7.9  
 PV09 4.41 337 (P) 52 48.23 8.2  
 SRU 5.46 330 (P) 53 18.62 23.7  
 MSU 5.83 316 eP 53 14.35 14.2  
 EMUT 6.18 331 (P) 53 49.38 44.4  
 15 obs. associated

\* JAN 01, 1994 03h 10m 30.28± 1.39s  
 28.647 N ±27.8km 34.609 E ±11.8km  
 DEPTH = 10.0km (geophysicist)  
 3.9mb ( 3 obs.)

EGYPT (553)  
 MD 4.2 (HLW).

AYN 1.24 79 eP 10 54.30 1.0  
 HLW 3.10 294 ePn 11 21.00 0.9  
 ePb 11 26.50  
 ePg 11 33.40  
 eSn 11 59.00  
 eSb 12 08.00  
 BHL 5.32 9 Pn 12 00.00 8.3X  
 Sn 13 16.00

UQSK 7.46 111 eP 12 21.33 -0.6  
 AFIF 8.92 119 eP 12 52.67 10.5X  
 GEC2 25.78 327 P 16 03.20 0.2  
 0.6s 0.90nm 3.6mb  
 e 16 05.90  
 e 16 11.00

HFS 34.53 342 eP 17 18.80 -1.8  
 0.5s 1.80nm 4.2mb  
 YKA 85.88 346 eP 23 11.50 0.3  
 0.8s 0.60nm 3.8mb

S.D. = 1.3 on 6 of 8 obs.

JAN 01, 1994 03h 17m 25.09± 0.39s  
 51.291 N ± 3.5km 3.418 W ± 4.7km  
 DEPTH = 10.0km (geophysicist)

UNITED KINGDOM (533)  
 ML 3.6 (LDG).

HEX 0.33 227 iPg 17 34.20 2.3  
 HGH 0.52 48 iPg 17 37.80 2.2  
 HSA 0.65 315 iPg 17 37.70 -0.4  
 HTL 0.73 247 iPg 17 40.50 1.0  
 HTR 0.79 7 iPg 17 41.00 0.5  
 eSg 17 50.10  
 DYA 0.92 201 ePn 17 44.60 2.0  
 eSn 17 57.00

HAE 0.92 36 iPg 17 44.20 1.5  
 DCO 1.01 197 ePn 17 46.10 1.8  
 HCG 1.04 352 iPg 17 45.10 0.3  
 eSg 17 57.20  
 HPE 1.06 308 iPg 17 44.50 -0.6  
 WFB 1.45 345 ePnd 17 50.90 -0.4  
 CME 1.59 226 ePnc 17 52.70 -0.5  
 YRH 1.72 335 ePn 17 54.60 -0.6  
 YLL 1.91 346 ePnd 17 57.20 -0.7  
 CWF 1.95 41 ePnc 17 59.00 0.5  
 eSn 18 24.10

YRC 2.09 341 ePn 17 59.80 -0.7  
 JLP 2.22 157 ePn 18 02.50 0.1  
 JRS 2.27 157 ePn 18 03.30 0.2  
 KUF 2.30 53 ePn 18 04.50 1.0  
 DLF 2.77 318 eP 18 08.80 -1.5  
 e 18 41.00

DCN 3.14 312 eP 18 14.40 -1.0  
 e 18 52.00

FLN 3.16 142 Pn 18 15.80 0.0  
 Pg 18 26.90  
 Sn 18 49.90  
 Sg 19 07.60  
 GRR 3.34 149 Pn 18 18.20 -0.2  
 Pg 18 30.30  
 Sn 18 54.80  
 Sg 19 14.40

LPF 3.61 154 Pn 18 21.40 -0.8  
 Pg 18 35.70  
 Sn 19 00.90

SNF 4.94 96 iP 18 42.40 1.4  
 MFF 5.16 154 Pn 18 42.60 -1.6  
 DOU 5.23 100 P 18 49.50 4.3X  
 iS 19 42.50

LSF 6.01 145 Pn 18 54.40 -1.8  
 Sn 19 57.00

SSF 6.21 130 Pn 18 57.00 -1.9  
 Sn 20 01.50

LOR 6.23 127 Pn 18 57.00 -2.3X  
 Sn 20 01.90  
 TCF 6.24 141 Pn 18 56.90 -2.4X  
 Sn 20 03.10  
 BGF 6.28 137 Pn 18 58.10 -1.9  
 Sn 20 03.80  
 Sg 20 44.80

AVF 6.33 133 Pn 18 58.50 -2.2X  
 Sn 20 05.50

MAP 6.43 140 Pn 18 59.60 -2.5X  
 Sn 20 07.10

LBF 6.49 129 Pn 19 00.60 -2.4X  
 Sn 20 07.90

SMF 6.67 131 Pn 19 03.30 -2.1X  
 Sn 20 13.00

RJF 6.83 149 Pn 19 04.70 -3.1X  
 Sn 20 16.90

LFF 6.94 155 Pn 19 06.20 -3.0X  
 Sn 20 20.40

HAU 7.14 114 Pn 19 08.90 -3.2X  
 Sn 20 24.10

LPO 7.30 153 Pn 19 11.50 -2.7X  
 Sn 20 28.50

CAF 7.35 148 Pn 19 11.70 -3.3X  
 Sn 20 30.40

BSF 7.49 114 Pn 19 13.90 -3.1X  
 Sn 20 32.00

CDF 7.49 108 Pn 19 14.40 -2.6X  
 Sn 20 32.80

EPF 8.65 161 Pn 19 29.90 -3.3X  
 Sn 21 01.90

S.D. = 1.3 on 29 of 44 obs.

% JAN 01, 1994 04h 45m 37.23± 1.16s  
 40.712 N ±10.7km 29.949 E ± 9.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.8 (ISK).

EYL 0.22 133 iPg 45 42.00 0.0  
 eSg 45 44.50

HRT 0.24 297 iPg 45 43.00 0.6  
 iSg 45 46.50

IZI 0.52 224 iPg 45 47.80 0.0  
 iSg 45 56.30

ISK 0.76 298 ePg 45 51.30 -0.8  
 CTT 1.23 291 iPn 46 00.30 0.2

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

& JAN 01, 1994 05h 08m 35.77s  
 59.345 N 153.867 W

DEPTH = 128.5km  
 SOUTHERN ALASKA ( 2 )  
 <AEIC>.

AUW 0.20 83 eP 08 53.21 1.1  
 AUH 0.22 85 eP 08 53.54 1.3

AUL 0.22 80 eP 08 53.44 1.3  
 AUI 0.23 92 eP 08 53.12 1.0

AUE 0.25 87 eP 08 53.34 1.1  
 CDD 0.43 164 iP 08 53.67 -0.9

eS 09 07.31

OPT 0.45 46 eP 08 54.10 -0.6  
 S 09 07.91

PDB 0.47 340 iP 08 53.91 -0.8  
 eS 09 07.47

INE 0.83 29 eP 08 56.71 -0.7  
 eS 09 13.27

ILIM 0.87 32 iP 08 57.10 -0.6  
 SYI 1.06 133 eP 08 58.56 -0.8

RDW 1.26 25 eP 09 00.99 -0.7  
 REF 1.29 27 eP 09 01.28 -0.7

NCT 1.31 21 eP 09 01.43 -0.7  
 eS 09 20.65

CNPM 1.36 81 eP 09 01.65 -0.9  
 eS 09 21.75

DFR 1.38 25 eP 09 02.25 -0.7  
 eS 09 22.59

BKG 1.91 24 eP 09 08.35 -0.7  
 SVW 1.97 334 eP 09 08.88 -0.9

SPU 2.05 25 eP 09 10.11 -0.7  
 BGL 2.06 20 eP 09 10.55 -0.4

CP2 2.09 22 eP 09 11.17 -0.3  
 CRP 2.11 23 eP 09 11.21 -0.4

SLKM 2.18 56 eP 09 11.80 -0.5  
 CGLM 2.18 24 eP 09 11.63 -0.8

NCG 2.23 22 eP 09 12.83 -0.3

MPA 2.54 61 eP 09 16.45 -0.5  
 SUA 2.63 35 eP 09 17.66 -0.6  
 PMS 2.87 47 P 09 20.70 -0.6  
 PWA 3.04 39 P 09 23.30 -0.2  
 LTI 3.13 75 eP 09 23.44 -1.2  
 PWL 3.16 59 eP 09 23.29 -1.8  
 PLRM 3.25 44 eP 09 25.08 -1.2

PMR 3.25 44 eP 09 24.40 -1.9  
 KXK 3.39 50 eP 09 26.43 -1.8

GHO 3.45 43 eP 09 27.35 -1.6  
 CUT 3.54 28 eP 09 29.09 -1.0

CFI 3.55 56 eP 09 29.30 -1.0  
 SML 3.68 45 eP 09 29.74 -2.3

HIN 3.86 71 eP 09 33.51 -0.9  
 SCM 4.08 49 eP 09 37.29 -0.1

CVA 4.26 70 eP 09 38.29 -1.4  
 TRF 4.46 21 eP 09 42.06 -0.7

KLU 4.49 58 eP 09 40.92 -2.1  
 43 obs. associated

JAN 01, 1994 05h 10m 51.07± 0.88s  
 28.048 N ± 6.4km 55.565 E ± 3.6km  
 DEPTH = 54.5 ± 9.2 km  
 4.8mb ( 39 obs.)

SOUTHERN IRAN (353)

DHR 5.14 251 eP 12 09.50 2.2  
 eS 13 50.00

RYD 8.69 250 eP 12 59.00 2.2  
 eS 14 32.00

MAIO 8.87 21 eP 13 00.00 0.6  
 MJMA 9.43 259 eP 13 04.67 -2.3

eS 14 45.00

ASH 10.15 13 eP 13 16.00 -0.7  
 QUE 10.18 75 eP 13 17.50 0.1

QASM 10.90 262 eP 13 23.67 -3.4X  
 eS 15 24.00

AFIF 11.80 253 eP 13 40.67 1.4  
 eS 15 40.00

UQSK 12.00 262 eP 13 39.33 -2.5  
 KMSA 12.66 235 eP 13 48.00 -2.6

KMTA 15.26 233 eP 14 24.67 -0.2  
 GRO 17.23 335 eP 14 51.00 1.7

1.0s 110.00nm 5.0mb  
 BHL 18.04 294 P 15 00.00 0.5

S 18 38.00

PYA 18.85 331 iPd 15 11.00 1.7  
 KIV 18.95 330 ePc 15 10.90 0.4

1.0s 108.00nm 5.0mb

NDI 19.07 83 eP 15 09.50 -2.4  
 POO 19.26 116 eP 15 15.00 0.9

KAS 22.23 312 eP 15 45.00 0.5  
 HYB 23.65 112 eP 16 01.50 3.1X

GBA 24.93 121 P 16 15.00 4.4X  
 0.9s 4.00nm 3.9mb

GKN 25.64 83 P 16 17.60 0.1  
 1.0s 45.00nm 4.9mb

DMN 26.10 84 P 16 21.80 -0.1  
 0.9s 30.00nm 4.8mb

KKN 26.23 84 P 16 23.20 0.2  
 0.6s 27.00nm 5.0mb

PKI 26.37 84 P 16 24.00 -0.5  
 GUN 26.74 83 P 16 27.90 0.1

VRI 28.89 316 eP 16 48.00 1.3  
 MLR 29.20 315 eP 16 52.00 2.4

VAY 30.00 305 eP 16 57.00 0.4  
 WMQ 30.17 50 P 16 57.80 -0.5

OHR 31.24 304 iP 17 07.80 0.2  
 1.1s 50.00nm 5.2mb

SRO 34.94 315 eP 17 39.00 -0.6  
 KBA 37.93 312 iPc 18 04.70 -0.3

1.0s 13.60nm 4.8mb

PRU 38.03 317 eP 18 11.50 5.9X  
 GTA 38.16 61 eP 18 06.00 -1.0

1.5s 13.00nm 4.6mb

GEC2 38.19 315 P 18 10.00 14kmX  
 0.5s 1.56nm 4.2mb

e 18 09.40  
 e 18 11.70

KHC 38.35 315 iPc 18 07.30 -1.1  
 0.9s 24.00nm 5.1mb

i 18 21.50  
 e 18 28.00

BRG 38.69 318 eP 18 11.60 0.5  
 WTTA 39.10 311 iPc 18 14.30 -0.5

0.6s 8.30nm 4.8mb



			i	18	22.20		CPD	0.82	77	P	18	48.60	0.1	SDN	3.28	225	eP	15	24.71	-2.4	
WATA	39.16	312	iPc	18	14.30	-1.0				S	18	58.80					eS	16	00.91		
SQTA	39.37	311	iPc	18	16.30	-0.7	LPR	0.95	62	P	18	50.70	0.2	RED	3.29	34	eP	15	27.96	0.6	
	0.5s	13.30nm				5.0mb				S	19	02.90		RDW	3.33	33	eP	15	28.87	0.8	
CLL	39.40	318	e(P)	18	17.00	0.0		S.D. = 0.4	on	5	of	5	obs.	RS2	3.33	33	eP	15	29.38	1.3	
MOTA	39.47	311	iPc	18	16.80	-1.1								R50	3.33	33	eP	15	28.90	0.9	
		i		18	22.00			JAN	01,	1994	06h	55m	25.60±	0.76s	NCT	3.36	31	eP	15	28.94	0.6
GRF	39.99	315	ePc	18	22.20	0.3								REF	3.37	34	eP	15	29.20	0.7	
	1.3s	34.00nm				5.0mb		DEPTH =	53.5 ±	8.2	km			REF	3.37	34	eP	15	29.08	0.6	
LZH	41.34	66	eP	18	32.50	-0.9								SVW	3.41	7	iPd	15	28.98	0.1	
	1.2s	30.00nm				4.9mb		4.8mb (	5	obs.)				DFR	3.46	33	eP	15	30.46	0.9	
LPG	42.11	308	eP	18	39.90	0.2		NEW BRITAIN REGION,	P.N.G.		(192)			BRLK	3.54	53	eP	15	30.38	-0.3	
	0.4s	4.00nm				4.5mb	LAT	1.74	267	eP	55	53.30	-0.5				eS	16	09.11		
LPL	42.13	308	eP	18	40.10	0.3				eS	56	06.00		BKG	3.97	31	eP	15	36.80	0.5	
	0.6s	8.75nm				4.7mb	PMG	3.23	209	iPd	56	15.20	0.2	NKA	4.03	39	eP	15	38.87	1.8X	
CDF	42.21	312	eP	18	39.10	-1.2	MDG	3.23	294	eP	56	15.30	0.3	CKL	4.06	29	eP	15	40.21	2.7X	
	0.7s	3.65nm				4.2mb	RAB	4.14	55	e(P)	56	28.00	0.1	CKT	4.09	30	eP	15	38.66	0.7	
ZAK	42.27	45	eP	18	42.00	1.5	QIS	16.49	212	eP	59	14.50	-0.4	BGL	4.10	29	eP	15	39.41	1.3	
	1.3s	6.00nm				4.2mb	ASPA	22.19	218	iPd	00	18.60	-0.3	CKN	4.12	30	eP	15	39.51	1.2	
BCAO	42.32	243	ePd	18	43.10	1.7		0.6s	37.00nm		5.0mb		SPU	4.12	31	eP	15	38.89	0.6		
	1.0s	20.00nm				4.8mb	Z	19s	0.60um		4.0Msz		CP2	4.14	30	eP	15	39.06	0.4		
		i		19	49.20					eS	04	19.80		CRP	4.16	30	eP	15	39.17	0.2	
BSF	42.43	311	eP	18	41.20	-0.9	DZM	23.01	134	iPc	00	27.10	0.1	CGLM	4.24	30	eP	15	40.77	0.9	
	0.6s	6.30nm				4.5mb	ARMA	23.88	174	eP	00	35.70	0.4	SLKM	4.25	47	eP	15	39.48	-0.5	
HFS	42.75	331	eP	18	43.60	-0.7		0.7s	15.00nm		4.6mb						eS	16	25.85		
	0.4s	3.00nm				4.4mb	STK	26.05	194	eP	00	55.40	-0.4	NCG	4.28	29	eP	15	41.69	1.2	
HAU	42.75	311	eP	18	43.70	-0.9		0.6s	4.60nm		4.2mb		MPA	4.58	50	eP	15	43.69	-0.7		
	0.5s	3.50nm				4.4mb	WARB	28.72	225	eP	01	21.50	1.4	SUA	4.73	35	eP	15	46.79	0.2	
ENN	43.55	315	eP	18	52.00	1.0	TOO	31.00	185	eP	01	39.50	-0.8	SKT	4.93	28	eP	15	49.83	0.8	
	1.0s	18.00nm				4.8mb		1.0s	41.00nm		5.1mb		PMS	4.97	42	P	15	49.40	-0.3		
		e		19	15.00		MEEK	34.94	232	eP	02	15.00	0.4	LTI	5.02	59	eP	15	49.58	-0.8	
LBF	44.20	310	eP	18	56.10	-0.3	KLB	38.18	225	eP	02	41.50	-0.3	MTU	5.10	60	eP	15	51.15	-0.2	
	1.1s	16.10nm				4.7mb	MRWA	38.22	230	eP	02	42.70	0.5	PWA	5.15	38	P	15	51.40	-0.6	
DOU	44.25	314	Pd	18	57.60	0.9		0.6s	8.00nm		4.8mb		PWL	5.21	50	eP	15	51.79	-1.1		
SMF	44.26	309	eP	18	56.30	-0.5	GEC2	123.35	326	PKP	14	17.60	-0.8	TTA	5.21	2	eP	15	52.48	-0.5	
	0.8s	11.80nm				4.7mb		0.6s	1.13nm				PLRM	5.36	41	eP	15	53.92	-0.9		
LOR	44.31	310	eP	18	56.50	-0.8				e	14	24.70		PMR	5.36	41	eP	15	53.04	-1.8X	
	0.5s	3.80nm				4.4mb				e	14	30.50		KNK	5.49	44	eP	15	55.32	-1.3	
SSF	44.53	310	eP	18	58.70	-0.3	LPB	136.93	123	PKP	14	45.00	-0.7	GHO	5.55	40	eP	15	56.05	-1.5	
	0.7s	10.05nm				4.7mb	LPAZ	137.02	122	PKP	14	47.10	1.0	MID	5.56	68	P	15	56.70	-0.8	
AVF	44.61	309	eP	18	58.90	-0.7	BAO	152.40	143	ePKP	15	18.60	7.4X	CUT	5.61	31	eP	15	58.48	0.2	
TCF	45.35	309	eP	19	05.30	-0.2	KIC	153.66	271	PKP	15	21.06	8.1X	CFI	5.62	48	eP	15	56.91	-1.4	
	1.0s	22.40nm				5.0mb		0.9s	16.50nm				HIN	5.79	58	eP	15	59.81	-0.9		
CAF	45.36	307	eP	19	05.60	-0.1	LIC	153.94	271	PKP	15	21.66	8.4X	SML	5.79	42	eP	15	59.18	-1.5	
XAN	45.68	69	P	19	06.80	-1.6		1.0s	9.50nm				FID	5.94	55	eP	16	00.95	-1.8X		
	1.0s	8.90nm				4.6mb	TIC	153.94	272	PKP	15	21.50	8.2X	VZV	6.06	52	eP	16	03.33	-1.0	
		pP		19	11.10	14kmX		0.9s	6.50nm				SCM	6.17	44	eP	16	05.03	-0.9		
		sP		19	13.50		LKO	154.42	278	PKP	15	22.37	8.4X	VLZ	6.18	52	eP	16	05.30	-0.7	
LPO	45.97	306	eP	19	10.50	0.0		0.9s	9.00nm				HUR	6.25	30	eP	16	06.37	-0.6		
BTO	46.01	59	eP	19	13.90	2.9		S.D. = 0.7	on	17	of	22	obs.	KTH	6.44	23	eP	16	09.85	0.3	
LFF	46.30	307	eP	19	13.30	0.3							KLU	6.54	50	eP	16	09.80	-1.1		
HHC	47.18	59	P	19	21.00	0.8		JAN	01,	1994	08h	14m	35.94±	0.58s	KAIM	6.63	66	eP	16	11.27	-0.8
	1.2s	16.00nm				4.8mb		57.739	N ±	5.3km	156.461	W ±	4.9km	RAGM	6.63	61	eP	16	10.85	-1.3	
FLN	47.36	312	eP	19	20.40	-1.0		DEPTH =	139.4 ±	4.7	km			TOA	6.77	45	P	16	13.10	-1.0	
GRR	47.58	311	eP	19	22.50	-0.6		4.3mb (	6	obs.)			RND	6.81	30	eP	16	13.26	-1.3		
LPF	47.68	311	eP	19	23.10	-0.8	ALASKA PENINSULA				( 12)		HMT	6.81	62	eP	16	13.60	-1.0		
TIY	48.08	63	Pc	19	27.50	0.2							DHY	6.99	36	eP	16	15.60	-1.5		
BOD	50.11	37	iPc	19	40.10	-2.3	BGM	1.78	21	eP	15	08.48	0.2	TZL	7.03	47	eP	16	16.90	-0.6	
	1.0s	25.00nm				5.2mb	CDD	1.91	50	eP	15	10.10	0.3	MCK	7.05	28	eP	16	16.91	-0.9	
BJI	50.75	60	eP	19	49.00	1.5				eS	15	35.33		BWN	7.29	25	eP	16	19.99	-1.1	
	1.1s	7.00nm				4.6mb	KDC	2.13	88	iPc	15	11.21	-1.1	GLB	7.41	55	iP	16	21.87	-0.9	
TIA	52.01	64	eP	19	55.70	-1.5				S	15	37.24		SNH	7.46	65	eP	16	23.01	-0.3	
CN2	57.13	54	eP	20	34.00	-0.3	AUI	2.26	44	eP	15	14.66	0.7	PAX	7.56	41	eP	16	23.38	-1.4	
DAG	59.33	345	iPc	20	48.50	-0.8				eS	15	41.77		CYK	7.61	66	eP	16	24.85	-0.4	
	0.6s	4.00nm				4.7mb	AUI	2.26	44	eP	15	14.64	0.7	TLG	7.61	61	eP	16	25.00	-0.5	
LKO	60.16	265	P	20	55.98	0.2				eS	15	42.83		NEA	7.73	24	eP	16	24.76	-2.2X	
	0.9s	15.00nm				5.1mb	AUW	2.27	43	eP	15	15.06	1.0	MLY	7.81	18	eP	16	27.29	-0.8	
KIC	60.88	261	P	21	01.10	0.4				eS	15	41.59		WRH	7.87	27	eP	16	26.80	-2.0X	
	1.2s	29.00nm				5.3mb	AUH	2.27	43	eP	15	15.26	1.0	BALM	7.92	59	eP	16	28.71	-1.0	
LIC	61.19	261	P	21	02.98	0.2	AGU	2.27	43	eP	15	15.29	1.0	DDM	7.97	36	eP	16	30.44	0.2	
	1.0s	10.00nm				4.9mb				eS	15	41.88		YAH	8.03	65	eP	16	30.93	-0.2	
MBC	75.91	359	eP	22	34.50	1.5	AUP	2.28	43	iPd	15	14.94	0.6	ANM	8.08	332	eP	16	32.25	0.6	
INK	83.70	3	eP	23	16.00	1.2	AUL	2.29	43	eP	15	15.37	1.0	CCB	8.09	27	eP	16	29.52	-2.2X	
YKA	89.43	355	eP	23	43.30	0.3				eS	15	42.28		HDA	8.11	31	eP	16	30.12	-2.0X	
	0.9s	4.00nm				4.7mb	AUE	2.29	44	eP	15	15.52	1.1	DJE	8.20	35	eP	16	32.36	-0.9	
ASPA	91.31	116	eP	23	55.10	2.8				eS	15	42.52		MDM	8.25	25	eP	16	32.34	-1.5X	
	0.8s	6.00nm				5.1mb	SYI	2.33	66	eP	15	14.70	-0.1	FBA	8.30	26	eP	16	31.76	-2.8X	
	S.D. = 1.2	on	78	of	82	obs.	PDB	2.37	29	iP	15	15.90	0.5	CTGM	8.37	61	eP	16	35.29	-0.4	
										eS	15	45.35		IL1	8.42	29	eP	16	33.59	-2.6X	
? JAN 01, 1994 06h 18m 33.38±11.69s							OPT	2.56	40	eP	15	18.73	1.0	ILB	8.42	29	eP	16	33.64	-2.5X	
17.860 N ±84.8km 66.753 W ±65.5km																					



01d 08h

ADK 13.03 252 eP 17 33.68 -3.0X  
 INK 14.73 35 eP 17 56.50 -1.7  
 YKA 21.09 59 eP 19 11.30 1.2  
 0.7s 11.10nm 4.4mb  
 MBC 22.80 22 eP 19 28.00 1.3  
 NEW 25.16 95 P 19 51.50 2.0  
 BONR 31.76 112 (P) 20 49.21 0.4  
 BW06 32.76 97 iPd 20 59.13 1.7  
 0.5s 2.74nm 4.3mb  
 RSSD 34.81 90 eP 21 16.68 1.7  
 0.6s 5.42nm 4.5mb  
 SRU 34.87 102 eP 21 17.36 1.9  
 ULM 35.29 75 eP 21 23.00 4.3X  
 GOL 37.17 96 P 21 37.70 2.8X  
 MAT 47.11 273 eP 22 54.00 -1.3  
 MIAR 47.30 91 eP 22 57.50 0.8  
 0.6s 3.87nm 4.3mb  
 OXF 49.56 88 iPd 23 15.01 0.9  
 HFS 62.21 6 eP 24 42.80 -1.3  
 0.3s 5.00nm 4.9mb  
 GEC2 73.47 7 P 25 54.40 0.1  
 0.6s 1.35nm 3.9mb  
 S.D. = 1.0 on 101 of 119 obs.

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 & JAN 01, 1994 08h 58m 11.29s  
 62.043 N 150.353 W  
 DEPTH = 47.8km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.6 (AEIC).

CUT 0.37 6 iP 58 20.32 -0.6  
 PWA 0.45 150 P 58 21.70 -0.2  
 SKT 0.56 264 iP 58 22.74 -0.5  
 SUA 0.61 198 iP 58 23.92 -0.1  
 eS 58 34.47  
 GHO 0.73 111 iP 58 24.90 -0.6  
 PLRM 0.74 127 iP 58 24.69 -0.8  
 S 58 36.77  
 PMR 0.74 127 iPc 58 24.44 -1.1  
 eS 58 36.94  
 PMS 0.89 154 P 58 27.00 -0.6  
 SML 0.98 103 iP 58 27.98 -1.0  
 eS 58 42.26  
 HUR 1.00 19 eP 58 28.09 -1.0  
 eS 58 41.53  
 NCG 1.07 234 eP 58 29.26 -1.0  
 CGLM 1.08 228 eP 58 29.55 -0.8  
 KNK 1.10 124 eP 58 29.90 -0.7  
 CRP 1.16 229 eP 58 30.02 -1.5  
 eS 58 48.84  
 SPU 1.19 224 eP 58 31.02 -0.8  
 CP2 1.19 230 eP 58 30.80 -1.3  
 CKN 1.20 228 eP 58 31.74 -0.3  
 CKT 1.22 227 eP 58 31.55 -0.8  
 BGL 1.25 232 eP 58 32.18 -0.6  
 CKL 1.27 229 eP 58 32.80 -0.3  
 BKG 1.34 224 eP 58 33.25 -0.7  
 NKA 1.37 198 eP 58 36.63 2.3  
 TRF 1.41 1 eP 58 34.18 -1.0  
 SCM 1.45 97 eP 58 34.65 -0.8  
 CFI 1.51 124 eP 58 35.70 -0.5  
 PWL 1.53 140 eP 58 35.62 -1.1  
 RND 1.53 26 eP 58 35.28 -1.4  
 KTH 1.54 350 iP 58 35.57 -1.2  
 eS 58 55.06  
 SLKM 1.54 178 eP 58 36.45 -0.4  
 MPA 1.63 162 eP 58 37.19 -0.8  
 MCK 1.82 20 eP 58 39.75 -0.9  
 DFR 1.84 219 eP 58 40.87 -0.2  
 REF 1.93 217 eP 58 42.31 -0.1  
 NCT 1.94 221 eP 58 42.19 -0.3  
 RDW 1.96 218 eP 58 43.07 0.1  
 RS2 1.97 217 eP 58 40.26 -2.7  
 TOA 1.97 86 P 58 42.50 -0.4  
 VZW 2.07 117 eP 58 44.82 0.5  
 BWN 2.17 10 eP 58 46.16 0.4  
 KLU 2.18 103 eP 58 44.09 -1.8  
 TZL 2.32 88 eP 58 47.57 -0.2  
 LTI 2.35 148 eP 58 45.57 -2.6  
 INE 2.39 215 eP 58 49.30 0.4  
 PAX 2.45 66 eP 58 48.83 -0.9  
 HIN 2.49 130 eP 58 48.38 -1.8  
 CNPM 2.56 190 eP 58 51.91 0.6  
 WRH 2.64 22 eP 58 50.26 -2.1  
 CVA 2.68 122 eP 58 54.73 1.8  
 SVW 2.69 252 (P) 58 51.01 -2.1  
 DDM 2.70 48 eP 58 53.52 0.3

TTA 2.77 291 (P) 58 51.89 -2.4  
 HDA 2.83 31 eP 58 52.55 -2.5  
 CCB 2.85 23 eP 58 53.25 -2.1  
 MLY 3.00 357 eP 58 54.91 -2.7  
 FBA 3.09 21 eP 58 56.00 -2.7  
 ILB 3.15 28 eP 58 57.09 -2.5  
 IL1 3.15 28 eP 58 57.08 -2.5  
 GLB 3.17 98 eP 58 57.44 -2.5  
 GLM 3.24 23 eP 58 58.89 -2.0  
 HMT 3.41 117 eP 59 02.36 -0.9  
 SYI 3.59 197 eP 59 07.19 1.4  
 TGL 3.84 106 eP 59 07.17 -2.3  
 BC3 4.10 72 eP 59 10.15 -2.9  
 IMA 4.30 342 eP 59 12.34 -3.6  
 BM3 5.93 22 eP 59 29.58 -9.2  
 65 obs. associated

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 JAN 01, 1994 09h 00m 02.96± 0.48s  
 36.550 N ± 3.3km 4.339 W ± 4.1km  
 DEPTH = 102.4 ± 8.0 km  
 STRAIT OF GIBRALTAR (385)  
 MD 3.0 (RBA).

MAL 0.19 342 iP 00 16.80 -0.7  
 eS 00 21.80  
 EMAL 0.22 341 iPd 00 17.14 -0.5  
 ELOJ 0.62 14 iPd 00 20.45 0.2  
 eS 00 29.80  
 EGUA 0.68 65 iPd 00 20.06 -0.6  
 eS 00 30.50  
 EPRU 0.83 300 iPc 00 21.86 -0.2  
 eS 00 33.10  
 EJIF 0.92 264 eP 00 22.68 -0.3  
 eS 00 35.70  
 LIJA 0.93 292 eP 00 23.00 -0.2  
 ELUQ 1.01 3 iPc 00 24.26 0.2  
 eS 00 36.60  
 ALJ 1.02 277 iP 00 25.50 1.3  
 MOMI 1.14 259 iP 00 26.00 0.6  
 NKM 1.40 219 iPn 00 29.00 0.5  
 iSn 00 44.00  
 i 00 45.00  
 i 00 46.00  
 BIT 1.44 232 iP 00 29.50 0.5  
 iS 00 48.00  
 EHOR 1.46 331 iP 00 28.66 -0.6  
 eS 00 46.60  
 EBAN 1.67 15 iP 00 32.21 0.3  
 eS 00 51.80  
 EMEL 1.68 138 eP 00 31.74 -0.2  
 eS 00 53.20  
 ENIJ 1.76 76 iP 00 33.57 0.5  
 TSY 1.77 229 iP 00 34.00 0.9  
 iS 00 56.00  
 EHUE 1.88 47 iPc 00 35.87 1.2  
 eS 00 58.10  
 ZAI 2.17 143 iP 00 37.00 -1.4  
 iS 01 00.50  
 EVAL 2.19 299 eP 00 37.23 -1.3  
 eS 01 01.90  
 TZK 2.46 177 iP 00 43.00 0.8  
 iS 01 11.50  
 EVIA 2.54 34 iPc 00 43.77 0.3  
 eS 01 12.30  
 PAB 2.99 360 ePn 00 49.20 -0.3  
 eSn 01 22.00  
 IFR 3.09 192 iPn 00 50.00 -1.0  
 iSn 01 19.50  
 i 01 20.50  
 i 01 22.50  
 MIF 3.20 192 iP 00 53.00 0.8  
 iS 01 27.50  
 CZD 3.55 190 eP 00 57.00 0.0  
 iS 01 37.50  
 ECHE 4.04 40 eP 01 03.93 0.2  
 eS 01 48.00  
 GUD 4.09 2 eP 01 04.34 -0.2  
 eS 01 50.20  
 TIO 6.11 204 iPn 01 31.50 -1.0  
 iSn 01 33.50

S.D. = 0.8 on 29 of 29 obs.

-----  
 JAN 01, 1994 09h 33m 56.24± 0.49s  
 40.170 N ± 5.5km 20.506 E ± 4.6km  
 DEPTH = 10.0km (geophysicist)  
 GREECE-ALBANIA BORDER REGION (392)  
 ML 2.7 (TIR). MD 3.2 (ATH).

LSK 0.07 105 iPgc 33 58.00 -0.7  
 iSg 34 00.50  
 SRN 0.48 233 iPgdc 34 06.50 0.4  
 iSg 34 15.20  
 IGT 0.65 192 iPgdc 34 08.46 -0.8  
 iSg 34 20.04  
 KEK 0.71 230 ePb 34 09.50 -0.7  
 VLO 0.83 291 ePn 34 11.40 -0.8  
 FNA 0.90 47 iPgdc 34 11.82 -1.8  
 eSg 34 24.56  
 OHR 0.97 13 iPg 34 13.50 -1.2  
 iSg 34 26.50  
 KZN 0.98 82 ePb 34 13.70 -1.2  
 LIT 1.52 92 iPbc 34 24.56 1.0  
 eSb 34 46.28  
 LACI 1.58 338 iPnd 33 25.80 -58.6X  
 iSn 34 47.90  
 GRG 1.64 61 iPbc 34 25.05 -0.3  
 iSb 34 47.80  
 AGG 1.82 129 ePn 34 29.48 1.7  
 eSn 34 56.20  
 SKO 1.93 21 iPn 34 31.20 1.7  
 iSg 34 57.30  
 THE 1.93 75 ePn 34 30.74 1.3  
 VAY 1.95 53 iPn 34 29.30 -0.3  
 VLS 1.99 178 ePb 34 33.50 3.2X  
 SDA 2.03 338 ePn 34 32.80 2.0  
 KNT 2.07 61 ePn 34 30.40 -1.1  
 eSn 34 59.60  
 SOH 2.27 72 ePn 34 34.56 0.2  
 eSn 35 04.72  
 PAIG 2.45 95 ePn 34 36.72 -0.1  
 SRS 2.53 67 ePn 34 38.32 0.3  
 OUR 2.67 85 ePn 34 40.38 0.4  
 S.D. = 1.1 on 20 of 22 obs.

-----  
 \* JAN 01, 1994 09h 38m 54.56± 1.67s  
 39.101 N ± 14.8km 21.762 E ± 8.4km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.8 (THE).

AGG 0.45 100 iPgdc 39 04.69 1.0  
 eSg 39 12.22  
 LIT 1.15 29 iPgdc 39 14.62 -1.4  
 eSg 39 31.10  
 IGT 1.19 292 ePb 39 15.46 -1.3  
 eSb 39 31.78  
 PAIG 1.70 60 ePb 39 23.86 -0.5  
 eSb 39 44.46  
 FNA 1.71 350 iPb 39 24.38 -0.2  
 GRG 1.92 15 ePb 39 27.62 0.0  
 eSb 39 51.66  
 OUR 2.11 54 ePn 39 29.58 -0.7  
 SOH 2.11 35 ePn 39 29.94 -0.4  
 eSn 39 55.46  
 OHR 2.14 340 ePn 39 33.00 2.2  
 KNT 2.23 23 iPnc 39 31.50 -0.7  
 iSn 39 59.02  
 VAY 2.30 15 ePn 39 35.70 2.6  
 SRS 2.45 34 ePn 39 34.66 -0.6  
 S.D. = 1.4 on 12 of 12 obs.

-----  
 \* JAN 01, 1994 10h 07m 23.19± 1.66s  
 13.610 N ± 15.6km 120.477 E ± 16.7km  
 DEPTH = 71.9 ± 17.3 km  
 4.8mb (4 obs.)  
 MINDORO, PHILIPPINE ISLANDS (250)  
 Felt (II RF) at Quezon City.

TGY 0.66 42 ePc 07 36.50 -1.6  
 eS 07 50.00  
 QVP 1.13 27 iPd 07 43.50 -0.2  
 iS 08 01.00  
 QCP 1.18 30 eP 08 14.00 29.7X  
 GQP 1.94 81 iPc 07 56.50 1.9  
 iS 08 20.00  
 BAG 2.79 2 ePc 08 06.00 -0.6  
 SZP 3.92 360 eP 08 24.00 1.8  
 CVP 4.27 17 ePd 08 27.00 -0.2  
 KKM 8.61 210 ePc 09 41.90 14.4X  
 CHTO 21.31 287 eP 12 16.00 10.0X  
 BJI 26.60 353 eP 12 54.00 -2.5  
 LZH 26.91 329 eP 13 12.50 12.9X  
 1.6s 30.00nm  
 pP 13 22.50 36kmX  
 GUN 35.20 299 P 14 14.00 1.1



PLE	1.38	5	iSg	20	50.64	
			iPg	20	40.02	0.5
			iSg	21	01.02	
	S.D. = 0.4		on	9 of	9 obs.	
-----						
%	JAN 01, 1994	13h	27m	55.61±	0.70s	
	40.238 N ± 5.6km		23.050 E ± 5.5km			
DEPTH = 10.0km (geophysicist)						
GREECE						(364)
ML 1.4 (THE).						
-----						
THE	0.40	351	iPg	28	03.98	0.2
			eSg	28	09.86	
LIT	0.45	252	iPg	28	04.78	0.0
			eSg	28	11.62	
PAIG	0.57	123	ePg	28	07.26	0.0
			eSg	28	16.62	
SOH	0.63	22	ePg	28	08.02	-0.2
			eSg	28	17.02	
OUR	0.72	82	iPg	28	09.78	0.0
			eSg	28	19.42	
KNT	0.93	353	ePg	28	13.18	-0.2
			eSg	28	25.98	
SRS	0.97	25	iPg	28	14.18	0.1
	S.D. = 0.2		on	7 of	7 obs.	
-----						
*	JAN 01, 1994	14h	48m	35.71±	0.76s	
	21.219 S ±13.0km		169.362 E ±15.6km			
DEPTH = 33.0km (normal)						
4.1mb ( 3 obs.)						
LOYALTY ISLANDS REGION						(189)
-----						
DZM	2.84	252	iPd	49	19.70	-0.2
			iS	49	53.10	
BKM	3.69	343	iPd	49	31.90	0.1
			iS	50	18.00	
ARMA	18.39	237	eP	52	53.40	3.4X
	0.3s	1.00nm				3.5mb
TOO	26.31	227	eP	54	10.50	0.2
	0.8s	18.00nm				4.7mb
CHTO	79.58	295	eP	00	41.90	0.4
YKA	102.36	27	ePdiff	02	29.70	0.7
	0.6s	0.30nm				4.1mb
HFS	137.48	342	ePKP	07	54.80	-2.6X
	0.6s	1.10nm				
BRG	144.68	333	iPKP	08	07.60	-2.9X
	0.8s	16.00nm				
CLL	144.75	334	iPKPc	08	07.50	-3.1X
	1.0s	15.00nm				
PRU	145.07	331	ePKP	08	09.30	-1.9
ZST	145.08	327	ePKP	08	06.70	-4.5X
KHC	146.12	331	PKPd	08	12.60	-0.4
			e	08	17.00	
GEC2	146.27	331	PKP	08	12.80	-0.6
	0.6s	5.06nm				
		e	08	17.60		
		e	08	19.90		
		PcP	08	22.50		
GRF	146.72	334	ePKP	08	14.30	0.4
BCAO	147.13	244	iPKPd	08	16.90	1.2
	1.0s	15.00nm				
		i	08	24.50		
WLF	148.64	339	iPKPd	08	19.75	2.8X
	0.8s	7.60nm				
DOU	148.77	341	PKPd	08	19.60	2.4X
	0.6s	11.80nm				
CDF	149.30	336	ePKP	08	20.50	2.3X
BSF	149.96	336	ePKP	08	22.20	3.0X
	0.7s	6.15nm				
HAU	149.98	337	ePKP	08	22.30	3.2X
	0.9s	15.90nm				
FLN	151.34	346	ePKP	08	25.00	3.9X
	0.8s	22.45nm				
LDF	151.42	345	ePKP	08	25.10	3.9X
	0.5s	6.10nm				
LOR	151.48	339	ePKP	08	25.70	4.3X
	0.8s	9.80nm				
LBF	151.69	339	ePKP	08	26.10	4.3X
GRR	151.78	346	ePKP	08	26.20	4.5X
	0.5s	8.90nm				
SSF	151.78	339	ePKP	08	26.50	4.7X
	0.8s	9.00nm				
LPL	151.88	334	ePKP	08	27.30	5.0X
	0.6s	5.50nm				

LFP	152.15	346	ePKP	08 27.20	4.9X
	0.5s	10.05nm			
TCF	152.88	340	ePKP	08 28.90	5.5X
LSF	153.13	341	ePKP	08 29.00	5.2X
	0.6s	4.35nm			
MFF	153.27	344	ePKP	08 29.50	5.6X
S.D. = 1.0 on 10 of 33 obs.					
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%	JAN 01, 1994	17h 18m	49.73± 1.27s		
	44.495 N ± 6.9km	7.013 E ±12.0km			
DEPTH = 10.0km (geophysicist)					
NORTHERN ITALY					(545)
ML 2.0 (GEN).					
PZZ	0.06	81	P	18 52.51	0.3
			S	18 53.92	
STV	0.34	138	P	18 56.70	0.0
			S	19 01.66	
BHB	0.39	27	P	18 57.68	0.0
			S	19 02.99	
ENR	0.40	132	P	18 57.91	0.0
			S	19 03.45	
RRL	0.46	339	P	18 59.11	0.1
			S	19 05.16	
ROB	0.65	108	P	19 02.49	-0.2
			S	19 10.98	
RSP	0.68	15	P	19 03.15	-0.1
			S	19 12.05	
S.D. = 0.2 on 7 of 7 obs.					
-----					
?	JAN 01, 1994	17h 29m	12.57± 1.33s		
	17.126 N ± 8.3km	120.383 E ±41.6km			
DEPTH = 33.0km (normal)					
LUZON, PHILIPPINE ISLANDS					(249)
SZP	0.43	9	iPc	29 21.00	-1.1
			eS	29 30.00	
PIP	1.21	11	eP	29 33.20	-0.1
CVP	1.49	67	ePd	29 42.00	4.7X
			eS	30 00.00	
QVP	2.56	166	ePc	29 51.50	-1.1
			eS	30 26.00	
TGY	3.05	170	iPc	29 59.50	-0.2
GQP	3.77	148	ePd	30 11.00	1.2
			eS	31 00.00	
BJI	23.12	352	eP	34 18.00	1.4
S.D. = 1.4 on 6 of 7 obs.					
-----					
&	JAN 01, 1994	17h 30m	58.13s		
	34.914 N	116.921 W			
DEPTH = 0.1km					
SOUTHERN CALIFORNIA					( 43)
<PAS-P>. ML 3.0 (PAS), 2.8 (GS).					
GSC	0.40	14	iPd	31 05.77	-0.3
SSK	0.95	222	ePd	31 16.05	-1.0
			eS	31 29.06	
PEC	1.04	191	iPd	31 17.59	-1.1
			eS	31 31.78	
ISA	1.47	301	ePc	31 24.44	-1.6
			eS	31 45.77	
PLM	1.56	178	eP	31 26.29	-1.0
ABL	1.89	269	ePn	31 30.32	-1.9
TPNV	2.10	15	ePn	31 33.52	-1.7
GLA	2.54	136	(Pn)	31 40.72	-0.7
			eS	32 19.93	
BCH	2.61	277	ePn	31 40.88	-1.5
ARUT	4.01	43	ePn	32 00.89	-1.5
10 obs. associated					
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&	JAN 01, 1994	17h 47m	31.54s		
	34.388 N	117.016 W			
DEPTH = 8.7km					
SOUTHERN CALIFORNIA					( 43)
<PAS-P>. ML 3.5 (PAS), 3.6 (GS).					
Felt (III) at Fawnskin and (II)					
at Highland. Also felt at Big					
Bear City and Victorville.					
PEC	0.51	194	iPd	47 40.94	-0.9
SSK	0.59	253	iPc	47 42.49	-0.9
GSC	0.93	11	iPd	47 48.76	-0.7
PLM	1.04	173	iPd	47 50.56	-0.9
			eS	48 04.38	
WSHM	1.30	343	P	47 54.20	-1.6
WSBM	1.47	321	P	47 58.84	0.4
BMTC	1.50	300	P	47 58.12	-0.7



01d 17h

TOW	1.54	337	P	47	58.40	-0.9
WJPM	1.58	311	P	48	00.31	0.4
FTC	1.62	288	P	48	01.31	0.8
NMC	1.62	334	P	48	01.23	0.7
RCWM	1.64	342	P	48	00.16	-0.6
WORM	1.65	323	P	48	01.83	1.0
ARVC	1.67	297	P	48	00.28	-0.8
VPBM	1.69	337	P	48	01.35	-0.2
WCHM	1.73	330	P	48	03.42	1.2
ISA	1.75	317	ePn	48	00.63	-1.7
			eS	48	26.57	
PLEC	1.79	289	P	48	05.75	2.8
WOFM	1.80	310	P	48	03.36	0.2
WASM	1.85	317	P	48	05.46	1.6
ABL	1.88	285	ePn	48	02.59	-1.7
			eS	48	31.17	
RYS	1.95	278	P	48	06.30	1.0
MARC	2.01	288	P	48	04.80	-1.3
WLHM	2.05	329	P	48	09.59	2.6
GLA	2.26	126	ePn	48	07.44	-2.3
PKM	2.37	283	P	48	12.17	0.8
TPNV	2.63	14	ePn	48	14.47	-0.6
			eS	48	55.08	
BCH	2.65	288	ePn	48	13.62	-1.7
SCCM	2.66	283	P	48	16.32	0.9
MTUM	3.21	337	(Pn)	48	24.45	1.1
			ePg	48	30.40	
TNP	3.69	358	ePn	48	30.53	0.3
			ePg	48	39.38	
BONR	3.71	344	ePg	48	40.49	9.9
ARUT	4.46	39	ePn	48	39.68	-1.4
			ePg	48	53.34	
CMB	4.55	324	ePn	48	40.25	-1.9
MSU	5.67	42	ePn	48	57.25	-1.1
DUG	6.69	29	ePg	49	36.70	24.1
SRU	7.03	46	ePg	49	43.76	26.5

37 obs. associated

\* JAN 01, 1994 17h 54m 49.13± 0.61s  
32.640 S ± 10.8km 70.195 W ± 12.1km  
DEPTH = 110.0km (geophysicist)  
CHILE-ARGENTINA BORDER REGION (127)  
MD 3.7 (SAN).

JACH	0.34	263	iP+	55	05.70	0.3
			iS	55	18.39	
PEL	0.65	219	iP	55	07.46	0.1
			iS	55	21.11	
FCH	0.69	187	iP+	55	08.17	0.1
			iS	55	22.54	
ROCH	0.76	244	iPd	55	08.75	0.2
			iS	55	23.72	
PCH	1.01	195	iPd	55	10.94	0.1
			iS	55	27.34	
TACH	1.19	211	eP	55	12.51	-0.2
			iS	55	30.71	
LCCH	1.42	234	eP	55	15.39	0.0
			eS	55	34.41	
CACH	1.51	193	eP	55	16.93	0.3
			iS	55	37.91	
LNIV	1.66	217	iPd	55	17.51	-0.7
RTLL	1.96	49	e(P)	55	22.00	-0.2

S.D. = 0.4 on 10 of 10 obs.

% JAN 01, 1994 18h 15m 44.26± 1.79s  
36.424 N ± 15.5km 3.590 W ± 9.2km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBALTAR (385)  
mbLg 2.7 (MDD).

EGUA	0.41	3	iPd	15	52.59	0.0
			eS	15	57.90	
EMAL	0.75	297	iPc	15	56.45	-2.6
			S	16	05.70	
ENIJ	1.24	63	eP	16	06.82	-0.5
			eS	16	24.50	
ELUQ	1.26	335	eP	16	07.48	-0.2
			eS	16	25.50	
EPRU	1.43	293	eP	16	11.60	1.4
			eS	16	31.20	
EJIF	1.52	272	eP	16	11.67	0.2
			eS	16	31.90	
EBAN	1.74	355	eP	16	15.27	0.5
			eS	16	36.30	
EHOR	1.93	317	eP	16	18.45	1.1
			eS	16	40.10	

S.D. = 1.4 on 8 of 8 obs.

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? JAN 01, 1994 18h 25m 39.90± 3.82s  
6.236 S ± 19.6km 148.096 E ± 30.4km  
DEPTH = 10.0km (geophysicist)  
NEW BRITAIN REGION, P.N.G. (192)

LAT	1.17	249	iPc	26	01.10	-0.6
YYYY	2.11	270	P	26	16.00	0.1
MDG	2.50	293	iPd	26	20.50	-0.8
PMG	3.28	196	iPd	26	32.40	0.0
			eS	27	13.00	
MNDI	4.41	271	e(P)	26	50.00	1.3

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

-----  
JAN 01, 1994 18h 38m 51.20± 1.15s  
9.020 S ± 6.4km 123.675 E ± 8.2km  
DEPTH = 112.5 ± 12.7 km  
4.5mb ( 9 obs.)

TIMOR REGION, INDONESIA (289)

MKS	5.63	312	iPc	40	15.20	1.3
MTN	8.25	118	eP	40	47.50	-2.2
	0.2s	300.00nm			6.6mb X	

			eS	42	14.00	
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MBL	12.63	197	eP	41	49.00	1.1
			eS	43	54.00	

WARB	17.30	171	eP	42	46.80	-0.4
			eS	45	48.00	

MEEK	18.17	195	eP	42	56.50	-1.2
			eS	46	06.50	

QIS	19.18	128	eP	43	09.20	0.4
			eS	46	28.50	

MRWA	21.35	199	iPc	43	30.80	0.0
	0.3s	6.00nm			4.4mb	

			eS	47	18.50	
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FORT	22.03	170	eP	43	38.00	0.5
MDG	22.25	82	eP	43	41.30	1.6

BAL	22.44	196	eP	43	41.50	0.0
	0.3s	5.00nm			4.3mb	

KLB	23.12	193	eP	43	48.50	0.4
	0.3s	3.00nm			4.1mb	

MUN	23.87	196	eP	43	55.50	0.1
			eS	48	17.00	

NWAO	24.52	193	eP	44	01.40	-0.2
	0.4s	2.00nm			3.9mb	

STK	28.18	146	eP	44	36.30	1.2
	0.7s	4.30nm			4.2mb	

KMI	39.60	329	eP	46	17.20	3.7X
	0.8s	10.00nm			4.7mb	

GUN	51.81	316	P	47	49.60	-0.7
	0.8s	32.00nm			5.3mb	

PKI	51.92	316	P	47	50.40	-0.7
	0.5s	16.00nm			5.2mb	

KKN	52.15	316	P	47	52.20	-0.4
DMN	52.15	316	P	47	52.30	-0.4

GKN	52.72	316	P	47	56.10	-0.7
	0.4s	7.00nm			5.0mb	

YKA	112.28	25	ePKP	57	15.30	0.5
	0.8s	0.30nm				

LPZ	152.27	155	PKP	58	39.30	9.5X
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S.D. = 1.0 on 20 of 22 obs.

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JAN 01, 1994 19h 14m 56.10± 1.17s  
14.036 N ± 5.6km 91.522 W ± 10.6km  
DEPTH = 33.0km (normal)

GUATEMALA ( 70)

JAT	0.30	338	ePc	15	04.60	0.7
TER	0.85	72	iPc	15	12.17	0.4

PCG	0.96	68	iPd	15	13.81	0.4
BVA	1.06	54	iPd	15	14.87	-0.1

GCG	1.10	60	iPc	15	15.29	-0.2
			iS	15	32.70	

SLP	1.39	59	iPd	15	19.30	-0.3
			eS	15	37.48	

RDG	1.40	46	iPd	15	18.70	-1.1
			i	20	00.64	

CUSS	1.53	95	iP	15	22.70	1.2
			iS	15	43.30	

YUP	1.68	84	ePd	15	23.88	0.2
YPE	1.79	87	iPd	15	26.10	0.8

			iS	15	52.00	
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MRL	2.05	60	iPd	15	27.70	-1.4
			iS	16	00.79	

TME	2.10	90	iPc	15	29.50	-0.2
QZG	2.16	74	iPc	15	30.14	-0.5

SJAS	2.32	99	eP	15	34.50	1.7
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LFU	2.36	97	iPc	15	34.10	0.7
RIN3	6.81	118	ePnd	16	36.50	0.0
JUD	7.00	123	ePnd	16	38.38	-0.7
			eSn	17	58.34	
JTS	7.42	119	ePnc	16	43.43	-1.5
			eSn	18	16.63	
CAO	7.62	124	ePnd	16	46.70	-0.9
			eSn	18	07.61	
EPA	7.88	120	ePnd	16	52.19	0.9
			eSn	18	10.63	
POA2	8.08	118	ePnc	16	56.79	2.4
HDC2	8.26	118	iPnc	16	56.63	-0.1
OCM	8.46	118	ePnd	16	59.93	0.3
			e	17	09.92	
IRZ2	8.48	118	ePn	16	59.90	-0.2
QPS	8.58	122	ePnd	16	59.72	-1.3
VTU	8.58	117	ePn	17	01.30	-0.1
CDM	8.80	120	ePnd	17	03.85	-0.7
TIG	9.47	121	ePn	17	13.70	0.3
			eSn	19	00.69	
CTCR	9.99	120	ePnd	17	19.71	-1.0

S.D. = 0.9 on 29 of 29 obs.

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& JAN 01, 1994 19h 46m 46.98s  
37.648 N 118.862 W  
DEPTH = 5.1km  
CALIFORNIA-NEVADA BORDER REGION ( 40)  
<GM-P>. MD 3.1 (GM). ML 2.9 (GS).

MCSM	0.03	282	P	46	48.31	-0.1
MEMM	0.06	287	iPd	46	48.77	0.1
MMPM	0.14	254	iPd	46	49.97	-0.1
HTCR	0.14	148	P	46	49.97	-0.1
ORC	0.16	94	P	46	50.66	0.2
MRCM	0.28	85	iPd	46	52.83	0.1
MTUM	0.38	141	iPc	46	54.48	-0.1
BHPR	0.46	139	P	46	56.16	0.0
BONR	0.54	55	eP	46	57.67	-0.2
MSTM	1.25	282	P	47	09.82	-0.8
CMB	1.27	288	iPd	47	10.14	-0.8
			eS	47	26.58	
TNP	1.37	71	eP	47	13.06	0.1
KVN	1.52</					



EBAN 1.61 337 eP 57 17.15 0.9  
 EVIA 1.98 11 eP 57 22.51 0.8  
 S.D. = 1.0 on 6 of 7 obs.

JAN 01, 1994 21h 11m 18.61± 0.47s  
 13.055 N ± 4.9km 89.673 W ± 6.3km  
 DEPTH = 18.3 ± 8.4 km  
 EL SALVADOR (73)  
 MD 4.3 (GCG).

SJAS 0.78 39 iPc 11 33.70 0.2  
 VSS 0.80 32 iPd 11 34.20 0.4  
 LFU 0.88 38 iPd 11 35.40 0.3  
 CUSS 0.89 343 iPc 11 35.70 0.4  
 TME 1.00 18 iPd 11 36.40 -0.8  
 YPE 1.06 360 iPd 11 38.00 -0.3  
 TER 1.58 322 eP 11 45.93 0.0  
 0.3s 1004.30nm  
 PCG 1.61 326 eP 11 46.45 -0.1  
 BVA 1.86 330 iPd 11 50.25 0.1  
 RDG 2.09 338 ePd 11 53.00 -0.5  
 JAT 2.28 304 eP 11 56.32 0.3  
 JUD 4.96 125 ePd 12 33.81 -0.3  
 JTS 5.38 120 ePc 12 39.72 -0.3  
 CAO 5.58 126 ePc 12 42.28 -0.6  
 EPA 5.83 121 ePc 12 47.43 1.1  
 HDC2 6.21 118 eP 12 49.80 -2.0  
 OCM 6.42 119 ePc 12 55.21 0.4  
 IRZ2 6.44 118 ePd 12 56.03 0.8  
 VTU 6.53 117 eP 12 59.68 3.0X  
 QPS 6.53 123 eP 12 56.09 -0.2  
 CDM 6.76 120 ePd 13 00.28 0.5  
 TIG 7.42 122 eP 13 09.27 0.5  
 CTCR 7.95 121 ePc 13 16.28 0.0  
 S.D. = 0.7 on 22 of 23 obs.

JAN 01, 1994 21h 20m 06.31± 0.61s  
 39.209 N ± 5.1km 29.624 E ± 7.3km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.3 (ISK).

ALT 0.41 112 iPg 20 14.20 -0.5  
 KHL 0.89 185 iPg 20 22.40 -1.0  
 IZI 1.13 354 iPn 20 27.20 -0.4  
 GPA 1.20 26 iPn 20 29.30 0.6  
 EYL 1.42 17 ePn 20 32.70 0.5  
 GBZT 1.58 355 ePn 20 35.20 0.8  
 EDC 1.77 311 ePn 20 36.50 -0.7  
 ISK 1.90 347 ePn 20 38.70 -0.4  
 CIN 2.01 217 eP 20 43.00 2.4  
 IZM 2.01 247 ePn 20 40.00 -0.8  
 CTT 2.14 335 ePn 20 42.00 -0.5  
 S.D. = 1.1 on 11 of 11 obs.

& JAN 01, 1994 21h 30m 43.97s  
 59.020 N 152.333 W  
 DEPTH = 81.3km  
 SOUTHERN ALASKA (2)  
 <AEIC>.

SYI 0.41 184 eP 30 56.55 -0.7  
 XLV 0.54 36 eP 30 57.31 -1.0  
 AUE 0.63 303 eP 30 58.93 -0.3  
 AUI 0.65 300 eP 30 59.00 -0.4  
 AUP 0.66 302 eP 30 59.59 0.0  
 AUH 0.67 302 eP 30 59.48 -0.2  
 AUL 0.67 303 eP 30 59.53 -0.1  
 AUW 0.68 301 eP 30 59.79 0.0  
 CDD 0.68 263 eP 30 59.10 -0.7  
 HOM 0.73 29 eP 30 59.76 -0.5  
 CNPM 0.76 48 iP 30 59.79 -0.8  
 OPT 0.78 324 eP 31 00.19 -0.7

MCNL 1.05 280 eP 31 02.94 -1.0  
 INE 1.11 341 eP 31 04.08 -0.8  
 ILIM 1.11 344 eP 31 03.84 -0.9  
 PDB 1.22 310 eP 31 05.20 -0.9  
 KDC 1.28 184 P 31 06.50 -0.3  
 RED 1.42 351 eP 31 08.03 -0.8  
 RSO 1.46 352 eP 31 08.84 -0.6  
 REF 1.49 353 eP 31 09.06 -0.7  
 RDN 1.51 352 eP 31 09.69 -0.4  
 NCT 1.58 349 eP 31 10.43 -0.4  
 DFR 1.59 354 eP 31 10.31 -0.7  
 NKA 1.81 17 eP 31 14.88 1.0  
 SLKM 1.84 35 eP 31 13.08 -1.2  
 BKG 2.06 1 eP 31 16.66 -0.7  
 MPA 2.11 44 eP 31 16.96 -0.9  
 SPU 2.17 4 eP 31 18.48 -0.4  
 CKT 2.19 2 eP 31 17.83 -1.3  
 CKN 2.21 2 eP 31 19.59 0.2  
 BGL 2.25 359 eP 31 19.64 -0.3  
 CP2 2.25 1 eP 31 19.73 -0.4  
 CRP 2.26 2 eP 31 19.33 -0.8  
 CGLM 2.30 4 eP 31 20.36 -0.3  
 NCG 2.39 2 eP 31 21.30 -0.6  
 SUA 2.58 17 eP 31 23.92 -0.6  
 PWL 2.73 46 eP 31 25.19 -1.3  
 SKT 3.00 7 eP 31 29.66 -0.5  
 PMR 3.03 30 eP 31 28.63 -2.0  
 KNK 3.08 37 eP 31 30.00 -1.4  
 CFI 3.15 45 eP 31 30.61 -1.6  
 HIN 3.26 62 eP 31 32.69 -1.2  
 KLU 4.04 49 eP 31 43.05 -1.8  
 43 obs. associated

? JAN 01, 1994 21h 53m 47.14± 2.36s  
 29.500 S ± 25.5km 68.251 W ± 12.8km  
 DEPTH = 120.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTRS 1.24 237 iPd 54 12.00 0.0  
 RTPR 1.71 118 iPd 54 17.40 0.0  
 RTLL 1.83 186 iPc 54 18.70 -0.3  
 RTCB 2.04 193 iPc 54 21.70 0.1  
 CFA 2.10 180 ePc 54 22.60 0.2  
 S.D. = 0.3 on 5 of 5 obs.

JAN 01, 1994 22h 00m 29.86± 0.29s  
 39.215 N ± 6.4km 75.143 E ± 4.4km  
 DEPTH = 10.0km (geophysicist)  
 4.8mb (20 obs.)  
 SOUTHERN XINJIANG, CHINA (321)

KSH 0.69 69 iPg 00 43.50 -0.1  
 Z 12s 9.70um  
 WMQ 10.47 60 eP 03 02.00 -1.2  
 NDI 10.64 170 iPd 03 11.50 6.1X  
 QUE 11.24 219 eP 03 18.60 4.8X  
 MAIO 12.72 262 eP 03 34.00 0.3  
 GKN 13.69 142 P 03 46.00 -0.5  
 KKN 14.18 140 P 03 52.50 -0.5  
 DMN 14.24 141 P 03 53.70 -0.2  
 GUN 14.38 138 P 03 56.30 0.5  
 PKI 14.42 141 P 03 55.60 -0.7  
 GTA 19.08 82 eP 04 56.60 1.5  
 HYB 21.92 171 eP 05 30.50 5.3X  
 TAB 22.50 276 eP 05 35.00 4.0X  
 LZH 22.90 89 eP 05 35.50 0.6  
 1.3s 26.00nm 4.6mb

GBA 25.59 175 P 06 07.00 6.2X  
 XAN 27.50 90 eP 06 19.50 1.2  
 MLR 36.43 296 eP 07 39.50 3.0X  
 HFS 43.03 320 eP 08 30.80 -0.1  
 BRG 43.59 306 iP 08 37.40 1.9  
 GEC2 44.11 304 P 08 41.20 1.3  
 CDF 48.35 304 eP 09 13.30 -0.2  
 BSF 48.82 304 eP 09 16.20 -1.0  
 HAU 49.06 304 eP 09 18.70 -0.2  
 LPG 49.55 301 eP 09 23.10 0.1  
 LPL 49.55 301 eP 09 22.40 -0.6  
 SBF 49.61 299 eP 09 23.60 0.4  
 LBF 50.90 303 eP 09 32.20 -0.8  
 SMF 51.10 303 eP 09 34.00 -0.5  
 AVF 51.37 303 eP 09 36.00 -0.5  
 TCF 52.28 303 eP 09 43.10 -0.4  
 RJF 53.08 302 eP 09 48.60 -0.8  
 LFF 53.73 302 eP 09 54.10 0.0  
 LKO 76.87 272 P 12 25.57 1.4  
 YKA 78.33 5 eP 12 30.30 -1.0  
 S.D. = 0.9 on 28 of 34 obs.

& JAN 01, 1994 22h 28m 05.50s  
 63.276 N 151.051 W  
 DEPTH = 12.5km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 3.3 (AEIC), 3.5 (PMR).

BALM 4.66 115 eP 29 17.10 -0.2  
 BC3 16.49 76 eP 29 10.49 4.9  
 BGL 16.49 76 eP 28 40.85 4.9  
 BKG 16.49 76 eP 28 43.52 4.9  
 BM3 16.49 76 eP 29 18.85 4.9  
 BWN 16.49 76 eP 28 27.08 4.9  
 CCB 16.49 76 eP 28 37.70 4.9  
 CGLM 16.49 76 eP 28 39.50 4.9  
 CKN 16.49 76 eP 28 41.76 4.9  
 CKT 16.49 76 eP 28 42.00 4.9  
 CNPM 16.49 76 eP 29 04.83 4.9  
 CP2 16.49 76 eP 28 40.76 4.9  
 CRP 16.49 76 eP 28 39.90 4.9  
 CUT 16.49 76 iP 28 23.33 4.9  
 CVA 16.49 76 eP 29 04.20 4.9  
 DDM 16.49 76 eP 28 46.04 4.9  
 DFR 16.49 76 eP 28 51.14 4.9  
 DHY 16.49 76 eP 28 35.95 4.9  
 DJE 16.49 76 eP 28 47.00 4.9  
 DOT 16.49 76 eP 28 57.58 4.9  
 FBA 16.49 76 eP 28 42.89 4.9  
 FID 16.49 76 eP 28 58.74 4.9  
 GHO 16.49 76 eP 28 36.16 4.9  
 GLB 16.49 76 eP 29 06.27 4.9  
 GLM 16.49 76 eP 28 44.63 4.9  
 HDA 16.49 76 eP 28 40.22 4.9  
 HTN 16.49 76 eP 29 02.64 4.9  
 HUR 16.49 76 iP 28 19.05 4.9  
 ILI 16.49 76 eP 28 42.94 4.9  
 ILB 16.49 76 eP 28 43.07 4.9  
 ILIM 16.49 76 eP 28 59.83 4.9  
 IMA 16.49 76 eP 28 52.59 4.9  
 INE 16.49 76 eP 29 00.50 4.9  
 KAIM 16.49 76 eP 29 13.67 4.9  
 KLU 16.49 76 eP 28 54.13 4.9  
 KNK 16.49 76 eP 28 42.85 4.9  
 KTH 16.49 76 iP 28 11.14 4.9  
 MCK 16.49 76 iP 28 25.38 4.9  
 MDM 16.49 76 eP 28 39.53 4.9  
 MLY 16.49 76 eP 28 35.16 4.9  
 MPA 16.49 76 eP 28 53.52 4.9  
 MTU 16.49 76 eP 29 04.25 4.9



01d 22h

NCG	16.49	76	eP	28	38.67	4.9
NCT	16.49	76	eP	28	51.78	4.9
NEA	16.49	76	eP	28	31.54	4.9
			eS	28	54.59	
PDB	16.49	76	eP	29	04.57	4.9
PLRM	16.49	76	eP	28	37.88	4.9
PMR	16.49	76	eP	28	37.87	4.9
			eS	29	03.40	
PMS	16.49	76	P	28	42.00	4.9
PRP	16.49	76	eP	28	56.45	4.9
PWA	16.49	76	P	28	35.20	4.9
PWL	16.49	76	eP	28	50.80	4.9
RDW	16.49	76	eP	28	52.89	4.9
RED	16.49	76	eP	28	53.78	4.9
REF	16.49	76	eP	28	52.74	4.9
RND	16.49	76	eP	28	24.02	4.9
SCM	16.49	76	eP	28	42.94	4.9
SEW	16.49	76	eP	28	57.25	4.9
SKT	16.49	76	iP	28	29.25	4.9
			eS	28	46.79	
SLKM	16.49	76	eP	28	51.39	4.9
SML	16.49	76	eP	28	37.89	4.9
SFU	16.49	76	eP	28	41.65	4.9
SUA	16.49	76	eP	28	37.25	4.9
SVW	16.49	76	eP	28	53.31	4.9
			eS	29	31.22	
SYI	16.49	76	eP	29	19.28	4.9
TGL	16.49	76	eP	29	17.37	4.9
THY	16.49	76	eP	28	45.22	4.9
TMW	16.49	76	eP	29	02.15	4.9
TOA	16.49	76	P	28	47.20	4.9
TRF	16.49	76	iP	28	13.35	4.9
TTA	16.49	76	eP	28	40.76	4.9
TZL	16.49	76	eP	28	52.99	4.9
VLZ	16.49	76	eP	28	54.99	4.9
VZW	16.49	76	eP	28	55.12	4.9
WAX	16.49	76	eP	29	19.85	4.9
WRH	16.49	76	eP	28	35.48	4.9
YKA	16.49	76	eP	32	02.70	4.9

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0.5s      0.20nm      2.5mb X
77 obs. associated
```

& JAN 01, 1994 22h 48m 39.89s  
36.588 N 121.178 W  
DEPTH = 4.1km  
CENTRAL CALIFORNIA (39)  
<GM-P>. MD 2.6 (GM).

SAO	0.28	310	iPc	48	45.41	-0.1
COE	0.78	329	eP	48	55.57	0.1
ARN	0.81	340	eP	48	56.31	0.2
			iS	49	08.50	
PHAM	0.98	140	eP	48	58.89	-0.2
			eS	49	09.68	
CMB	1.58	23	eP	49	08.29	-0.4
			eS	49	28.91	
BCH	1.66	147	eP	49	07.62	-2.3
MMPM	2.00	59	eP	49	18.04	2.9
			eS	49	43.11	
MEMM	2.09	58	eP	49	16.90	0.8
MTUM	2.23	69	eP	49	20.22	1.9
	9	obs.	associated			

```
& JAN 02, 1994 02h 10m 54.74s
63.278 N 151.029 W
DEPTH = 11.6km
CENTRAL ALASKA ( 1 )
<AEIC>. ML 2.3 (AEIC), 2.8
(PMR).
```

PWA	1.72	161	eP	11	24.90	0.3
PMR	1.91	152	eP	11	27.40	0.0
CRP	2.09	195	eP	11	29.26	-0.9
CP2	2.10	196	eP	11	29.87	-0.5
			eS	11	57.61	
PMS	2.15	161	eP	11	32.40	1.4
FBA	2.16	40	eP	11	32.60	1.5
			eS	12	01.75	
TTA	2.29	263	eP	11	32.94	-0.1
TOA	2.53	116	eP	11	37.40	1.0
KLU	2.98	125	eP	11	43.59	0.9

		eS	12	22.02	
IMA	3.02	339 eP	11	41.56	-1.9
BALM	4.65	115 (P)	12	05.72	-0.9
	11 obs.	associated			

? JAN 02, 1994 02h 35m 19.23± 1.02s

37.576 N  $\pm$ 11.7km    22.373 E  $\pm$ 11.4km  
DEPTH = 33.0km (normal)  
SOUTHERN GREECE (368)  
MD 3.1 (ATH).

VLI	0.97	152	ePb	35	36.90	0.4
ATH	1.14	69	ePn	35	38.20	-0.6
VLS	1.53	294	ePn	35	44.00	-0.6
KZN	2.77	350	ePn	36	03.10	0.9

S.D. = 1.3 on 4 of 4 obs.

% JAN 02, 1994 02h 54m 08.68 $\pm$ 3.88s  
44.749 N  $\pm$  8.0km 6.607 E  $\pm$ 29.3km  
DEPTH = 10.0km (geophysicist)  
FRANCE (538)  
ML 1.9 (GEN).

RRL	0.21	36	P	54	13.80	0.4
			S	54	16.23	
PZZ	0.43	124	P	54	17.78	0.3
			S	54	23.78	
BHB	0.48	79	P	54	18.33	0.0
			S	54	24.92	
RSP	0.61	49	P	54	20.71	-0.4
			S	54	28.63	
ENR	0.78	132	P	54	23.73	-0.2
	S.D. = 0.5	on		5 of	5 obs.	

& JAN 02, 1994 03h 11m 18.23s  
37.769 N 122.585 W  
DEPTH = 11.3km  
CENTRAL CALIFORNIA (39)  
<GM-P>. MD 3.0 (GM). ML 3.0  
(BRK), 2.7 (GS). Felt at Daly  
City and in the western part of  
San Francisco.

AGC	0.15	53	P	11	22.02	0.1
CPMM	0.23	38	P	11	23.20	0.0
JEGM	0.27	159	eP	11	23.91	-0.1
			S	11	27.62	
JCPM	0.28	131	P	11	24.05	0.0
CSPM	0.29	49	P	11	24.56	0.2
BKS	0.30	69	ePc	11	24.55	0.0
			eS	11	28.94	
ZSP	0.31	56	iP	11	25.16	0.3
NFIM	0.34	258	P	11	25.30	0.1
CPIM	0.37	53	P	11	26.37	0.6
BGC	0.42	83	P	11	26.84	0.0
SNT	0.43	14	P	11	27.40	0.4
CSVM	0.47	78	P	11	28.42	0.6
STAN	0.49	138	ePc	11	27.91	-0.3

BBR	0.49	3	P	11	28.45	0.2
DUC	0.53	60	P	11	29.93	1.0
NTBM	0.55	330	P	11	28.88	-0.5
JBMM	0.57	143	P	11	29.50	-0.2
SJH	0.59	138	P	11	30.09	0.1
NTYM	0.62	354	eP	11	30.11	-0.5
			S	11	38.13	
CVR	0.70	117	P	11	31.62	-0.3
HMR	0.73	58	eP	11	32.78	0.4
LXR	0.74	140	P	11	32.02	-0.6
MNR	0.77	103	P	11	33.25	0.1
SOS	0.79	139	P	11	32.93	-0.7
MHC	0.86	119	ePc	11	34.59	-0.2

FTR	0.88	329	P	11	34.88	-0.1
COE	0.89	125	eP	11	35.11	0.0
JHLM	0.89	138	P	11	34.64	-0.6
NMHM	0.90	358	P	11	35.20	-0.2
CMMM	0.92	110	P	11	35.86	0.1
ARN	0.94	116	eP	11	35.22	-0.8
			S	11	48.57	

EUC	0.95	139	P	11	36.16	0.0
NBPM	0.95	19	P	11	36.40	0.2
JBZM	0.98	139	P	11	36.65	-0.1
GBGM	1.05	356	P	11	38.36	0.4
HSPM	1.07	127	P	11	37.43	-0.9
GSGM	1.10	355	P	11	37.91	-0.9
GHS	1.13	126	P	11	39.24	0.0
CSR	1.14	135	P	11	38.12	-1.3
OCR	1.21	134	P	11	40.79	0.2
HTM	1.23	138	P	11	42.59	1.6
PCL	1.26	124	P	11	41.50	0.1
GSNM	1.26	338	P	11	40.15	-1.5
GWKM	1.28	3	P	11	41.43	-0.5

LTR	1.35	131	P	11	43.38	0.5
SAO	1.35	137	P	11	43.54	0.6
SAO	1.35	137	iP	11	40.46	-2.5
MNHM	1.45	74	P	11	42.95	-1.4
BLRM	1.52	136	P	11	47.47	2.2
AFDM	1.73	47	P	11	47.36	-1.0
CMB	1.76	81	eP	11	47.84	-1.0
			eS	12	09.72	
BMSM	1.81	127	P	11	52.27	2.7
ORV	1.98	25	eP	11	50.26	-1.7
MNPM	2.83	92	(P)	12	03.08	-1.3
MEMM	2.89	91	(P)	12	09.06	4.1
MTUM	3.22	96	(P)	12	08.09	-1.8
BONR	3.39	86	(P)	12	15.70	3.3
TNP	4.26	84	(Pn)	12	28.71	4.1

? JAN 02, 1994 03h 23m 07.99± 1.33s  
11.400 N ±24.0km 87.012 W ±27.1km  
DEPTH = 33.0km (normal)  
4.5mb ( 6 obs.)  
NEAR COAST OF NICARAGUA ( 74)

UYO	23.66	344 iPc	28 18.00	0.6
MIAr	23.80	346 eP	28 19.05	0.3
	0.7s	13.06nm		4.6mb
CEH	25.41	15 P	28 34.68	0.5
	0.8s	12.65nm		4.6mb
MEO	25.55	337 ipd	28 36.40	0.9
WMOK	25.59	337 eP	28 36.09	0.2
	0.9s	43.90nm		5.1mb
OCO	25.82	340 ipd	28 39.10	1.0
ACO	27.46	339 ipd	28 52.50	-0.6
PV10	33.30	328 eP	29 45.34	0.3
SRU	34.62	327 eP	29 56.51	0.0
RSSD	35.76	339 eP	30 07.03	0.9
	0.6s	2.59nm		4.3mb
BW06	36.90	332 (P)	30 16.07	0.3
	0.6s	1.51nm		4.0mb
ULM	39.42	351 eP	30 37.00	0.6
BAO	47.05	124 eP	31 39.60	0.8
YKA	54.73	345 eP	32 33.60	-2.7
	0.8s	2.80nm		4.3mb
RES	63.42	358 eP	33 34.00	-2.2
INK	64.33	343 eP	33 41.50	-0.8
MBC	67.11	352 eP	34 00.00	0.0
GBA	150.76	32 PKP	43 01.00	7.4X
S.D.	= 1.1	on 17 of 18 obs.		

```
& JAN 02, 1994 04h 01m 20.87s
59.151 N 152.492 W
DEPTH = 74.4km
SOUTHERN ALASKA ( 2)
<AEIC>.
```

AUE	0.50	295	eP	01	33.91	-0.3
			eS	01	42.89	
AUI	0.51	291	eP	01	33.87	-0.5
AUH	0.53	294	eP	01	34.28	-0.4
AUL	0.54	296	eP	01	34.31	-0.3
SYI	0.55	174	eP	01	33.82	-0.8
			eS	01	43.48	
OPT	0.63	323	eP	01	34.90	-0.7
			eS	01	45.68	
CDD	0.64	250	eP	01	34.95	-0.7
			eS	01	44.96	
HOM	0.67	40	eP	01	35.53	-0.4
			eS	01	46.43	
CNPM	0.75	59	eP	01	35.97	-0.9
			eS	01	47.68	
INE	0.96	343	eP	01	38.28	-1.2
ILIM	0.96	346	eP	01	38.62	-0.8
			eS	01	51.93	
BRLK	1.03	52	eP	01	39.32	-0.9
			eS	01	53.61	
PDB	1.08	307	eP	01	40.08	-0.8
RED	1.28	354	eP	01	42.92	-0.6
RDW	1.35	353	eP	01	44.00	-0.5
REF	1.35	356	eP	01	44.06	-0.5
KDC	1.41	180	eP	01	44.86	-0.2
NCT	1.43	351	eP	01	45.27	-0.3
DFR	1.45	356	eP	01	45.36	-0.4
NKA	1.72	21	eP	01	51.01	1.7
SLKM	1.78	39	eP	01	49.37	-0.8
SEW	1.82	57	eP	01	48.95	-1.7
BKG	1.93	3	eP	01	52.15	-0.1
SPU	2.05	6	eP	01	54.00	0.1







02d 04h

DOU 48.43 308 Pd 20 45.80 0.9  
 FRF 48.61 299 eP 20 46.20 -0.2  
 0.7s 57.10nm 5.6mb  
 LMR 48.77 298 eP 20 47.90 0.3  
 0.6s 9.00nm 4.8mb  
 LRG 48.84 299 eP 20 48.00 -0.1  
 0.7s 21.05nm 5.2mb  
 LBF 49.53 304 eP 20 52.70 -0.8  
 0.7s 6.85nm 4.7mb  
 LOR 49.54 304 eP 20 52.80 -0.7  
 0.8s 11.95nm 4.9mb  
 SMF 49.71 303 eP 20 54.50 -0.3  
 0.8s 34.65nm 5.4mb  
 SSF 49.82 304 eP 20 55.10 -0.5  
 1.0s 21.80nm 5.1mb  
 AVF 49.99 304 eP 20 56.60 -0.3  
 0.7s 41.00nm 5.6mb  
 COLF 50.10 302 P 20 58.26 0.4  
 HYF 50.34 304 eP 20 59.70 0.1  
 BGF 50.39 304 eP 20 59.50 -0.5  
 0.7s 15.20nm 5.1mb  
 MAF 50.67 303 eP 21 02.20 0.1  
 0.8s 38.80nm 5.5mb  
 TCF 50.89 303 eP 21 03.80 0.0  
 0.8s 36.55nm 5.5mb  
 LSF 51.35 303 eP 21 06.80 -0.5  
 0.7s 20.50nm 5.3mb  
 CAF 51.38 302 eP 21 07.70 0.2  
 0.8s 21.20nm 5.2mb  
 PERF 51.57 298 P 21 08.54 -0.4  
 RJF 51.64 302 eP 21 09.60 0.2  
 0.8s 18.00nm 5.1mb  
 VDCF 51.89 299 P 21 10.86 -0.6  
 FLN 51.97 307 eP 21 11.00 -0.9  
 0.8s 27.00nm 5.3mb  
 YSS 52.04 55 eP 21 13.00 0.6  
 LPO 52.05 302 eP 21 12.40 -0.1  
 0.6s 8.50nm 4.9mb  
 LFF 52.27 302 eP 21 14.20 0.0  
 0.5s 22.65nm 5.4mb  
 GRR 52.31 307 eP 21 13.60 -0.8  
 0.8s 24.70nm 5.3mb  
 MAT 52.34 69 eP 21 13.00 -1.9  
 0.7s 6.85nm 4.8mb  
 MFF 52.36 304 eP 21 14.90 0.1  
 GRBF 52.39 299 P 21 14.71 -0.5  
 PAND 52.48 299 P 21 16.03 0.0  
 LESF 52.50 300 P 21 15.76 -0.2  
 LPF 52.53 306 eP 21 15.70 -0.3  
 ENSF 53.23 300 P 21 21.66 0.2  
 DAG 54.10 343 iPc 21 16.80 -10.4X  
 0.8s 32.84nm  
 PAB 57.72 298 iPc 21 53.60 -0.1  
 AVE 62.69 292 iP 22 27.00 -0.5  
 i 22 52.00 100km  
 MTD 65.58 222 iPd 22 30.30 -16.2X  
 MBC 66.53 3 eP 22 52.50 0.8  
 1.0s 23.00nm 5.1mb  
 RES 67.94 356 eP 23 00.50 -0.1  
 ANM 69.17 23 (P) 23 08.23 -0.1  
 IMA 71.26 18 iP 23 20.33 -0.9  
 0.7s 6.68nm 4.6mb  
 INK 73.07 9 ePd 23 31.80 0.2  
 0.6s 10.00nm 4.8mb  
 FBA 73.61 16 eP 23 34.59 -0.2  
 0.7s 13.44nm 4.9mb  
 eP 24 04.54 119kmX  
 FRB 74.41 343 eP 23 39.00 -0.4  
 0.8s 3.00nm 4.2mb  
 LBTE 75.50 222 eP 23 45.54 -0.7  
 0.5s 12.06nm 5.0mb  
 CRP 75.58 20 (P) 23 46.13 -0.3  
 PMR 76.11 19 eP 23 48.80 -0.3  
 0.8s 8.60nm 4.6mb  
 TOA 76.39 17 eP 23 51.50 0.7  
 SLKM 76.74 20 eP 23 51.55 -1.2  
 BALM 78.21 16 eP 24 01.21 0.3  
 YKA 80.44 3 eP 24 12.70 0.1  
 0.8s 14.90nm 4.9mb  
 ASPA 84.42 125 P 24 33.20 -0.6  
 0.7s 4.30nm 4.5mb  
 ULM 92.12 352 eP 25 13.00 2.8  
 NEW 94.48 6 eP 25 22.00 0.8  
 eP 25 52.29 115kmX  
 LPAZ 138.69 289 ePKP 31 28.43 0.1  
 LPB 138.82 289 ePKP 31 27.00 -1.3  
 S.D. = 0.9 on 163 of 178 obs.

JAN 02, 1994 04h 20m 00.62± 0.80s  
 40.320 N ± 7.5km 20.159 E ± 5.8km  
 DEPTH = 10.0km (geophysicist)  
 GREECE-ALBANIA BORDER REGION (392)  
 ML 2.8 (TIR).  
 TPE 0.12 258 iPgC 20 04.20 0.6  
 iSg 20 08.00  
 LSK 0.38 117 ePg 20 09.20 0.8  
 SRN 0.46 196 iPgD 20 09.00 -0.9  
 iSg 20 13.50  
 VLO 0.53 287 ePg 20 11.30 0.0  
 KBN 0.57 57 ePn 20 11.50 -0.7  
 IGT 0.80 170 eP 20 16.26 0.1  
 eS 20 30.42  
 OHR 0.93 31 iPn 20 26.80 8.4X  
 iSn 20 45.90  
 FNA 1.04 63 eP 20 28.66 8.4X  
 eS 20 50.34  
 TIR 1.05 348 ePn 20 28.30 7.9X  
 LACI 1.36 346 ePn 20 38.60 13.1X  
 GRG 1.82 69 eP 20 41.86 9.6X  
 eS 21 14.94  
 AGG 2.12 127 eP 20 45.42 8.8X  
 KNT 2.24 67 eP 20 48.22 9.8X  
 S.D. = 0.9 on 6 of 13 obs.

JAN 02, 1994 05h 55m 45.35± 0.43s  
 6.775 N ± 5.4km 72.942 W ± 4.7km  
 DEPTH = 164.4 ± 4.7 km  
 4.4mb ( 13 obs.)  
 NORTHERN COLOMBIA ( 99)  
 BMG 0.32 336 iPc 56 08.00 -1.3  
 BOG 2.41 208 iPd 56 28.00 1.1  
 iS 56 58.50  
 SDV 3.10 47 iPnd 56 36.80 1.5  
 iSn 57 14.90  
 TOV 4.32 46 iPnd 56 51.80 0.9  
 iPP 56 52.10  
 iSn 57 40.30  
 CANV 5.87 44 iPd 57 12.10 0.7  
 iS 58 18.00  
 MORO 6.12 48 iPd 57 14.20 -0.6  
 iS 58 23.80  
 GUAC 6.56 58 iPc 57 20.90 0.2  
 OLLA 6.87 62 iPd 57 24.30 -0.6  
 iS 58 43.20  
 UPA 6.89 289 eP 57 23.25 -1.7  
 eS 58 35.24  
 CAR 7.01 58 iPd 57 25.90 -0.8  
 iS 58 42.10  
 PSO 7.06 218 eP 57 29.00 1.4  
 LLAV 7.09 58 iPc 57 27.40 -0.4  
 iS 58 40.60  
 ECO 7.16 291 eP 57 24.79 -3.9X  
 eS 58 39.21  
 TCE 11.72 70 eP 58 38.32 9.6X  
 TRN 12.04 71 eP 58 40.85 8.1X  
 TBH 12.30 72 eP 58 45.51 9.3X  
 LPAZ 23.40 168 P 00 38.70 -2.7  
 i 00 41.70  
 LPB 23.65 168 P 00 44.00 0.5  
 JSC 28.43 345 eP 01 27.01 0.4  
 BAO 33.26 132 Pd 02 10.20 0.8  
 RSNY 37.65 358 (P) 02 45.68 -0.3  
 0.6s 3.28nm 4.2mb  
 RTLL 38.13 174 ePc 02 38.50 -11.7X  
 ALQ 41.67 317 eP 03 18.10 -1.4  
 1.0s 4.00nm 4.0mb  
 GOL 43.84 323 ePc 03 37.37 0.2  
 0.6s 10.93nm 4.6mb  
 SRU 46.69 319 eP 03 59.12 -0.5  
 GLA 46.80 310 eP 04 00.73 0.3  
 EMUT 47.27 320 eP 04 04.30 0.1  
 ULM 47.39 340 eP 04 06.00 1.4  
 MSU 47.46 318 eP 04 05.91 0.2  
 ARUT 47.95 316 eP 04 09.61 0.2  
 BW06 48.22 324 eP 04 10.80 -0.7  
 1.0s 5.00nm 4.1mb  
 PLM 48.48 309 eP 04 13.65 0.1  
 PEC 48.92 310 eP 04 16.53 -0.2  
 GSC 49.22 312 eP 04 18.99 -0.1  
 TPNV 49.53 314 eP 04 22.08 0.6  
 0.9s 10.86nm 4.5mb  
 TNP 50.72 315 eP 04 31.60 1.0

0.7s 2.89nm 4.1mb  
 BONR 51.44 314 iP 04 36.49 0.3  
 KVN 51.77 315 (P) 04 37.58 -0.9  
 ORV 54.37 315 eP 04 58.29 0.9  
 NEW 55.73 326 eP 05 05.69 -1.4  
 VGB 56.49 321 eP 05 12.47 -0.1  
 KMFM 56.56 315 eP 05 14.32 1.1  
 FRB 56.95 2 eP 05 14.50 -0.8  
 0.5s 8.00nm 4.8mb  
 YKA 63.37 340 eP 05 57.70 -1.2  
 0.7s 5.90nm 4.6mb  
 TIC 67.40 86 P 06 24.84 -0.8  
 0.7s 4.00nm 4.3mb  
 LIC 67.43 86 P 06 25.18 -0.6  
 0.6s 8.00nm 4.7mb  
 KIC 67.70 86 Pc 06 27.06 -0.4  
 0.6s 11.00nm 4.8mb  
 MBC 73.88 350 eP 07 05.50 2.1  
 DAG 75.65 11 iPd 07 13.80 0.4  
 0.6s 5.33nm 4.4mb  
 GEC2 82.74 42 P 07 52.80 0.6  
 0.7s 0.64nm 3.5mb  
 e 07 58.90  
 QIS 145.63 243 ePKP 15 06.70 0.2  
 ASPA 149.23 234 iPKPc 15 16.10 3.9X  
 0.7s 22.00nm  
 S.D. = 1.0 on 46 of 52 obs.  
 % JAN 02, 1994 07h 35m 33.91± 2.74s  
 44.824 N ± 11.1km 10.028 E ± 21.4km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.9 (GEN).  
 BORS 0.60 194 P 35 46.43 0.4  
 S 35 55.07  
 PCP 1.09 256 P 35 55.22 0.7  
 S 36 08.68  
 FIN 1.44 245 P 35 59.43 -0.6  
 ROB 1.63 252 P 36 02.41 -0.4  
 S 36 21.17  
 ORX 1.66 300 P 36 03.05 -0.2  
 S 36 22.27  
 IMI 1.79 240 P 36 04.42 -0.6  
 ENR 1.96 253 P 36 07.62 0.0  
 BHB 1.97 271 P 36 07.94 0.3  
 RSP 1.99 280 P 36 08.63 0.5  
 PZZ 2.11 262 P 36 09.82 -0.1  
 S.D. = 0.5 on 10 of 10 obs.  
 JAN 02, 1994 07h 45m 23.82± 0.51s  
 46.110 N ± 7.1km 13.512 E ± 5.9km  
 DEPTH = 10.0km (geophysicist)  
 AUSTRIA (546)  
 MD 2.8 (LJU). 2.6 (TRI). ML 2.5 (VIE).  
 VOY 0.28 106 iPgC 45 29.90 0.2  
 eSg 45 34.80  
 TRI 0.44 156 iPgC 45 31.30 -1.4  
 iSg 45 38.90  
 LJU 0.71 95 iPg 45 37.90 0.0  
 iSg 45 50.00  
 CEY 0.74 120 ePg 45 39.30 1.0  
 eSg 45 50.40  
 KBA 0.98 353 iPgC 45 41.20 -1.3  
 i 45 41.80  
 iSg 45 55.60  
 VBY 1.36 116 iPnc 45 49.50 0.7  
 iSn 46 10.90  
 SCE 1.55 307 ePg 45 51.40 -0.3  
 PTJ 1.72 96 e(Pn) 45 53.70 -0.3  
 eSn 46 22.20  
 WTTA 1.73 312 iPgC 45 53.90 -0.4  
 iSg 46 17.70  
 WATA 1.81 313 iPgC 45 55.90 0.5  
 iSg 46 20.70  
 SQTA 1.94 306 iPgD 45 57.90 0.7  
 iSg 46 23.30  
 MOTA 2.07 308 iPgD 45 59.90 0.8  
 i 46 30.40  
 KHC 3.02 1 ePn 46 12.50 -0.1  
 ePg 46 20.00  
 e 46 26.30  
 eSn 46 49.40  
 eSg 46 59.00  
 e 47 08.00



02d 07h

S.D. = 0.8 on 13 of 13 obs.

\* JAN 02, 1994 07h 49m 23.69± 2.07s  
28.745 N ±21.0km 33.305 E ±10.4km  
DEPTH = 31.1 ± 10.2 km  
3.5mb ( 1 obs.)

EGYPT (553)

MD 4.1 (HLW).

AQBJ	1.81	57	Pd	49	54.46	1.2
HLW	2.04	303	ePb	49	56.50	-0.1
			eSb	50	16.00	
NAQJ	2.29	56	Pc	50	01.12	0.9
AYN	2.37	86	iPc	49	59.50	-1.7
DHLJ	2.76	41	Pc	50	07.18	0.6
LISJ	3.12	37	Pd	50	12.55	0.7
MKRJ	3.45	35	Pc	50	16.44	-0.3
MASJ	3.63	34	Pc	50	18.72	-0.5
KFNJ	3.72	33	P	50	20.52	0.2
SALJ	3.85	32	Pd	50	22.02	-0.2
BHL	5.52	21	Pn	50	43.00	-3.0
			Sn	52	25.00	
GEC2	25.09	328	P	54	47.50	0.5
	0.8s	0.99nm			3.5mb	

S.D. = 1.4 on 12 of 12 obs.

? JAN 02, 1994 07h 53m 25.98± 5.37s  
41.367 N ±44.0km 28.807 E ± 8.9km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.8 (ISK).

ISK	0.36	148	iPg	53	33.40	0.1
CTT	0.36	232	iPg	53	33.40	0.0
HRT	0.85	130	iPg	53	42.40	0.0
			eSg	53	54.90	
IZI	1.15	154	iPg	53	47.40	-0.1

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

? JAN 02, 1994 09h 19m 16.85± 1.02s  
44.448 N ± 6.7km 7.327 E ±12.7km  
DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.7 (GEN).

PZZ	0.17	289	P	19	20.47	0.0
			S	19	22.71	
STV	0.20	181	P	19	20.97	-0.1
			S	19	23.62	
ENR	0.23	163	P	19	21.66	0.1
			S	19	24.72	
BHB	0.40	353	P	19	24.79	0.0
			S	19	30.10	

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

& JAN 02, 1994 09h 40m 07.80s  
37.772 N 122.587 W  
DEPTH = 10.5km

CENTRAL CALIFORNIA (39)

<GM-P>. MD 2.7 (GM). Felt.

JEGM	0.28	159	ePd	40	13.45	-0.2
			eS	40	17.80	
NTYM	0.62	355	eP	40	19.73	-0.5
HMR	0.73	58	eP	40	21.79	-0.3
COE	0.89	125	eP	40	24.24	-0.6
ARN	0.94	116	eP	40	24.69	-1.0
			eS	40	38.13	
SAO	1.36	137	eP	40	31.82	-0.9
CMB	1.76	81	(P)	40	36.95	-1.6
ORV	1.97	25	eP	40	40.30	-1.3

8 obs. associated

? JAN 02, 1994 12h 53m 11.55±10.87s  
38.498 N ±52.4km 26.737 E ±79.4km  
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

ML 3.0 (ISK).

IZM	0.42	103	iPg	53	19.90	-0.3
			iSg	53	24.50	
CIN	1.39	130	ePg	53	49.00	12.0X
			iSg	53	55.00	
EDC	2.04	25	ePn	53	46.00	-0.3
KHL	2.20	94	ePn	53	49.00	0.3
IZI	2.80	48	ePn	53	57.70	0.4

S.D. = 0.7 on 4 of 5 obs.

& JAN 02, 1994 14h 11m 10.80s  
60.324 N 152.293 W  
DEPTH = 94.7km  
SOUTHERN ALASKA ( 2)  
<AEIC>.

RED	0.26	292	eP	11	24.22	0.9
			eS	11	35.55	
REF	0.26	309	eP	11	24.43	-0.6
			eS	11	35.17	
RDW	0.30	302	eP	11	24.64	-0.6
DFR	0.33	324	eP	11	24.44	-0.8
			eS	11	35.16	
NCT	0.40	307	eP	11	24.72	-0.9
ILIM	0.41	234	eP	11	25.00	-0.7
			eS	11	36.07	
INE	0.47	236	eP	11	25.11	-1.1
NKA	0.67	51	eP	11	28.69	1.0
HOM	0.74	154	eP	11	27.98	-0.4
			eS	11	41.47	
BKG	0.75	1	eP	11	27.64	-0.9
			eS	11	41.17	
OPT	0.82	215	eP	11	28.64	-0.6
SPU	0.87	8	iP	11	28.78	-1.0
CKL	0.88	359	eP	11	29.19	-0.7
CKT	0.88	3	eP	11	28.91	-1.0
BRLK	0.90	128	eP	11	28.76	-1.3
			eS	11	43.07	
CKN	0.90	3	eP	11	29.36	-0.8
CP2	0.94	2	eP	11	30.00	-0.7
CRP	0.95	4	eP	11	29.91	-0.8
CNPM	0.96	146	eP	11	29.64	-1.1
CGLM	1.00	8	iP	11	30.33	-0.9
SLKM	1.04	79	eP	11	30.27	-1.4
NCG	1.09	3	eP	11	31.26	-1.0
PDB	1.09	241	eP	11	31.39	-0.8
			eS	11	47.36	
AUL	1.11	212	eP	11	32.42	0.1
AUW	1.13	212	eP	11	31.96	-0.6
SUA	1.37	33	eP	11	34.98	-0.7
			eS	11	53.59	
MPA	1.46	82	eP	11	35.07	-1.6
CDD	1.56	207	eP	11	36.88	-1.1
PMS	1.63	54	P	11	37.70	-1.2
			S	11	57.90	
SKT	1.70	12	eP	11	38.49	-1.3
			eS	12	01.42	
SYI	1.72	182	eP	11	39.07	-0.9
PWA	1.78	40	eP	11	40.03	-0.7
SVW	1.82	297	P	11	39.60	-1.7
PLRM	2.00	49	eP	11	41.03	-2.6
PMR	2.00	49	eP	11	45.53	1.9
PWL	2.03	73	eP	11	41.56	-2.5
KNK	2.17	58	eP	11	43.93	-2.1
			eS	12	09.29	
GHO	2.19	47	eP	11	44.76	-1.6
			eS	12	09.74	
LTI	2.24	95	eP	11	44.17	-2.7
CUT	2.30	24	eP	11	46.65	-1.1
MTU	2.35	96	eP	11	45.89	-2.4
CFI	2.38	67	eP	11	45.85	-2.9
SML	2.43	51	eP	11	47.37	-2.2
SCM	2.85	56	eP	11	53.67	-1.6
HIN	2.88	86	eP	11	53.45	-2.1
KLU	3.33	67	eP	11	58.66	-3.1
GLB	4.29	71	eP	12	11.87	-3.2
BALM	4.94	77	eP	12	21.09	-3.0
FBA	5.04	22	eP	12	22.69	-2.7
IL1	5.12	27	eP	12	23.71	-2.7
ILB	5.12	27	eP	12	23.60	-2.8

51 obs. associated

\* JAN 02, 1994 14h 44m 10.68± 1.74s  
12.262 N ±13.4km 144.113 E ±14.7km  
DEPTH = 39.4 ± 14.7 km  
4.3mb ( 4 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUMO	1.51	29	eP	44	35.70	0.1
			eS	44	54.00	
PJG	1.51	29	eP	44	35.70	0.0
ASPA	37.08	196	eP	51	18.90	-0.3
	0.6s	7.50nm			4.8mb	
GUN	56.38	295	P	53	51.40	0.2
GKN	57.48	295	P	53	58.60	-0.2
HYB	63.33	283	eP	54	38.50	-0.1

INK	75.87	22	eP	55	54.00	-0.4
MBC	79.73	14	eP	56	16.00	0.4
	0.8s	2.00nm			4.1mb	
YKA	84.37	27	eP	56	38.70	-1.2
	0.6s	0.60nm			3.9mb	
RES	86.00	13	eP	56	48.50	0.6
	0.8s	2.00nm			4.4mb	
RTRS	144.18	125	iPKPd	03	33.00	-11.5X
RTLL	144.49	127	ePKPd	03	46.00	0.8
RTPR	146.45	127	e(PKP)	04	07.00	18.6X
LPZ	148.52	101	PKP	03	57.10	4.2X
LPB	148.53	102	PKP	03	57.00	4.4X

S.D. = 0.7 on 11 of 15 obs.

\* JAN 02, 1994 15h 14m 23.01± 0.48s  
33.460 S ± 7.1km 70.975 W ± 8.4km  
DEPTH = 70.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

MD 3.6 (SAN).

TACH	0.20	171	iP+	14	33.75	0.0
			iS	14	41.98	
PEL	0.40	38	iP+	14	35.39	0.2
			iS	14	44.61	
PCH	0.42	113	iPd	14	35.25	-0.1
			iS	14	44.76	
ROCH	0.49	356	iPd	14	36.12	0.0
			iS	14	46.16	
LCCH	0.50	268	iP+	14	36.33	0.4
			iS	14	46.12	
FCH	0.59	77	eP	14	37.33	0.1
			iS	14	48.15	
LVN	0.61	216	iP+	14	36.68	-0.4
CACH	0.73	155	eP	14	38.77	0.2
			eS	14	50.62	
JACH	0.84	23	eP	14	39.58	-0.3
			iS	14	52.75	

S.D. = 0.3 on 9 of 9 obs.

JAN 02, 1994 18h 59m 11.03± 0.38s  
40.205 N ± 3.7km 20.484 E ± 3.3km  
DEPTH = 5.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

ML 3.1 (THE), 3.1 (TIR). MD 3.5 (ATH).

LSK	0.10	122	iPg	59	13.50	0.1
			iSg	59	16.00	
TPE	0.37	284	iPg	59	16.50	-2.0
			iSg	59	24.20	
KBN	0.48	29	iPg	59	20.00	-0.6
			iSg	59	27.30	
SRN	0.49	229	iPg	59	21.40	0.5
			iSg	59	30.70	
IGT	0.68	190	iPg	59	24.50	-0.2
			eSg	59	35.12	
VLO	0.80	290	ePg	59	27.30	0.3
			iSg	59	39.80	
FNA	0.89	49	iPg	59	27.42	-1.2
			iSg	59	40.44	
OHR	0.94	15	iPg	59	28.90	-0.5
			i	59	41.20	
			i	59	43.00	
KZN	0.99	84	ePb	59	29.50	-0.8
TIR	1.23	338	ePn	59	36.10	1.7
			iSn	59	58.30	
LIT	1.54	93	iPbd	59	39.65	0.4
			eSb	00	00.24	
LACI	1.55	338	iPnc	59	40.00	0.8
			iSn	00	03.00	
GRG	1.64	62	iPbc	59	40.78	0.1
			eSb	00	02.02	
SKO	1.91	22	ePn	59	45.00	0.5
			iPg	59	47.00	
			iSg	00	12.50	
VAY	1.94	54	iPn	59	45.00	0.1
THE	1.94	77	ePb	59	45.60	0.6
			eSb	00	10.40	
VLS	2.03	178	ePb	59	49.00	2.7X
KNT	2.07	62	iPnd	59	46.12	-0.8
			eSn	00	12.00	
SOH	2.27	73	iPn	59	49.44	-0.4
			eSn	00	18.40	
PAIG	2.47	95	iPn	59	52.52	0.0
SRS	2.53	68	ePn	59	54.40	0.9
			eSn	00	25.02	
OUR	2.68	86	ePn	59	56.20	0.6



02d 19h

VLI 3.98 150 ePn 00 14.00 0.0  
S.D. = 0.8 on 22 of 23 obs.

? JAN 02, 1994 19h 15m 44.46± 2.02s  
22.828 N ±19.1km 121.025 E ±16.5km  
DEPTH = 5.0km (geophysicist)  
4.1mb ( 5 obs.)

TAIWAN REGION (243)  
ML 3.9 (BJI).

QZH 3.07 314 ePn 16 34.00 -0.4  
Sn 17 06.50

HKC 6.36 267 P 17 20.50 -0.6  
SSE 8.24 1 eP 17 46.50 -0.9

Z 16s 0.50um  
N 12s 0.40um  
E 12s 0.40um

NJ2 9.39 349 Pc 18 00.00 -3.4X  
Z 12s 0.37um

S 19 08.50  
GYA 13.55 288 eP 19 08.00 8.0X  
TIY 16.57 335 eP 19 42.30 3.1X

Z 12s 0.96um  
N 11s 0.34um

BJI 17.65 348 eP 19 53.00 0.4  
1.2s 8.00nm 3.7mb

Z 12s 0.60um  
LZH 19.92 315 eP 20 20.50 0.3

1.8s 30.00nm 4.3mb  
GTA 24.46 317 P 21 07.00 1.4

1.5s 14.00nm 4.4mb  
GEC2 83.79 321 PKP 28 20.10 3.8X

1.1s 1.81nm 4.2mb  
YKA 84.27 23 eP 28 18.10 -0.2

0.5s 0.10nm 3.3mb  
S.D. = 1.0 on 7 of 11 obs.

? JAN 02, 1994 19h 48m 23.67± 7.93s  
40.656 N ±16.3km 30.708 E ±51.8km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.7 (ISK).

EYL 0.43 258 iPg 48 32.50 0.0  
eSg 48 38.00

GPA 0.48 220 ePg 48 33.40 0.0  
eSg 48 42.40

IZI 0.99 252 ePn 48 42.50 -0.1  
ISK 1.32 289 ePn 48 48.00 0.0

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

JAN 02, 1994 20h 00m 51.17± 1.08s  
12.805 N ± 6.1km 144.698 E ± 5.2km  
DEPTH = 58.0 ± 8.8 km

4.8mb ( 28 obs.) 4.6Msz ( 12 obs.)  
SOUTH OF MARIANA ISLANDS (210)  
Felt on Guam.

GUMO 0.80 12 eP 01 06.80 0.2  
eS 01 21.00

PJG 0.80 12 eP 01 06.70 0.1  
DAV 19.67 255 ePc 05 18.20 -0.1

1.1s 101.27nm 5.0mb  
CTB 20.93 257 ePd 05 33.00 1.6

MNI 22.68 242 eP 05 50.00 1.2  
WKYJ 22.87 340 eP 05 51.60 1.0

QCP 23.02 277 eP 06 02.50 10.4X  
TKSJ 23.21 337 eP 05 58.90 5.1X

IIDJ 23.39 346 eP 05 54.30 -1.3  
BAG 23.61 282 ePc 05 58.80 0.8

KAKJ 23.65 351 eP 05 58.10 0.0  
CHJJ 23.71 348 eP 05 58.00 -0.6

MAT 24.34 347 (P) 06 04.00 -0.8  
0.9s 20.17nm 4.6mb

eS 10 16.00  
MTMJ 24.48 347 eP 06 05.90 -0.3

YONJ 24.49 337 eP 06 11.90 5.6X  
NIJ 24.86 349 eP 06 08.70 -1.0

SSE 28.30 314 Pc 06 45.00 3.7X  
Z 22s 0.90um 4.3Msz

NJ2 30.48 313 Pd 07 04.20 3.4X  
Z 20s 0.30um 3.9Msz

WHN 33.11 307 eP 07 24.00 0.1  
TIA 34.02 318 eP 07 30.80 -0.9

WB5 34.03 198 eP 07 28.50 -3.4X

i 07 38.20  
i 07 43.50

BJI 36.96 322 eP 07 55.00 -1.5  
1.0s 6.00nm 4.5mb

Z 20s 0.60um 4.4Msz  
eScP 14 01.50

ASPA 37.75 196 eP 08 01.50 -1.9  
0.7s 5.80nm 4.6mb

Z 22s 0.40um 4.2Msz  
TIY 37.97 317 eP 08 05.00 -0.2

Z 18s 1.45um 4.8Msz  
E 18s 0.53um

GYA 38.16 297 iPc 08 08.00 1.1  
1.0s 38.00nm 5.3mb

Z 20s 1.22um 4.7Msz  
PcP 10 22.00

XAN 38.75 309 P 08 11.50 -0.3  
Z 20s 1.15um 4.7Msz

HHC 40.26 320 P 08 28.20 4.0X  
1.0s 9.00nm 4.6mb

Z 20s 1.50um 4.8Msz  
N 16s 0.37um

E 16s 0.44um  
DZM 40.70 148 iPc 08 26.00 -1.9

MBL 41.66 216 iPc 08 35.00 -0.7  
LEM 41.69 244 iPd 08 38.50 2.2

CD2 41.77 302 iPc 08 36.60 0.0  
WARB 42.55 204 eP 08 42.50 -0.5

LZH 43.38 310 eP 08 50.20 0.3  
1.5s 42.00nm 5.0mb

Z 20s 0.60um 4.5Msz  
E 15s 0.48um

pP 09 00.00 33kmX  
SNG 43.73 267 eP 08 55.00 2.3

NNT 43.82 275 eP 08 55.30 1.8  
CHTO 44.33 284 eP 08 57.00 -0.6

GTA 47.57 312 eP 09 23.00 -0.2  
1.2s 10.00nm 4.7mb

Z 20s 0.86um 4.7Msz  
MRWA 50.13 213 eP 09 41.00 -1.8

YAK 50.31 351 iPc 09 44.50 0.8  
1.2s 35.00nm 5.3mb

Z 18s 0.60um 4.6Msz  
e(S) 16 50.00

eScS 19 29.00  
LSA 52.21 298 P 09 59.50 0.3

GUN 56.67 295 P 10 31.00 -0.7  
PKI 57.07 295 P 10 33.40 -1.1

KKN 57.19 295 P 10 34.40 -0.8  
DMN 57.34 295 P 10 35.60 -0.7

WMQ 57.56 314 P 10 37.30 0.0  
1.0s 6.90nm 4.7mb

Z 20s 0.59um 4.7Msz  
pP 10 47.00 32kmX

sP 10 53.20  
ScS 20 22.30

GKN 57.77 295 P 10 38.60 -0.6  
ANM 61.98 22 eP 11 05.79 -1.5

HYB 63.76 283 ePc 11 19.10 -0.7  
1.0s 25.00nm 5.2mb

NDI 64.32 296 iPc 11 20.00 -3.2X  
SVW 64.43 28 eP 11 23.28 -0.2

0.8s 14.14nm 5.0mb  
TTA 64.93 26 eP 11 25.07 -1.6

0.8s 3.53nm 4.4mb  
SLKM 66.75 29 eP 11 37.09 -1.2

PMR 67.55 28 eP 11 41.68 -1.6  
0.8s 28.33nm 5.3mb

NIL 67.64 301 iPc 11 47.02 2.5  
0.6s 0.02nm 2.3mb X

iS 20 41.98  
POO 68.09 285 iPd 11 47.50 0.1

FBA 69.00 25 eP 11 50.36 -1.9  
0.6s 3.68nm 4.5mb

KLU 69.02 29 eP 11 51.53 -1.0  
INK 75.15 22 eP 12 28.50 -0.2

1.0s 4.00nm 4.3mb  
MAIO 78.72 305 eP 12 50.00 0.7

MBC 79.07 14 Pc 12 50.90 0.6  
0.9s 102.00nm 5.7mb

MBC 79.07 14 P 12 51.70 1.4  
PcP 12 59.50

S 22 43.40  
S 22 45.20

S 22 45.30  
YKA 83.63 27 eP 13 10.00 -4.4X

0.6s 2.70nm 4.4mb

VGB 84.12 45 eP 13 18.20 0.9  
ORV 84.86 51 eP 13 21.38 0.3

ARN 85.30 53 eP 13 24.62 1.2  
DPW 85.32 42 eP 13 24.27 1.0

RES 85.35 13 eP 13 24.00 1.2  
1.0s 5.00nm 4.6mb

NEW 85.92 42 eP 13 27.01 0.7  
0.8s 22.03nm 5.4mb

KVN 87.54 51 eP 13 35.96 1.5  
BONR 87.66 52 eP 13 35.96 0.7

TPNV 89.49 52 eP 13 44.93 1.1  
0.8s 8.06nm 5.1mb

GSC 89.50 54 eP 13 44.73 0.9  
PEC 89.58 55 eP 13 44.46 0.3

0.9s 17.49nm 5.4mb  
OBN 89.65 327 (P) 13 42.00 -1.9

0.9s 3.10nm 4.6mb  
Z 19s 321.50um 7.8MszX

e 13 45.10  
e 13 51.60

DAG 90.06 356 iPc 13 45.10 -0.4  
0.7s 6.85nm 5.1mb

HVU 90.69 47 eP 13 49.94 0.7  
DUG 91.15 48 eP 13 52.15 0.8

1.0s 8.24nm 5.1mb  
KAF 91.36 336 eP 13 50.70 -1.0

0.4s 1.30nm 4.7mb  
ARUT 91.40 51 eP 13 54.00 1.4

MSU 92.13 50 eP 13 57.18 1.1  
DAU 92.21 48 eP 13 57.51 1.0

BW06 92.63 45 eP 13 58.62 0.3  
0.8s 2.36nm 4.7mb

EMUT 92.72 48 eP 13 59.47 0.7  
NUR 92.88 335 eP 13 59.60 0.9

SRU 93.17 49 eP 14 01.17 0.4  
PV09 94.39 49 eP 14 07.11 0.5

PV10 94.51 49 eP 14 07.51 0.5  
PV08 94.73 49 (P) 14 08.17 0.0

HFS 97.45 338 eP 14 18.70 -1.0  
0.3s 0.40nm 4.4mb

LKO 143.07 306 PKP 20 17.54 -3.7X  
0.6s 3.00nm

KIC 144.16 300 PKPc 20 21.53 -1.6  
0.7s 21.50nm

TIC 144.24 301 PKPc 20 21.79 -1.5  
0.5s 11.50nm

CFA 144.43 127 ePKPc 20 21.10 -2.0  
LIC 144.47 300 PKPc 20 22.69 -0.9

0.6s 42.00nm  
LPAZ 148.06 100 ePKP 20 31.26 1.0

S.D. = 1.1 on 85 of 95 obs.

? JAN 02, 1994 21h 28m 28.03± 3.15s  
39.979 N ±29.6km 28.975 E ± 8.2km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.7 (ISK).

IZI 0.52 47 iPg 28 37.90 -0.7  
eSg 28 47.90

EDC 0.93 294 ePn 28 45.50 -0.2  
EYL 1.08 57 ePn 28 49.00 0.6

CTT 1.24 341 iPn 28 51.40 0.4  
S.D. = 1.0 on 4 of 4 obs.

% JAN 02, 1994 22h 20m 58.36± 1.00s  
43.010 N ± 7.4km 18.730 E ± 6.0km  
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)  
ML 1.4 (TTG).

BRY 0.17 231 iPg 21 02.84 0.5  
iSg 21 05.79

NKY 0.28 135 iPg 21 04.61 0.4  
iSg 21 09.11

PLE 0.58 56 iPg 21 09.96 -0.3  
iSg 21 19.02

HCY 0.59 197 iPg 21 09.75 -0.5  
iSg 21 18.67

TTG 0.70 146 iPg 21 11.69 -0.5  
iSg 21 22.19

BDV 0.73 174 ePg 21 12.51 -0.2  
iSg 21 23.26

IVA 0.87 99 iPg 21 15.20 0.1  
iSg 21 28.07

PVY 1.00 114 iPg 21 17.85 0.4  
iSg 21 32.63



ULC	1.11	160	iPgd	21	19.44	0.2	TAF	2.00	168	iPn	00	42.00	2.4	VANCOUVER ISLAND REGION (25)	
			iSg	21	35.99					iSn	01	04.00		Mw 5.7 (GS), 5.6 (HRV). ML 5.5	
	S.D. = 0.4 on 9 of 9 obs.									i	01	07.50		(PGC). Felt strongly on Nootka	
										i	01	08.00		Island where items were knocked	
JAN 02, 1994	22h	21m	12.50±	0.73s			LIJA	2.00	274	iP	00	46.40	6.7X	from shelves. Also felt strongly	
			38.354 N ± 6.5km	22.263 E ± 8.0km			EJIF	2.07	262	P	00	39.63	-1.1	at Tahsis and Zeballos. Felt	
			DEPTH = 10.0km (geophysicist)				EHOR	2.13	300	iPc	00	42.01	0.5	mildly throughout much of	
GREECE										eS	01	09.30		Vancouver Island from Port Hardy	
	ML 3.1 (ATH). (364)						ALJ	2.16	268	iP	00	50.50	8.5X	to Victoria. Felt in high-rise	
AGG	0.67	5	iP	21	24.90	-0.9	MOMI	2.30	260	iP	00	49.00	5.0X	buildings at Vancouver and as	
ATH	1.21	108	ePn	21	35.50	0.5	CPS	2.36	246	iP	00	53.00	8.2X	far east as Harrison Lake. Depth	
VLS	1.33	263	ePn	21	36.80	-0.2				eS	01	25.00		from broadband displacement	
VLI	1.72	162	ePn	21	42.20	-0.4	NKM	2.41	237	iPn	00	46.00	0.5	seismograms.	
LIT	1.75	6	iP	21	42.30	-0.8				i	00	48.50		FAULT PLANE SOLUTION: P-Waves	
KZN	1.99	349	ePn	21	46.50	-0.1				iSn	01	12.50		NPl:Strike= 8 Dip=73 Slip= -90	
KNT	2.85	10	iP	21	59.10	0.3	NKM	2.41	237	iPn	01	05.60	20.1X	NP2: 188 17 -90	
OHR	2.98	338	ePn	22	02.30	1.6				i	01	07.00		Principal Axes:	
	S.D. = 1.0 on 8 of 8 obs.									iSn	02	46.50		T Plg=28 Azm= 98	
										i	02	47.00		P 62 278	
? JAN 02, 1994	23h	11m	34.05±	0.92s			GIBL	2.43	272	iP	00	50.80	4.9X	Comment: The focal mechanism is	
			28.100 S ± 7.8km	26.891 E ± 10.4km			BIT	2.53	245	iP	00	50.00	2.8	poorly controlled and	
			DEPTH = 5.0km (geophysicist)							iS	01	25.00		corresponds to normal	
REPUBLIC OF SOUTH AFRICA							RANB	2.59	268	eP	00	58.40	10.4X	faulting. The preferred fault	
	ML 3.4 (PRE). (584)						ACU	2.64	48	P	00	48.58	-0.3	plane is NPl.	
SEK	0.69	109	eP	11	48.20	0.4	SFS	2.66	264	iP	00	49.80	0.7	RADIATED ENERGY	
			S	11	57.00		TSY	2.84	241	eP	00	56.00	4.4X	No. of sta: 6 Focal mech. M	
BLF	1.18	211	iPc	12	06.30	9.7X				iS	01	30.00		Energy 1.0±0.3*10**13 Nm	
PRY	1.28	24	iPc	11	58.50	0.2	TZK	2.87	201	iP	00	53.50	1.5	MOMENT TENSOR SOLUTION	
			S	12	18.50					iS	01	28.00		Dep 19 No. of sta: 15	
BOSA	1.40	248	eP	12	03.60	3.4X	PAB	2.99	338	iPnc	00	54.90	1.1	Moment Tensor; Scale 10**17 Nm	
			S	12	29.70					iPg	01	05.50		Mxr=-0.86 Mtt= 0.38	
FRS	2.14	220	iPd	12	11.70	0.8				iSn	01	25.00		Mff= 0.48 Mrt= 1.72	
			S	12	37.50					iSg	01	41.00		Mrf=-2.56 Mtf= 3.21	
KSR	2.23	0	eP	12	06.50	-5.8X	EVAL	3.16	286	P	00	56.06	-0.1	Principal axes:	
			S	12	33.00		ECHE	3.21	28	P	00	58.20	1.3	T Val= 3.76 Plg=11 Azm=129	
SLR	2.66	28	iPd	12	18.10	-0.4	FIG	3.94	276	eP	01	08.50	1.2	N 1.25 52 26	
			S	12	49.50					iS	01	52.00		P -5.00 36 228	
HVD	2.78	206	eP	12	56.00	35.8X	GUD	3.98	346	iPc	01	08.18	0.2	Best Double Couple:Mo=4.4*10**17	
			S	13	24.00					eS	01	53.70		NPl:Strike=262 Dip=57 Slip= -20	
GRM	5.20	183	e(P)	12	53.50	-1.0	ETOR	4.10	9	iPd	01	10.56	1.0	NP2: 3 73 -145	
			S	13	14.00					eS	01	54.60		CENTROID, MOMENT TENSOR (HRV)	
BEW	5.65	220	eP	13	15.80	14.9X	EPLA	4.12	324	P	01	09.89	0.1	Data Used: GDSN	
			S	14	19.20		MOE	4.65	294	eP	01	16.50	-0.8	L.P.B.: 33S, 62C	
SUR	6.77	229	eP	13	32.00	15.3X				iSg	02	33.00		Centroid Location:	
			S	14	45.50		EROQ	4.81	32	iPc	01	17.48	-2.1	Origin Time 01:26:14.7 0.3	
CER	8.38	229	eP	13	28.00	-11.1X				eS	02	13.40		Lat 49.41N 0.05 Lon 126.91W 0.05	
			S	14	26.00		AVE	5.06	228	iPn	01	22.50	-0.6	Dep 21.4 2.1 Half-duration 1.5	
WIN	10.43	300	eP	14	04.00	-3.5X				i	02	10.00		Moment Tensor; Scale 10**17 Nm	
			S	15	46.00					iSn	02	17.00		Mxr=-1.24 0.07 Mtt= 0.02 0.09	
	S.D. = 1.0 on 5 of 13 obs.									i	02	19.00		Mff= 1.22 0.08 Mrt= 0.37 0.14	
JAN 03, 1994	01h	00m	05.22±	0.38s			MVO	5.43	325	iPd	01	27.50	-0.9	Mrf=-1.90 0.23 Mtf= 1.77 0.08	
			36.772 N ± 3.8km	2.922 W ± 3.6km						iS	02	27.50		Principal Axes:	
			DEPTH = 8.4 ± 2.7 km				ESEL	5.47	55	iPc	01	28.12	-0.8	T Val= 2.96 Plg=19 Azm=119	
			3.7mb ( 1 obs.)							iSg	02	58.50		N -0.13 36 14	
STRAIT OF GIBRALTAR							COI	5.51	310	iPnc	01	29.00	-0.5	P -2.82 47 231	
	MD 4.0 (RBA). mbLg 3.7 (MDD). (385)									Sn	02	29.00		Best Double Couple:Mo=2.9*10**17	
	Felt (V) in the Adra area, Spain.						EGRA	5.78	20	eP	01	36.80	3.6X	NPl:Strike=251 Dip=41 Slip= -26	
EGUA	0.52	277	P	00	15.52	-0.2	ECRI	5.84	3	eP	01	34.93	0.8	NP2: 1 74 -128	
ENIJ	0.61	71	P	00	17.47	0.0				eS	02	38.20		EDB 0.27 304 Pd 26 17.05 -0.6	
ECOG	0.72	315	P	00	18.97	-0.7				iSn	01	38.60	-0.7	ETB 0.38 156 eP 26 19.78 0.5	
ELOJ	1.05	291	iPd	00	24.77	-0.6	PTO	6.21	316	iPn	01	47.50		GDR 0.48 83 P 26 23.10 2.0	
			eS	00	40.90					Pg	02	12.50		BPBC 0.78 304 P 26 24.29 -1.9	
EHUE	1.07	14	iPc	00	24.96	-0.7	ELIZ	6.47	9	P	01	44.18	1.1		
			eS	00	41.90		EPF	6.73	21	Pn	01	47.00	0.2	BTB 0.85 107 eP 26 28.62 1.2	
MAL	1.20	268	iPc	00	26.50	-1.2				Sn	02	53.90			
			eS	00	44.60		TIO	6.86	213	iPn	01	47.50	-1.1	PHC 1.08 337 eP 26 30.54 -0.6	
ELUQ	1.33	307	eP	00	31.97	2.0				i	02	51.00		OZB 1.13 132 P 26 31.11 -1.0	
			eS	00	50.70					iSn	03	02.00		HOLB 1.27 317 eP 26 31.84 -2.3	
EMEL	1.47	181	eP	00	32.30	0.4	LPO	8.49	20	Pn	02	10.20	-1.1	ALB 1.34 109 P 26 35.15 0.1	
			eS	00	50.90		LFF	8.62	18	Pn	02	12.20	-0.8	MGB 1.54 117 eP 26 37.45 -0.6	
EBAN	1.55	334	iPd	00	33.99	0.9	CAF	8.98	23	Pn	02	18.80	0.8	NAB 1.87 104 P 26 42.86 0.1	
			eS	00	54.20		BGF	10.68	22	Pn	02	41.70	0.2	PFB 1.91 126 eP 26 42.03 -1.3	
EALH	1.62	47	P	00	34.58	0.5	KHC	17.23	39	eP	04	22.50	14.9X	BIB 2.28 97 eP 26 48.48 -0.1	
EPRU	1.86	277	eP	00	40.56	2.9	YKA	67.04	332	eP	11	01.20	0.7	OTR 2.29 135 P 26 47.60 -1.2	
			e	01	03.30					0.5s	0.30nm	3.7mb		WPB 2.31 90 eP 26 49.78 0.7	
EVIA	1.89	10	eP	00	39.76	1.6				S.D. = 1.2 on 45 of 55 obs.				OFK 2.38 137 P 26 48.66 -1.4	
			eS	01	03.50									PGC 2.43 115 eP 26 49.75 -0.9	
TOU	1.93	201	eP	00	40.00	1.4								OBC 2.45 133 P 26 51.78 0.7	
			eS	01	04.00									SNB 2.54 111 eP 26 52.23 -0.1	
ZAI	1.97	176	iP	00	38.00	-1.2								STW 2.58 126 P 26 51.36 -1.5	
			iS	01	00.00									VGZ 2.61 119 eP 26 52.89 -0.5	
														OOW 2.62 138 P 26 51.78 -1.7	
														HNB 2.77 98 P 26 55.56 0.0	



OSD	2.78	132	P	26	54.43	-1.5		3.0s	686.85nm	5.3mb	JSC	36.57	97	eP	33	17.45	-0.2
MCW	2.78	110	eP	26	55.13	-0.7	PMR	17.22	322 eP	30 16.09 4.0X	LHS	36.73	97	eP	33	18.75	-0.3
OSR	2.89	139	P	26	55.58	-1.8		1.8s	416.26nm	5.3mb	CBN	36.74	89	eP	33	19.00	0.0
BLN	3.04	123	P	26	58.07	-1.3	PEC	17.34	152 eP	30 14.97 1.2	CEH	36.98	94	ePc	33	21.20	0.2
HDW	3.22	129	P	27	00.65	-1.4		1.0s	217.51nm	5.2mb		0.7s	12.19nm			4.8mb	
MBW	3.32	105	P	27	03.32	-0.3	PFO	17.82	151 iPc	30 21.10 1.2	Z	19s	9.25um			5.6Msz	
GMW	3.42	128	eP	27	03.28	-1.5	PLM	17.93	152 eP	30 20.75 -0.5			ec	33	25.59	15kmX	
ONR	3.48	144	P	27	03.89	-1.7	GOL	18.15	115 iPc	30 23.91 -0.2	LBNH	37.10	77	P	33	30.00	8.0X
JCW	3.54	114	P	27	06.25	-0.2		1.3s	145.26nm	5.0mb	Z	20s	7.94um			5.5Msz	
RPW	3.68	108	P	27	08.15	-0.5	GLD	18.21	115 eP	30 25.69 1.0	PNJ	37.35	83	iP	33	23.68	-0.4
RMW	4.00	123	eP	27	12.32	-0.7		2.1s	1077.71nm	5.6mb			PP	34	48.24		
GHW	4.02	130	P	27	12.80	-0.5	CRP	18.31	319 eP	30 26.14 0.4			PcP	35	43.16		
BMW	4.02	143	eP	27	11.10	-2.3	CP2	18.34	319 eP	30 29.67 3.4X			ScS	43	39.10		
RVC	4.24	129	P	27	15.06	-1.5	COL	18.83	332 eP	30 35.15 3.2X	LSCT	37.55	81	eP	33	25.46	-0.3
LON	4.45	130	eP	27	18.44	-1.1	FBA	18.83	332 eP	30 32.07 0.2		1.2s	76.21nm			5.4mb	
TDL	4.55	136	P	27	20.86	-0.1		1.5s	92.44nm	4.8mb	Z	20s	23.40um			6.0Msz	
KMOR	4.65	150	P	27	20.14	-2.2	GLA	18.87	148 eP	30 33.10 0.4	HON	37.58	232	P	33	40.00	13.8X
SHW	4.66	138	eP	27	21.48	-1.1	INK	18.94	352 eP	30 35.50 2.3	Z	20s	1.94um			4.9Msz	
ETW	4.76	114	P	27	23.80	-0.2		1.0s	16.00nm	4.2mb X	SGS	37.74	98	eP	33	27.47	0.0
MTMW	4.80	139	P	27	23.07	-1.5	SVW	19.76	316 eP	30 42.12 -0.7	PPM	37.97	134	eP	33	31.50	1.4
TBM	4.83	120	P	27	25.03	0.1		1.7s	422.35nm	5.5mb	HBF	37.99	98	eP	33	29.44	-0.1
ASR	4.99	134	P	27	26.52	-0.6	ULM	19.81	77 ePd	30 42.50 -0.8	HRV	38.19	79	ePc	33	30.43	-0.7
EBG	5.00	122	P	27	26.52	-0.7	TTA	20.68	321 eP	30 52.25 -0.2			epPc	33	36.39	20kmX	
COR	5.65	154	ePc	27	36.77	0.3		1.8s	174.31nm	5.1mb	CBM	38.24	71	(P)	33	30.21	-1.3
VGB	5.84	134	eP	27	38.83	-0.2	ANMO	20.96	127 ePc	30 56.00 0.3		1.4s	73.64nm			5.3mb	
DPW	5.95	105	eP	27	39.50	-1.2	ALQ	20.96	127 eP	30 55.79 0.0	Z	19s	9.40um			5.6Msz	
NEW	6.52	99	eP	27	47.52	-1.1		1.1s	141.57nm	5.3mb	PET	44.73	304	eP	34	32.00	7.3X
YBH	8.48	159	eP	28	15.52	-0.6	TUC	21.09	140 eP	30 57.99 1.1		1.9s	350.00nm			5.9mb	
SIT	8.95	328	eP	28	19.67	-2.8		1.4s	201.01nm	5.3mb	Z	20s	2.00um			5.0Msz	
LBFM	9.04	156	eP	28	25.07	1.0	SDN	21.13	298 P	31 10.00 13.0X	DAG	46.04	18	iPc	34	35.20	0.4
FHC	9.13	167	eP	28	25.67	0.6	Z	19s	22.57um	5.6Msz		0.9s	16.81nm			5.0mb	
KMPM	9.49	168	eP	28	30.62	0.5	IMA	21.46	330 eP	31 00.62 0.2			iPP	34	42.30	24kmX	
WDC	9.61	160	eP	28	30.21	-1.5		1.4s	155.87nm	5.2mb	YAK	53.18	325	eP	35	31.50	1.7
LMEM	9.89	156	eP	28	37.39	1.7	ACO	23.82	113 iPc	31 24.00 0.2		1.8s	70.00nm			5.3mb	
MIN	10.06	157	ePc	28	39.30	1.3	PCO	25.13	110 iPd	31 37.20 0.8	Z	17s	5.00um			5.6MszX	
BUT	10.24	106	ePc	28	39.40	-1.1	ANM	25.15	321 eP	31 38.22 1.9	N	16s	2.30um				
HEMT	10.31	107	eP	28	39.90	-1.6	WMOK	25.37	116 ePc	31 38.94 0.2	E	19s	2.70um				
LRM	10.40	107	eP	28	41.20	-1.5		1.3s	301.86nm	5.8mb			e	36	40.00	322kmX	
HRY	10.41	101	eP	28	41.70	-1.1	Z	22s	18.17um	5.5Msz			eSSS	43	19.00		
MCMT	10.65	112	ePc	28	44.30	-1.8	OCO	25.61	113 iPc	31 42.50 1.6	YSS	56.58	305	eP	35	53.37	-1.4
ORV	10.83	158	eP	28	47.39	-1.0	TUL	26.37	110 iPd	31 48.10 0.2		1.8s	130.00nm			5.7mb	
BGMT	10.93	109	eP	28	47.80	-2.1	MBC	26.79	4 eP	31 54.00 2.6	Z	17s	2.40um			5.4MszX	
SXM	11.03	103	eP	28	50.40	-0.9		1.3s	47.00nm	5.0mb	N	17s	1.40um				
TPMT	11.41	110	eP	28	56.20	-0.4	CCM	27.87	101 ePc	32 01.97 0.3	E	17s	1.00um				
NTYU	11.70	164	eP	29	01.55	1.3	UYO	28.34	111 iPc	32 05.30 -0.6			sPc	36	01.64		
PTI	12.08	119	eP	29	06.27	0.8	RES	28.37	17 eP	32 06.50 0.7	SJG	57.46	101	(P)	35	58.93	-2.4
HMR	12.10	161	eP	29	07.00	1.4		1.0s	9.00nm	4.5mb	TOV	61.50	110	eP	36	29.70	0.4
BKS	12.28	163	eP	29	08.37	0.3	FVM	28.44	100 eP	32 05.64 -1.1	BOD	61.68	328	eP	36	27.00	-3.0X
KVN	12.33	147	eP	29	10.41	1.6		0.8s	83.98nm	5.5mb		1.5s	43.00nm			5.4mb	
CMB	12.55	156	eP	29	11.31	-0.4	MIAR	28.63	109 ePc	32 09.50 1.0	SDV	61.70	111	eP	36	30.00	-0.8
HVU	12.58	124	eP	29	13.63	1.5		1.4s	214.07nm	5.7mb	BOG	63.07	117	eP	36	41.00	0.9
STAN	12.75	163	ePc	29	15.09	0.8	Z	20s	7.41um	5.3Msz	PSO	64.05	122	eP	36	49.00	2.4
MHC	12.92	161	ePc	29	17.69	1.0	ELC	29.62	100 eP	32 16.36 -1.0	HFS	65.92	20	eP	36	56.80	-0.8
ARN	12.93	161	iPc	29	18.14	1.4	OXF	31.23	105 eP	32 31.40 -0.2		1.1s	14.80nm			5.1mb	
COE	12.99	162	iPc	29	18.67	1.1	Z	20s	1.57um	4.7Msz	Z	17s	1.36um			5.2MszX	
BONR	13.24	149	eP	29	22.62	1.5	ACTO	32.20	83 P	32 39.80 -0.3			LR	00	34.00		
MEMM	13.30	152	eP	29	23.28	1.7	TYNO	32.57	83 P	32 42.77 -0.5	MAT	66.10	299	eP	36	58.00	-1.1
MMPM	13.33	152	eP	29	24.10	1.8	STCO	32.97	83 P	32 46.26 -0.4	Z	20s	0.71um			4.9Msz	
TNP	13.50	146	eP	29	25.76	1.3	WLVO	33.13	81 P	32 47.21 -0.9			eS	45	57.00		
SAO	13.51	161	eP	29	25.23	0.8	FRB	33.55	43 eP	32 52.00 0.4	CIT	66.45	324	eP	37	00.50	-0.7
DUG	13.70	129	ePc	29	27.84	0.8		1.0s	7.00nm	4.5mb	KAF	66.47	13	eP	37	01.20	0.1
MTUM	13.71	151	eP	29	28.65	1.5	YSNY	33.73	84 eP	32 53.03 -0.4	UPP	67.02	19	iP	37	04.50	-0.1
EW06	13.77	114	eP	29	29.37	1.4		0.8s	53.80nm	5.5mb	RUV	67.14	202	iPc	37	04.80	-1.0
BALM	14.33	328	eP	29	36.43	4.2X	Z	22s	6.45um	5.3Msz		1.5s	461.70nm			6.4mb X	
DAU	14.35	125	eP	29	39.64	0.9	GAC	34.19	77 eP	32 56.50 -0.8	VAH	67.25	202	iPc	37	05.50	-1.0
YKA	14.45	23	eP	29	39.50	3.0	MYNC	34.23	99 ePc	32 57.97 0.2		1.4s	388.60nm			6.4mb X	
	0.8s	15.30nm			4.6mb			1.3s	68.33nm	5.4mb	CN2	67.59	312	P	37	06.20	-2.3
TPNV	14.86	145	eP	29	43.62	1.3	Z	20s	0.66um	4.4MszX		1.2s	12.00nm			4.9mb	
EMUT	15.02	125	eP	29	44.85	0.5			ed	33 04.59 23kmX	Z	18s	1.51um			5.3Msz	
ARUT	15.30	136	eP	29	48.85	0.9	MCWV	34.33	89 ePc	32 57.45 -1.2	N	15s	0.82um				
ISA	15.30	154	ePc	29	49.42	1.5		1.4s	169.91nm	5.8mb	E	15s	0.08um				
MSU	15.31	132	eP	29	48.88	0.7	Z	22s	8.47um	5.4Msz			epP	37	15.00	28kmX	
BCH	15.33	159	eP	29	49.66	1.3	NAV	35.03	93 eP	33 05.30 0.6	NUR	67.72	15	eP	37	08.00	-1.0
SRU	15.69	126	eP	29	53.41	0.4	RSNY	35.31	78 eP	33 07.37 0.4	IRK	69.54	329	eP	37	20.00	-0.4
ABL	15.86	157	eP	29	56.14	0.9		1.4s	54.04nm	5.3mb		1.6s	65.00nm			5.5mb	
KLU	15.92	325	eP	29	59.09	3.3X	BLA	35.33	93 eP	33 07.93 0.7	Z	16s	2.46um			5.5MszX	
FFC	15.95	62 (P)		29	53.45	-2.7		0.6s	19.76nm	5.2mb	N	16s	1.55um				
GSC	16.15	149	ePc	30	00.41	1.5	BINY	35.51	82 ePc	33 08.98 0.3	E	18s	1.54um				
TOA	16.41	326	eP	30	07.00	5.1X		0.8s	31.21nm	5.3mb			e	37	28.00	26kmX	
RSSD	16.48	101	eP	30	01.48	-1.7			epPc	33 14.61 19kmX			e	37	47.80		
	1.2s	87.72nm			4.8mb		GOGA	35.71	101 eP	33 09.61 -0.8	PPN	69.90	203	iPc	37	21.80	-1.1
PV09	16.87	125	eP	30	09.05	0.8		1.0s	82.49nm	5.6mb		1.5s	291.50nm			6.2mb	
SSK	16.88	153	eP	30	10.64	2.4	Z	21s	4.47um	5.2Msz	PPT	69.97	203	iPc	37	22.40	-0.9
PV10	17.01	125	eP	30	10.99	1.1			ed	33 14.08		1.5s	430.40nm			6.4mb X	
PV08	17.08	124	eP	30	10.57	-0.2			epPc	33 16.07 22kmX	SNY	69.98	311	eP	37	21.00	-2.2
SLKM	17.12	318	eP	30	14.37	3.6X	PRM	35.98	99 eP	33 11.96 -0.8	AFR	69.99	203	i			



[illegible]



03d 01h

LPAZ 2.18 118 iPc 57 14.00 0.0  
 LR 07 52.00  
 LPB 2.33 123 P 57 16.00 0.7  
 Z 18s 2.75um  
 LR 07 36.00  
 NNA 7.29 296 eP 58 15.00 -0.9  
 0.5s 10.56nm 4.2mb  
 eS 59 31.00  
 BAO 21.34 94 Pc 01 02.70 0.8  
 SOB1 29.18 82 (P) 02 14.00 -0.2  
 LIC 67.93 77 P 07 07.17 -1.3  
 0.3s 1.00nm 4.1mb  
 KIC 68.24 77 P 07 09.29 -1.1  
 0.2s 4.50nm 4.8mb  
 LKO 68.52 73 P 07 10.91 -1.2  
 0.3s 2.00nm 4.3mb  
 YKA 84.94 341 eP 08 43.00 0.9  
 0.8s 10.00nm 4.6mb  
 INK 94.70 341 eP 09 29.00 1.2  
 WB2 137.54 215 ePKP 15 29.10 -2.0  
 0.9s 3.70nm  
 WRA 137.55 215 PKP 15 31.10 -0.1  
 0.7s 1.00nm  
 POO 145.42 79 iPKPc 15 46.50 1.5  
 MAT 147.05 315 ePKP 15 49.00 1.8  
 0.7s 5.48nm  
 GBA 148.56 89 PKPc 15 54.60 4.5X  
 0.5s 5.00nm  
 GKN 153.40 57 PKP 16 06.00 8.8X  
 DMN 153.94 58 PKP 16 07.10 9.1X  
 KKN 154.01 57 PKP 16 07.00 8.9X  
 PKI 154.20 58 PKP 16 07.20 8.7X  
 GUN 154.44 57 PKP 16 08.80 10.0X  
 S.D. = 1.4 on 14 of 20 obs.

JAN 03, 1994 02h 24m 20.51± 1.72s  
 41.449 N ±13.3km 23.059 E ± 5.1km  
 DEPTH = 5.0km (geophysicist)  
 GREECE-BULGARIA BORDER REGION (363)  
 ML 2.5 (THE).

KNT 0.31 203 iPgc 24 27.21 0.4  
 eSg 24 31.38  
 VAY 0.39 251 iPgc 24 28.40 0.1  
 0.2s 30.00nm  
 iSg 24 34.00  
 SRS 0.52 129 iPgc 24 30.70 -0.3  
 eSg 24 38.33  
 SOH 0.67 160 ePg 24 33.60 -0.2  
 GRG 0.70 225 iPgc 24 34.17 -0.3  
 eSg 24 44.54  
 THE 0.82 185 iPgc 24 36.50 -0.3  
 eSg 24 48.22  
 OUR 1.32 148 ePb 24 45.62 0.3  
 eSb 25 04.09  
 LIT 1.41 198 iPb 24 47.18 0.2  
 FNA 1.43 243 ePb 24 47.18 -0.1  
 PAIG 1.59 163 ePb 24 49.66 0.3  
 S.D. = 0.3 on 10 of 10 obs.

& JAN 03, 1994 04h 22m 23.12s  
 37.635 N 118.953 W  
 DEPTH = 8.2km  
 CALIFORNIA-NEVADA BORDER REGION (40)  
 <GM-P>. MD 3.2 (GM). ML 3.0  
 (GS). Multiple event.

MEMM 0.03 19 iPc 22 24.58 -0.3  
 MMPM 0.06 247 iPc 22 25.01 -0.4  
 HTRC 0.18 126 P 22 26.84 -0.3  
 MRGM 0.36 84 eP 22 30.40 0.0  
 MTUM 0.42 132 ePd 22 31.20 -0.5  
 BCKR 0.47 82 P 22 32.50 -0.1  
 CWCR 0.53 105 P 22 33.58 -0.3  
 BONR 0.61 58 iPc 22 34.82 -0.6  
 MSTM 1.18 284 P 22 44.88 -0.5  
 CMB 1.20 290 eP 22 45.31 -0.4  
 TNP 1.44 71 eP 22 50.19 0.4  
 KVN 1.56 25 eP 22 52.18 0.8  
 WLHM 1.57 161 P 22 52.04 0.5  
 BRMM 1.69 242 P 22 54.61 1.5  
 WCHM 1.89 158 P 22 57.84 1.7  
 VPEN 1.91 151 P 22 58.68 2.2  
 HVC 1.95 230 P 22 58.58 1.6  
 NMC 1.98 154 P 22 59.59 2.3  
 ISA 2.01 169 eP 22 59.66 2.0  
 eS 23 25.94

WORM 2.02 163 P 23 00.21 2.3  
 CSTL 2.02 271 P 23 00.77 2.9  
 HJSM 2.04 247 P 22 59.90 1.7  
 SFL 2.06 252 P 23 00.92 2.5  
 ARN 2.07 263 eP 22 59.89 1.3  
 BLRM 2.09 243 P 23 02.03 3.2  
 PHAM 2.14 213 (P) 23 00.45 0.9  
 LRC 2.17 231 P 23 01.75 1.7  
 HSPM 2.19 249 P 23 02.58 2.2  
 WBSM 2.19 162 P 23 03.49 2.9  
 COE 2.20 261 eP 23 01.05 0.6  
 TPNV 2.26 107 ePn 23 01.92 0.4  
 CRGC 2.47 195 P 23 08.18 3.8  
 BPRM 2.54 242 P 23 06.42 1.1  
 BCH 2.61 201 eP 23 06.95 0.6  
 ORV 2.77 315 eP 23 08.19 -0.4  
 ABL 2.79 185 eP 23 10.36 1.3  
 GSC 2.90 143 (Pn) 23 12.81 2.3  
 ARUT 4.37 86 ePg 23 46.47 15.0  
 38 obs. associated

& JAN 03, 1994 04h 23m 55.83s  
 37.635 N 118.948 W  
 DEPTH = 8.1km  
 CALIFORNIA-NEVADA BORDER REGION (40)  
 <GM-P>. MD 3.0 (GM). ML 3.0  
 (BRK), 3.0 (GS). Multiple event.

MEMM 0.03 13 eP 23 57.06 -0.5  
 MMPM 0.07 249 eP 23 57.77 -0.4  
 CLKR 0.11 114 P 23 58.40 -0.3  
 MRGM 0.35 84 eP 24 02.98 -0.1  
 MTUM 0.42 132 eP 24 03.79 -0.5  
 BCKR 0.46 82 P 24 05.13 -0.1  
 BONR 0.60 58 eP 24 07.42 -0.6  
 FRI 0.88 224 P 24 12.50 -0.4  
 CMB 1.21 290 eP 24 17.80 -0.7  
 eS 24 33.54  
 TNP 1.44 71 eP 24 22.89 0.5  
 MNHM 1.56 290 P 24 24.89 1.0  
 KVN 1.56 25 eP 24 25.39 1.3  
 BAVM 1.65 271 P 24 30.77 5.5  
 BRMM 1.70 242 P 24 27.30 1.4  
 BMSM 1.77 237 P 24 29.43 2.5  
 VPEN 1.91 151 P 24 31.37 2.2  
 HVC 1.96 230 P 24 30.88 1.2  
 NMC 1.98 155 P 24 32.22 2.2  
 RCWM 1.98 148 P 24 32.93 2.9  
 ISA 2.00 169 eP 24 31.70 1.3  
 eS 24 58.56  
 EKH 2.03 242 P 24 32.64 2.0  
 ARN 2.08 263 eP 24 32.38 1.0  
 BSLM 2.10 247 P 24 33.40 1.7  
 WOFM 2.10 175 P 24 34.02 2.1  
 HSPM 2.11 257 P 24 34.10 2.2  
 PHAM 2.14 213 (P) 24 34.03 1.7  
 LRC 2.18 231 P 24 34.40 1.6  
 WBSM 2.19 162 P 24 36.00 2.7  
 COE 2.20 261 (P) 24 34.83 1.6  
 CSR 2.21 253 P 24 34.75 1.5  
 TPNV 2.26 107 (P) 24 36.44 2.3  
 DIL 2.29 250 P 24 37.54 3.0  
 EUC 2.35 257 P 24 38.20 2.8  
 BCH 2.61 201 eP 24 39.73 0.6  
 ORV 2.77 315 (P) 24 42.44 1.1  
 eS 25 17.80  
 ABL 2.79 185 eP 24 42.96 1.2  
 GSC 2.90 143 (P) 24 44.19 1.0  
 37 obs. associated

& JAN 03, 1994 04h 47m 46.53± 0.64s  
 44.384 N ± 5.9km 7.356 E ± 6.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.0 (GEN).

STV 0.14 189 P 47 50.08 0.1  
 S 47 52.23  
 ENR 0.16 164 P 47 50.68 0.3  
 S 47 53.24  
 PZZ 0.22 304 P 47 51.36 0.0  
 S 47 54.43  
 ROB 0.38 103 P 47 55.07 0.7  
 S 48 01.02  
 BHB 0.46 352 P 47 55.89 0.0  
 S 48 02.07  
 IMI 0.61 141 P 47 58.14 -0.7

FIN 0.64 106 P 47 58.91 -0.4  
 S.D. = 0.6 on 7 of 7 obs.

JAN 03, 1994 04h 53m 20.82± 0.39s  
 44.380 N ± 2.9km 7.319 E ± 3.5km  
 DEPTH = 14.3 ± 3.3 km  
 NORTHERN ITALY (545)  
 ML 2.3 (GEN), 2.1 (LDG).

STV 0.14 178 P 53 24.63 0.0  
 S 53 26.78  
 ENR 0.17 155 P 53 25.22 0.0  
 S 53 27.65  
 PZZ 0.20 309 P 53 25.82 0.1  
 S 53 29.11  
 TOUF 0.37 188 Pg 53 28.56 -0.2  
 Sg 53 33.14  
 AUTN 0.39 169 Pg 53 28.69 -0.5  
 Sg 53 34.12  
 ROB 0.40 102 P 53 29.48 0.2  
 S 53 35.38  
 SAOF 0.43 157 Pg 53 29.78 0.1  
 Sg 53 35.55  
 BHB 0.46 355 P 53 29.98 -0.3  
 S 53 36.45  
 AURF 0.49 179 Pg 53 30.31 -0.5  
 Sg 53 36.91  
 MVIF 0.50 194 Pg 53 30.41 -0.5  
 SBF 0.52 171 Pg 53 30.70 -0.6  
 Sg 53 37.90  
 IMI 0.62 139 P 53 32.87 -0.1  
 S 53 40.92  
 FIN 0.66 105 P 53 33.74 0.1  
 S 53 42.71  
 RSP 0.77 357 P 53 35.22 -0.4  
 PCP 0.89 79 P 53 38.31 0.7  
 FRF 0.95 211 Pg 53 38.90 0.4  
 Sg 53 49.70  
 LRG 1.16 217 Pg 53 42.40 0.4  
 Sg 53 57.00  
 LMR 1.20 210 Pg 53 43.50 0.8  
 Sg 53 57.40  
 S.D. = 0.4 on 18 of 18 obs.

? JAN 03, 1994 04h 56m 18.05± 1.14s  
 44.402 N ± 6.9km 7.368 E ± 15.8km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.6 (GEN).

STV 0.16 191 P 56 21.67 -0.1  
 S 56 23.81  
 ENR 0.18 168 P 56 22.26 0.1  
 S 56 24.77  
 PZZ 0.22 298 P 56 22.90 0.1  
 S 56 26.01  
 BHB 0.45 350 P 56 27.09 0.0  
 S 56 33.16  
 S.D. = 0.2 on 4 of 4 obs.

& JAN 03, 1994 04h 57m 27.77s  
 64.589 N 150.989 W  
 DEPTH = 25.1km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.7 (AEIC), 2.9  
 (PMR).

MLY 0.46 13 iP 57 37.03 -0.3  
 BWN 0.78 122 eP 57 43.04 0.4  
 eS 57 54.01  
 NEA 0.83 90 eP 57 43.39 0.0  
 eS 57 53.84  
 KTH 1.04 178 eP 57 45.78 -1.0  
 MDM 1.24 71 eP 57 49.04 -0.5  
 S 58 05.98  
 MCK 1.24 133 eP 57 49.02 -0.6  
 WRH 1.26 94 eP 57 49.23 -0.6  
 eS 58 06.35  
 CCB 1.37 86 eP 57 50.74 -0.7  
 eS 58 08.96  
 FBA 1.41 76 eP 57 51.09 -0.8  
 eS 58 12.70  
 RND 1.52 141 eP 57 53.17 -0.4  
 GLM 1.59 74 eP 57 54.24 -0.4  
 HDA 1.76 94 eP 57 57.40 0.4  
 ILB 1.77 82 eP 57 56.13 -1.1  
 IL1 1.77 82 eP 57 56.11 -1.1



IM3 1.82 322 eP 57 57.21 -0.7  
 IMA 1.87 324 eP 57 57.72 -1.0  
 eS 58 25.47  
 CUT 2.22 171 eP 58 02.85 -0.7  
 DJE 2.38 101 eP 58 06.35 0.4  
 DDM 2.38 107 eP 58 05.45 -0.6  
 SKT 2.63 186 eP 58 09.12 -0.4  
 TTA 2.78 236 eP 58 15.55 3.8  
 PWA 2.99 170 eP 58 21.90 7.3  
 FYU 3.11 48 eP 58 16.03 -0.2  
 PMR 3.12 163 eP 58 19.70 3.2  
 TOA 3.31 137 P 58 20.80 1.7  
 CGLM 3.33 188 eP 58 18.47 -1.0  
 CRP 3.38 190 eP 58 23.06 2.8  
 eS 59 10.30  
 CP2 3.39 190 eP 58 24.50 4.1  
 KNK 3.39 159 eP 58 21.37 1.1  
 BGL 3.40 191 eP 58 20.58 0.1  
 CKN 3.42 190 eP 58 19.64 -1.1  
 SPU 3.46 189 eP 58 20.36 -0.9  
 BM3 3.86 40 eP 58 25.27 -1.6  
 KLU 3.87 141 eP 58 28.05 0.9  
 SVW 4.09 213 eP 58 35.10 4.9  
 35 obs. associated

JAN 03, 1994 05h 52m 27.61± 0.10s  
 36.028 N ± 2.4km 100.104 E ± 2.0km  
 DEPTH = 8.2km (geophysicist)  
 5.8mb (148 obs.) 5.5MsZ (38 obs.)  
 QINGHAI, CHINA (325)

Mw 5.7 (GS), 5.7 (HRV). Five  
 people injured and at least 56  
 houses damaged in the Gonghe  
 area. Felt at Xining and  
 Lanzhou. Depth from broadband  
 displacement seismograms.

FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=313 Dip=43 Slip= 90  
 NP2: 133 47 90

Principal Axes:  
 T Plg=88 Azm= 43  
 P 2 223

Comment: The focal mechanism is  
 poorly controlled and  
 corresponds to reverse  
 faulting. The preferred fault  
 plane is not determined.

RADIATED ENERGY  
 No. of sta: 5 Focal mech. F  
 Energy 7.2±0.9\*10\*\*12 Nm

MOMENT TENSOR SOLUTION  
 Dep 8 No. of sta: 5  
 Moment Tensor; Scale 10\*\*17 Nm

Mrr= 2.65 Mtt=-2.80  
 Mff= 0.15 Mrt= 1.68  
 Mrf= 0.27 Mtf= 2.87

Principal axes:  
 T Val= 3.58 Plg=56 Azm=315  
 N 1.20 32 113  
 P -4.78 10 210

Best Double Couple: Mo=4.2\*10\*\*17  
 NP1: Strike=333 Dip=45 Slip= 139  
 NP2: 94 63 53

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN  
 L.P.B.: 35S, 68C

Centroid Location:  
 Origin Time 05:52:36.0 0.3  
 Lat 35.71N 0.03 Lon 100.51E 0.03

Dep 15.0 BDY Half-duration 1.7  
 Moment Tensor; Scale 10\*\*17 Nm

Mrr= 3.35 0.08 Mtt=-1.49 0.08  
 Mff=-1.85 0.11 Mrt=-2.20 0.23  
 Mrf= 0.42 0.26 Mtf= 2.17 0.07

Principal Axes:  
 T Val= 4.23 Plg=67 Azm=169  
 N 0.07 18 309  
 P -4.30 14 43

Best Double Couple: Mo=4.3\*10\*\*17  
 NP1: Strike=156 Dip=35 Slip= 123  
 NP2: 299 61 69

LZH 3.03 88 Pn 53 18.00 1.1  
 N 10s 434.00um  
 Pg 53 20.20  
 GTA 3.38 356 Pn 53 24.00 2.1  
 Pg 53 28.40

CD2 5.95 148 iPnc 54 08.00 2.5  
 ePg 54 20.00  
 Sg 55 40.00  
 XAN 7.50 103 Pn 54 16.00 -3.9X  
 Z 12s 26.60um  
 Pg 54 44.00  
 Sg 56 23.50  
 BTO 9.03 57 P 54 40.00 -1.3  
 N 10s 29.60um  
 E 11s 42.40um  
 ENH 9.73 123 ePc 54 49.19 -1.7  
 LSA 9.82 233 ePc 54 53.01 0.5  
 TIY 10.02 77 iPc 54 51.00 -4.0X  
 0.8s 87.00nm 6.3mb  
 Z 10s 50.80um  
 E 10s 27.90um  
 HHC 10.19 58 Pd 54 54.20 -3.2X  
 1.0s 180.00nm 6.5mb  
 Z 16s 43.30um  
 N 10s 20.50um  
 GYA 11.06 148 P 55 08.40 -0.9  
 1.2s 460.00nm 6.7mb  
 Z 10s 32.70um  
 PP 55 20.00  
 S 57 14.00  
 sS 57 20.00  
 KMI 11.10 167 ePc 55 08.56 -1.4  
 1.0s 120.00nm 6.2mb  
 Z 12s 56.00um  
 S 57 13.00  
 WMQ 12.29 313 ePc 55 23.33 -2.5  
 0.8s 120.00nm 6.2mb  
 E 11s 53.70um  
 PP 55 32.00  
 S 57 38.50  
 sS 57 55.00  
 PcP 01 06.00  
 ScP 04 38.50  
 PcS 04 40.50  
 ScS 08 11.00  
 WHN 13.11 111 eP 55 33.00 -3.7X  
 Z 10s 40.60um  
 BJI 13.29 68 eP 55 35.00 -4.0X  
 1.8s 61.00nm 5.4mb  
 Z 16s 24.30um  
 N 10s 34.20um  
 eS 58 02.00  
 TIA 13.77 84 Pc 55 42.00 -3.4X  
 1.2s 100.00nm 5.6mb  
 Z 20s 17.90um  
 N 11s 23.50um  
 sP 55 52.00  
 GUN 14.52 240 P 55 53.00 -2.7X  
 ZAK 14.53 8 ePc 55 55.00 -0.3  
 2.0s 224.00nm 5.4mb  
 eS 58 41.00  
 KKN 15.02 241 P 55 58.80 -3.2X  
 PKI 15.06 240 PKP 55 59.80 -2.9  
 DMN 15.25 241 P 56 03.20 -1.9  
 GKN 15.35 243 P 56 03.00 -3.3X  
 NJ2 16.04 99 Pd 56 12.50 -2.5  
 Z 10s 11.80um  
 E 10s 16.50um  
 S 59 15.20  
 IRK 16.51 9 eP+ 56 22.00 1.0  
 1.6s 539.00nm 5.4mb  
 eS 59 28.00  
 CHTO 17.18 184 ePc 56 30.33 0.8  
 1.3s 245.10nm 5.2mb  
 eS 59 54.00  
 GZH 17.27 135 Pc 56 27.00 -3.6X  
 1.2s 150.00nm 5.0mb  
 DL2 17.32 74 eP 56 32.50 1.3  
 1.2s 390.00nm 5.4mb  
 Z 12s 22.90um 3.5MsZ  
 N 12s 24.40um  
 E 12s 9.38um  
 SSE 18.24 100 ePc 56 41.53 -1.1  
 1.5s 78.00nm 4.6mb X  
 Z 10s 17.10um 4.8MsZ  
 N 10s 16.40um  
 S 00 05.00  
 sS 00 16.00  
 HKC 18.35 134 iP 56 45.10 1.0  
 LOE 18.60 175 eP 56 48.00 0.7  
 CIT 18.63 27 eP 56 47.00 -0.4

Z 12s 44.96um  
 eS 00 14.00  
 BDT 18.73 183 eP 56 49.50 0.7  
 1.0s 414.00nm 5.6mb  
 QIZ 18.99 151 iPc 56 52.14 0.2  
 N 10s 15.30um  
 E 10s 22.90um  
 SNY 19.13 65 iPc 56 52.00 -1.5  
 1.1s 130.00nm 5.1mb  
 Z 18s 18.00um 4.5MsZ  
 N 10s 17.90um  
 sP 57 01.40  
 S 00 23.00  
 sS 00 30.00  
 QZH 19.35 120 Pc 56 54.00 -2.4  
 Z 10s 15.50um  
 KSH 19.37 287 iPc 56 57.60 1.0  
 1.2s 250.00nm 5.4mb  
 Z 12s 11.00um  
 N 10s 13.50um  
 E 10s 21.60um  
 pP 57 00.00 9kmX  
 sP 57 04.00  
 PP 57 16.00  
 sS 00 48.00  
 ScS 08 24.00  
 HIA 19.51 41 ePc 56 56.56 -1.6  
 NDI 20.65 256 ePd 57 09.00 -1.2  
 0.6s 246.67nm 5.7mb  
 FRU 20.78 297 iPc 57 12.40 0.9  
 3.0s 2850.00nm 6.1mb  
 i 57 41.00  
 AAK 20.84 296 ePc 57 13.01 0.7  
 CN2 20.88 60 Pc 57 11.80 -0.7  
 1.2s 50.00nm 4.7mb X  
 Z 17s 28.30um 5.7MsZ  
 N 14s 22.70um  
 E 14s 22.10um  
 esP 57 22.00  
 S 00 58.00  
 TATO 21.42 115 (P) 57 18.02 -0.1  
 1.2s 197.91nm 5.4mb  
 KBR 21.92 181 eP 57 30.00 6.8X  
 BOD 23.76 19 eP 57 39.20 -1.7  
 2.0s 520.00nm 5.8mb  
 MDJ 23.96 60 iPc 57 44.30 1.3  
 2.0s 1190.00nm 6.1mb  
 Z 18s 26.60um 5.8MsZ  
 N 13s 34.40um  
 E 11s 11.50um  
 SHNJ 25.39 85 eP 57 56.50 -0.4  
 VLA 25.40 64 iPc 57 58.00 1.1  
 1.6s 289.00nm 5.7mb  
 N 10s 4.50um  
 i 58 34.00  
 i 58 42.00  
 eS 02 18.00  
 iSS 03 18.00  
 iSSS 03 36.00  
 KUMJ 25.57 89 P 57 58.50 -0.1  
 KAGJ 26.03 92 eP 58 05.20 2.3  
 SHK 26.57 84 eP 58 07.00 -0.8  
 HYB 26.62 232 ePc 58 08.50 0.1  
 1.0s 290.00nm 5.9mb  
 eS 02 38.00  
 BAG 26.71 132 ePc+ 58 09.30 -0.2  
 1.9s 210.53nm 5.5mb  
 eS 03 08.00  
 YONJ 27.06 82 eP 58 10.30 -2.1  
 TKSJ 27.80 84 eP 58 17.90 -1.2  
 QUE 28.29 268 iPc 58 24.60 0.9  
 1.7s 3000.00nm 6.8mb  
 eS 03 12.00  
 QCP 28.39 133 eP 58 23.90 -0.6  
 SNG 28.72 179 eP 58 28.00 0.6  
 1.2s 140.63nm 5.6mb  
 eS 03 26.00  
 WKYJ 28.99 83 eP 58 26.90 -2.9X  
 TSRJ 29.01 80 eP 58 28.70 -1.2  
 BOM 29.48 242 eP 58 32.00 -2.2  
 eS 03 24.00  
 GBA 30.22 228 P 58 42.00 1.1  
 MTMJ 30.26 78 eP 58 42.70 1.4  
 MAT 30.59 78 eP 58 41.00 -3.1X  
 1.2s 21.88nm 4.9mb  
 Z 20s 6.74um 5.3MsZ  
 eS 03 44.00



03d 05h

IPM	31.31	178 ePd	58 50.90	0.4		1.0s	70.00nm	5.7mb	VKA	60.38	310 iPc	02 40.00	0.6
	0.9s	118.50nm		5.8mb		Z 16s	2.00um	5.2MsZx		3.5s	1045.00nm		6.4mb X
YAK	31.92	26 iPc+	58 56.30	0.9		N 16s	2.50um		KBN	60.38	301 eP	02 37.50	-2.1
	1.6s	141.00nm		5.6mb			ePPP	03 38.00	SDA	60.70	303 eP	02 42.50	0.9
KAKJ	32.21	78 eP	58 53.80	-4.4X		MJMA	47.56 274 eP	01 04.00 -1.6	TTG	60.72	303 iPc	02 41.27	-0.4
MAIO	32.62	283 iPc	59 04.00	2.1		QASM	48.87 275 eP	01 16.00 0.2	LACI	60.73	302 eP	02 40.50	-1.3
	1.4s	91.35nm		5.5mb		KVT	49.35 296 eP	01 19.00 -0.3	TIR	60.73	302 e(P)	02 38.00	-3.9X
	eS	04 36.00				PUL	49.70 321 ePc	01 19.00 -2.6X	NKY	60.74	304 iPc	02 41.65	-0.4
KOD	32.88	224 iP	59 05.90	1.3		N 11s	2.00um		PRU	60.81	313 iPc	02 42.00	-0.3
ASH	33.21	286 P	59 08.00	1.1			e	01 33.00		1.6s	184.00nm		6.0mb
	1.5s	430.00nm		6.2mb		SIM	49.72 302 eP	01 22.00 0.0	BRG	60.83	314 iP	02 42.40	0.0
	e	00 32.00				Z 24s	1.00um	4.7MsZx		1.6s	170.00nm		5.9mb
	e	01 51.00					e	03 22.00			i	03 27.50	
	e	04 27.00				UQSK	49.95 275 eP	01 24.67 0.5	ULC	60.91	303 iPc	02 42.46	-0.6
	e	06 29.00				AFIF	50.05 273 eP	01 26.67 1.7	BRY	61.01	304 iPc	02 43.29	-0.6
ASAJ	33.24	63 eP	59 06.10	-1.0		KMSA	50.79 268 eP	01 29.33 -1.2	BDV	61.07	303 iPc	02 43.44	-0.7
KKM	33.31	150 ePc	59 13.50	5.5X		KAS	50.92 297 iPc	01 31.40 0.1	IGT	61.15	300 i(P)c	02 37.94	-6.8X
	1.7s	274.50nm		5.9mb		SDF	51.10 332 iP	01 32.10 -0.1	CLL	61.21	314 iPc	02 44.20	-0.8
YSS	33.36	57 iPc	59 07.19	-0.9		KAF	51.45 325 iP	01 34.20 -0.8		1.8s	200.00nm		6.0mb
	1.0s	60.00nm		5.5mb			0.7s 29.80nm	5.3mb		i	03 28.10		
Z 15s	22.50um		6.0MsZx			MNK	51.98 314 eP	01 47.00 8.0X	HCY	61.23	303 iPc	02 44.17	-1.0
N 15s	9.60um					Z 14s	3.34um	5.5MsZx	MUD	61.33	321 iPc	02 45.90	0.2
E 15s	20.20um					E 16s	3.14um			1.0s	86.00nm		5.9mb
	ePPP	00 25.00				BHL	51.98 288 Pc	01 38.00 -1.5	DAG	61.34	347 iPd	02 43.20	-2.3
	eS	04 20.00				NUR	52.44 323 iP	01 41.30 -1.1		1.0s	43.00nm		5.6mb
	eSSS	06 48.00					0.9s 72.30nm	5.6mb		iPp	03 28.50	196kmX	
MAP	33.53	134 eP	59 09.00	-0.9		KIS	52.74 306 iP+	01 45.50 0.6	PTJ	61.52	308 iPc	02 47.10	-0.2
SVE	33.57	321 iPc	59 10.00	0.2		SMY	53.08 47 P	02 00.00 12.7X	ZAG	61.53	308 iPc	02 47.50	0.2
	2.8s	300.00nm		5.7mb		Z 20s	5.21um	5.6MsZx	AAE	61.62	260 eP	02 50.00	1.4
	ePPP	00 15.00				KMTA	53.24 266 eP	01 48.67 -0.6	KHC	61.72	312 iPc	02 48.50	0.0
ERM	33.71	66 eP	59 10.27	-0.9		ABHA	53.28 267 eP	01 50.67 1.0		1.5s	84.80nm		5.7mb
HOOU	33.78	66 eP	59 11.00	-0.8		TAIF	53.68 271 eP	01 52.67 0.2		e	03 05.00		
KGM	33.97	174 ePc	59 13.50	-0.2		GPA	53.75 297 iP	01 52.00 -0.4		e	05 09.00		
	1.5s	385.70nm		6.1mb		EYL	53.77 297 eP	01 51.20 -1.5		e	06 28.50		
ARU	34.49	319 eP	59 17.00	-0.8		ALT	54.31 296 eP	01 55.90 -0.8	GEC2	61.76	312 Pd	02 47.70	-1.2
	1.5s	270.00nm		5.9mb		IZI	54.33 297 iP	01 56.10 -0.7		1.0s	34.46nm		5.5mb
Z 11s	4.00um		5.4MsZx			ISR	54.83 304 ePc	02 02.00 1.6		e	02 51.50		
	e	59 32.00				KHL	55.00 295 iP	02 01.10 -0.7	VBY	62.13	308 iPc	02 51.30	0.0
	e	00 55.00				LVV	55.07 310 iP+	02 01.00 -1.0	WET	62.13	312 iPc	02 51.50	0.2
	e	01 53.00				Z 15s	2.60um	5.4MsZx		1.5s	175.00nm		6.0mb
DAV	37.05	135 eP	59 39.40	-0.5		N 15s	2.60um		HOF	62.26	314 iPc	02 52.00	-0.1
BAK	39.26	292 iPc	00 04.00	5.8X		E 15s	2.10um			1.5s	119.00nm		5.9mb
	eS	05 54.00					i	02 10.00	MOX	62.28	314 iPc	02 52.10	-0.1
SHE	40.17	293 iPc+	00 08.00	2.3		MLR	55.12 304 iPc	02 03.00 0.4		1.8s	196.00nm		6.0mb
	1.2s	180.00nm		5.6mb		ELL	55.29 293 iP	02 10.50 6.6X	Z 20s	1.90um		5.3MsZx	
	i	01 36.00				EDC	55.49 298 eP	02 04.50 -0.6	HVAR	62.30	305 eP	02 50.90	-1.6
GRO	41.88	297 iPc	00 21.00	1.3		UPP	56.01 323 iP	02 08.00 -0.6	LJU	62.37	308 eP	02 51.40	-1.5
	1.0s	270.00nm		5.9mb		UZH	56.51 309 iPc	02 13.00 0.6		i	02 52.20		
Z 12s	14.00um		6.1MsZx				1.6s 145.00nm	5.8mb		i	02 55.40		
N 18s	11.00um						i	02 20.70		iPcP	03 34.00		
E 18s	9.50um						i	03 11.00	LCI	62.47	301 P	02 52.15	-1.5
	i	01 55.00				ALN	56.59 299 i(P)c	02 12.53 -0.5		1.7s	1001.40nm		6.7mb
	eS	06 32.00				ARO	56.91 260 eP+	02 16.95 1.2	KBA	62.69	310 iPc	02 54.90	-0.3
TAB	42.47	289 iPc+	00 27.70	2.9X		DAF	57.12 260 eP+	02 18.10 0.9		1.3s	92.40nm		5.8mb
MTA	42.81	295 eP	00 28.00	0.6		SGH	57.13 260 eP+	02 18.77 1.5		i	02 56.70		
DHR	43.44	272 eP	00 32.00	-0.7		HLD	57.20 260 eP+	02 18.77 1.1	BHG	62.71	311 iPc	02 55.50	0.3
PYA	43.64	299 iP	00 34.80	0.6		SPC	57.62 310 iPc	02 20.60 0.1		1.5s	281.00nm		6.2mb
	1.8s	180.00nm		5.6mb		HFS	57.83 324 eP	02 20.50 -1.1	RIY	62.75	308 iPc	02 54.50	-0.9
Z 13s	9.00um		5.9MsZx				1.3s 157.40nm	5.9mb	BRT	62.76	302 P	02 55.90	0.4
N 13s	1.50um					Z 16s	1.51um	5.2MsZx		1.3s	270.30nm		6.3mb
E 13s	2.50um						LR	25 23.00	GRF	62.90	313 iPc	02 57.00	0.6
PET	43.77	48 eP	00 34.00	-1.0		SRS	58.23 300 i(P)c	02 23.54 -1.1		1.2s	181.00nm		6.1mb
	1.3s	100.00nm		5.5mb		OUR	58.25 299 i(P)c	02 24.38 -0.4	Z 20s	2.10um		5.3MsZx	
Z 16s	9.50um		5.8MsZx			PAIG	58.62 299 i(P)c	02 26.62 -0.7	TRI	63.00	308 ePc	02 56.00	-1.0
	e	02 30.00				OKC	58.69 311 Pc	02 28.70 1.0	FVI	63.24	310 P	02 57.65	-0.9
	eS	07 00.00					e	03 19.00		1.0s	41.90nm		5.6mb
	e	10 28.00				KNT	58.70 300 i(P)c	02 27.14 -0.8	PMG	63.27	126 ePc	02 58.31	-0.8
KIV	43.92	299 eP	00 37.00	0.5		BSD	58.78 318 iPc	02 23.40 -4.9X		epPd	03 01.04	9kmX	
	3.3s	1179.00nm		6.1mb X			0.9s 34.00nm	5.5mb	FUR	63.51	312 iPc	03 01.10	0.7
Z 13s	1.70um		5.1MsZx				i	02 27.00		1.8s	447.00nm		6.4mb
	e	02 18.80				THE	58.86 300 i(P)c	02 28.14 -0.8	ORI	63.63	302 P	03 01.72	0.4
	eS	07 12.30				VAY	58.87 301 iP	02 28.40 -0.7		1.4s	341.00nm		6.4mb
MOS	45.99	316 iPc	00 54.00	1.2		GRG	59.13 300 i(P)c	02 29.58 -1.3	WTTA	63.67	311 iPc	03 01.20	-0.5
	1.8s	700.00nm		6.4mb		LIT	59.40 299 i(P)c	02 31.46 -1.3		1.0s	110.00nm		6.0mb
Z 19s	3.60um		5.3MsZx			SKO	59.40 302 iPc	02 32.50 -0.3	WATA	63.68	311 iPc	03 01.10	-0.6
SOC	46.10	299 eP	00 54.00	0.2			1.7s 260.00nm	6.1mb		i	03 04.20		
	3.0s	754.00nm		6.2mb			i	03 20.00	VVI	63.73	309 P	03 01.24	-0.7
Z 14s	2.50um		5.3MsZx			UZD	59.57 308 eP	02 33.80 0.0		1.3s	73.60nm		5.7mb
E 14s	2.00um					ZST	59.91 310 iPc	02 36.00 -0.2	IMA	63.75	26 eP	03 00.20	-1.7
	e	07 43.00				KONO	59.95 324 eP	02 34.37 -1.9		1.7s	258.60nm		6.1mb
OBN	46.60	315 eP	00 57.86	0.3		ANM	59.96 30 eP	02 35.60 -0.7	SQTA	63.95	311 iPc	03 02.70	-0.8
	1.3s	210.00nm		6.0mb		IYA	60.11 303 iPc	02 38.23 0.5		0.9s	63.00nm		5.8mb
	ePPP	03 31.00				PVY	60.17 303 iPc	02 38.71 0.6		i	03 06.00		
	(S)	08 00.00				OHR	60.18 301 iP	02 36.60 -1.6	MOTA	63.96	311 iPc	03 02.90	-0.7
RYD	46.99	272 eP	01 01.00	-0.2			1.0s 40.00nm	5.5mb	WIT	64.16	318 eP	03 06.00	1.5
ANN	47.53	301 eP	01 04.00	-1.1		PLE	60.27 304 iPc	02 39.24 0.4	CTI	64.19	309 P	03 04.21	-0.8



SGO	1.2s	52.50nm	5.6mb	LPG	67.48	311 iPc	03 26.80	0.4	LFF	71.42	312 iPc	03 50.80	0.6	
	64.20	303 P	03 04.21	-0.7		0.9s	141.50nm	6.2mb		1.1s	157.25nm	6.0mb		
GRI	0.9s	59.60nm	5.8mb	LPL	67.49	311 iPc	03 26.60	0.3	FORT	71.45	155 iPd	03 51.80	1.4	
	64.20	300 P	03 05.48	0.4		1.0s	120.80nm	6.0mb		0.9s	69.00nm	5.8mb		
MGR	1.3s	111.40nm	5.9mb	IMI	67.54	309 P	03 26.55	0.1	LSPF	71.78	310 P	03 53.22	0.8	
	64.21	302 P	03 04.71	-0.4	QIS	67.56	140 eP	03 26.00	-0.7	TRGS	71.98	310 P	03 54.50	0.7
OGA	0.8s	56.40nm	5.8mb	ENR	67.68	309 P	03 25.87	-1.5	GRBF	72.07	310 P	03 54.53	0.3	
	64.22	310 iPc	03 04.90	-0.4	SAOF	67.71	309 P	03 27.78	0.2	LESF	72.12	310 P	03 55.04	0.6
TNS	1.4s	80.00nm	5.7mb	STV	67.73	309 P	03 26.10	-1.6	HNR	72.15	116 ePc	03 52.66	-2.3	
	64.29	315 eP	03 03.70	-1.9	RRL	67.74	310 P	03 27.42	-0.6	PAND	72.23	310 P	03 56.04	0.7
WRA	e	03 05.50		BNI	67.75	310 P	03 27.88	0.0	EPF	72.70	311 iPc	03 57.60	-0.3	
	64.41	144 P	03 05.40	-1.1		1.3s	98.80nm	5.8mb		1.3s	95.30nm	5.7mb		
WB2	0.9s	33.70nm	5.5mb	PZZ	67.75	309 P	03 25.41	-2.5X	ENSF	72.83	311 P	04 00.01	1.2	
	64.42	144 iPd	03 04.90	-1.7	AUTN	67.79	309 P	03 28.43	0.2	ESEL	72.86	307 iPc	03 59.85	1.0
	1.2s	2.90nm	4.4mb X	SBF	67.85	309 iPc	03 28.30	-0.1	GDH	73.24	350 iPc	03 59.20	-1.3	
TTA	eP'P'	03 49.40			1.1s	233.45nm	6.3mb			1.5s	100.00nm	5.7mb		
RSM	64.42	29 eP	03 04.60	-1.7	PMR	67.86	29 eP	03 26.20	-1.9	EGRA	73.57	310 iPc	04 00.97	-1.9
	64.61	307 P	03 08.26	0.7		1.1s	188.10nm	6.2mb	ELIZ	73.77	312 iPc	04 05.22	1.1	
BNS	1.9s	705.00nm	6.5mb	Z	18s	6.70um	5.9MsZ		EROQ	73.87	309 iPc	04 05.17	0.5	
MEEK	64.69	316 ePd	03 08.40	0.3	TOUF	67.89	309 P	03 28.75	-0.1	ECRI	74.67	312 eP	04 09.99	0.6
SFI	64.73	162 eP	03 08.00	-0.5	AURF	67.91	309 P	03 28.88	0.1	ETOR	75.42	310 iPc	04 14.13	0.4
	65.00	307 P	03 10.35	0.2	BAL	68.09	165 eP	03 29.50	-0.4	ECHE	75.44	308 iPd	04 15.01	1.2
PGD	1.2s	149.60nm	6.1mb	CALN	68.25	309 P	03 29.10	-1.9	SIT	76.17	28 eP	04 18.35	0.9	
	65.10	307 P	03 12.00	0.9	LOR	68.36	313 iPc	03 30.70	-0.8		1.3s	51.31nm	5.5mb	
LANF	1.8s	436.80nm	6.4mb		1.3s	71.10nm	5.7mb		Z	20s	3.07um	5.6MsZ		
MBC	65.22	314 P	03 11.37	-0.2	Z	23s	1.45um	5.1MsZ X	EALH	76.72	307 iPc	04 22.26	1.2	
	65.24	10 eP	03 12.00	0.7	LBF	68.43	313 iPc	03 31.30	-0.7	GUD	76.82	311 eP	04 22.53	0.8
ENN	1.0s	12.00nm	5.0mb			1.4s	89.30nm	5.8mb	EVIA	76.96	308 iPc	04 23.72	1.2	
	65.49	316 ePc	03 13.00	-0.2	FRF	68.50	309 iPc	03 32.20	-0.2	EHUE	77.50	308 iPc	04 26.24	0.8
SVW	1.1s	102.60nm	5.9mb			1.2s	107.40nm	5.9mb	ERUA	77.57	314 eP	04 26.60	1.0	
MDI	65.49	31 eP	03 13.00	-0.1	INK	68.60	19 eP	03 31.50	-1.1	PAB	77.59	310 iPc	04 26.40	0.5
	65.52	310 P	03 10.97	-2.5X		1.0s	22.00nm	5.3mb		1.2s	78.13nm	5.7mb		
FEL	1.2s	34.50nm	5.4mb	KDC	68.64	33 eP	03 31.60	-1.4	ENIJ	77.75	307 eP	04 27.03	0.3	
	65.60	312 P	03 13.75	-0.4	SSF	68.67	313 iPc	03 32.90	-0.5	YKA	77.92	16 eP	04 26.80	-0.4
MME	65.62	308 P	03 15.46	1.0		1.4s	106.75nm	5.8mb		1.1s	36.60nm	5.4mb		
BDI	1.6s	350.20nm	6.3mb	SMF	68.68	313 iPc	03 33.20	-0.3	STK	77.95	145 iPc	04 27.70	0.0	
	65.74	308 P	03 15.34	0.3		1.1s	187.05nm	6.2mb		1.1s	31.60nm	5.3mb		
CDF	1.0s	18.70nm	5.2mb	TOA	68.69	28 eP	03 32.70	-0.7	EBAN	78.06	309 iPc	04 28.91	0.5	
	65.79	313 iPc	03 15.10	-0.2	LMR	68.69	309 iPc	03 33.40	-0.2	EPLA	78.34	311 iPc	04 31.04	1.0
WLF	1.1s	78.65nm	5.8mb			1.4s	207.35nm	6.1mb	ECOG	78.44	308 iPd	04 30.49	-0.2	
	65.87	315 iPc	03 15.99	0.4	LRG	68.73	309 iPc	03 33.80	0.0	EGUA	78.71	307 iPc	04 32.07	0.1
PII	1.3s	97.00nm	5.8mb			1.3s	181.25nm	6.1mb	EHOR	79.18	309 eP	04 35.36	0.8	
	65.95	307 P	03 16.20	0.0	Z	25s	1.15um	5.0MsZ X	ADE	79.27	149 iPc	04 35.50	0.6	
VAI	1.0s	81.20nm	5.9mb	AVF	68.90	313 iPc	03 34.50	-0.3	EPRU	79.69	308 iP	04 37.52	0.1	
	66.06	310 P	03 15.72	-1.2		1.3s	218.80nm	6.2mb	FRB	80.15	355 eP	04 39.00	-0.2	
SDN	1.6s	511.10nm	6.5mb	SSB	68.95	311 P	03 35.04	-0.2		0.8s	7.00nm	4.7mb X		
	66.11	38 P	03 30.00	12.9X	HYF	69.08	314 eP	03 36.10	0.2	EJIF	80.16	308 eP	04 39.61	-0.2
Z	20s	3.97um	5.6MsZ	RES	69.12	4 eP	03 35.50	-0.2	EVAL	80.27	310 iP	04 41.81	1.4	
BOB	66.15	309 P	03 18.42	0.8		1.0s	9.00nm	4.9mb	CPS	80.63	307 iP	04 44.00	1.7	
	1.7s	291.10nm	6.2mb	KLU	69.16	28 eP	03 34.88	-1.4	TKZ	80.75	305 iP	04 44.00	1.0	
BSF	66.35	313 iPc	03 18.50	-0.4	KLB	69.27	164 eP	03 36.50	-0.6	BIT	80.81	307 iP	04 44.00	0.7
	1.1s	117.70nm	6.0mb	MUN	69.31	165 iPd	03 37.70	0.3	TGT	81.34	306 eP	04 47.00	0.9	
UCC	66.35	316 P	03 19.00	0.3	BGF	69.32	313 iPc	03 37.10	-0.3	RSA	81.34	307 eP	04 46.00	-0.1
COL	66.45	26 ePc	03 18.92	-0.2		1.2s	82.10nm	5.8mb	IFR	81.72	305 iPc	04 50.00	1.6	
	0.9s	122.85nm	6.1mb	COOL	69.43	161 eP	03 37.50	-0.6	MIF	81.78	305 iP	04 50.00	1.6	
		epP	03 21.48	8kmX	NAI	69.44	253 eP+	03 42.00	3.2X	ARMA	81.91	137 iPd	04 50.80	1.7
FBA	66.45	26 eP	03 18.00	-1.2	MAF	69.66	313 iPc	03 39.80	0.3		1.2s	124.00nm	5.9mb	
	1.0s	508.40nm	6.7mb			1.2s	194.00nm	6.1mb	BWA	83.33	142 eP	04 57.50	1.2	
HAU	66.53	313 iPc	03 19.60	-0.4	TCF	69.84	313 iPc	03 40.70	0.1	AVE	83.36	306 iP	04 57.50	0.9
	1.2s	80.35nm	5.8mb			1.2s	192.80nm	6.1mb	CAN	84.33	142 eP	05 02.00	0.7	
Z	24s	1.70um	5.2MsZ X	FLN	70.09	316 iPc	03 41.80	-0.2	TOO	84.44	145 eP	05 02.20	0.4	
SNF	66.53	316 iPc	03 19.79	-0.1		1.1s	84.00nm	5.8mb		0.9s	75.00nm	5.9mb		
LOMF	66.55	312 P	03 19.77	-0.4	Z	22s	2.10um	5.3MsZ	CNB	84.51	142 iPd	05 03.00	0.8	
DOU	66.56	316 P	03 20.60	0.6	LSF	70.26	313 iPc	03 42.80	-0.4		1.0s	60.00nm	5.8mb	
MRWA	66.60	165 iPd	03 20.90	0.5		1.0s	46.20nm	5.6mb	TIO	84.75	305 iPc	05 05.00	1.2	
	0.7s	32.00nm	5.6mb	NWAO	70.45	165 ePc	03 43.99	-0.3	DZM	85.24	122 iPc	05 07.50	1.3	
VITF	66.65	313 P	03 20.51	-0.2			epPd	03 46.72	9kmX	HON	86.80	66 P	05 20.00	6.1X
ORX	66.66	310 P	03 19.60	-1.4	GRR	70.50	316 iPc	03 44.40	-0.2	Z	20s	0.49um	4.9MsZ	
ORO	66.67	310 P	03 19.88	-1.1		1.1s	180.70nm	6.1mb	MCW	87.41	27 eP	05 17.45	0.9	
	0.8s	25.30nm	5.5mb	CAF	70.63	312 iPc	03 46.10	0.6	FFC	87.64	13 ePc	05 17.00	-0.5	
WARB	66.76	154 eP	03 21.60	0.1		1.2s	151.75nm	6.0mb		(pP)	05 19.90	9kmX		
	0.7s	36.00nm	5.7mb	RJF	70.76	312 iPc	03 46.90	0.6	JCW	88.15	27 P	05 21.38	1.3	
CP2	66.81	30 eP	03 20.78	-1.0		1.3s	221.65nm	6.1mb	GMW	88.37	27 eP	05 22.18	1.0	
PCP	66.82	309 P	03 20.74	-1.2	Z	25s	0.85um	4.9MsZ X	RMW	88.81	27 eP	05 24.51	1.2	
CRP	66.84	30 eP	03 20.94	-1.0	BALM	70.79	27 eP	03 44.97	-1.3	BMW	89.10	28 (P)	05 25.64	0.9
CKI	67.05	309 P	03 24.54	1.3	LFP	70.80	316 iPc	03 46.40	0.0	WTV	89.27	26 P	05 26.15	0.6
FIN	67.19	309 P	03 21.98	-2.3		1.4s	147.70nm	5.9mb	LON	89.41	27 eP	05 26.92	0.8	
LSD	67.25	310 P	03 25.32	0.4	CTA	70.86	134 P	03 47.59	0.5					



WAH2	90.22	26	P	05	31.02	1.2	CEH	108.44	359	PKP	11	10.00	11.8X	CP2	3.84	25	(P)	14	49.43	-2.5				
VGB	90.83	27	eP	05	33.59	0.8		Z	20s	1.08um			5.4Msz	CRP	3.86	25	eP	14	46.00	-6.2				
VBEM	90.91	28	P	05	34.76	1.5	MIAR	108.64	12	PKP	11	10.00	11.4X	TTA	5.12	358	(P)	15	07.09	-2.9				
RNO	91.02	30	P	05	35.65	2.0		Z	20s	1.68um			5.6Msz	19 obs. associated										
CROR	91.20	28	P	05	36.27	1.7	MYNC	109.15	4	PKP	11	10.00	10.3X	-----										
JBO	91.23	27	P	05	35.92	1.3		Z	20s	1.87um			5.7Msz	* JAN	03,	1994	08h	21m	01.65±	0.98s				
SLR	91.42	239	eP	05	32.50	-3.2X	OXF	109.26	8	PKP	11	10.00	10.2X	29.991 N ±12.0km 34.054 E ± 7.3km										
	1.4s				50.00nm	5.7mb		Z	20s	0.96um			5.4Msz	DEPTH = 10.0km (geophysicist)										
Z	20s				4.66um	5.9Msz	GOGA	110.84	3	PKP	11	10.00	7.2X	3.7mb ( 2 obs.)										
VIPM	91.75	28	P	05	38.74	1.6		Z	19s	1.40um			5.6Msz	EGYPT						(553)				
KSR	92.47	240	eP	05	35.00	-5.6X	SYO	113.76	200	ePKPd	11	06.20	-1.1	MD 3.9 (HLW).										
LBTB	92.85	241	eP	05	42.09	-0.2	NVL	122.98	203	iPKPc	11	24.00	-0.8											
	1.1s				22.66nm	5.5mb			1.0s	23.00nm				AQBJ	0.90	107	Pd	21	19.15	0.2				
ULM	92.94	10	eP	05	44.50	2.2				e	13	03.00		DHLJ	1.43	54	Pc	21	27.37	-0.2				
LRM	93.39	22	eP	05	40.10	-4.8X	SDV	134.48	347	ePKP	11	37.00	-11.8X	LISJ	1.75	44	Pc	21	31.70	-0.5				
SEK	93.51	237	eP	05	54.00	8.7X	SOB1	135.65	297	(PKP)	11	47.00	-3.8X	MKRJ	2.07	41	Pd	21	38.25	1.3				
	1.5s				40.00nm	5.6mb	BAO	145.07	297	ePKP	12	06.30	-1.5	MASJ	2.25	39	Pc	21	38.34	-1.2				
LBFM	93.91	30	eP	05	47.73	0.5				i	12	07.50		HLW	2.36	267	(P)	21	40.50	-0.5				
WDC	94.28	31	P	06	00.00	11.3X				e	12	19.50					(S)	22	10.00					
Z	19s				1.14um	5.4Msz	BDFB	145.09	297	ePKPc	12	07.44	-0.3	SALJ	2.45	34	Pc	21	42.01	-0.4				
LMEM	94.72	31	(P)	05	51.61	0.7				epP'af12	10	17		GEC2	24.40	326	P	26	22.00	0.9				
BLF	94.98	238	eP	05	51.00	-1.1	CACB	147.80	287	ePKP	12	13.00	0.9		0.6s		0.57nm		3.4mb					
ORV	95.58	31	eP	05	55.27	0.6				e	12	15.50		HFS	33.11	341	eP	27	34.40	-5.2X				
FRS	95.97	238	eP	05	55.50	-0.8				e	12	22.40			0.4s		1.00nm		4.0mb					
PTI	96.07	23	(P)	05	58.23	1.1	PARB	147.82	284	iPKPc	12	15.70	3.7X	S.D. = 0.9 on 8 of 9 obs.										



03d 11h

MD 4.0 (SAN).					CDF					MCQ				
FCH	1.44	288	iP+	54 36.04 -1.5	BSF	145.30	337	ePKP	06 28.90 -2.9X	SNZO	6.17	210	eP	25 45.20 -1.2
PCH	1.55	276	iP+	54 38.09 -0.8	HAU	145.97	337	ePKP	06 31.00 -2.0X	TAU	10.84	47	P	26 52.00 0.7
CACH	1.64	258	iP+	54 39.85 -0.4	FLN	145.99	337	ePKP	06 31.20 -1.7		13.33	292	iPc	27 22.90 -1.8
SAN	1.70	281	iP	54 40.55 -0.4	LDF	147.40	345	ePKP	06 34.50 -0.6	CNB	17.71	316	iPd+	28 23.30 2.0
PEL	1.81	290	iP+	54 42.59 0.0	LOR	147.47	345	ePKP	06 34.60 -0.6		1.2s	392.00nm		5.4mb
TACH	1.90	274	iP+	54 44.01 0.1	LBF	147.49	339	ePKP	06 37.60 2.3X				eS	31 33.00
JACH	1.96	304	iP+	54 45.27 0.4	SSF	147.70	339	ePKP	06 37.90 2.2X	CAN	17.87	316	eP	28 25.80 2.6
ROCH	2.13	292	iPd	54 48.20 0.8	GRR	147.79	340	ePKP	06 38.50 2.7X				i	28 28.20
CFA	2.21	9	eP	54 47.90 -0.5	SMF	147.84	346	ePKP	06 35.10 -0.7				i	28 47.80
ZON	2.24	360	eP	54 52.50 3.6X	AVF	148.04	339	ePKP	06 39.60 3.4X	TOO	17.88	304	eP	28 26.00 2.6
LVN	2.29	265	iP	54 50.40 0.9	LFP	148.08	339	ePKP	06 39.50 3.3X		0.8s	416.00nm		5.6mb
RTCB	2.31	357	ePc	54 49.50 -0.3	BGF	148.21	346	ePKP	06 37.10 0.7	RIV	18.22	323	iPc	28 29.70 2.2
LCCCH	2.45	277	iP+	54 52.36 0.7	TCF	148.45	340	ePKP	06 41.00 4.1X	Z	18s	38.01um		
RTLL	2.46	4	ePc	54 51.80 -0.2	LMR	148.90	340	ePKP	06 39.00 1.4				eS	31 51.20
RTRS	3.68	349	iPd	55 10.00 0.8	LFF	149.74	332	ePKP	06 41.40 2.5X	BWA	18.87	316	eP	28 34.70 -0.9
RTPR	3.93	28	eP	55 13.00 0.2		150.57	341	ePKP	06 49.60 9.5X				i	28 40.80
S.D. = 0.7 on 15 of 16 obs.					S.D. = 1.2 on 31 of 43 obs.					ARMA	21.11	328	eP	29 00.30 0.2
JAN 03, 1994 12h 46m 55.71± 0.38s					JAN 03, 1994 13h 24m 13.84± 0.18s						1.0s	130.00nm		5.3mb
17.536 S ± 8.0km 167.682 E ± 7.7km					49.265 S ± 5.2km 164.222 E ± 4.4km								i	29 03.40 11kmX
DEPTH = 33.0km (normal)					DEPTH = 15.5km (geophysicist)					ADE	23.57	298	iPc	29 27.00 2.7X
4.9mb (12 obs.) 4.3Msz (1 obs.)					6.0mb (46 obs.) 6.0Msz (49 obs.)					STK	24.28	307	iPc	29 33.60 2.3
VANUATU ISLANDS (186)					AUCKLAND ISLANDS REGION (166)						0.9s	77.10nm		5.3mb
BKM	0.55	104	iPc	47 06.90 -0.2	Mw 6.1 (GS), 6.1 (HRV).								iS	33 49.10
PVC	0.63	109	iPc	47 08.00 -0.2	Mo=3.7*10**18 Nm (PPT). Two					DZM	27.19	5	iPc	29 56.90 -1.8
			iS	47 20.50	events about 1.7 seconds apart.					VNDA	28.37	181	(P)	30 11.15 2.4
DZM	4.66	194	iPc	48 03.70 -2.0	Depth from broadband					SBA	28.71	179	(P)	30 15.98 4.2X
			iS	48 56.00	displacement seismograms, based					CSY	32.02	218	eP	30 41.50 0.3
ARMA	19.45	226	eP	51 24.20 1.4	on second event.						0.7s	38.90nm		5.4mb
CNB	24.07	219	eP	52 10.40 1.3	FAULT PLANE SOLUTION: P-Waves					CTA	32.47	327	P	30 46.40 0.8
	1.3s	52.00nm		4.9mb	NP1:Strike=140 Dip=72 Slip= 90					CTAO	32.47	327	ePc	30 44.80 -0.8
BWA	24.07	222	eP	52 09.80 0.7	NP2: 320 18 90						0.9s	93.62nm		5.7mb
CAN	24.29	220	eP	52 12.70 1.4	Principal Axes:					FORT	32.87	291	eP	30 50.00 1.0
STK	27.58	234	eP	52 42.50 0.6	T Plg=63 Azm= 50					QIS	34.73	317	eP	31 04.20 -1.0
	1.1s	5.60nm		4.1mb	P 27 230					ASPA	34.91	306	iPc	31 06.10 -0.6
WRA	31.64	260	P	53 16.20 -2.0	Comment: The focal mechanism is						0.8s	296.30nm		6.2mb
	0.8s	1.20nm		3.8mb X	poorly controlled and					Z	21s	24.70um		5.9Msz
ASPA	32.15	253	iPd	53 20.20 -2.5	corresponds to reverse								iPcP	33 39.40
	0.7s	12.30nm		4.9mb	faulting. The preferred fault					WARB	37.05	295	iPc	31 24.80 0.0
MAT	60.57	333	eP	57 09.00 3.7X	plane is NP2.						0.8s	67.00nm		5.5mb
CN2	72.24	329	eP	58 20.60 1.1	RADIATED ENERGY					COOL	37.13	283	eP	31 26.00 0.6
	0.8s	4.70nm		4.5mb	No. of sta: 5 Focal mech. M						0.8s	54.00nm		5.4mb
BJI	74.69	321	eP	58 33.00 -0.9	Energy 1.3±0.1*10**13 Nm					WB2	37.76	310	iPd	31 29.40 -1.3
	1.2s	8.00nm		4.6mb	MOMENT TENSOR SOLUTION						0.8s	319.80nm		6.2mb
TIY	75.59	318	eP	58 39.20 0.0	Dep 11 No. of sta: 12					WRA	37.77	310	P	31 29.50 -1.3
XAN	75.88	313	P	58 40.00 -0.9	Moment Tensor; Scale 10**18 Nm					WB5	37.81	310	iPc	31 29.70 -1.4
	sP	58 52.00			Mrr= 0.82 Mtt= 0.80						0.9s	144.70nm		5.8mb
KMI	76.12	302	eP	58 42.60 -0.1	Mff=-1.62 Mrt= 1.01					NWAO	38.32	277	(P)	31 37.15 1.8
	1.2s	20.00nm		5.0mb	Mrf=-0.30 Mtf=-0.18					KLB	38.83	279	eP	31 41.20 1.5
CHTO	76.60	295	eP	58 44.90 -0.3	Principal axes:					MUN	39.59	278	eP	31 46.00 0.0
HHC	77.97	320	P	58 52.00 -0.5	T Val= 1.85 Plg=45 Azm= 8					HNR	39.86	353	eP	31 46.91 -1.4
LZH	80.49	313	eP	59 06.00 -0.3	N -0.20 44 175								ec	31 48.73 6kmX
	1.8s	35.00nm		5.1mb	P -1.66 6 271					RAR	39.98	59	(P)	31 47.73 -1.5
YAK	84.79	343	iPd	59 29.50 1.9	Best Double Couple:Mo=1.8*10**18						1.0s	46.78nm		5.1mb
	1.5s	50.00nm		5.5mb	NP1:Strike= 39 Dip=54 Slip= 149					BAL	40.16	280	eP	31 51.80 1.1
GTA	84.89	314	eP	59 29.40 0.6	NP2: 148 65 40					AFI	40.39	38	ePc	31 51.86 -0.9
	1.5s	10.00nm		4.8mb	CENTROID, MOMENT TENSOR (HRV)								ed	31 56.08 14kmX
SYO	86.17	196	ePd	59 35.20 0.6	Data Used: GDSN								ed	31 57.41
RMW	90.23	40	eP	59 53.83 -0.5	L.P.B.: 52S, **C M.W.: 30S, 48C								ed	31 59.39
	(pP)	00 08.57		50kmX	Centroid Location:								eS	37 00.00
NVL	90.34	188	P	59 55.00 0.5	Origin Time 13:24:22.2 0.1								eLR	42 00.00
	1.0s	14.00nm		5.2mb	Lat 49.16S 0.01 Lon 164.19E 0.01					MRWA	41.55	281	eP	32 02.50 0.4
WMQ	94.96	314	eP	00 18.00 1.8	Dep 26.3 0.7 Half-duration 2.7						0.8s	157.00nm		5.8mb
GEC2	142.30	332	PKP	06 21.60 -5.1X	Moment Tensor; Scale 10**18 Nm					MEEK	41.66	286	eP	32 03.50 0.5
	0.7s	0.48nm			Mrr= 0.76 0.01 Mtt= 0.61 0.01					PMG	42.22	334	ePc	32 08.06 0.5
			e	06 25.50	Mff=-1.37 0.01 Mrt= 0.92 0.03								ec	32 09.89 6kmX
WLF	144.65	339	iPKPc	06 30.50 0.0	Mrf=-0.15 0.03 Mtf= 0.25 0.01								ed	32 13.69
	1.5s	14.60nm			Principal Axes:								ed	32 18.16
					T Val= 1.61 Plg=47 Azm=358					KNA	44.14	307	eP	32 22.50 -0.8
					N -0.17 42 162						1.0s	548.00nm		6.4mb
					P -1.44 8 259									
					Best Double Couple:Mo=1.5*10**18									
					NP1:Strike= 27 Dip=52 Slip= 148									
					NP2: 138 65 43									



LAT	44.87	335	ePc	32	29.60	0.4
MBL	44.92	292	iPc	32	29.00	-0.6
MTN	45.40	312	eP	32	32.50	-0.9
	0.8s	558.00nm			6.6mb	
RAB	46.07	343	e(P)	32	36.00	-2.7X
		eS	39	26.00		
AFR	48.67	66	iPc	33	00.00	1.0
	1.3s	210.80nm			6.0mb	
PAE	48.69	66	iPc	33	00.40	1.2
	1.2s	205.30nm			6.0mb	
WWKK	48.74	332	eP	32	51.50	-8.2X
PPT	48.76	66	iPc	33	01.10	1.3
	1.4s	369.40nm			6.2mb	
TVO	48.79	67	iPc	33	01.60	1.5
	1.3s	600.70nm			6.5mb	
PPN	48.88	66	iPc	33	02.10	1.4
	1.2s	166.00nm			5.9mb	
MAW	49.57	210	iPd	33	14.50	9.1X
	1.4s	127.62nm			5.7mb	
Z	19s	18.11um			6.1MsZ	
		eS	40	27.60		
		eSS	43	56.20		
VAH	51.74	66	iPc	33	23.40	0.9
	1.3s	233.20nm			6.0mb	
PMO	51.76	66	iPc	33	23.80	1.1
	1.3s	463.60nm			6.3mb	
RUV	51.93	67	iPc	33	24.80	0.9
	1.2s	313.00nm			6.1mb	
TPT	51.94	66	iPc	33	25.10	1.0
	1.2s	260.60nm			6.0mb	
SYO	55.23	201	ePd-	33	47.40	-0.3
		eS	41	46.00		
NVL	58.64	190	eP	34	11.00	-0.9
	1.6s	386.00nm			6.2mb	
Z	15s	21.00um			6.4MsZ	
N	15s	17.00um				
E	15s	8.00um				
		ePcP	34	50.00		
		ePP	36	26.00		
		ePPP	37	36.00		
		e	38	58.00		
		ePP	41	08.00		
		eS	42	16.00		
		ePS	42	30.00		
		eSS	46	08.00		
		eSSS	48	26.00		
LEM	63.43	292	eP	34	46.00	0.8
	1.5s	722.22nm			6.6mb	
		eS	37	12.00		
GUMO	64.87	339	eP	34	54.70	0.4
	1.2s	377.30nm			6.4mb	
PJG	64.88	339	eP	34	54.50	0.2
DAV	65.47	317	eP-	34	57.00	-1.2
CTB	66.19	316	ePd	35	01.00	-1.8
MAP	69.05	317	eP	35	19.00	-1.8
KKM	69.09	308	ePc	35	24.00	2.8X
GQP	72.90	317	ePc	35	42.00	-2.0
KGM	73.02	294	ePd	35	45.20	0.4
TGY	73.76	316	ePd	35	51.00	2.0
QCP	74.16	317	eP	35	36.00	-15.3X
QVP	74.18	316	ePc	35	50.00	-1.4
BAG	75.94	317	eP+	36	02.00	0.3
		eS	45	42.00		
IPM	76.43	294	ePd	36	05.50	1.1
CVP	76.54	319	ePc	36	04.00	-0.8
HON	77.90	36	P	36	20.00	7.7X
Z	21s	2.66um			5.5MsZ	
SNG	78.74	295	eP	36	18.70	1.6
		eS	46	24.00		
TATO	83.14	322	ePc	36	40.44	0.4
		e	36	44.33	12kmX	
		ed	36	46.82		
		e	36	49.05		
QIZ	83.33	309	ePc	36	41.50	0.3
		ed	36	46.13		
		pP	39	49.50		
		S	47	05.00		
HKC	84.00	314	eP	36	43.00	-1

GAZ	85.06	314	P	36	50.00	0.2
	1.0s	75.00nm				5.9mb
Z	26s	2.12um				5.4MsZ
		S		47	14.00	
KAGJ	85.43	332	eP	36	49.80	-1.6
NST	85.82	300	eP	36	54.00	0.3
KUMJ	86.70	332	P	36	57.80	0.1
WKYJ	86.93	337	P	36	58.90	0.0
CFA	86.93	337	e(P)	36	58.30	-0.9
TKSJ	87.12	335	P	36	58.10	-1.6
IIDJ	87.55	339	eP	37	01.20	-0.6
BDT	87.72	300	eP	37	02.80	-0.1
	1.0s	176.00nm				6.3mb
KAKJ	87.74	341	eP	37	03.00	0.4
CHJJ	87.85	340	eP	37	03.00	-0.2
TSRJ	88.08	337	eP	37	03.80	-0.5
LPA	88.21	147	eP+	37	04.00	-1.2
Z	20s	7.09um				6.1MsZ
		eSKS		47	32.00	
YONJ	88.42	335	P	37	00.40	-5.5X
MAJO	88.50	339	ePc	37	06.26	0.0
	1.1s	145.04nm				6.2mb
		ec		37	07.83	5kmX
		e		37	11.31	
		e		37	15.94	
MAT	88.50	339	eP	37	06.00	-0.3
	1.3s	226.92nm				6.3mb
Z	20s	2.13um				5.6MsZ
		eS		47	31.00	
MTMJ	88.63	339	eP	37	09.60	2.5X
SSE	88.71	324	ePc	37	07.65	0.3
	1.4s	230.00nm				6.3mb
Z	20s	3.70um				5.8MsZ
N	18s	1.90um				
E	18s	2.00um				
		ic		37	09.05	4kmX
		e		37	12.53	
		e		37	15.10	
		SKS		47	34.00	
		S		47	50.00	
		sS		48	04.00	
		SS		53	48.00	
CHTO	89.01	301	ePc	37	09.42	0.3
	1.0s	45.25nm				5.7mb
		ic		37	11.24	6kmX
		ed		37	15.37	
		ed		37	19.35	
GRM	89.56	214	iP	37	21.00	9.2X
	1.4s	160.00nm				6.1mb
YAMJ	89.66	341	eP	37	12.60	0.9
OFUJ	90.20	343	eP	37	14.40	0.2
NJ2	90.47	323	Pc	37	15.80	0.2
	1.0s	91.00nm				6.0mb
Z	22s	2.25um				5.6MsZ
N	22s	7.69um				
		PP		40	51.60	
WHN	91.02	319	Pc	37	18.00	-0.2
	1.8s	230.00nm				6.2mb
Z	20s	2.49um				5.6MsZ
		PP		40	54.00	
		SKS		47	50.00	
		eS		48	14.00	
GYA	91.13	311	iPc	37	19.00	0.0
	1.2s	78.00nm				5.9mb
Z	22s	3.13um				5.7MsZ
N	20s	2.85um				
E	20s	1.51um				
		PP		41	00.00	
		SKS		47	52.00	
		S		48	16.00	
CER	92.02	209	eP	37	14.00	-9.1X
	0.5s	25.00nm				5.9mb
KMI	92.03	307	ePc	37	24.11	0.8
	1.8s	190.00nm				6.2mb
N	17s	2.30um				
E	17s	1.20um				
		ic		37	26.10	6kmX
		e		37	30.07	
		ed		37	34.04	
		PP		41	08.00	
		eS		48	25.00	
		sS		48	35.00	
ENH	92.97	315	ePc	37	26.44	-0.7
		ec		37	28.01	5kmX
		ed		37	31.49	
BLF	93.47	216	eP	37	20.00	-10.0X
SEK	93.61	217	eP	37	44.00	13.3X

BOSA	94.21	215	(P)	37	35.74	2.5
TIA	94.80	324	P	37	34.00	-1.5
	Z	25s	3.42um			5.7MsZx
	E	23s	4.74um			
DL2	95.53	328	eP	37	38.00	-0.7
	Z	28s	2.02um			5.4MsZx
	N	22s	3.25um			
	E	22s	3.23um			
SLR	95.64	219	eP	37	27.00	-13.1X
		1.5s	30.00nm			
	Z	20s	21.30um			6.6MsZ
KSR	96.09	218	eP	37	45.00	2.8X
CD2	96.24	311	eP	37	42.00	-0.2
		1.2s	54.00nm			5.9mb
	Z	20s	2.81um			5.7MsZ
	E	16s	2.03um			
			eSKS	48	10.00	
XAN	96.39	317	ePc	37	42.61	-0.2
		1.0s	40.00nm			5.9mb
	Z	24s	3.59um			5.8MsZx
	E	16s	1.35um			
			ec	37	44.01	4kmX
			ed	37	48.57	
			PP	41	39.00	
			SKS	48	15.00	
			S	48	58.00	
			SS	53	35.00	
SNY	97.50	331	Pc	37	48.00	0.5
	Z	22s	4.11um			5.9MsZ
			PP	41	48.00	
			S	49	10.00	
			sS	49	18.00	
YSS	97.70	345	eP	37	52.00	3.7X
TIY	97.98	321	eP	37	50.20	0.3
	Z	24s	3.65um			5.8MsZx
	E	25s	0.83um			
			PP	41	49.00	
			SKS	48	26.00	
			SS	56	01.00	
MDJ	98.27	336	eP	37	53.00	2.0
	Z	32s	3.19um			5.6MsZx
			SKS	48	25.00	
BJI	98.51	325	ePDIFc	37	52.02	-0.1
		1.8s	48.00nm			5.8mb
	Z	20s	3.62um			5.9MsZ
	N	20s	3.20um			
			ec	37	53.84	6kmX
			ed	37	59.14	
			ePP	41	56.00	
			eSKS	48	28.00	
			eS	49	20.00	
CN2	98.70	333	eP	37	52.20	-0.7
		0.8s	4.70nm			5.1mb
	Z	24s	1.74um			5.5MsZx
	N	20s	2.69um			
	E	20s	1.70um			
			epP	38	00.00	24kmX
			PP	41	56.00	
			eS	49	17.00	
LPB	99.81	130	(P)	37	59.00	-0.4
	Z	18s	2.06um			5.7MsZ
			LR	51	06.00	
LPaz	100.00	129	iPdiffe	38	02.90	2.5
			LR	51	18.00	
LZH	100.42	314	ePdiffe	38	01.00	-0.3
		1.8s	90.00nm			6.0mb
	Z	22s	2.86um			5.7MsZ
	E	16s	1.43um			
			sP	38	17.50	
			PP	42	06.00	
			SKS	48	37.00	
			eS	49	35.00	
HHC	101.00	322	Pdiffe	38	07.60	3.9X
		1.2s	10.00nm			5.3mb
	Z	25s	4.00um			5.8MsZx
	N	22s	1.48um			
	E	22s	2.22um			
			S	49	38.00	
LSA	101.92	302	Pdiffe	38	14.00	5.5X
	Z	22s	3.75um			5.9MsZ
			SS	56	56.50	
SMY	101.96	6	Pdiffe	38	20.00	12.5X
	Z	20s	5.21um			6.0MsZ
SAO	107.95	54	PKP	42	50.00	8.2X
	Z	18s	5.03um			6.1MsZ
MHC	108.28	54	ePKP	42	57.20	14.6X
	Z	17s	7.00um			6.3MsZx



		iPS	52	46.20		PRM	129.61	81	ePKP	43	22.62	-0.7	PRK	148.63	267	ePKP	44	02.20	5.0X	
		e(SS)	58	14.20		FFC	129.84	49	ePKP	43	20.60	-2.5X	VLI	149.37	261	ePKP	44	04.20	5.7X	
		eLQ	09	04.20		JSC	130.44	82	ePKP	43	25.49	0.7	ALN	149.63	270	e(PKP)	44	01.76	3.0X	
		eLR	13	36.20		ULM	130.66	56	ePKP	43	26.00	1.2	RDO	150.09	270	ePKP	44	03.10	3.7X	
SDN	108.34	20	PKP	42	50.00	8.1X	LHS	130.86	82	ePKP	43	25.80	0.2	CFR	150.21	279	ePKP	44	01.00	1.6
Z	20s			3.97um	6.0Msz		CEH	132.83	82	PKP	43	40.00	10.7X	KDZ	150.42	271	iPKP	44	04.00	4.1X
ISA	108.74	57	PKP	42	50.00	6.6X	Z	19s		2.19um	5.9Msz		KIS	150.45	283	iPKP+	44	04.00	4.3X	
Z	18s			6.20um	6.2Msz		MBC	134.17	19	PKP	43	29.90	-0.8			i		44	14.00	
CMB	109.46	54	PKP	42	50.00	5.3X	MBC	134.17	19	PKP	43	30.60	-0.1	PAIG	150.69	267	e(PKP)	44	03.76	3.4X
Z	18s			5.36um	6.1Msz					SKPbc	46	58.00		OUR	150.70	267	e(PKP)	44	03.76	3.4X
WDC	110.22	51	PKP	43	00.00	14.0X				SKPbc	46	58.40		RZN	150.90	270	iPKP	44	05.00	4.1X
Z	19s			4.59um	6.1Msz					SKPbc	46	59.00		AGG	151.08	264	e(PKP)	44	05.12	4.1X
TUC	110.70	64	PKP	43	00.00	12.8X				SKSdf	50	40.10		ISR	151.23	278	ePKP	44	07.50	6.4X
Z	18s			5.68um	6.2Msz					P'P'	01	22.30		SRS	151.35	269	e(PKP)	44	04.40	3.1X
TPNV	110.91	57	PKP	43	00.00	12.4X	MCWV	134.54	77	PKP	43	40.00	7.5X	SOH	151.36	268	e(PKP)	44	05.16	3.8X
Z	19s			6.66um	6.2Msz		Z	19s		5.08um	6.3Msz		VRI	151.40	280	ePKP	44	00.00	-1.3	
IRK	113.22	325	ePKP	42	51.00	-0.3	TAB	134.90	280	ePKP	43	33.30	-0.1	MMB	151.50	270	iPKP	44	06.00	4.4X
		0.8s		29.00nm			LIC	136.16	196	PKP	43	22.87	-13.4X	THE	151.52	267	e(PKP)	44	06.12	4.6X
Z	20s			2.07um	5.7Msz					0.6s	4.00nm		LIT	151.55	266	e(PKP)	44	05.52	3.8X	
N	22s			0.78um			KIC	136.24	196	PKP	43	24.07	-12.4X	MLR	151.76	278	ePKP	44	00.50	-1.5
E	20s			1.41um						1.1s	28.00nm		KNT	151.83	268	e(PKP)	44	06.56	4.5X	
		e		43	06.00		TIC	136.57	196	PKP	43	24.57	-12.5X	GRG	152.05	267	e(PKP)	44	07.60	5.2X
		e		43	49.00					0.7s	4.50nm		KKB	152.05	270	iPKP	44	07.00	4.6X	
		eS		53	14.00		YSNY	136.90	74	PKP	43	50.00	13.1X	VAY	152.12	268	iPKP	44	02.70	0.3
		e		54	36.00		Z	20s		5.70um	6.3Msz				0.9s		80.00nm			
MSU	114.29	59	ePKP	42	55.68	1.5	MTA	137.88	283	iPKP	43	42.80	4.1X			i		44	07.40	
BOD	114.42	333	ePKP	42	52.10	-1.4	Z	18s		0.50um	5.3Msz		KZN	152.13	266	ePKP	44	07.50	4.9X	
		0.9s		13.00nm			N	18s		1.50um			SDF	152.18	326	iPKP	44	09.50	7.8X	
SVW	114.66	20	ePKP	42	53.00	-0.9	E	18s		0.50um			DAG	152.36	1	iPKPc	44	01.10	-0.7	
DUG	115.10	57	PKP	43	10.00	14.5X	GRO	138.17	286	ePKP	43	40.00	0.8			0.7s		86.30nm		
Z	19s			4.63um	6.1Msz		LKO	139.50	196	PKP	43	35.02	-7.5X			ipP		44	15.70	
ALQ	115.11	65	PKP	43	10.00	14.2X				0.9s	25.50nm		FNA	152.63	266	e(PKP)	44	08.36	5.1X	
Z	18s			8.52um	6.4Msz		RES	139.57	24	ePKP	43	45.50	4.7X	IGT	152.66	263	e(PKP)	44	09.12	5.8X
NIL	115.21	293	iPdiff	39	02.00	-5.0X				0.9s	4.00nm		KBN	152.94	265	ePKP	44	05.50	1.8	
SLKM	115.44	23	ePKP	42	55.39	0.0	LSCT	139.87	78	PKP	43	50.00	7.6X	GDH	152.94	29	ePKPc	44	04.00	1.3
CP2	115.59	22	ePKP	42	54.86	-1.0	Z	20s		3.19um	6.1Msz				e		44	30.00		
ANM	115.94	14	ePKP	42	56.66	0.5	KIV	140.36	285	ePKP	43	38.40	-4.9X	MNK	153.00	297	ePKP	44	10.00	6.8X
PV10	115.97	61	ePKP	42	56.07	-1.3				1.9s	42.00nm		OHR	153.18	266	iPKP	44	04.30	0.3	
TTA	116.20	19	ePKP	42	56.52	-0.3	Z	16s		1.20um	5.7MszX				1.2s		90.00nm			
PMR	116.65	23	iPKPd	42	57.66	0.1				e	10	23.00		SKO	153.18	268	iPKP	44	02.00	-1.9
Z	20s			2.52um	5.8Msz		GAC	140.41	72	ePKP	43	36.50	-6.6X			i		44	10.00	
QUE	116.73	286	ePKP	43	00.50	1.5	RSNY	140.46	74	ePKP	43	38.22	-5.1X			1.0s		90.00nm		
SIT	117.15	32	PKP	43	10.00	11.4X	HRV	141.36	78	PKP	43	50.00	5.0X			i		44	12.50	
Z	20s			3.07um	5.9Msz		Z	18s		3.30um	6.1Msz		TPE	153.27	264	ePKP	44	06.50	2.4	
KSH	117.56	299	ePKP	43	02.00	1.8	LBNH	141.96	76	PKP	44	00.00	14.0X	KAF	153.56	315	iPKP	44	10.30	6.5X
TOA	117.85	24	ePKP	43	00.50	0.6	Z	20s		3.07um	6.1Msz				0.8s		53.30nm			
NEW	118.43	48	ePKP	42	54.60	-6.9X	SOC	142.06	283	ePKP	43	42.00	-4.2X	TIR	153.91	266	ePKP	44	05.00	0.1
Z	21s			5.12um	6.1Msz		ANN	144.21	284	ePKP	43	44.00	-5.8X	LUV	154.37	287	ePKP	44	07.00	1.7
GOL	118.97	62	ePKP	43	05.23	2.2	Z	18s		1.20um	5.7Msz				i		44	15.00		
Z	21s			3.32um	5.9Msz		E	18s		1.00um			SDA	154.49	267	ePKP	44	16.00	10.3X	
		e		43	46.35		KAS	144.82	276	iPKPc	43	49.30	-1.8	NUR	154.60	312	ePKP	44	15.50	10.3X
		ePP		44	22.69		ELL	144.85	267	iPKP	43	57.50	6.1X	UZH	155.16	283	ePKP	44	13.50	7.2X
		e		45	02.33		MBO	145.21	178	iPKP	43	53.20	0.9			1.0s		30.00nm		
		e		46	11.98		CBM	145.54	73	ePKPc	43	49.85	-2.2			e		44	32.50	
		e		55	34.79		Z	19s		5.87um	6.4Msz		SPC	156.61	284	e(PKP)	44	04.80	-3.8X	
GLD	119.09	62	PKP	43	10.00	6.8X				ec	43	51.84				e		44	35.70	
Z	20s			6.05um	6.2Msz		KHL	146.00	269	ePKP	43	52.80	-0.4	UZD	156.94	276	ePKP	44	05.00	-3.8X
LRM	119.13	53	ePKP	43	03.60	0.4	ALT	146.01	270	ePKP	43	50.70	-2.5X	SRO	157.49	279	ePKP	44	08.30	-1.1
IMA	119.44	18	ePKP	43	00.77	-2.2	SIM	146.27	282	ePKP	43	54.00	0.7			i		44	43.30	
WMOK	119.62	70	ePKP	43	03.92	-0.2	CIN	146.53	266	ePKP	43	56.00	2.1			ePP		48	19.80	
Z	19s			11.84um	6.5Msz		EYL	146.77	273	ePKP	43	54.40	0.0	ZAG	158.37	273	e(PKP)	44	10.50	0.0
COL	119.76	21	ePKP	43	00.75	-2.6	IZI	147.10	272	ePKP	43	53.40	-1.5	ZST	158.37	280	ePKP	44	08.90	-1.6
FBA	119.76	21	ePKP	43	01.73	-1.7	LMN	147.20	77	ePKP	43	54.50	-0.3			i		44	45.40	
RSSD	122.58	59	ePKP	43	07.79	-1.9	DST	147.28	270	ePKP	43	55.50	0.3			ePP		48	28.70	
MIAR	122.74	74	PKP	43	20.00	10.0X	IZM	147.52	267	ePKP	43	56.00	0.4	PTJ	158.41	273	ePKP	44	09.10	-1.6
Z	19s			2.84um	5.9Msz		MOS	147.56	302	ePKP	43	55.00	0.0	RIY	159.24	271	e(PKP)	44	11.00	-0.5
OXF	125.35	76	ePKP	43	15.01	-0.1				2.0s	500.00nm		LJU	159.40	273	ePKP	44	09.80	-1.9	
Z	18s			1.28um	5.6Msz		Z	22s		3.50um	6.1Msz				e		44	12.00		
INK	126.02	24	ePKP	43	15.50	0.1				e	47	29.00		APD	159.73	315	ePKP	44	13.80	2.2
		1.0s		16.00nm			VAM	147.76	260	ePKP	44	00.80	4.8X			iPKPab		44	51.70	
CCM	126.41	72	PKP	43	17.36	0.3	ITU	147.79	273	ePKP	44	00.00	4.2X	TRI	159.78	271	ePKP	44	12.00	-0.1
FVM	126.88	72	PKP	43	30.00	12.0X	OBN	148.01	301	ePKPc	43	55.69	0.0	VOY	159.81	272	ePKP	44	11.70	-0.6
Z	20s			13.79um	6.6Msz					3.1s	495.50nm				ePKPab		44	52.70		
ELC	127.20	74	ePKPc	43	18.50	-0.1	Z	22s		1928.30um	8.8MszX		PRU	160.40	284	PKP	44	12.00	-0.6	
SLM	127.39	72	PKP	43	30.00	11.1X				i	43	59.00		KBA	160.50	275	(PKP)	44	12.30	-0.8
Z	21s			5.94um	6.2Msz					epPKP	44	16.60				e		44	55.90	
GOGA	128.47	81	ePKP	43	21.52	0.4				(sPKP)	44	22.60		GEC2	160.72	280	e(PKP)	44	13.50	0.4
Z	20s			1.53um	5.7Msz					ePP	50	49.50		NRE0	160.74	317	PKPd	44	13.40	0.8
YKA	128.50																			



03d 13h

	N	22s		2.30um				
	E	20s		1.10um				
				e	44	57.60		
				e	45	06.00		
				e	45	18.00		
				e	45	39.00		
				e	46	03.00		
				ePP	48	40.00		
BRG	160.91	286	iPKP	44	14.10		1.0	
	2.0s		130.00nm					
	Z	21s		1.40um				
	N	21s		3.20um				
	E	21s		2.50um				
			i	44	57.60			
CLL	161.54	287	ePKP	44	14.00		0.3	
WTTA	161.67	274	iPKPd	44	12.10		-2.1	
			i	44	59.30			
FIN	162.83	262	ePKP	44	12.50		-2.8	
AVE	162.87	204	iPKP	44	17.00		1.4	
PAB	167.32	224	ePKP	44	28.80		9.4X	
	S.D. = 1.2		on 185 of 277 obs.					
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?	JAN	03,	1994	13h 43m	55.06±	3.33s		
	22.886 S		+16.1km	177.600 W	±29.9km			
	DEPTH = 262.7 ± 19.2 km							
	5.0mb ( 12 obs.)							
	SOUTH OF FIJI ISLANDS						(171)	
SVA	6.01	321	eP	45	24.10		-0.1	
			eS	46	16.40			
VUN	6.10	322	eP	45	17.10		-8.2X	
			eS	46	06.30			
DZM	14.77	270	iPc	47	28.10		14.6X	
CNB	31.26	239	iPd	49	59.20		6.6X	
	0.4s		18.00nm				5.0mb	
TOO	34.85	237	eP	50	30.00		6.8X	
	0.6s		32.00nm				5.0mb	
PMG	36.29	286	eP	50	36.00		0.5	
STK	37.15	247	eP	50	46.90		4.3X	
	0.5s		14.90nm				4.7mb	
LAT	37.69	290	eP	50	47.60		0.4	
MDG	39.44	291	eP	50	53.00		-8.6X	
QIS	39.72	265	eP	51	04.30		0.4	
ASPA	44.39	259	iPd	51	42.40		0.7	
	0.6s		72.00nm				5.2mb	
			iS	57	22.90			
WRA	44.69	264	P	51	44.20		0.2	
	0.5s		36.20nm				5.0mb	
WARB	50.51	254	iPd	52	29.10		0.2	
	0.2s		7.00nm				4.7mb	
KNA	50.89	268	iPd	52	30.80		-1.1	
COOL	54.63	248	eP	52	59.00		-0.2	
KLB	57.41	246	iPd	53	19.00		0.2	
MEEK	57.52	252	eP	53	19.00		-0.6	
MBL	57.63	259	iPd	53	19.00		-1.4	
NWAO	57.66	245	iPd	53	21.10		0.6	
BAL	58.45	247	iPd	53	25.90		-0.1	
	0.3s		19.00nm				5.2mb	
MUN	58.66	246	iPd	53	28.10		0.7	
MRWA	59.30	249	iPd	53	31.80		0.0	
	0.5s		29.00nm				5.1mb	
MAT	72.34	324	eP	54	53.00		-1.0	
	1.0s		8.00nm				4.4mb	
OFUJ	72.47	328	eP	54	55.30		0.6	
NJ2	81.68	310	Pc	55	45.00		-0.5	
MDJ	82.68	325	eP	55	51.50		1.2	
BJI	87.84	315						

	0.5s		1.25nm						
			e	03	24.50				
			e	03	34.70				
GRB5	152.82	347	e(PKP)	03	23.80	9.5X			
Z	23s		2.40um			5.9mszX			
			e	03	36.10				
	S.D. = 0.7	on	25 of	39 obs.					
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?	JAN 03, 1994	14h 48m	01.61± 1.91s						
	28.759 S ±21.7km	177.270 W	±22.0km						
	DEPTH = 101.3 ± 14.0 km								
	4.6mb ( 6 obs.)								
KERMADECE ISLANDS REGION (177)									
Felt on Raoul Island.									
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RAO	0.75	229	iPd	48	20.00	0.2			
			iS	48	33.70				
DZM	16.14	291	iPc	51	43.30	-0.6			
BKM	17.28	307	iPc	51	50.50	-7.4X			
ASPA	43.86	265	iPd	56	00.00	0.4			
	1.4s		11.00nm			4.5mb			
WB2	44.69	270	iPc	56	06.00	-0.3			
	0.8s		10.00nm			4.7mb			
			e	56	15.90				
			e	57	45.50				
WRA	44.70	270	P	56	06.40	0.0			
	0.7s		3.80nm			4.3mb			
LEM	73.71	271	ePd	59	38.50	11.7X			
KAKJ	76.02	326	eP	59	38.50	-0.7			
CHJJ	76.48	325	P	59	39.00	-2.9X			
IIDJ	76.60	324	P	59	45.00	2.4X			
WKYJ	76.88	321	P	59	46.10	1.9			
MAT	77.27	325	eP	59	44.00	-2.2			
	1.1s		11.39nm			4.6mb			
MTMJ	77.51	324	P	59	50.10	2.5X			
TKSJ	77.56	320	P	59	49.60	1.7			
SYO	78.87	193	ePd	59	58.40	3.9X			
NVL	80.54	183	P	00	03.00	-0.4			
NJ2	85.67	310	Pd	00	34.00	3.8X			
CN2	89.23	322	eP	00	46.00	-1.1			
	1.0s		7.00nm			4.7mb			
BJI	92.21	315	eP	01	00.50	-0.4			
	1.2s		8.00nm			4.9mb			
Z	20s		0.60um			5.0msz			
TIY	93.25	312	eP	01	06.00	0.1			
	Z 22s		1.56um			5.4msz			
	E 20s		0.97um						
XAN	93.63	307	eP	01	09.50	1.8			
KAF	143.21	342	ePKP	07	19.20	-5.5X			
NUR	144.98	341	iPKP	07	24.80	-2.9X			
	0.5s		10.90nm						
HFS	147.76	350	ePKP	07	32.00	-0.3			
	0.5s		3.00nm						
	S.D. = 1.3	on	15 of	24 obs.					
<hr/>									
&	JAN 03, 1994	16h 24m	58.84s						
	67.477 N		145.758 W						
	DEPTH = 35.7km								
	3.6mb ( 1 obs.)								
NORTHERN ALASKA (676)									
	<AEIC>. ML 3.6 (AEIC), 3.9 (PMR).								
<hr/>									
BM3	0.45	97	eP	25	08.52	-0.3			
			eS	25	15.98				
FYU	0.94	167	eP	25	15.58	-0.1			
GLM	2.59	196	eP	25	39.39	0.1			
			eS	26	09.53				
FBA	2.72	199	eP	25	40.20	-0.9			
MDM									

DOT	3.91	169	eP	25	59.40	1.4		
MCK	3.98	201	eP	25	59.13	0.1		
RND	4.29	199	eP	26	05.01	1.5		
TMW	4.33	163	eP	26	04.75	0.8		
DHY	4.47	189	eP	26	07.26	1.1		
PAX	4.53	178	eP	26	07.27	0.4		
INK	4.70	74	P	26	11.00	1.9		
	0.5s		6.20nm					
BC3	4.73	158	eP	26	09.65	-0.1		
TOA	5.40	182	P	26	19.10	0.0		
CUT	5.44	203	eP	26	21.36	1.8		
SCM	5.71	188	eP	26	24.21	0.7		
SML	5.80	192	eP	26	26.48	1.7		
GHO	5.89	195	eP	26	28.57	2.5		
KLU	6.01	181	eP	26	28.83	1.0		
SKT	6.04	207	eP	26	27.44	-0.8		
PMR	6.08	195	eP	26	31.60	2.9		
PWA	6.11	199	P	26	31.20	2.1		
GLB	6.12	171	eP	26	29.44	0.2		
KNK	6.20	192	eP	26	31.85	1.5		
TTA	6.27	228	eP	26	31.10	-0.4		
CFI	6.38	189	eP	26	34.65	1.8		
BALM	6.63	165	eP	26	36.91	0.4		
NCG	6.69	207	eP	26	38.60	1.2		
PWL	6.74	191	eP	26	39.96	2.0		
CGLM	6.76	207	eP	26	38.54	0.3		
CTGM	6.82	162	eP	26	39.43	0.3		
CRP	6.82	207	(P)	26	39.80	0.6		
TGL	6.87	168	eP	26	40.67	0.9		
SVW	7.69	218	eP	26	51.30	0.1		
MBC	11.88	31	eP	27	51.00	2.5		
YKA	13.98	96	eP	28	17.90	1.6		
	0.4s		0.50nm			3.6mb		
	48 obs. associated							
-----								
%	JAN	03,	1994	16h	46m	48.01± 2.18s		
	39.500 N	±15.9km		28.242 E	±12.9km			
	DEPTH = 10.0km (geophysicist)							
	TURKEY					(366)		
	ML 3.0 (ISK).							
DST	0.32	70	iPg	46	54.30	-0.3		
			eSg	47	00.80			
EDC	0.89	341	iPg	47	04.50	-0.7		
			eSg	47	17.50			
IZI	1.26	48	iPn	47	11.30	-0.2		
ALT	1.52	106	ePn	47	15.30	0.0		
CTT	1.65	5	ePn	47	18.00	0.8		
EYL	1.82	53	ePn	47	20.00	0.3		
	S.D. = 0.7		on	6 of	6 obs.			
-----								
*	JAN	03,	1994	18h	47m	05.73± 1.57s		
	16.297 N	± 7.9km		61.140 W	±12.8km			
	DEPTH = 31.6 ± 10.8 km							
	LEEWARD ISLANDS					( 92)		
	ML 3.1 (FDF).							
SFG	0.07	232	iPd	47	11.27	0.1		
DEG	0.08	78	iPd	47	11.20	-0.1		
			S	47	14.62			
MGG	0.41	204	ePc	47	15.19	0.3		
PAG	0.58	243	ePd	47	17.27	-0.4		
			S	47	25.13			
BPA	1.01	317	ePd	47	23.69	-0.1		
			S	47	36.50			
MGH	1.12	292	ePc	47	25.48	0.3		
			S	47	39.60			
CRM	1.55	172	eP	47	31.32	-0.1		
FDF	1.55	180	eP	47	31.40	-0.2		
			S	47	50.20			
MVM	1.75	172	iPc	47	34.53	0.2		
			S	47	55.50	</		



0.291 N ±11.5km 125.609 E ±16.6km					
DEPTH = 33.0km (normal)					
4.9mb ( 4 obs.) 4.6Msz ( 1 obs.)					
NORTHERN MOLUCCA SEA (266)					
BIP	7.91	5 eP	18	01.00	-1.1
ASPA	25.14	162 eP	21	29.90	-0.4
	0.3s	20.40nm			5.2mb
CHTO	31.99	307 eP	22	32.00	-0.2
GUN	46.93	309 P	24	36.20	-0.4
	0.5s	10.00nm			5.1mb
PKI	47.13	309 P	24	38.00	-0.2
	0.4s	4.00nm			4.8mb
KKN	47.33	309 P	24	40.10	0.5
	0.4s	3.00nm			4.7mb
DMN	47.38	308 P	24	40.80	0.7
GKN	47.94	309 P	24	44.00	-0.3
HYB	49.31	293 eP	24	54.50	-0.4
YAK	61.65	2 eP	26	25.00	1.8
	Z 18s	0.40um			4.6Msz
	N 18s	0.30um			
S.D. = 0.9 on 10 of 10 obs.					
-----					
JAN 03, 1994 19h 49m 11.53± 0.69s					
40.222 N ± 6.3km 21.483 E ± 6.9km					
DEPTH = 10.0km (geophysicist)					
GREECE (364)					
ML 1.9 (THE).					
FNA	0.57	352 iPg	49	22.61	-0.5
		iSg	49	31.06	
LIT	0.78	99 iPg	49	26.38	-0.4
		eSg	49	39.30	
OHR	1.03	330 ePn	49	31.50	0.5
IGT	1.12	232 ePg	49	32.26	-0.3
AGG	1.37	151 ePb	49	37.06	0.4
KNT	1.43	48 ePb	49	37.74	0.2
S.D. = 0.6 on 6 of 6 obs.					
-----					
? JAN 03, 1994 19h 53m 16.11± 0.99s					
34.835 N ±15.3km 71.519 E ± 8.7km					
DEPTH = 33.0km (normal)					
4.0mb ( 1 obs.)					
PAKISTAN (710)					
QUE	6.03	221 eP	54	45.50	0.0
		eS	56	01.20	
NDI	7.82	140 ePd	55	19.60	9.2X
	0.6s	32.00nm			5.6mb X
MAIO	9.90	282 eP	56	08.00	28.7X
GKN	13.10	118 P	56	23.60	1.0
	0.5s	26.00nm			5.5mb X
DMN	13.67	118 P	56	30.80	0.6
	0.6s	33.00nm			5.4mb X
KKN	13.69	117 P	56	30.80	0.3
	0.6s	34.00nm			5.4mb X
PKI	13.91	118 P	56	32.80	-0.6
GUN	14.07	115 P	56	34.30	-1.2
HYB	18.45	158 eP	57	27.50	-3.5X
HFS	44.64	323 eP	01	27.00	0.0
	0.5s	1.00nm			4.0mb
S.D. = 0.9 on 7 of 10 obs.					
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& JAN 03, 1994 20h 10m 27.17s					
60.423 N 142.173 W					
DEPTH = 5.3km					
SOUTHERN ALASKA ( 2)					
<AEIC>. ML 3.4 (AEIC).					
CYK	0.37	205 iPd	10	34.73	0.0
		eS	10	41.12	
SNH	0.41	234 iPd	10	35.25	-0.2
		eS	10	42.61	
TGL	0.47	316 iPd	10	36.78	0.3
		iS	10	44.15	
BALM	0.62	352 iPd	10	39.55	-0.1
		eS	10	48.67	
CTGM	0.68	37 iPd	10	40.70	-0.1
		eS	10	51.09	
HMT	1.04	266 iPd	10	45.97	-1.3
		eS	11	00.91	
RAGM	1.24	269 eP	10	49.90	-0.8
		eS	11	06.99	
GLB	1.30	323 iPc	10	49.87	-1.8
		eS	11	06.95	
YKU	1.51	124 P	10	54.10	-0.7
		S	11	12.90	

CVA	1.78	276	eP	10	57.13	-1.5
KLU	2.12	302	ePc	11	02.33	-1.4
HIN	2.15	271	eP	11	02.48	-1.6
FID	2.15	281	eP	11	02.90	-1.2
VLZ	2.16	291	eP	11	03.12	-1.1
			eS	11	30.41	
VZW	2.24	288	eP	11	03.28	-2.3
TZL	2.26	317	eP	11	05.40	-0.4
GLI	2.47	283	P	11	04.00	-4.6
TOA	2.57	313	P	11	09.30	-0.8
BC3	2.66	4	ePc	11	10.66	-0.8
			eS	11	43.46	
CFI	2.85	288	eP	11	12.03	-2.0
SCM	2.87	302	eP	11	13.71	-0.8
PAX	3.00	330	eP	11	15.41	-0.9
PWL	3.07	281	eP	11	14.89	-2.3
KNK	3.22	291	eP	11	18.53	-0.9
SML	3.30	298	eP	11	19.88	-0.6
GHO	3.55	295	P	11	19.70	-4.3
MPA	3.56	274	P	11	21.70	-2.4
PLRM	3.59	292	P	11	24.00	-0.5
PMR	3.59	292	eP	11	24.52	0.0
DHY	3.63	319	eP	11	25.96	0.6
PMS	3.71	286	eP	11	26.01	-0.3
PWA	3.95	292	P	11	28.80	-0.8
SLKM	3.99	275	eP	11	26.84	-3.4
CNPM	4.64	263	eP	11	37.54	-2.0
SKT	4.79	293	eP	11	42.17	0.5
IL1	4.88	336	eP	11	41.70	-1.2
ILB	4.88	336	P	11	41.50	-1.4
SIT	4.91	130	(P)	11	39.78	-3.5
CRP	4.96	284	(P)	11	41.09	-3.0
CP2	5.00	284	eP	11	41.59	-3.2
FBA	5.19	332	(P)	11	43.68	-3.5
	1.1s	12.60nm			4.5mb	X
TTA	7.05	297	(P)	12	10.40	-3.1
BM3	7.11	352	eP	12	12.09	-2.2
INK	8.75	22	eP	12	45.50	8.4
YKA	13.30	69	eP	13	43.00	4.1
	0.8s	0.80nm			3.9mb	X
MBC	17.74	18	eP	14	35.00	-0.9
	46 obs.	associated				
-----						
	JAN	03,	1994	21h	00m	31.38± 0.16s
	37.002	N	± 2.4km		35.842	E ± 2.1km
	DEPTH =	25.8km	(	9 depth	phases)	
	5.0mb	(	78 obs.)	4.8MsZ	(	36 obs.)
	TURKEY					(366)
	ML	5.3	(CSS),	5.0	(ISK).	
ADAT	0.39	279	iPg <sub>d</sub>	00	41.70	1.8
GAZ	1.11	81	iPg	00	50.90	-0.3
			eS <sub>g</sub>	01	05.90	
BNN	1.84	1	iPn	01	01.90	0.0
FAM	2.50	217	eP	01	10.70	-0.5
			eS	01	50.50	
CSS	2.88	226	eP	01	15.50	-1.1
			eS	01	58.70	
BHL	3.10	183	Pn	01	17.00	-2.8
			Sn	02	00.00	
PPCY	3.54	234	eP	01	25.50	-0.4
			eS	02	16.00	
KVT	4.08	2	ePn	01	33.00	-0.6
KAS	4.65	340	iPnc	01	42.20	0.4
			iS <sub>g</sub>	02	03.00	
ELL	4.76	269	iPn	01	50.00	6.5X
ALT	4.97	296	ePn	01	48.00	1.7
SALJ	4.98	182	Pd	01	47.70	1.2
KFNJ	5.13	182	Pc	01	48.97	0.5
KHL	5.18	287	iPn	01	50.60	1.2
MASJ	5.26	181	Pc	01	49.91	-0.5
MDSJ	5.37	176	Pd	01	51.64	-0.3
GPA	5.43	309	iPn	01	54.00	1.2
MKRJ	5.44	182	Pc	01	53.28	0.3



03d 21h

SOC	7.21	23	eP	02	18.00	0.3	RYD	15.33	140	eP	04	05.88	-1.8	VDL	2.1s	100.00nm	4.9mb				
Z	11s	14.00um					UZD	16.02	312	e(P)	04	17.00	0.6	MOX	21.75	304	P	05	36.81	13.9X	
N	11s	11.30um					DHR	16.16	127	eP	04	14.60	-3.8X		22.04	316	eP	05	26.10	0.6	
E	11s	8.50um					SPC	16.64	322	eP	04	26.00	1.6		1.4s	27.00nm	4.5mb				
AQBJ	7.28	185	Pc	02	19.69	0.9	ZAG	17.27	307	eP	04	33.50	1.3			eS	09	36.00			
PRK	7.87	289	eP	02	28.70	1.7	PTJ	17.32	307	eP	04	32.30	-0.6	LLS	22.18	305	P	05	27.46	0.3	
DMK	7.89	310	ePn	02	29.00	1.7	ZST	17.71	315	eP	04	36.80	-0.9	SBF	22.61	296	eP	05	30.30	-1.0	
SIM	8.05	351	eP	02	28.00	-1.4			i	04	49.10			0.8s	16.50nm		4.6mb				
HLW	8.05	209	ePn	02	27.25	-2.3	MNK	17.85	344	eP	04	43.00	3.7X	MMK	22.65	302	P	05	46.88	15.0X	
		(S)	03	57.00			Z	18s	3.12um					ZLA	22.75	306	P	05	47.13	14.5X	
AYN	8.11	179	ePc	02	30.00	-0.4	ASH	17.89	80	eP	04	41.00	1.0	SLE	22.77	307	P	05	42.95	10.1X	
		eS	04	30.00			OKC	18.10	321	eP	04	43.00	0.5	DIX	23.03	302	P	05	35.86	0.2	
MTA	8.37	53	eP	02	33.00	-1.0		e	04	50.50			PUL	23.06	353	eP	05	36.00	0.6		
Z	11s	4.00um				5.9MszX	OBN	18.11	1	ePc	04	40.00	-2.5		3.0s	900.00nm	5.8mb				
N	11s	18.00um					Z	12s	2.60um					Z	16s	1.80um	4.6MszX				
E	11s	11.00um					N	12s	2.00um					N	15s	1.70um					
		e	04	13.00			E	12s	1.30um					E	15s	1.70um					
TAB	8.40	80	iPc	02	37.50	3.0X		eS	08	04.00					e	05	43.00	25km			
		e	03	11.00			RIY	18.14	304	eP	04	42.20	-0.8		e	06	05.00				
		i	03	17.40			VKA	18.19	314	e(P)	04	44.00	0.3		eS	09	40.00				
ALN	8.57	300	e(P)	02	37.94	1.3		i	05	13.70					e	09	52.00				
KIV	8.68	35	eP	02	37.60	-0.8	KMSA	18.21	153	eP	04	43.70	-0.4	FRF	23.14	296	eP	05	36.30	-0.1	
PYA	8.91	36	iPc	02	44.00	2.5	LJU	18.29	306	iP	04	44.80	-0.1		0.8s	14.65nm	4.6mb				
	1.0s	100.00nm				6.0mb		i	05	02.30			LMR	23.22	295	eP	05	35.70	-1.4		
RDO	9.02	300	eP	02	43.50	0.6		i	05	12.80				0.9s	10.80nm		4.4mb				
KDZ	9.31	303	eP	02	49.00	2.0		eS	08	10.00			LRG	23.34	295	eP	05	37.10	-1.2		
RZN	9.80	302	eP	02	54.00	0.0		e	12	48.00				0.8s	10.50nm		4.4mb				
GRO	9.84	47	iPd-	02	59.00	4.8X	TRI	18.67	305	eP	04	46.00	-3.5X	Z	19s	2.05um	4.6Msz				
	1.0s	270.00nm				6.5mb X		e	11	44.00			EMS	23.36	302	P	05	37.97	-0.7		
N	14s	15.00um					VOY	18.70	306	eP	04	48.70	-1.3	LPG	23.36	300	eP	05	38.70	-0.2	
E	16s	9.00um					MOS	18.78	3	iPd	04	49.00	-1.8		0.5s	10.50nm	4.6mb				
OUR	9.85	293	e(P)	02	56.62	2.2		1.8s	650.00nm			5.5mb	LPL	23.38	300	eP	05	38.20	-0.8		
PAIG	9.98	291	e(P)	02	57.14	1.0	Z	14s	3.00um					0.8s	15.05nm		4.6mb				
PLD	9.99	304	iP	03	00.00	3.6X	MAIO	18.99	85	iPc	04	54.00	0.4	CDF	23.75	308	eP	05	41.60	-0.8	
CFR	10.02	327	eP	02	57.00	0.3		0.8s	20.86nm			4.4mb		0.9s	21.15nm		4.7mb				
VLI	10.35	272	eP	03	00.50	-0.7		eS	08	24.00			BSF	23.89	306	eP	05	42.90	-0.8		
SRS	10.37	297	e(P)	03	03.06	1.5	KBA	19.45	308	iPd	04	57.40	-1.6		1.0s	30.40nm		4.8mb			
MMB	10.44	300	iP	03	04.00	1.4		1.4s	29.40nm			4.4mb	HAU	24.22	306	eP	05	46.00	-0.9		
SOH	10.45	295	e(P)	03	05.50	2.8X		i	05	10.90	61kmX			0.9s	20.45nm		4.7mb				
BUC	10.46	318	ePd	03	01.00	-1.7	ABHA	19.64	160	eP	04	59.90	-1.6	Z	21s	1.35um	4.4Msz				
SHE	10.62	66	iPc	03	05.50	0.6	KMTA	19.76	160	eP	05	02.40	-0.2	NUR	24.59	347	iP	05	50.00	-0.2	
	1.2s	120.00nm				6.0mb	GEC2	19.99	313	P	05	03.30	-1.5		0.7s	41.70nm	5.1mb				
N	22s	21.00um						0.6s	6.10nm			4.1mb	ARU	24.70	31	iPd	05	51.00	-0.3		
E	12s	32.00um						pP	05	11.20	30km			1.5s	300.00nm		5.7mb				
THE	10.68	294	e(P)	03	08.34	2.6		e	05	16.40			Z	16s	1.00um	4.4MszX					
MAK	10.72	52	iP	03	10.00	3.7X		PcP	09	18.80			E	16s	1.50um						
	Z	16s	14.00um					e	09	24.80				e	05	57.50	23km				
	N	16s	12.50um					PcP	12	57.00				e	06	23.50					
	E	16s	13.50um				BHG	19.99	310	eP	05	02.90	-1.8		eS	10	11.50				
ISR	10.73	322	eP	03	11.00	4.5X		1.3s	39.00nm			4.6mb	LBF	25.54	303	eP	05	59.00	-0.5		
AGG	10.85	285	e(P)	03	11.22	3.1X	PRU	20.09	317	P	05	04.00	-1.7		0.9s	19.00nm		4.7mb			
KNT	10.88	296	e(P)	03	11.10	2.5		1.4s	45.50nm			4.6mb	SMF	25.57	302	eP	05	59.10	-0.6		
LIT	10.90	291	e(P)	03	10.98	2.1	Z	20s	1.60um			4.4Msz		1.0s	32.40nm		4.9mb				
KKB	11.00	300	iP	03	12.00	1.9	N	22s	2.00um				LOR	25.68	304	eP	06	00.20	-0.6		
VAY	11.17	297	iP	03	15.30	2.9X	E	20s	1.50um					0.8s	17.20nm		4.7mb				
GRG	11.18	295	e(P)	03	13.70	1.0		eP	05	12.50	32km		Z	21s	1.92um	4.6Msz					
VRI	11.19	325	eP	03	16.00	3.4X		PcS	12	55.70			UPP	25.69	339	iP	06	00.60	-0.1		
VTs	11.20	304	iP	03	14.00	0.9	KHC	20.20	314	eP	05	04.50	-2.4	SVE	25.82	32	iPd	06	01.50	-0.4	
KIS	11.27	335	eP	03	13.00	-0.7		1.0s	21.00nm			4.4mb			2.0s	260.00nm	5.5mb				
Z	14s	5.10um				5.5Msz	Z	20s	2.60um			4.6Msz		Z	15s	1.50um	4.6MszX				
N	12s	3.60um					N	20s	2.10um					N	16s	0.60um					
		eS	05	10.00			E	20s	1.70um					E	16s	2.00um					
MLR	11.28	322	eP	03	20.00	5.9X		e	05	11.50	26km		KAF	25.83	350	iP	06	01.50	-0.5		
KZN	11.49	291	eP	03	18.80	1.9		e	05	16.50				1.0s	53.10nm		5.1mb				
BAK	11.49	69	eP	03	20.00	3.2X	WTTA	20.60	307	iPc	05	09.80	-1.4	SSF	25.87	303	eP	06	02.50	-0.1	
CMP	11.59	319	ePd	03	19.00	0.8		1.3s	22.70nm			4.4mb			1.1s	27.35nm		4.8mb			
VLS	12.16	280	eP	03	27.00	1.1	WET	20.61	313	iPc	05	09.50	-1.6	AVF	25.92	302	eP	06	02.70	-0.3	
SKO	12.18	298	iP	03	29.00	2.9X	WATA	20.66	308	iPc	05	10.10	-1.7		0.8s	20.70nm		4.8mb			
	Z	13s	0.47um					iP	05	21.20			DOU	25.94	310	Pc	06	03.70	0.5		
		LR	08	29.00			OGA	20.85	306	eP	05	13.00	-0.8	MUD	26.42	326	iPc	06	08.40	0.9	
KBN	12.29	292	ePn	03	39.50	11.9X	SQTA	20.85	307	iPc	05	11.90	-1.8		0.8s	37.00nm	5.1mb				
OHR	12.39	294	eP	03	23.50	-5.5X		1.5s	27.50nm			4.4mb	HFS	27.14	336	eP	06	12.60	-1.4		
	1.3s	80.00nm				5.7mb		i	05	29.80	85kmX			0.9s	34.30nm		5.0mb				
		i	03	30.50			BRG	20.89	319	eP	05	12.40	-1.5	Z	17s	1.85um	4.7MszX				
		i	03	43.70				1.5s	29.00nm			4.5mb			LR	16	08.00				
IGT	12.45	286	e(P)	03	35.30	5.5X	Z	21s	3.70um			4.7Msz	AAE	27.97	174	eP	06	24.00	1.7		
TPE	12.81	290	ePn	03	39.50	5.0X	N	21s	3.80um				FRU	30.11	67	iPc	06	42.60	1.5		
TIR	13.13	294	e(Pn)	03	47.00	8.2X	E	21s	4.90um					1.8s	240.00nm		5.7mb				
VLO	13.22	290	e(Pn)	03	49.80	9.8X		e	09	26.50			Z	12s	1.90um	5.0MszX					
LACI	13.32	295	ePn	03	47.50	6.3X	MOTA	20.96	307	iPc	05	13.20	-1.7		E	12s	2.00um				
BZS	13.71	313	eP	03	40.00	-6.3X		iP	05	24.50			SDF	30.94	353	iP	06	47.90	-0.1		
MJMA	13.72	141	eP	03	53.10	6.5X	FUR	21.16	310	eP	05	13.00									



E	14s	2.01um				YAK	59.81	33 iPd	10 37.00	0.6		Z	19s	0.35um		4.8Msz
		ePP	07 58.00				1.2s	50.00nm		5.5mb		FVM	90.40	320 P	13 40.00	8.2X
		PcP	09 44.00			Z	18s	0.80um		4.9Msz		Z	21s	0.99um		5.2Msz
		S	12 02.00			E	18s	0.50um				RSSD	91.44	332 eP	13 37.51	0.7
		ScP	13 26.00					e	12 44.00	678kmX			0.8s	11.41nm		5.3mb
		SS	13 50.00			GYA	59.91	78 iPc	10 36.60	-1.2		NEW	91.76	342 eP	13 38.78	0.8
		ScS	17 24.00				1.0s	29.00nm		5.4mb			0.9s	14.45nm		5.4mb
POO	38.02	108 iPc	07 55.00	5.7X		NST	60.30	92 iPc	10 39.50	-0.9		Z	19s	0.29um		4.7Msz
	1.0s	44.00nm		5.2mb		BJI	60.84	60 eP	10 43.50	-0.2		OXF	92.50	318 P	13 50.00	8.5X
WMQ	39.52	63 iPd	08 03.00	1.3			1.4s	27.00nm		5.2mb		Z	22s	0.24um		4.6Msz
	1.2s	59.00nm		5.2mb		Z	18s	0.89um		5.0Msz		LRM	92.75	338 eP	13 43.40	0.6
Z	18s	1.57um		4.9Msz		N	17s	1.06um				GMW	93.68	346 (P)	13 47.26	0.5
E	15s	1.13um						eS	19 04.00			MIAR	94.67	320 P	14 00.00	8.5X
		pP	08 09.00	20km		LBTB	62.43	190 eP	10 54.75	0.1		Z	20s	0.71um		5.1Msz
		PP	09 33.50				1.2s	31.91nm		5.3mb		GOL	95.75	331 P	14 10.00	13.2X
		PcP	10 08.00			SLR	62.81	188 iPc	10 57.00	-0.1		Z	19s	0.61um		5.1Msz
		ScP	13 57.00				1.0s	40.00nm		5.5mb		WMOK	97.08	324 P	14 10.00	7.5X
		S	14 06.00			Z	18s	4.06um		5.6Msz		Z	18s	0.55um		5.1Msz
		ScS	18 00.00			KSR	63.10	189 eP	10 53.50	-5.5X		DUG	97.96	336 P	14 20.00	13.4X
GKN	41.74	88 Pc	08 20.60	0.4		TIA	63.22	64 eP	10 59.90	0.2		Z	18s	0.45um		5.0Msz
HYB	42.28	106 ePc	08 25.00	0.5			1.2s	29.00nm		5.3mb		WDC	100.29	343 Pdiff	14 30.00	13.3X
	1.0s	70.00nm		5.3mb		FRB	63.37	331 eP	10 59.50	-0.8		Z	19s	0.46um		5.0Msz
DMN	42.28	88 Pc	08 25.40	0.6			1.0s	39.00nm		5.5mb		ALQ	100.29	329 Pdiff	14 30.00	12.8X
KKN	42.34	88 Pc	08 25.60	0.4		WHN	63.86	70 eP	11 02.50	-1.5		Z	19s	0.35um		4.9Msz
PKI	42.54	88 Pc	08 27.40	0.4		RES	63.97	347 eP	11 04.00	-0.1		CMB	102.17	341 Pdiff	14 40.00	14.8X
GUN	42.77	87 Pc	08 29.30	0.4			1.0s	4.00nm		4.5mb		Z	21s	0.45um		4.9Msz
GBA	43.76	111 Pc	08 37.00	0.5		SNY	65.05	55 eP	11 10.60	-1.0		TUC	104.32	331 Pdiff	14 50.00	15.0X
KOD	45.99	115 eP	08 55.80	1.1		CN2	65.34	53 eP	11 13.00	-0.4		Z	18s	0.27um		4.8Msz
LSA	46.22	82 iPd	08 57.60	0.9			0.8s	4.70nm		4.7mb		HON	120.54	15 PKP	19 30.00	7.5X
	1.0s	30.00nm		5.2mb		Z	17s	1.49um		5.3MszX		Z	19s	0.36um		5.0Msz
LKO	46.31	245 Pc	08 56.37	-0.6		SEK	65.44	188 eP	11 23							



03d 22h

VLS 0.33 166 ePg 25 28.00 0.2  
 IGT 1.04 353 iPg 25 39.61 -1.8  
 iSg 25 56.26  
 KEK 1.33 336 ePb 25 47.00 0.7  
 SRN 1.44 345 eP 25 59.20 11.3X  
 AGG 1.53 69 ePb 25 47.46 -1.8  
 eSb 26 10.14  
 TPE 1.84 348 eP 25 54.00 0.4  
 KZN 2.06 28 ePb 26 00.10 3.1X  
 KBN 2.14 6 eP 25 57.50 -0.6  
 LIT 2.23 43 ePn 26 00.10 0.7  
 eSn 26 29.82  
 FNA 2.39 16 ePn 26 02.22 0.6  
 OHR 2.62 5 ePn 26 03.70 -1.3  
 VLI 2.63 132 ePb 26 10.80 5.7X  
 PAIG 2.86 59 iPn 26 07.74 -0.6  
 GRG 2.87 30 ePn 26 08.86 0.4  
 eSn 26 44.54  
 SOH 3.21 43 ePn 26 13.98 0.7  
 eSn 26 50.70  
 VAY 3.24 29 ePn 26 15.60 1.9  
 KNT 3.25 34 ePn 26 14.62 0.8  
 iSn 26 52.46  
 OUR 3.27 55 ePn 26 13.98 -0.1  
 SKO 3.55 12 ePn 26 22.50 4.4X  
 S.D. = 1.1 on 15 of 19 obs.

JAN 03, 1994 23h 06m 05.46± 0.53s  
 39.391 N ± 4.3km 28.161 E ± 6.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.3 (ISK).

DST 0.42 59 iPg 06 13.60 -0.5  
 eSg 06 19.50  
 EDC 0.98 347 iPg 06 24.50 0.4  
 iSg 06 38.00  
 IZM 1.21 216 ePn 06 27.00 -1.1  
 IZI 1.38 47 iPn 06 30.80 0.0  
 KHL 1.51 135 ePn 06 32.10 -0.5  
 ALT 1.55 102 ePn 06 33.60 0.4  
 CTT 1.77 7 iPn 06 36.10 -0.2  
 CIN 1.79 182 iPnd 06 38.00 1.4  
 iSg 07 02.00  
 ISK 1.81 22 ePn 06 37.50 0.7  
 HRT 1.84 38 iPn 06 36.60 -0.7  
 GPA 1.88 61 ePn 06 38.00 0.0  
 EYL 1.93 52 ePn 06 39.00 0.2  
 DMK 2.45 353 ePn 06 46.00 -0.1  
 S.D. = 0.7 on 13 of 13 obs.

\* JAN 03, 1994 23h 10m 08.21± 0.96s  
 44.927 N ± 7.6km 15.805 E ± 10.6km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 MD 2.8 (LJU), 2.6 (TRI).

VBY 0.70 326 ePg 10 20.80 -1.2  
 ZAG 0.90 8 e(Pg) 10 26.50 1.1  
 iSg 10 42.00  
 PTJ 0.98 6 iPg 10 26.10 -0.8  
 iSg 10 42.50  
 CEY 1.27 310 ePn 10 32.20 0.4  
 TRI 1.64 299 ePg 10 37.30 0.2  
 eSg 11 00.70  
 VOY 1.74 310 ePn 10 39.10 0.4  
 eSn 11 04.20  
 HVAR 1.81 165 iPn 10 39.50 -0.1  
 iSn 11 03.50  
 S.D. = 0.9 on 7 of 7 obs.

& JAN 03, 1994 23h 39m 15.66s  
 36.070 N 120.115 W  
 DEPTH = 4.7km  
 CENTRAL CALIFORNIA (39)  
 <GM-P>. MD 3.4 (GM). ML 3.3  
 (BRK), 3.3 (GS), 3.2 (PAS).

PKEM 0.01 150 iPc 39 17.56 0.9  
 PHBM 0.18 8 P 39 21.22 1.9  
 CTM 0.23 233 P 39 21.60 1.3  
 PSRM 0.25 212 P 39 22.07 1.3  
 PARM 0.26 314 P 39 22.62 1.8  
 PCRM 0.26 275 P 39 22.03 1.1  
 PMRM 0.30 199 P 39 23.01 1.3  
 GHC 0.31 219 P 39 22.11 0.3  
 PHAM 0.33 225 iPd 39 23.51 1.2

PSTM 0.35 246 P 39 24.13 1.4  
 PAGM 0.35 198 P 39 23.84 1.0  
 PSMM 0.39 270 P 39 25.07 1.6  
 PMCM 0.40 211 P 39 24.85 1.1  
 WKR 0.41 232 P 39 25.18 1.3  
 PTRM 0.42 191 P 39 25.80 1.7  
 PRCM 0.45 295 P 39 25.78 1.1  
 PRI 0.45 279 iP 39 26.17 1.4  
 PTV 0.49 275 P 39 26.94 1.4  
 MOP 0.57 285 P 39 28.04 1.0  
 PSAM 0.63 266 P 39 28.97 0.7  
 HVC 0.64 298 P 39 29.17 0.6  
 YEG 0.64 169 P 39 29.42 0.8  
 PANM 0.71 246 P 39 30.60 0.8  
 PMGM 0.72 207 P 39 30.10 0.1  
 PADM 0.75 235 P 39 31.50 0.9  
 BMSM 0.80 317 P 39 32.08 0.3  
 LRV 0.81 296 P 39 32.36 0.5  
 PJLM 0.84 272 P 39 32.59 0.1  
 BCH 0.88 178 eP 39 32.74 -0.4  
 PHCM 0.93 246 P 39 34.34 0.5  
 FRI 0.98 19 ePd 39 33.75 -0.9  
 iS 39 44.37  
 SHG 0.98 291 P 39 34.52 -0.3  
 PAPM 1.02 262 P 39 35.12 -0.4  
 EKH 1.04 305 P 39 36.20 0.4  
 SCCM 1.13 182 P 39 37.65 0.3  
 BCGM 1.18 303 P 39 39.62 1.5  
 HJSM 1.21 308 P 39 38.97 0.3  
 BSLM 1.22 306 P 39 41.27 2.4  
 MARC 1.24 149 P 39 38.74 -0.5  
 WOFM 1.26 115 P 39 37.90 -1.7  
 SAO 1.28 303 eP 39 38.98 -0.9  
 FRP 1.30 302 P 39 39.74 -0.6  
 HSFM 1.34 304 P 39 41.77 0.9  
 PCL 1.36 316 P 39 40.38 -0.9  
 ABL 1.42 149 ePd 39 40.54 -1.9  
 eS 39 59.45  
 WLHM 1.46 86 P 39 42.24 -0.8  
 HCOM 1.52 303 P 39 45.06 1.5  
 RYS 1.55 156 P 39 44.43 0.2  
 CBO 1.64 310 P 39 43.82 -1.4  
 JBZM 1.64 306 P 39 45.95 0.6  
 EUC 1.68 306 P 39 52.75 6.9  
 ARN 1.71 319 eP 39 44.62 -1.7  
 COE 1.72 314 eP 39 45.39 -1.1  
 MHC 1.77 316 iPc 39 45.99 -1.2  
 MPM 1.77 29 ePc 39 47.56 0.1  
 eS 40 10.43  
 MTUM 1.79 44 eP 39 47.75 0.1  
 eS 40 10.61  
 BHPR 1.79 46 P 39 48.25 0.5  
 CLKR 1.84 34 P 39 49.00 0.6  
 MEMM 1.85 30 eP 39 49.22 0.9  
 eS 40 12.87  
 MCSM 1.86 31 P 39 49.47 0.8  
 CMB 1.97 354 iPc 39 49.64 -0.5  
 iS 40 16.39  
 MRCM 2.05 38 eP 39 52.09 0.6  
 eS 40 18.91  
 MNHM 2.15 345 P 39 51.56 -1.1  
 BONR 2.38 37 ePn 39 56.45 0.2  
 eS 40 29.39  
 BKS 2.48 317 ePc 39 55.46 -1.9  
 ZSP 2.54 318 ePd 39 56.73 -1.5  
 TNP 3.07 48 ePn 40 05.52 -0.4  
 TPNV 3.24 73 ePn 40 07.54 -0.8  
 KVN 3.38 28 ePg 40 16.22 5.8  
 ORV 3.65 343 eP 40 14.14 0.1  
 70 obs. associated

\* JAN 04, 1994 01h 11m 59.23± 1.41s  
 49.805 N ± 19.6km 18.474 E ± 9.3km  
 DEPTH = 10.0km (geophysicist)  
 CZECH AND SLOVAK REPUBLICS (547)

OKC 0.22 278 iPg 12 04.00 0.1  
 (Sg) 12 07.50  
 SPC 1.31 117 iPnd 12 23.50 -0.1  
 i(Sn) 12 43.10  
 ZST 1.85 210 iP 12 31.50 0.3  
 e 12 40.70  
 i 12 55.90  
 VKA 2.09 223 i(P) 12 41.30 6.5X  
 i 13 09.70  
 PRU 2.55 276 ePn 12 41.90 0.6  
 1.1s 32.70nm

iPg 12 45.80  
 Sg 13 18.20  
 BRG 3.09 292 ePg 12 55.10 6.2X  
 eSg 13 37.70  
 KHC 3.26 260 ePn 12 50.50 -1.0  
 ePg 12 57.00  
 eSn 13 27.00  
 eSg 13 41.00  
 CLL 3.80 295 ePg 13 10.00 11.0X  
 eSg 13 57.00

S.D. = 0.9 on 5 of 8 obs.

? JAN 04, 1994 01h 21m 30.51± 1.00s  
 38.915 N ± 15.4km 27.702 E ± 20.7km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.8 (ISK).

IZM 0.62 214 ePg 21 43.00 0.0  
 eSg 21 53.00  
 DST 1.00 46 iPn 21 48.90 -0.5  
 EDC 1.44 5 ePn 21 56.50 -0.1  
 IZI 1.97 43 ePn 22 05.00 0.6  
 S.D. = 0.8 on 4 of 4 obs.

& JAN 04, 1994 01h 44m 28.45s  
 63.132 N 151.288 W  
 DEPTH = 14.7km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.6 (AEIC).

KTH 0.45 21 eP 44 37.20 -0.5  
 TRP 0.55 54 eP 44 39.00 -0.5  
 HUR 0.77 101 eP 44 43.00 0.0  
 CUT 0.87 147 eP 44 45.36 0.7  
 eS 44 57.13  
 RND 1.14 75 eP 44 49.30 0.0  
 eS 45 04.93  
 SKT 1.16 186 eP 44 50.13 0.4  
 eS 45 05.21  
 MCK 1.22 59 eP 44 50.68 0.0  
 eS 45 07.46  
 BWN 1.32 37 eP 44 52.48 0.1  
 PWA 1.63 156 P 44 57.70 1.1  
 SUA 1.69 171 eP 44 58.62 0.9  
 eS 45 20.88  
 NEA 1.75 33 P 45 00.50 2.1  
 S 45 23.30  
 GH0 1.75 140 eP 44 59.51 1.0  
 eS 45 21.92  
 DHY 1.78 90 eP 44 59.63 0.6  
 eS 45 23.04  
 NCG 1.78 194 eP 44 59.59 0.6  
 eS 45 23.35  
 PLRM 1.84 146 eP 45 00.70 0.9  
 PMR 1.84 146 eP 45 00.23 0.5  
 SML 1.91 133 eP 45 01.13 0.3  
 CRP 1.92 193 eP 45 01.24 0.2  
 MLY 1.92 7 eP 45 01.41 0.4  
 CP2 1.93 194 eP 45 01.82 0.6  
 BGL 1.95 196 eP 45 02.56 1.2  
 KKN 1.96 193 eP 45 02.48 0.9  
 CKT 1.99 193 eP 45 02.02 0.1  
 SPU 1.99 191 eP 45 03.12 1.1  
 BKG 2.12 193 eP 45 04.73 0.9  
 TTA 2.16 267 eP 45 02.40 -2.1  
 CCB 2.16 44 eP 45 05.04 0.6  
 KNK 2.18 141 eP 45 05.16 0.5  
 MDM 2.27 35 eP 45 05.61 -0.5  
 HDA 2.31 54 eP 45 07.28 0.7  
 FBA 2.35 39 eP 45 08.09 1.0  
 IL1 2.55 48 eP 45 08.85 -1.0  
 ILB 2.55 48 eP 45 09.13 -0.7  
 CFI 2.56 138 eP 45 11.78 1.7  
 TOA 2.58 111 P 45 11.60 1.2  
 DFR 2.63 195 eP 45 12.46 1.2  
 PWL 2.67 147 eP 45 12.87 1.1  
 SLKM 2.68 169 eP 45 11.65 -0.2  
 NCT 2.69 198 eP 45 14.03 1.9  
 REF 2.74 195 eP 45 13.44 0.7  
 REF 2.74 195 eP 45 14.06 1.3  
 RDW 2.76 196 eP 45 14.38 1.3  
 SVW 2.88 227 (P) 45 13.67 -0.9  
 KLU 3.00 121 eP 45 16.77 0.5  
 IM3 3.05 341 eP 45 17.63 0.6  
 VLZ 3.07 129 eP 45 15.86 -1.4  
 IMA 3.12 342 eP 45 17.22 -0.9



04d 01h

FID 3.30 134 eP 45 22.26 1.7  
 CNPM 3.62 180 P 45 26.50 1.4  
 GLB 3.88 113 eP 45 29.27 0.4  
 BC3 4.32 87 eP 45 35.31 0.2  
 BALM 4.70 113 eP 45 40.31 -0.3  
 BM3 5.14 30 P 45 46.70 0.1

53 obs. associated

\* JAN 04, 1994 01h 55m 05.49± 0.84s  
 43.958 N ± 9.1km 7.475 E ± 8.0km  
 DEPTH = 10.0km (geophysicist)  
 NEAR SOUTH COAST OF FRANCE (379)  
 ML 1.1 (STR).

AUTN 0.05 318 Pg 55 07.85 0.0  
 Sg 55 09.30  
 SAOF 0.06 64 Pg 55 07.85 0.0  
 Sg 55 09.39  
 SBF 0.10 197 Pg 55 08.26 0.0  
 Sg 55 10.41  
 AURF 0.13 237 Pg 55 08.67 0.0  
 Sg 55 10.84  
 MVIF 0.24 255 Pg 55 10.75 0.0  
 Sg 55 14.57

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

? JAN 04, 1994 02h 26m 48.06± 1.64s  
 16.911 S ± 28.5km 173.906 W ± 22.6km  
 DEPTH = 23.4 ± 10.2 km  
 5.2mb ( 9 obs.)

TONGA ISLANDS (173)

AFI 3.62 35 iPc 27 44.00 -0.1  
 DZM 19.22 251 iPc 31 15.60 2.1  
 ARMA 34.16 241 eP 33 34.10 0.2  
 0.7s 38.00nm 5.4mb  
 CNB 37.46 234 iPc 34 01.90 0.2  
 0.8s 46.00nm 5.4mb  
 CAN 37.74 234 eP 34 04.00 0.0  
 BWA 37.91 235 eP 34 03.20 -2.2  
 TOO 41.15 232 iPd 34 32.70 0.5  
 0.8s 50.00nm 5.3mb  
 STK 42.88 241 iPd 34 47.40 0.9  
 1.1s 17.90nm 4.7mb  
 WB2 49.03 258 iPc 35 34.20 -1.2  
 0.7s 7.30nm 4.8mb  
 WRA 49.04 258 P 35 34.50 -1.0  
 0.8s 2.40nm 4.3mb  
 ASPA 49.20 253 iPc 35 35.80 -0.9  
 0.7s 110.80nm 6.0mb  
 i 36 58.50  
 WARB 55.66 250 iPd 36 24.00 -1.0  
 0.8s 26.00nm 5.3mb  
 CSY 68.84 205 iPc 37 52.20 -0.2  
 1.0s 23.00nm 5.3mb  
 LRM 83.50 38 eP 39 13.30 -2.3  
 INK 89.84 14 eP 39 35.50 -10.2X  
 YKA 91.67 24 eP 40 18.00 23.7X  
 1.0s 1.40nm

CLL 145.24 352 iPKPd 46 23.10 -2.2X  
 1.2s 15.00nm

SPC 145.81 343 ePKP 46 25.20 -1.4  
 MOX 146.06 354 ePKP 46 25.10 -1.6  
 1.2s 18.00nm

PRU 146.31 350 PKPd 46 26.60 -0.5  
 1.1s 18.80nm

SNF 146.45 2 PKP 46 27.30 0.0  
 DOU 146.88 2 PKPd 46 28.30 0.3  
 MLR 147.02 334 ePKP 46 30.00 1.4  
 e 53 00.00

KHC 147.29 351 ePKP 46 24.50 -4.3X  
 1.0s 5.40nm

e 46 30.00  
 e 46 57.00  
 e 47 02.00

ZST 147.52 346 ePKP 46 30.40 1.3  
 GEC2 147.55 351 PKP 46 29.80 0.5  
 0.6s 0.99nm

e 46 34.80  
 e 46 38.90  
 e 47 00.10

e 47 10.00  
 e 53 01.60  
 e 53 06.10

e 53 31.70

GRB5 147.56 353 e(PKP) 46 30.00 0.8  
 e 53 35.30  
 e 53 40.40

FLN 147.78 8 ePKP 46 29.40 -0.1  
 1.0s 20.40nm

LDF 148.00 8 ePKP 46 29.90 0.0  
 1.2s 40.45nm

GRR 148.10 9 ePKP 46 31.10 1.1  
 0.8s 14.65nm

LPF 148.42 9 ePKP 46 32.00 1.5  
 0.8s 13.70nm

CDF 148.57 358 ePKP 46 32.80 1.8  
 0.8s 6.45nm

HAU 148.99 360 ePKP 46 33.80 2.3X  
 0.8s 6.05nm

LOR 149.67 3 ePKP 46 34.80 2.2X  
 1.1s 11.70nm

SSF 149.86 4 ePKP 46 36.10 3.3X  
 1.1s 15.15nm

MFF 149.94 9 ePKP 46 36.30 3.3X  
 1.1s 18.80nm

LBF 149.96 3 ePKP 46 35.50 2.4X  
 0.6s 2.55nm

SMF 150.29 3 ePKP 46 37.60 4.1X  
 1.0s 6.20nm

BGF 150.32 5 ePKP 46 36.30 2.8X  
 0.8s 9.65nm

LSF 150.50 6 ePKP 46 37.10 3.3X  
 LPL 151.48 359 ePKP 46 40.80 5.2X  
 0.7s 6.40nm

LPG 151.49 359 ePKP 46 41.00 5.3X  
 0.7s 3.40nm

OHR 152.75 335 e(PKP) 46 43.00 5.6X  
 S.D. = 1.2 on 28 of 43 obs.

\* JAN 04, 1994 02h 33m 19.88± 0.57s  
 17.027 S ± 19.5km 173.731 W ± 17.0km  
 DEPTH = 33.0km (normal)  
 5.0mb ( 11 obs.)

TONGA ISLANDS (173)

AFI 3.63 32 iPc 34 15.40 0.2  
 BKM 17.22 265 iPc 37 27.50 7.9X  
 DZM 19.34 252 iPc 37 47.10 1.4

ARMA 34.25 241 eP 40 05.80 0.6  
 0.5s 33.00nm 5.5mb

CNB 37.52 234 iPc 40 33.60 0.8  
 0.8s 43.00nm 5.4mb

CAN 37.81 234 eP 40 35.70 0.6  
 BWA 37.98 236 eP 40 34.90 -1.7

TOO 41.21 232 iPc 41 03.80 0.5  
 0.6s 35.00nm 5.3mb

STK 42.97 241 iPc 41 18.70 1.0  
 0.9s 18.80nm 4.8mb

WB2 49.17 258 iPc 42 05.90 -1.1  
 0.6s 5.20nm 4.7mb

iPcP 43 29.70  
 WRA 49.18 258 P 42 06.20 -0.9  
 0.6s 1.60nm 4.2mb

ASPA 49.32 253 iPc 42 07.60 -0.6  
 0.7s 125.70nm 6.1mb X

WARB 55.78 250 eP 42 55.50 -0.8  
 KLB 63.20 243 eP 43 46.50 -1.0

BAL 64.19 244 eP 43 53.00 -0.9  
 MUN 64.49 242 iPd 43 55.60 -0.3

MRWA 64.94 245 eP 43 57.50 -1.3  
 0.8s 14.00nm 5.1mb

PLM 73.83 47 P 44 52.72 -0.8  
 BONR 75.47 42 eP 45 02.28 -0.7

DUG 80.26 43 P 45 28.32 -0.9  
 0.4s 0.61nm 4.0mb X

eP 45 50.42 83kmX  
 e 45 56.40  
 LRM 83.48 38 eP 45 44.80 -1.1  
 e 46 13.20

FBA 84.04 11 eP 45 45.28 -2.7  
 0.7s 3.42nm 4.6mb

eP 46 08.93 88kmX  
 BJI 86.35 314 eP 46 00.00 0.0  
 1.2s 8.00nm 4.8mb

TIY 88.05 310 eP 46 08.80 0.4  
 Z 12s 0.48um 5.1MsZ X  
 GYA 88.52 298 P 46 12.20 1.2  
 1.0s 11.00nm 5.1mb

HHC 89.90 313 P 46 17.80 0.7  
 1.0s 11.00nm 5.1mb

KBR 90.98 284 eP 46 32.00 9.6X  
 CLL 145.38 353 ePKP 52 54.00 -1.9X  
 1.1s 10.00nm

e 53 22.00  
 BRG 145.68 351 iPKP 52 55.60 -0.8  
 0.8s 10.00nm

OKC 145.90 346 e(PKP) 53 00.70 3.9X  
 MOX 146.19 354 ePKP 52 56.90 -0.4  
 0.9s 11.00nm

e 53 26.50  
 PRU 146.45 350 ePKP 52 58.10 0.4  
 i 53 27.40

DOU 146.99 2 PKP 53 00.20 1.6  
 e 53 32.20

KHC 147.43 351 ePKP 53 01.00 1.6  
 1.2s 10.00nm

e 53 34.00  
 e 54 12.00

GRB5 147.70 353 e(PKP) 53 02.10 2.3X  
 e 53 30.70

FLN 147.87 8 ePKP 53 01.10 1.1  
 1.0s 19.60nm

LDF 148.09 8 ePKP 53 01.60 1.2  
 1.3s 44.05nm

GRR 148.18 9 ePKP 53 02.00 1.5  
 1.1s 18.30nm

LPF 148.50 9 ePKP 53 02.30 1.2  
 0.8s 11.55nm

CDF 148.69 359 ePKP 53 04.00 2.5X  
 0.8s 5.25nm

HAU 149.11 360 ePKP 53 05.10 3.0X  
 1.3s 23.85nm

SSF 149.96 4 ePKP 53 06.20 2.8X  
 1.1s 13.45nm

LBF 150.07 3 ePKP 53 07.20 3.6X  
 0.9s 8.50nm

SMF 150.40 3 ePKP 53 08.00 4.0X  
 0.8s 4.45nm

LPL 151.59 359 ePKP 53 11.00 4.8X  
 0.9s 6.40nm

LPG 151.61 359 ePKP 53 12.00 5.7X  
 0.9s 5.55nm

S.D. = 1.1 on 34 of 46 obs.

\* JAN 04, 1994 03h 28m 14.15± 1.03s  
 37.187 N ± 10.3km 29.237 E ± 9.2km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.2 (ISK).

ELL 0.69 129 iPg 28 28.00 0.1  
 iSg 28 38.00

CIN 1.01 295 iPnc 28 34.00 0.8  
 iSg 28 53.00

KHL 1.16 11 ePn 28 36.30 0.5  
 IZM 1.98 308 ePn 28 47.00 -1.1

ALT 1.99 20 ePn 28 48.00 -0.3  
 S.D. = 1.0 on 5 of 5 obs.

\* JAN 04, 1994 04h 11m 15.06± 1.60s  
 32.354 S ± 8.2km 71.575 W ± 14.2km  
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.9 (SAN).

ROCH 0.78 142 iPd 11 30.25 -0.1  
 (S) 11 44.60

JACH 0.89 112 iP+ 11 31.69 -0.5  
 iS 11 47.34

PEL 1.09 137 iPd 11 35.39 -0.1  
 iS 11 53.66

LCCH 1.12 180 (P) 11 34.46 -1.5  
 iS 11 54.12

TACH 1.40 158 iP 11 40.51 -0.1  
 iS 12 03.85

FCH 1.45 132 iPd 11 40.99 -0.7  
 (S) 12 03.86

PCH 1.55 145 iP 11 43.19 0.4  
 iS 12 08.11

LNv 1.60 175 iP 11 43.94 0.5  
 CACH 1.94 155 iP 11 50.46 2.0  
 iS 12 20.46

RTRS 2.83 40 e(P) 12 01.00 -0.1  
 S 12 37.50  
 CFA 2.93 76 e(P) 12 02.80 0.2  
 S.D. = 1.0 on 11 of 11 obs.



04d 04h

\* JAN 04, 1994 04h 14m 54.15± 2.42s  
51.403 N ±24.2km 15.851 E ±11.7km  
DEPTH = 10.0km (geophysicist)  
POLAND (548)  
ML 3.1 (VIE).

BRG 1.31 247 iPg 15 19.60 1.2  
iSg 15 39.70

PRU 1.64 211 Pn 15 22.70 -0.5  
0.4s 42.40nm

Pg 15 24.20  
i 15 28.40  
Sg 15 47.40

CLL 1.79 268 iPn 15 24.60 -0.7  
iPg 15 28.30  
eSg 15 56.00

OKC 2.14 136 Pg 15 30.70 0.3  
Sg 15 57.20

KHC 2.70 214 ePn 15 38.00 -0.5  
ePg 15 43.50  
e 16 11.00  
e 16 14.00  
eSg 16 22.50  
e 16 30.00  
e 16 39.00

MOX 2.78 256 ePg 15 47.60 8.1X  
iSg 16 27.10

VKA 3.16 174 ePg 15 50.00 5.2X  
eSg 16 33.00

S.D. = 1.1 on 5 of 7 obs.

% JAN 04, 1994 04h 31m 18.45± 0.81s  
26.758 S ± 7.5km 26.754 E ±10.0km  
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
ML 2.2 (PRE).

BFS 0.14 169 iPd 31 21.10 -0.4  
S 31 21.90

KSR 0.90 8 eP 31 35.50 -0.8  
S 31 48.00

SWZ 1.34 251 eP 31 44.30 0.5  
S 32 04.80

SLR 1.71 54 eP 31 50.00 0.8  
S 32 10.00

SEK 1.74 154 eP 31 57.50 7.9X  
S 32 18.00

BOSA 2.20 212 eP 31 55.90 -0.2  
S 32 23.90

S.D. = 0.9 on 5 of 6 obs.

% JAN 04, 1994 05h 46m 05.62± 3.34s  
42.980 N ±10.9km 18.113 E ±21.4km  
DEPTH = 5.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)  
ML 1.8 (TTG).

BRY 0.33 104 iPg 46 12.38 0.1  
iSg 46 17.26

HCY 0.60 152 iPg 46 17.51 -0.2  
iSg 46 26.64

NKY 0.67 104 iPg 46 18.77 -0.3  
iSg 46 28.95

BDV 0.87 143 iPg 46 22.59 -0.3  
iSg 46 35.65

PLE 1.00 69 iPg 46 24.77 -0.4  
iSg 46 39.76

TTG 1.01 123 iPg 46 25.03 -0.1  
iSg 46 40.24

IVA 1.32 94 iPg 46 30.79 0.3  
iSg 46 50.30

ULC 1.32 140 ePg 46 30.85 0.4  
iSg 46 50.45

PVY 1.42 105 iPg 46 32.68 0.4  
iSg 46 53.97

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

? JAN 04, 1994 06h 08m 55.58±13.34s  
12.763 S ±116.1km 118.838 E ±31.7km  
DEPTH = 33.0km (normal)  
4.3mb (1 obs.)

SOUTH OF SUMBAWA, INDONESIA (291)

MBL 8.40 174 eP 10 58.00 -0.1  
eS 12 40.00

MEEK 13.80 181 eP 12 11.50 0.2  
eS 14 45.50

WARB 15.24 152 eP 12 30.00 0.0  
MRWA 16.59 189 eP 12 47.00 -0.3  
0.2s 5.00nm 4.3mb

BAL 17.87 186 eP 13 03.50 0.2  
S.D. = 0.3 on 5 of 5 obs.

JAN 04, 1994 06h 33m 48.58± 0.56s  
42.111 N ±10.4km 20.643 E ± 6.0km  
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)  
ML 2.5 (TTG).

SKO 0.61 103 iPg 34 00.50 -0.4  
iSg 34 09.00

PVY 0.69 314 iPg 34 01.34 -1.0  
iSg 34 12.17

IVA 0.94 324 iPg 34 05.70 -0.8  
iSg 34 20.55

OHR 1.01 173 iPn 34 03.30 -4.4X  
i 34 05.50  
iSn 34 20.30

ULC 1.05 262 iPg 34 07.55 -0.8  
iSg 34 24.08

TTG 1.07 288 iPg 34 08.29 -0.5  
iSg 34 25.44

BDV 1.36 278 iPg 34 13.43 -0.1  
iSg 34 34.91

NKY 1.40 301 iPg 34 14.67 0.4  
iSg 34 36.53

PLE 1.53 323 iPg 34 16.82 0.8  
iSg 34 40.00

HCY 1.63 283 iPn 34 17.96 0.6  
iSn 34 43.59

VAY 1.64 118 ePn 34 18.50 0.9  
BRY 1.74 298 iPn 34 20.85 1.7  
iSn 34 46.71

KNT 1.94 119 eP 34 21.20 -0.7  
S.D. = 0.9 on 12 of 13 obs.

? JAN 04, 1994 06h 53m 59.23± 8.83s  
10.910 N ±59.7km 89.827 W ±85.6km  
DEPTH = 140.0km (geophysicist)

OFF COAST OF CENTRAL AMERICA (76)

LFU 2.91 14 iPd 54 44.50 -1.2  
TME 3.12 8 iPd 54 49.50 1.1  
iS 55 18.30

JUD 4.27 100 iPc 55 10.73 7.0X  
CAO 4.80 104 ePd 55 10.23 -0.5

JTS 4.83 97 ePc 55 11.60 0.4  
EPA 5.23 100 ePd 55 14.51 -2.0

POA2 5.53 97 ePc 55 22.46 1.6  
HDC2 5.67 98 eP 55 22.03 -0.6

QPS 5.80 104 ePd 55 23.91 -0.3  
OCM 5.86 99 ePc 55 25.46 0.3

IRZ2 5.91 99 eP 55 25.51 -0.5  
VTU 6.03 98 ePc 55 29.07 1.3

CDM 6.12 102 eP 55 28.29 -0.6  
TIG 6.70 106 ePd 55 37.61 1.1

CTCR 7.25 105 eP 55 44.04 0.0  
S.D. = 1.1 on 14 of 15 obs.

% JAN 04, 1994 07h 27m 38.92± 0.87s  
26.351 S ±10.5km 27.500 E ± 8.0km  
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
ML 3.4 (PRE).

BFS 0.84 229 iPc 27 55.00 -0.7  
S 28 05.00

SLR 0.93 49 iPc 27 57.00 -0.3  
S 28 08.20

SEK 1.97 177 iPd 28 12.90 -0.5  
S 28 31.10

SWZ 2.11 246 eP 28 16.30 0.8  
S 28 41.90

NWL 2.58 122 eP 28 22.70 0.5  
S 28 52.70

BOSA 2.92 219 eP 28 28.30 1.5  
S 29 04.00

BLF 2.98 203 eP 28 28.10 0.2  
S 29 02.60

FRS 3.89 209 eP 28 40.00 -0.7  
S 29 21.10

KSD 4.50 158 eP 28 57.50 8.1X  
S 29 41.50

PKA 5.34 231 eP 29 00.60 -0.7  
S 30 06.20

GRM 6.98 186 eP 29 22.00 -2.4X  
S 30 44.00

BEW 7.37 215 eP 30 07.20 37.4X  
S 31 13.80

CER 9.97 224 e(P) 30 02.50 -3.5X  
S 32 10.00

S.D. = 0.9 on 9 of 13 obs.

JAN 04, 1994 08h 03m 15.89± 0.19s  
36.651 N ± 2.6km 2.822 W ± 2.2km  
DEPTH = 22.2km (6 depth phases)

4.9mb (56 obs.) 4.7msz (24 obs.)  
STRAIT OF GIBRALTAR (385)

mbLg 5.0 (MDD). MD 4.7 (RBA).  
Felt (VII) in the Adra area,  
Spain.

ENIJ 0.59 57 iPc 03 27.00 -0.5  
eS 03 35.20

EGUA 0.62 287 P 03 26.80 -1.3  
ECOG 0.86 317 iPc 03 32.13 0.0  
eS 03 46.50

EHUE 1.18 9 P 03 37.68 0.6  
ELOJ 1.18 295 iP 03 36.76 -0.4

EMAL 1.30 275 eP 03 35.77 -2.9X  
eS 03 53.10

EMEL 1.35 185 iPd 03 38.22 -1.3  
ELUQ 1.47 309 P 03 42.95 1.7

EALH 1.64 42 P 03 43.84 0.1  
EBAN 1.69 333 P 03 46.13 1.7

ZAI 1.85 178 iP 03 43.00 -3.6X  
iS 04 04.00

TOU 1.85 204 iP 03 46.00 -0.7  
iS 04 08.00

TAF 1.86 170 iPg 03 47.20 0.2  
i 03 57.50  
i 04 03.50  
i 04 04.00  
iSn 04 05.00

EPRU 1.96 280 iP 03 48.93 0.6  
EVIA 2.00 7 P 03 49.83 0.8

LIJA 2.09 278 iP 03 50.50 0.1  
EJIF 2.14 265 iPd 03 51.59 0.7

ALJ 2.24 271 iP 03 53.00 0.6  
EHOR 2.26 302 iP 03 52.33 -0.3

MOMI 2.36 263 iP 03 55.00 1.0  
CPS 2.39 250 eP 04 01.50 7.1X  
iS 04 32.00

NKM 2.42 241 iPn 03 54.00 -0.8  
i 03 59.50  
i 04 00.50  
iSn 04 20.00  
i 04 23.50

GIBL 2.52 275 iP 03 57.00 0.6  
BIT 2.56 248 iP 03 58.50 1.7  
iS 04 31.00

CNIL 2.62 265 iP 03 59.50 1.8  
ACU 2.67 45 P 03 57.00 -1.5

RANB 2.67 271 iP 04 02.50 4.1X  
SFS 2.73 267 iP 04 00.00 0.7

TSY 2.85 244 iP 04 03.00 2.0  
iS 04 37.00

PAB 3.13 338 iPnc 04 05.20 0.1  
iPb 04 09.70  
iPg 04 15.10  
iSn 04 56.50  
eSb 05 00.00  
iSg 05 04.30

TGT 3.16 216 iP 04 04.00 -1.3  
iS 04 41.00

EVAL 3.27 288 P 04 05.61 -1.4  
ECHE 3.28 26 P 04 06.84 -0.3

IFR 3.65 212 iPn 04 11.00 -1.6  
i 04 18.00  
iSn 04 48.50  
i 04 50.00  
i 04 52.00

MIF 3.74 211 iP 04 14.00 0.4  
eS 04 54.00

CZD 4.04 208 eP 04 18.00 0.2  
eS 05 03.00

FIG 4.04 278 eP 04 17.00 -0.9  
(S) 05 03.00

GUD 4.12 346 iP 04 19.87 0.7  
ETOR 4.20 8 P 04 20.84 0.5



04d 08h

EPLA	4.26	324	P	04	20.84	-0.2	GRR	11.82	6	Pn	06	04.20	-1.8	CLL	18.50	33	eP	07	33.00	0.8
TNF	4.60	207	eP	04	26.50	0.7				Sn	08	06.90			2.1s	70.00nm			4.5mb	
			iS	05	15.00		EMS	11.92	35	P	06	08.60	1.0	PVY	18.51	64	iPc	07	34.23	1.6
MOE	4.77	295	iPd	04	27.00	-1.3	LDF	12.10	9	Pn	06	07.50	-2.3	IVA	18.51	63	iPc	07	33.90	1.3
			iS	05	21.20		DIX	12.15	36	P	06	16.95	6.2X	BRG	18.61	35	eP	07	34.20	0.5
KIB	4.86	214	iP	04	28.50	-0.9	FLN	12.23	7	Pn	06	08.70	-2.8X		2.0s	44.00nm			4.3mb	
			iS	05	23.00		MMK	12.39	37	P	06	17.94	3.9X	UZD	18.78	51	eP	07	32.00	-3.8X
EROQ	4.87	30	P	04	29.11	-0.5	BDI	12.62	50	eP	06	17.04	0.1	OHR	18.90	69	eP	07	32.00	-5.4X
AVE	5.04	230	iPn	04	30.20	-1.8	VAI	12.67	40	eP	06	20.27	2.9X		1.2s	70.00nm			4.8mb	
			iSn	05	23.00		TMA	12.88	39	P	06	22.72	2.2			i	07	37.50		
			i	05	24.00		HAU	13.21	28	Pn	06	22.40	-2.2			i	34	46.00		
			i	05	26.00		BSF	13.24	29	Pn	06	26.00	0.9	SRO	19.15	48	eP	07	38.50	-1.7
			i	05	29.00		MNS	13.26	60	eP	06	24.82	-0.6	FNA	19.31	70	e(P)	07	44.92	2.6
MTE	5.26	317	iPd	04	34.50	-0.8	SFI	13.34	53	eP	06	27.51	1.2	SKO	19.48	67	iPd	07	42.50	-1.7
			iS	05	33.00		VDL	13.45	39	P	06	29.51	1.6	KZN	19.58	72	ePn	07	44.50	-0.9
TZC	5.40	215	iP	04	38.00	0.9	LLS	13.48	37	P	06	31.20	2.9X	AGG	19.99	76	e(P)	07	47.36	-2.3
			iS	05	35.00		AQU	13.75	61	eP	06	32.33	0.4	OKC	20.08	42	e(P)	07	50.00	-0.5
LIS	5.43	294	iP	04	35.50	-2.0	CDF	13.90	29	Pn	06	33.40	-0.3			e	08	36.00		
			iS	05	38.00		SLE	13.90	33	P	06	40.36	6.6X	GRG	20.10	70	e(P)	07	48.92	-1.9
INMG	5.43	295	eP	04	34.50	-3.0X	OSS	13.93	40	P	06	36.75	2.5	LIT	20.12	72	e(P)	07	49.24	-1.8
			i(S)	05	33.00		CTI	14.34	45	eP	06	40.75	1.1	VAY	20.25	69	iP	07	50.50	-1.9
ESEL	5.47	54	P	04	36.77	-1.4	DOU	14.47	19	P	06	40.30	-0.8		1.4s	90.00nm			4.9mb	
MVO	5.57	325	iPc	04	38.00	-1.7		0.6s	46.40nm			5.2mb		SSR	20.28	59	eP	07	34.00	-18.7X
			iS	05	40.50				ic	06	43.40			BZS	20.41	56	eP	07	45.50	-8.4X
COI	5.65	311	iPnc	04	39.50	-1.1			S	09	16.80		KNT	20.49	69	e(P)	07	52.93	-1.9	
			Sn	05	39.00		OGA	14.50	41	eP	06	44.10	2.3	THE	20.50	71	e(P)	07	52.60	-2.4
EGRA	5.87	19	iP	04	46.28	2.6	WLF	14.55	24	iPc	06	50.09	8.0X	VLI	20.64	82	ePn	07	56.00	-0.5
			eS	05	52.30			1.2s	28.60nm			4.7mb	SOH	20.81	70	e(P)	07	56.24	-2.0	
ECRI	5.95	2	iP	04	45.96	1.0	SNF	14.77	18	P	06	42.20	-2.8X	SPC	20.93	46	eP	07	58.50	-1.1
			eS	05	51.90		SQTA	14.83	40	iPc	06	46.60	0.6	SRS	21.01	70	e(P)	07	57.88	-2.3
PTO	6.36	317	iPd	04	40.50	-10.1X		1.4s	71.80nm			4.9mb	PAIG	21.03	73	e(P)	07	54.00	-6.4X	
LHE	6.48	14	P	04	53.27	0.8			i	06	55.90		GZR	21.13	58	ePd	08	05.00	3.6X	
ISSF	6.56	13	P	04	53.40	-0.1			i	11	30.50		MUD	21.40	18	iPc	08	08.30	4.3X	
ELIZ	6.58	8	P	04	54.36	0.6	MOTA	14.85	40	iPc	06	46.70	0.3		1.3s	148.00nm			5.2mb	
BOH	6.59	12	P	04	53.77	-0.3	WTTA	15.08	41	iPc	06	49.50	0.2	UZH	21.91	49	iPc	08	09.00	-0.2
ATE	6.63	14	P	04	54.96	0.5		1.4s	76.80nm			4.8mb			i	08	13.50	16km		
ERUA	6.63	331	iP	04	54.09	-0.5			i	06	58.70				i	08	32.50			
			eS	06	07.00				i	11	44.40				i	08	46.00			
ESCF	6.65	14	P	04	54.01	-0.7	WATA	15.09	41	iPc	06	49.90	0.4	CMP	22.65	59	ePd	08	17.00	0.4
JAU	6.65	16	P	04	56.76	1.8			i	06	58.50		MLR	23.32	59	iPd	08	25.00	1.8	
ELYF	6.66	12	P	04	55.78	0.8	ENN	15.44	21	eP	06	59.00	5.2X	ISR	23.66	60	eP	08	27.00	0.5
MADF	6.67	13	P	04	55.83	0.8		0.9s	25.40nm			4.5mb	VR	23.93	58	ePc	08	30.00	1.0	
OGE	6.75	15	P	04	55.11	-1.1			eS	09	59.00		CFR	24.79	60	eP	08	36.50	-0.8	
EPF	6.82	20	Pn	04	57.10	-0.1	FUR	15.49	38	eP	06	54.40	-0.1	IZI	25.47	72	eP	08	44.00	0.1
			Sn	06	07.10		KBA	15.89	44	iPc	07	00.30	0.4	HFS	25.78	19	eP	08	49.50	2.9X
MLS	6.98	24	P	04	59.32	-0.1		1.6s	44.00nm			4.4mb			0.6s	6.90nm			4.5mb	
EZAM	7.13	322	eP	04	59.45	-2.0			i	07	14.20		Z	16s	1.62um			4.6MsZx		
			eS	06	18.90		BNS	16.00	23	ePc	07	07.50	6.5X			LR	17	20.00		
ETER	7.15	36	P	05	01.90	0.2	BHG	16.02	41	eP	07	01.60	0.3	EYL	25.98	71	eP	08	48.70	0.0
EMON	7.61	334	P	05	11.06	2.9X	LJU	16.03	49	ePd	07	01.80	0.3	LKO	27.10	186	P	08	59.35	0.3
STS	7.63	326	eP	05	07.80	-0.6			i	07	10.90			1.0s	17.00nm			4.7mb		
			eS	06	28.70				eS	10	03.00		MNK	27.17	41	eP	09	04.00	4.7X	
LPO	8.58	20	Pn	05	20.30	-1.4	GRF	16.54	34	iPc	07	08.50	0.6	AKU	30.43	348	iP	09	34.20	5.7X
LFF	8.71	17	Pn	05	23.50	0.1			LR	11	25.00			0.9s	20.17nm			5.0mb		
CAF	9.06	23	Pn	05	28.10	-0.2		1.8s	222.00nm			5.0mb	KAF	31.25	26	eP	09	37.90	2.1	
RJF	9.24	19	Pn	05	31.50	0.6	ZAG	16.82	51	iPc	07	14.00	2.6		0.6s	3.50nm			4.4mb	
LBL	9.72	26	P	05	36.49	-1.0	PTJ	16.84	51	eP	07	11.90	0.1	OBN	32.50	43	(P)	09	45.00	-1.7
LRG	9.78	43	Pn	05	37.90	-0.3	GEC2	17.15	40	P	07	14.40	-1.3	Z	16s	1.90um			4.9MsZx	
LMR	9.78	44	Pn	05	37.80	-0.5		0.8s	13.59nm			4.1mb	E	18s	1.20um					
			Sn	07	19.50				e	07	20.10				e	11	03.00	423kmX		
FRF	10.01	43	Pn	05	39.70	-1.7			e	07	24.70				e	12	35.00			
			Sn	07	24.10		KHC	17.27	39	eP	07	16.00	-1.2			eS	15	08.00		
PYM	10.09	24	P	05	41.52	-1.1		1.0s	23.20nm			4.3mb	MOS	33.25	42	eP	09	52.00	-1.3	
LSF	10.13	17	Pn	05	43.70	0.7	Z	12s	4.10um					Z	14s	2.40um			5.1MsZx	
MFF	10.14	11	Pn	05	41.50	-1.7	N	14s	7.50um						e	09	56.00	14km		
TCF	10.34	20	Pn	05	43.80	-2.1	E	14s	2.50um				SDF	34.98	19	iP	10	11.50	3.3X	
MAF	10.38	21	Pn	05	47.70	1.2			e	07	21.00		KIV	35.10	64	(P)	10	09.80	0.2	
AGO	10.40	24	P	05	47.86	1.1			e	07	29.50		Z	17s	0.40um			4.2MsZx		
PLDF	10.49	25	P	05	48.32	0.3			e	07	41.00		GRO	37.32	64	eP	10	30.00	1.9	
TOUF	10.63	43	P	05	56.10	6.0X	MOX	17.41	32	ePd	07	20.30	1.4	Z	16s	1.50um			4.9MsZx	
SEF	10.64	44	Pn	05	48.30	-1.8		1.8s	103.00nm			4.7mb	N	20s	1.00um					
AUTN	10.72	44	P	05	58.09	6.7X			e	12	53.60		E	14s	1.00um					
BGF	10.77	21	Pn	05	53.00	1.3	HCY	17.41	64	iPc	07	21.50	2.6	BCAO	37.59	143	iPc	10	32.10	1.4
SAOF	10.78	44	P	05	58.70	6.6X	BRY	17.55	63	iPc	07	22.41	1.6		0.9s	18.00nm			4.9mb	
PGF	10.85	54	Pn	05	51.80	-1.3	BDV	17.62	65	iPc	07	23.90	2.4			i	11	19.00	224kmX	
DOI	10.95	41	eP	05	57.49	3.1X	NKY	17.85	63	iPc	07	26.03	1.5	DAG	40.85	354	iPc	11	01.30	4.3X
BNI	11.04	38	eP	05	58.59	2.9X	ULC	17.87	66	iPc	07	27.26	2.6		0.6s	3.33nm			4.2mb	
AVF	11.13	23	Pn	05	55.90	-0.7	TTG	17.96	64	iPc	07	28.14	2.4	ARU	44.94	44	eP	11	28.00	-2.6
SMF	11.15	24	Pn	05	57.10	0.0	SDA	18.07	66	ePn	07	39.60	12.6X	Z	16s	1.00um			4.8MsZx	
HYF	11.36	19	Pn	05	57.50	-2.3	TIR	18.23	68	eP	07	30.50	1.4			i	11	33.00	17km	
LPG	11.41	36	Pn	05	59.30	-1.5	TPE	18.23	72	ePn	07									



04d 08h

FRB	47.20	326	eP	11	52.00	3.6X	IMA	75.16	348	eP	15	00.50	2.5	S.D. = 1.3 on 236 of 300 obs.
ASH	47.89	69	eP	12	03.00	8.8X		0.7s	8.70nm				4.9mb	
CBM	48.46	304	eP	11	59.27	0.8	CIT	75.76	35	eP	14	59.10	-2.4	* JAN 04, 1994 08h 05m 56.16± 1.10s
	0.6s	11.81nm				5.1mb	GLD	75.79	309	eP	15	02.74	0.6	36.477 N ± 9.3km 2.784 W ± 9.2km
Z	19s	0.53um				4.5MsZ		1.8s	52.52nm				5.3mb	DEPTH = 5.0km (geophysicist)
MAIO	49.30	71	eP	12	06.00	0.8		Z	18s	0.62um			4.9MsZ	STRAIT OF GIBRALTAR (385)
LBNH	51.73	301	P	12	30.00	6.5X	LSA	75.85	64	P	15	02.80	-0.1	mbLg 3.6 (MDD).
Z	19s	0.70um				4.7MsZ		1.0s	9.00nm				4.8mb	
HRV	51.99	299	P	12	40.00	14.5X	GOL	75.92	309	P	15	10.00	7.1X	ENIJ 0.68 43 eP 06 09.60 -0.1
Z	18s	0.33um				4.4MsZ		Z	18s	0.68um			5.0MsZ	eS 06 18.80
LSCT	53.43	299	P	12	50.00	13.8X	LRM	76.35	317	eP	15	05.70	0.5	EGUA 0.72 300 eP 06 09.97 -0.6
Z	19s	0.56um				4.6MsZ	BW06	76.60	314	eP	15	05.09	-1.6	eS 06 18.90
GAC	53.70	304	eP	12	41.00	2.9X		0.9s	18.83nm				5.1mb	ECOG 1.02 322 eP 06 15.15 -0.8
BINY	55.19	300	P	13	00.00	10.8X	BALM	77.21	341	eP	15	09.86	0.3	eS 06 29.30
Z	20s	0.39um				4.5MsZ	NEW	77.23	321	eP	15	08.54	-1.2	ELUQ 1.61 313 eP 06 27.00 1.7
RES	55.58	341	eP	12	50.00	-1.5		0.9s	12.23nm				4.9mb	eS 06 47.60
YSNY	56.86	301	P	13	10.00	8.8X		Z	19s	0.29um			4.6MsZ	ZAI 1.67 179 iP 06 26.00 -0.2
Z	18s	0.35um				4.5MsZ	KLU	77.70	343	eP	15	12.95	0.8	iS 06 45.00
FRU	57.91	58	eP	13	09.00	0.5	DPW	78.03	322	eP	15	14.26	0.0	S.D. = 1.4 on 5 of 5 obs.
	2.0s	40.00nm				5.1mb	PTI	78.17	315	(P)	15	15.58	0.4	
MCWV	58.86	298	P	13	30.00	14.9X	PMR	78.35	344	(P)	15	16.32	0.8	* JAN 04, 1994 08h 28m 45.36± 0.79s
Z	19s	0.55um				4.7MsZ		0.8s	10.97nm				4.9mb	31.202 S ± 8.7km 68.390 W ± 9.4km
CEH	59.88	294	P	13	30.00	7.8X		Z	18s	0.17um			4.4MsZ	DEPTH = 33.0km (normal)
Z	20s	0.57um				4.7MsZ	TTA	78.46	348	(P)	15	17.31	1.0	SAN JUAN PROVINCE, ARGENTINA (137)
KSH	60.19	61	eP	13	23.60	-0.9		1.1s	6.40nm				4.6mb	
	1.0s	20.00nm				5.2mb	PV08	78.63	310	eP	15	17.73	-0.3	RTLL 0.14 208 iPd 28 50.40 -1.1
Z	16s	0.70um				4.9MsZ	PV09	78.98	310	eP	15	20.12	0.2	ZON 0.42 216 iPd 28 54.80 -0.1
N	12s	1.15um					PV10	78.99	310	eP	15	20.13	0.2	eS 29 04.80
E	12s	1.24um					DAU	79.07	312	eP	15	20.63	0.3	CFA 0.42 162 iPd 28 55.80 0.9
		PcP	14	04.00			HVU	79.09	314	eP	15	19.67	-0.6	S 29 06.70
MYNC	63.92	295	eP	13	49.18	-0.2	EMUT	79.18	312	eP	15	20.27	-0.6	RTCB 0.45 231 iPd 28 55.50 0.1
	0.8s	15.18nm				5.2mb	SRU	79.45	311	eP	15	22.02	-0.3	RTRS 1.38 318 eP 29 08.90 0.4
Z	19s	0.82um				4.9MsZ	ALQ	79.45	306	eP	15	22.52	0.1	S 29 30.40
GOGA	64.21	294	P	14	00.00	8.7X		1.0s	9.88nm				4.8mb	RTPR 1.85 61 iPd 29 15.00 -0.3
Z	21s	0.56um				4.7MsZ		Z	19s	0.39um			4.8MsZ	S 29 41.80
ULM	64.65	315	eP	13	59.00	5.1X	SLKM	79.56	344	eP	15	22.69	0.4	S.D. = 0.9 on 6 of 6 obs.
WMQ	66.12	52	P	14	02.70	-0.9	DUG	80.13	313	eP	15	25.74	-0.1	
	1.5s	9.60nm				4.7mb		0.7s	8.05nm				4.9mb	* JAN 04, 1994 08h 33m 29.96± 0.49s
Z	15s	0.78um				5.0MsZ	LON	80.59	322	eP	15	27.85	-0.2	18.563 S ± 16.1km 178.114 W ± 12.7km
SDV	66.96	264	eP	14	11.00	27km	LZH	80.69	52	eP	15	28.00	-1.0	DEPTH = 517.3km ( 2 depth phases)
FVM	66.99	301	eP	14	09.64	0.5		1.6s	27.00nm				5.0mb	4.4mb ( 14 obs.)
	0.8s	25.59nm				5.4mb		Z	12s	0.45um			5.0MsZ	FIJI ISLANDS REGION (181)
Z	19s	1.53um				5.2MsZ	E	10s	0.26um				32km	MD 4.4 (SVA).
YKA	67.18	332	eP	14	12.60	2.7	VGB	80.94	321	(P)	15	30.23	0.3	SVA 3.29 277 ePd 34 43.20 -1.7
	0.9s	4.70nm				4.6mb	LPAP	80.97	242	P	15	32.90	1.8	eS 35 49.30
BAO	67.23	228	eP	14	11.60	0.7	LPB	81.11	242	eP	15	29.00	-2.6	AFI 7.64 54 eP 35 20.00 -4.3X
BDFB	67.25	228	eP	14	10.98	0.0	ARUT	82.05	312	eP	15	35.99	0.0	DZM 14.90 254 iPd 36 38.60 -0.5
	1.3s	14.37nm				5.0mb	KDC	82.56	344	eP	15	38.99	1.0	TOO 36.98 232 eP 39 57.30 1.1
OXF	67.99	297	eP	14	15.89	0.4		0.7s	13.45nm				5.2mb	0.7s 14.00nm 4.6mb
SLR	68.63	150	eP	14	14.50	-5.0X	CD2	83.88	56	eP	15	46.20	0.8	STK 38.57 242 eP 40 11.00 1.8
Z	18s	5.42um				5.8MsZ	TUC	83.91	306	eP	15	47.75	2.2	0.9s 4.60nm 4.0mb
INK	69.10	342	eP	14	25.00	3.3X		1.0s	42.32nm				5.6mb	WB2 44.78 260 iPd 40 57.90 -0.9
	1.0s	3.00nm				4.4mb		Z	20s	0.72um			5.0MsZ	0.7s 7.30nm 4.3mb
BOSA	70.14	154	eP	14	23.30	-5.2X	TNP	84.09	314	eP	15	47.39	0.8	i 41 19.40
BLF	70.86	153	eP	14	18.00	-15.2X		1.0s	19.26nm				5.3mb	i 42 29.90
MIAR	70.93	299	eP	14	32.63	-0.9	LBFM	84.44	319	eP	15	48.21	0.0	WRA 44.79 260 P 40 58.80 -0.1
	1.0s	26.54nm				5.3mb	BONR	84.81	314	eP	15	51.52	1.3	0.6s 1.60nm 3.7mb
Z	21s	0.82um				5.0MsZ	TIY	84.84	46	eP	15	55.30	5.2X	ASPA 44.89 255 iPd 40 59.70 0.0
FRS	71.14	154	eP	14	31.00	-3.6X		Z	12s	0.72um			5.3MsZ	0.8s 46.10nm 5.1mb
ZAK	71.71	40	eP	14	38.00	0.1		E	12s	0.41um				iPd 42 30.20
	1.8s	17.00nm				4.8mb	XAN	85.19	51	P	15	52.60	0.7	eS 47 00.20
TUL	71.75	301	iPd	14	38.10	-0.3								MBL 58.09 256 iPd 42 34.90 -0.8
UYO	71.75	299	iPd	14	37.90	-0.5	BJI	85.32	42	eP	15	50.50	-1.9	0.4s 7.00nm 4.3mb
GKN	71.99	68	P	14	38.80	-1.4		Z	20s	0.42um			4.8MsZ	KLB 58.79 244 eP 42 39.50 -0.8
BOD	72.12	30	eP	14	39.40	-0.8		E	16s	0.94um				BAL 59.76 245 eP 42 45.50 -1.3
	1.0s	12.00nm				4.9mb	WDC	85.33	318	P	16	00.00	7.6X	MUN 60.08 243 eP 42 48.20 -0.6
DMN	72.55	68	P	14	42.60	-1.0		Z	21s	0.32um			4.7MsZ	MRWA 60.50 246 eP 42 51.00 -0.7
	0.8s	66.00nm				5.7mb	MTUM	85.37	314	(P)	15	55.04	2.1	MAT 68.60 323 iPd 43 40.90 -1.5
RSSD	72.56	312	eP	14	42.93	-0.4	ORV	85.49	317	eP	15	53.61	0.3	1.0s 14.00nm 4.5mb
	1.1s	22.99nm				5.1mb	GSC	85.72	311	eP	15	55.91	1.3	MMPM 78.77 44 (P) 44 41.31 1.0
KKN	72.59	68	P	14	42.40	-1.4	CMB	85.94	315	eP	15	56.77	1.2	MEMM 78.86 44 eP 44 40.58 0.3
PKI	72.80	68	P	14	43.70	-1.5		1.1s	10.37nm				5.0mb	MDJ 78.88 325 P 44 41.70 1.5
	0.7s	43.00nm				5.6mb		Z	18s	0.29um			4.7MsZ	0.9s 32.00nm 4.8mb
GUN	72.97	68	P	14	45.20	-1.0	CN2	87.18	35	eP	16	05.00	3.6X	BONR 79.44 44 eP 44 43.24 -0.5
	0.8s	48.00nm				5.6mb		0.8s	4.70nm				4.8mb	CN2 80.71 322 eP 44 50.20 0.4
ACO	73.59	304	iPd	14	53.90	4.6X	HON	117.75	334	PKP	22	10.00	7.7X	1.2s 22.00nm 4.5mb
GBA	74.26	85	P	14	59.00	5.7X		Z	20s	0.36um			5.0MsZ	Z 16s 0.59um 5.0MsZ
WMOK	74.43	302	eP	14	53.56	-0.6	WRA	139.14	78	PKP	22	48.00	4.9X	N 15s 0.15um
	1.1s	29.16nm				5.2mb		0.7s	2.30nm					E 15s 0.60um
Z	19s	0.86um				5.1MsZ	WB2	139.15	78	ePKP	22	44.80	1.7	CP2 82.21 12 (P) 44 54.62 -2.8
YAK	74.48	21	eP	14	53.80	-0.1		0.9s	7.00nm					BALM 84.36 17 eP 45 07.70 -0.3
	0.9s	26.00nm				5.3mb	ASPA	140.72	83	ePKP	22	52.20	6.3X	BJI 84.44 315 eP 45 09.00 0.4
Z	17s	0.70um				5.0MsZ		0.7s	5.00nm					1.4s 15.00nm 4.4mb
FBA	75.13	345	eP	14	58.47	0.9	STK	150.32	91	iPKPd	23	12.50	11.0X	Z 16s 0.58um 5.1MsZ
	0.7s	3.32nm				4.5mb		2.7s	5.10nm					SRU 85.26 46 (P) 45 12.08 -0.8
														GYA 85.60 300 P 45 16.00 1.3



TTY	85.91	312	eP	45	17.00	1.1			0.9s	13.25nm		ROCH	0.85	35	iP	25	42.39	-0.7						
	Z	20s	1.00um		5.2msz				LKO	168.47	140 PKPc	52	37.60	-0.8		iS	25	56.15						
	E	12s	0.34um							0.8s	3.50nm		PCH	0.90	87	iP+	25	43.25						
PV09	85.94	47	eP	45	16.30	0.0				S.D. = 1.2	on 42 of 75 obs.				iS	25	56.37							
IMA	86.36	10	eP	45	17.30	-0.2							PEL	0.92	55	iP	25	44.45						
	0.7s		1.10nm		3.7mb				%	JAN 04, 1994	08h 41m 42.91± 0.80s				iS	25	57.89							
			pP	47	11.50	515km				9.969 N ± 7.3km	68.530 W ± 8.2km		CACH	0.93	118	iP+	25	44.47						
FBA	86.38	12	iP	45	16.80	-0.7				DEPTH = 10.0km	(geophysicist)				iS	25	58.72							
	1.0s		1.20nm		3.6mb				VENEZUELA		(101)		FCH	1.14	73	iP+	25	47.33						
			pP	47	11.70	519km									iS	26	03.65							
XAN	86.88	307	P	45	22.00	1.4			MORO	0.92	13	eP	41	59.40	-1.2									
	1.0s		14.00nm		4.6mb						iS	42	13.50											
	Z	16s	0.60um		5.1mszX				CEOS	0.95	168	eP	42	00.30	-0.8			S.D. = 0.4 on 10 of 10 obs.						
KBR	87.34	286	eP	45	34.00	11.0X					iS	42	13.20											
SYO	88.60	193	ePd	45	27.10	-0.9			CANV	1.10	345	eP	42	04.30	0.7			JAN 04, 1994 09h 29m 38.51± 0.25s						
YKA	94.81	25	eP	45	54.40	-2.0					iS	42	22.80					29.188 N ± 5.3km						
	0.6s		0.80nm		4.1mb				TOV	1.26	262	ePn	42	05.80	-0.5			DEPTH = 30.0km ( 3 depth phases)						
KAF	133.27	345	iPKP	51	46.10	-1.5					eSn	42	27.80					4.8mb ( 34 obs.)						
	0.5s		4.80nm						OLLA	1.70	88	eP	42	13.80	0.9			SOUTHERN IRAN (353)						
NUR	135.06	344	iPKP	51	50.00	-1.0					iS	42	37.20											
	0.6s		6.60nm						SDV	2.34	243	ePn	42	23.10	0.9									
APO	137.20	351	ePKP	51	42.20	-12.9X					eSn	42	57.50											
	0.3s		0.70nm							S.D. = 1.2	on 6 of 6 obs.													
KAS	144.55	317	iPKPc	52	09.80	1.0																		
CFR	145.62	326	ePKPc	52	11.50	1.2				JAN 04, 1994	08h 47m 26.80± 0.60s													
VR1	145.88	328	ePKPc	52	11.50	0.8					36.573 N ± 5.2km	2.796 W ± 5.8km		MJMA	6.39	240	eP	31	13.33					
CLL	146.16	347	iPKPd	52	12.70	1.7					DEPTH = 5.0km	(geophysicist)		QASM	7.66	248	eP	31	27.33					
	0.8s		61.00nm							STRAIT OF GIBALTAR		(385)		UQSK	8.75	249	eP	31	45.33					
OKC	146.18	341	PKPd	52	13.50	2.4X				mbLg 3.5 (MDD).				AFIF	8.96	237	eP	31	52.67					
BHL	146.26	304	PKP	52	13.00	1.2								MAIO	9.81	42	eP	32	00.00					
BRG	146.36	346	iPKPc	52	13.00	1.7									eS	34	03.00							
	1.0s		30.00nm						ENIJ	0.62	50	iPc	47	39.27	0.1			KMSA	10.81	217	eP	32	13.33	
ISR	146.48	328	ePKP	52	15.00	3.2X					eS	47	46.60					KMTA	13.49	217	eP	32	50.00	
MLR	146.53	329	ePKPd	52	14.00	2.0				EGUA	0.67	293	iPc	47	39.11	-1.1			QUE	13.52	82	eP	32	53.50
PRU	147.05	345	iPKPd	52	15.20	2.7X					eS	47	47.90					BHL	14.26	293	P	33	08.00	
SRO	147.89	339	ePKP	52	15.00	1.1				ECOG	0.94	319	iPc	47	44.29	-0.9				S	37	31.00		
ZST	147.95	341	iPKP	52	17.90	3.9X				ELOJ	1.23	298	iP	47	50.00	-0.2			KAS	18.82	315	eP	33	58.00
GRF	148.05	349	ePKP	52	17.80	3.7X					eS	48	08.00					EYL	20.77	309	eP	34	19.60	
KHC	148.08	345	PKPd	52	18.50	4.3X				EHUE	1.25	7	iPd	47	51.18	0.6			IZI	21.14	308	eP	34	23.80
	1.0s		16.40nm								eS	48	07.10					HRT	21.22	309	eP	34	23.60	
			e	52	23.30					EMEL	1.28	186	eP	47	51.80	0.9			NDI	22.55	85	eP	34	37.50
GEC2	148.31	345	PKP	52	14.20	-0.5					eS	48	08.00					KSH	22.64	57	P	34	37.00	
	0.6s		0.55nm						ELUQ	1.53	310	eP	47	56.15	1.2				1.0s	20.00nm			4.6mb	
FUR	149.50	348	iPKPc	52	21.80	5.4X					eS	48	14.80					POO	23.03	112	eP	34	49.50	
	0.9s		51.00nm						EALH	1.69	40	iPd	47	56.29	-0.8			ALN	23.76	306	e(P)	34	50.40	
BHG	149.56	345	iPKPd	52	21.30	4.8X					eS	48	17.70					CFR	24.35	317	eP	34	56.00	
			i	52	29.50				ZAI	1.77	179	iP	47	55.50	-2.7			PAIG	25.15	303	e(P)	35	05.72	
FLN	149.81	3	iPKPd	52	21.40	4.6X					iS	48	13.50					ISR	25.29	316	eP	35	07.00	
	0.8s		20.15nm						EBAN	1.77	334	iPc	47	59.70	1.4			VR1	25.57	317	ePc	35	08.50	
CDF	149.91	353	iPKPd	52	22.10	5.0X					eS	48	22.80					SRS	25.58	305	e(P)	35	08.21	
	0.6s		8.75nm						TAF	1.78	170	eP	48	00.00	1.5			SOH	25.66	304	e(P)	35	08.68	
LDF	150.00	3	iPKPd	52	21.70	4.6X					i	48	06.00					MLR	25.84	316	iPc	35	13.00	
	0.8s		19.90nm								i	48	17.00					LIT	26.08	302	e(P)	35	08.36	
KBA	150.04	344	iPKPc	52	22.10	4.7X					i	48	19.00					KNT	26.09	305	e(P)	35	11.92	
	0.8s		11.10nm						EPRU	1.99	282	eP	48	02.73	1.2			VAY	26.38	305	iP	35	15.00	
			i	52	26.40						eS	48	25.40					GRG	26.39	304	e(P)	35	15.00	
GRR	150.17	4	iPKPd	52	22.50	5.2X				EVIA	2.08	6	eP	48	04.40	1.6		SKO	27.38	306	eP	35	15.00	
	0.6s		10.30nm								eS	48	28.10						e	35	22.00	25km		
WATA	150.22	347	iPKPd	52	22.70	5.0X				LIJA	2.13	280	eP	48	08.00	4.5X		HYB	27.45	109	eP	35	24.50	
WTTA	150.28	347	iPKPd	52	23.00	5.2X				EJIF	2.16	268	eP	48	04.67	0.8		OHR	27.59	304	iP	35	25.00	
	0.7s		29.80nm								eS	48	30.80					1.0s	50.00nm			5.1mb		
MOTA	150.32	347	iPKPd	52	23.00	5.2X				ALJ	2.26	273	eP	48	11.00	5.5X		OBN	28.01	342	(P)	35	37.00	
HAU	150.41	354	iPKPd	52	23.20	5.4X				EHOR	2.32	303	eP	48	05.30	-1.0			1.1s	39.00nm			5.0mb	
	0.9s		20.45nm								eS	48	34.30						i	40	27.00			
SQTA	150.41	347	iPKPd	52	23.30	5.4X				MOMI	2.37	265	eP	48	13.00	6.0X		GBA	28.65	117	P	35	33.00	
	0.8s		23.10nm						PAB	3.21	338	ePg	48	27.00	8.1X			GKN	29.12	84	P	35	38.60	
											eSg	49	10.00					0.6s	31.00nm			5.2mb		
LPF	150.51	4	iPKPd	52	23.30	5.5X				ECHE	3.34	25	eP	48	20.06	-0.7		DMN	29.60	85	P	35	43.40	
	0.8s		35.05nm								eS	48	59.30					KKN	29.72	84	P	35	44.40	
BSF	150.53	353	iPKPd	52	23.40	5.3X				ETOR	4.28	8	eP	48	33.54	-0.6			0.6s	35.00nm			5.3mb	
	0.9s		15.90nm						EPLA	4.34	324	eP	48	33.77	-1.2			PKI	29.87	85	P	35	45.80	
LJU	150.66	342	iPKPd	52	23.70	5.5X					eS	49	22.30					GUN	30.22	84	P	35	48.40	
OGA	150.79	347	iPKPc	52	25.00	6.4X												0.8s	52.00nm			5.4mb		
	0.8s		10.00nm							S.D. = 1.3	on 18 of 22 obs.							WMQ	32.31	53	eP	36	06.00	
VBY	150.93	340	iPKPd	52	24.90	6.3X				%	JAN 04, 1994	09h 25m 26.82± 1.35s						0.8s	5.80nm			4.5mb		
VAY	151.23	326	iPKP	52	24.40	5.3X					33.675 S ± 7.0km	71.589 W ±12.4km		KBA	34.46	312	iPc	36	25.60			-0.2		
			i	52	36.30						DEPTH = 26.6 ± 6.3 km				0.9s	17.90nm			0.9s	17.90nm			5.0mb	
LOR	151.33	357	iPKPd	52	25.40	6.3X				NEAR COAST OF CENTRAL CHILE		(135)		LSA	34.47	79	P	36	26.80			0.4		
	0.8s		10.50nm							MD 3.8 (SAN).					0.8s	13.00nm			0.8s	13.00nm			4.9mb	
SKO	151.33	329	iPKP	52	25.00	5.7X				LCCH	0.20	5	iPd	25	32.79	0.1		PRU	34.72	317	eP	36	32.00	
			i	52	37.00						iS	25	37.84					GEC2	34.81	315	P	36	27.90	
SSF	151.55	358	iPKPd	52	25.90	6.5X						iS	25	37.84				0.9s	1.96nm			4.0mb		
	0.7s		11.35nm																					



04d 09h

BRG 35.42 318 e(P) 36 32.00 -1.7  
 WTTA 35.63 312 iPc 36 35.10 -0.7  
 0.9s 23.60nm 5.1mb  
 i 36 51.10 63kmX  
 WATA 35.69 312 iPc 36 35.10 -1.1  
 SQTA 35.90 311 iPc 36 37.00 -1.0  
 0.8s 16.10nm 5.0mb  
 MOTA 36.00 312 iPc 36 37.70 -1.2  
 FUR 36.12 313 iPc 36 39.40 -0.3  
 0.9s 27.00nm 5.2mb  
 CLL 36.14 319 iPc 36 39.90 0.2  
 1.2s 14.00nm 4.8mb  
 LPG 38.55 307 eP 37 00.20 -0.2  
 0.9s 8.70nm 4.6mb  
 LPL 38.56 307 eP 37 00.30 -0.2  
 1.0s 15.00nm 4.7mb  
 BSF 38.95 311 eP 37 02.10 -1.5  
 1.0s 11.20nm 4.6mb  
 BCAO 39.72 238 ePd 37 11.00 0.8  
 0.2s 16.00nm 5.4mb  
 HFS 40.00 332 eP 37 10.60 -1.3  
 0.4s 8.20nm 4.8mb  
 SMF 40.72 309 eP 37 16.80 -1.3  
 0.8s 13.15nm 4.7mb  
 GTA 40.82 62 Pc 37 20.00 0.9  
 1.5s 39.00nm 4.9mb  
 SSF 41.01 309 eP 37 19.10 -1.3  
 1.0s 12.80nm 4.6mb  
 LZH 44.22 67 eP 37 47.50 0.5  
 1.5s 16.00nm 4.6mb  
 pP 37 57.50 34km  
 sP 38 02.00  
 KMI 45.53 82 eP 37 57.00 -0.7  
 0.8s 20.00nm 5.1mb  
 pP 38 06.60 32km  
 KBR 46.87 98 eP 37 48.00 -20.0X  
 NNT 47.70 100 eP 38 14.80 0.2  
 GYA 48.54 79 P 38 20.00 -1.1  
 1.0s 18.00nm 5.1mb  
 XAN 48.65 69 P 38 21.00 -0.8  
 0.6s 6.50nm 4.8mb  
 HHC 49.72 60 P 38 31.20 1.2  
 1.0s 11.00nm 4.8mb  
 TIY 50.82 63 eP 38 38.20 -0.2  
 TIA 54.79 64 eP 39 07.50 -0.4  
 LKO 56.68 262 P 39 22.06 0.2  
 0.6s 6.50nm 4.8mb  
 NJ2 57.22 69 eP 39 24.60 -0.7  
 CN2 59.40 54 eP 39 41.40 1.0  
 0.8s 5.90nm 4.8mb  
 MBC 74.66 358 eP 41 17.50 1.2  
 INK 82.73 2 eP 42 01.00 0.7  
 IMA 83.11 10 iP 42 04.20 1.7  
 0.7s 1.80nm 4.3mb  
 FBA 85.03 8 eP 42 13.40 1.4  
 0.9s 0.60nm 3.8mb X  
 YKA 87.95 354 eP 42 26.80 0.4  
 0.8s 2.90nm 4.6mb  
 WRA 93.60 111 P 42 57.20 3.9X  
 0.6s 0.50nm 4.1mb  
 WB2 93.61 111 eP 42 54.50 1.1  
 1.0s 1.90nm 4.5mb  
 S.D. = 1.0 on 66 of 80 obs.

JAN 04, 1994 09h 46m 30.34± 0.52s  
 40.487 N ± 5.0km 21.872 E ± 4.5km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.1 (THE).

FNA 0.48 308 iPgC 46 40.08 0.0  
 eSg 46 47.32  
 LIT 0.61 129 iPgC 46 41.62 -1.0  
 eSg 46 50.88  
 GRG 0.62 40 iPgD 46 42.82 0.0  
 eSg 46 51.44  
 VAY 0.99 32 iPn 46 49.00 -0.1  
 OHR 1.03 308 iPn 46 49.00 -0.8  
 KNT 1.03 49 iPgD 46 50.17 0.4  
 eSg 47 04.72  
 SOH 1.18 73 ePb 46 52.80 0.5  
 PAIG 1.49 111 iPbd 46 57.32 0.1  
 AGG 1.50 166 iPbc 46 57.36 0.0  
 IGT 1.52 232 ePb 46 58.48 0.9  
 SKO 1.52 348 ePn 46 53.50 -4.1X  
 S.D. = 0.6 on 10 of 11 obs.

& JAN 04, 1994 10h 41m 17.56s  
 59.298 N 152.500 W  
 DEPTH = 70.3km  
 SOUTHERN ALASKA (2)  
 <AEIC>.

XLV 0.43 68 eP 41 28.92 -1.0  
 AUE 0.45 278 eP 41 29.61 -0.5  
 eS 41 38.27  
 AUP 0.48 278 ePc 41 29.70 -0.8  
 AUI 0.48 275 eP 41 29.67 -0.7  
 AUH 0.49 278 eP 41 29.97 -0.6  
 AUW 0.50 279 eP 41 30.07 -0.5  
 OPT 0.52 314 eP 41 30.09 -0.7  
 eS 41 40.15  
 HOM 0.57 50 eP 41 30.74 -0.5  
 eS 41 40.87  
 CNPM 0.69 70 eP 41 31.78 -0.8  
 eS 41 42.82  
 SYI 0.69 175 eP 41 31.89 -0.7  
 eS 41 42.97  
 CDD 0.70 238 eP 41 31.85 -0.8  
 ILIM 0.82 344 eP 41 33.34 -0.8  
 eS 41 45.52  
 MCNL 0.95 264 eP 41 34.66 -1.1  
 PDB 0.99 300 eP 41 35.38 -0.8  
 eS 41 49.24  
 RED 1.13 353 eP 41 37.57 -0.6  
 eS 41 53.44  
 REF 1.20 355 eP 41 38.64 -0.5  
 eS 41 54.73  
 NCT 1.29 351 eP 41 39.88 -0.3  
 KDC 1.55 180 eP 41 42.16 -1.5  
 NKA 1.58 23 eP 41 45.28 1.3  
 SLKM 1.67 42 eP 41 44.45 -0.9  
 SEW 1.75 61 eP 41 46.65 0.4  
 BKG 1.78 4 eP 41 46.70 -0.2  
 SPU 1.90 7 eP 41 48.22 -0.3  
 CKT 1.91 4 eP 41 48.68 0.0  
 CKN 1.94 5 eP 41 49.49 0.5  
 CP2 1.98 4 eP 41 47.68 -2.0  
 CRP 1.98 5 eP 41 48.85 -0.9  
 MPA 1.98 52 eP 41 49.55 0.0  
 SVW 2.39 321 eP 41 53.07 -2.2  
 PMS 2.44 36 P 41 55.40 -0.6  
 LTI 2.47 70 eP 41 55.09 -1.2  
 MTU 2.56 72 eP 41 56.25 -1.3  
 PWL 2.61 51 eP 41 56.77 -1.5  
 SKT 2.73 10 eP 41 58.46 -1.6  
 PMR 2.84 35 eP 42 00.01 -1.5  
 KNK 2.92 42 eP 42 01.44 -1.2  
 CFI 3.02 49 eP 42 01.98 -2.0  
 HIN 3.22 67 eP 42 05.24 -1.6  
 VLZ 3.59 56 eP 42 11.30 -0.5  
 KLU 3.94 53 eP 42 14.83 -2.1  
 HMT 4.29 72 eP 42 19.95 -1.9  
 IL1 6.09 23 eP 42 44.19 -2.8  
 42 obs. associated

\* JAN 04, 1994 10h 44m 28.05± 1.64s  
 37.539 N ± 13.0km 20.957 E ± 11.1km  
 DEPTH = 33.0km (normal)  
 3.8mb (1 obs.)

IONIAN SEA (399)  
 ML 3.6 (ATH), 3.6 (THE).

VLS 0.70 336 ePg 44 42.00 0.5  
 VLI 1.78 117 ePb 44 56.90 -0.1  
 AGG 1.83 36 iPbc 45 00.12 2.3  
 iSb 45 23.80  
 IGT 2.05 346 ePn 45 01.88 1.0  
 eSn 45 28.76  
 ATH 2.23 78 ePn 45 04.80 1.4  
 KEK 2.35 338 ePn 45 06.00 0.8  
 SRN 2.45 343 ePn 45 11.70 5.1X  
 LSK 2.62 354 ePn 45 10.00 0.9  
 LIT 2.82 25 ePn 45 12.36 0.5  
 eSn 45 48.24  
 KZN 2.84 13 ePn 45 10.20 -1.8  
 TPE 2.85 345 ePn 45 19.00 6.8X  
 KBN 3.08 358 eP 45 17.00 1.4  
 PAIG 3.20 41 iPn 45 16.42 -0.7  
 eSn 45 57.32  
 FNA 3.26 6 ePn 45 17.20 -0.8  
 eSn 45 58.76  
 THE 3.46 26 iPn 45 20.52 -0.4  
 OHR 3.57 358 ePn 45 22.50 0.0

GRG 3.59 18 ePn 45 22.82 0.0  
 SOH 3.77 29 iPnc 45 25.12 -0.2  
 eSn 46 11.56  
 TIR 3.90 348 e(Pn) 45 43.50 16.5X  
 KNT 3.92 22 iPnd 45 27.60 0.2  
 VAY 3.98 18 iPn 45 28.00 -0.2  
 SKO 4.44 5 ePn 45 33.80 -1.1  
 ALN 5.18 48 ePn 45 43.92 -1.4  
 HFS 23.09 351 eP 49 28.90 -2.6  
 0.4s 1.20nm 3.8mb  
 S.D. = 1.2 on 21 of 24 obs.

% JAN 04, 1994 11h 08m 22.02± 0.77s  
 32.870 S ± 9.7km 70.760 W ± 10.6km  
 DEPTH = 80.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.5 (SAN).

JACH 0.23 37 iPd 08 34.12 -0.1  
 iS 08 43.63  
 ROCH 0.23 244 iPd 08 34.44 0.0  
 iS 08 44.10  
 PEL 0.28 167 iPd 08 34.48 0.1  
 iS 08 43.84  
 SAN 0.59 172 iP+ 08 36.71 -0.1  
 iS 08 49.35  
 FCH 0.60 139 iP+ 08 37.51 0.2  
 iS 08 49.50  
 PCH 0.78 165 iP+ 08 38.60 -0.2  
 iS 08 52.09  
 TACH 0.80 191 iP+ 08 38.85 -0.1  
 iS 08 51.95  
 LCCH 0.91 228 iP+ 08 40.55 0.3  
 iS 08 54.96  
 LNV 1.21 207 iP+ 08 43.57 -0.4  
 iS 09 00.53  
 CACH 1.25 174 iPd 08 44.86 0.2  
 iS 09 04.33  
 S.D. = 0.3 on 10 of 10 obs.

% JAN 04, 1994 11h 14m 24.86± 0.57s  
 43.092 N ± 9.4km 0.616 W ± 3.6km  
 DEPTH = 5.0km (geophysicist)  
 PYRENEES (378)  
 ML 1.0 (STR).

ESCF 0.03 115 Pg 14 25.88 -0.3  
 Sg 14 26.86  
 ATE 0.06 264 Pg 14 26.25 -0.3  
 Sg 14 27.51  
 OGE 0.13 54 Pg 14 27.73 0.2  
 ISSF 0.15 244 Pg 14 28.14 0.2  
 MADF 0.16 290 Pg 14 28.03 -0.1  
 Sg 14 30.78  
 JAU 0.19 107 Pg 14 28.94 0.1  
 BOH 0.29 272 Pg 14 30.96 0.2  
 S.D. = 0.3 on 7 of 7 obs.

JAN 04, 1994 11h 34m 41.27± 0.64s  
 40.460 N ± 6.2km 21.778 E ± 4.8km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.2 (THE).

FNA 0.45 317 ePg 34 49.98 -0.4  
 eSg 34 58.26  
 LIT 0.65 123 ePg 34 53.86 -0.4  
 eSg 35 04.38  
 GRG 0.69 43 ePg 34 53.66 -1.2  
 eSg 35 06.50  
 OHR 0.99 312 ePn 35 00.30 0.2  
 VAY 1.05 35 ePn 35 01.40 0.4  
 KNT 1.10 50 iPg 35 02.98 1.0  
 eSg 35 17.88  
 SOH 1.25 73 ePb 35 04.58 0.0  
 eSb 35 22.00  
 IGT 1.45 231 ePb 35 07.64 0.2  
 PAIG 1.55 109 iPb 35 09.17 0.2  
 S.D. = 0.7 on 9 of 9 obs.

JAN 04, 1994 11h 34m 57.53± 0.59s  
 37.079 N ± 6.2km 4.991 W ± 4.8km  
 DEPTH = 5.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.9 (MDD).

EPRU 0.22 240 iPc 35 02.28 0.2



04d 11h

MAL 0.58 127 eS 35 04.60  
 ELOJ 0.67 84 iPe 35 11.12 0.1  
 EJIF 0.73 212 iPd 35 12.73 0.5  
 ELUQ 0.75 50 eP 35 13.23 0.6  
 EHOR 0.77 345 eP 35 13.68 0.7  
 ECOG 1.15 80 iPd 35 20.88 1.2  
 EGUA 1.17 102 eP 35 20.38 0.6  
 EBAN 1.45 41 iPd 35 24.10 -0.3  
 EVAL 1.49 290 eP 35 24.85 -0.1  
 HFS 25.99 21 eP 40 30.30 -2.3  
 0.1s 0.20nm 3.7mb  
 S.D. = 1.1 on 11 of 11 obs.  
 -----  
 JAN 04, 1994 12h 12m 28.34± 0.98s  
 0.260 S ± 3.9km 124.322 E ± 6.7km  
 DEPTH = 87.1 ± 9.7 km  
 5.1mb ( 32 obs.)  
 SOUTHERN MOLUCCA SEA (269)

DAV 7.41 10 eP 14 16.00 0.3  
 CTB 7.41 359 ePd 14 16.00 0.2  
 TSM 7.87 305 iPd 14 20.40 -1.7  
 0.3s 399.80nm 6.6mb X  
 BIP 8.65 13 eP 14 33.00 0.3  
 CGP 8.67 2 eP 14 13.00 -20.0X  
 KKM 10.23 308 ePd 14 59.00 4.6X  
 0.6s 57.40nm 5.7mb  
 MAP 10.52 358 eP 15 00.00 1.9  
 MTN 14.21 152 iPd 15 44.80 -2.0  
 0.3s 49.00nm 5.3mb  
 KNA 16.00 164 eP 16 11.80 2.1  
 CVP 18.02 352 iPd 16 36.00 1.3  
 WWKK 19.58 100 e(P) 16 40.00 -12.2X  
 MBL 21.23 192 iPe 17 08.80 -0.2  
 0.5s 6.00nm 4.2mb  
 WRA 21.88 154 P 17 13.60 -2.0  
 WB2 21.89 154 iPe 17 13.20 -2.4  
 0.5s 22.20nm 4.8mb  
 IPM 23.76 282 ePd 17 35.40 1.5  
 QIZ 23.86 324 P 17 36.50 1.7  
 ASPA 25.06 159 eP 17 46.70 0.5  
 0.5s 15.40nm 4.7mb  
 0.1s 22 07.10  
 QIS 25.11 144 eP 17 47.00 0.3  
 WARB 25.87 175 eP 17 54.00 0.3  
 MEEK 26.79 191 eP 18 01.50 -0.7  
 NNT 27.53 299 eP 18 09.70 0.7  
 LOE 28.34 309 eP 18 16.00 -0.2  
 KBR 28.35 301 ePd 18 43.50 27.2X  
 NST 28.66 305 eP 18 20.00 0.9  
 MRWA 29.87 195 eP 18 29.50 -0.3  
 BDT 30.40 306 eP 18 34.00 -0.6  
 1.0s 34.50nm 5.0mb  
 BAL 31.03 193 eP 18 39.00 -1.0  
 GYA 31.55 329 iPd 18 45.20 0.5  
 1.0s 18.00nm 4.8mb  
 KLB 31.78 191 eP 18 45.80 -0.7  
 KAGJ 31.89 11 P 18 46.50 -1.0  
 MUN 32.47 193 eP 18 52.00 -0.5  
 KUMJ 33.19 10 P 18 57.90 -0.9  
 SHNJ 34.79 10 P 19 11.50 -1.0  
 TKSJ 35.27 14 P 19 16.20 -0.4  
 STK 35.44 154 iPe 19 19.00 0.9  
 0.4s 3.40nm 4.6mb  
 WKYJ 35.89 16 P 19 21.70 -0.3  
 YONJ 36.28 13 P 19 25.20 0.0  
 TIA 36.90 350 eP 19 29.10 -1.2  
 XAN 37.05 339 P 19 30.70 -1.0  
 0.7s 25.00nm 5.3mb  
 CHJJ 38.62 19 eP 19 43.20 -1.6  
 MAT 38.82 18 iPd 19 45.10 -1.4  
 0.7s 11.64nm 4.9mb  
 TIY 39.35 345 Pd 19 51.90 1.0  
 0.8s 22.00nm 5.1mb  
 BWA 40.79 149 eP 20 07.70 5.0X  
 BJI 40.79 350 eP 20 03.50 0.9  
 1.0s 6.00nm 4.4mb

LZH 40.87 334 eP 20 03.50 0.0  
 1.2s 45.00nm 5.2mb  
 YAMJ 40.89 19 eP 20 25.00 90kmX  
 CAN 41.78 149 eP 20 03.00 -0.5  
 TOO 41.95 155 eP 20 13.30 2.4  
 0.9s 22.00nm 5.0mb  
 OFUJ 42.26 20 eP 20 14.60 -0.1  
 HHC 42.53 346 P 20 18.00 1.0  
 0.8s 20.00nm 5.0mb  
 LSA 43.44 316 P 20 26.40 1.4  
 0.6s 6.00nm 4.6mb  
 CN2 43.88 1 eP 20 26.00 -1.7  
 0.8s 5.90nm 4.5mb  
 MDJ 44.93 5 eP 20 35.90 -0.2  
 1.0s 31.00nm 5.1mb  
 GTA 45.41 333 P 20 40.00 -0.2  
 1.0s 32.00nm 5.1mb  
 GUN 46.29 310 P 20 47.60 0.0  
 PKI 46.48 310 P 20 49.00 -0.1  
 0.6s 31.00nm 5.4mb  
 KKN 46.68 310 P 20 50.60 0.0  
 0.6s 30.00nm 5.4mb  
 DMN 46.73 310 P 20 51.00 0.0  
 0.6s 40.00nm 5.5mb  
 GKN 47.28 310 P 20 55.00 -0.3  
 0.6s 35.00nm 5.4mb  
 HYB 48.35 294 eP 21 02.50 -1.0  
 1.0s 30.00nm 5.2mb  
 GBA 48.44 288 P 21 03.00 -1.1  
 POO 52.96 294 eP 21 40.50 2.1  
 WMQ 54.70 328 P 21 50.30 -0.6  
 1.0s 24.00nm 5.2mb  
 YAK 62.25 3 eP 22 41.50 -1.4  
 1.0s 75.00nm 5.7mb  
 SDN 81.81 34 eP 24 39.52 0.6  
 0.5s 75.02nm 5.8mb  
 ANM 81.87 24 eP 24 40.58 1.5  
 TTA 85.52 27 eP 24 58.70 0.9  
 0.8s 6.28nm 4.7mb  
 IMA 86.98 24 eP 25 05.81 0.9  
 0.7s 5.22nm 4.7mb  
 SLKM 87.98 30 eP 25 09.44 -0.2  
 BALM 91.85 29 eP 25 28.68 0.9  
 KAF 93.99 332 iP 25 36.20 -1.3  
 0.4s 2.80nm 5.0mb  
 NUR 94.99 331 eP 25 40.30 -1.8  
 HFS 100.38 332 ePd 26 04.60 -1.9  
 0.4s 2.00nm 5.1mb  
 DAG 100.87 352 iPd 26 08.00 -0.4  
 0.5s 3.52nm 5.2mb  
 RSSD 118.80 38 ePKP 31 09.09 0.5  
 ULM 119.59 28 ePKP 31 12.50 2.9X  
 LKO 129.31 282 PKP 31 30.73 1.4  
 0.5s 3.50nm  
 MIAR 130.84 42 ePKP 31 33.83 2.2  
 LPB 159.30 144 ePKP 32 27.00 8.0X  
 LPAZ 159.47 144 PKP 32 22.10 2.7X  
 S.D. = 1.2 on 72 of 80 obs.  
 -----  
 \* JAN 04, 1994 12h 39m 26.79± 0.52s  
 26.840 S ± 5.5km 26.708 E ± 5.4km  
 DEPTH = 5.0km (geophysicist)  
 4.6mb ( 3 obs.)  
 REPUBLIC OF SOUTH AFRICA (584)  
 mbLg 4.5 (BUL). ML 3.9 (PRE).

BFS 0.09 130 iPe 39 29.50 0.6  
 S 39 29.90  
 PRY 0.69 98 eP 39 40.20 -0.4  
 S 39 47.60  
 KSR 0.99 10 iPd 39 45.00 -1.1  
 S 39 58.00  
 SWZ 1.28 254 eP 39 51.00 -0.1  
 S 40 08.30  
 SEK 1.69 151 eP 39 58.30 1.1  
 S 40 28.00  
 SLR 1.79 52 eP 40 00.10 1.4  
 S 40 22.70  
 BOSA 2.11 213 eP 40 04.50 1.4  
 S 40 30.40  
 BLF 2.31 191 eP 40 05.90 -0.3  
 S 40 33.80  
 NWL 3.02 108 eP 40 15.60 -0.7  
 S 40 54.50  
 FRS 3.15 203 iPe 40 18.00 0.1  
 S 40 56.00

GRM 6.45 181 eP 41 02.50 -2.4  
 S 42 27.50  
 BUL 6.89 15 iPn 40 09.90 -61.2X  
 iSn 41 23.30  
 i 41 38.80  
 iSg 42 00.90  
 CIR 7.31 39 iPn 40 57.50 -19.4X  
 iSn 42 17.00  
 iSg 42 55.00  
 SUR 7.54 222 eP 40 35.00 -45.2X  
 S 41 55.50  
 CER 9.13 223 eP 41 30.00 -12.3X  
 S 43 17.50  
 WIN 9.71 294 eP 41 46.00 -4.5X  
 S 43 31.20  
 BLE 9.90 223 eP 42 12.50 19.8X  
 S 43 22.50  
 MTD 10.98 25 iPn 41 04.50 -63.3X  
 iSn 43 01.10  
 iSg 44 04.00  
 KIC 44.91 313 Pc 47 44.62 0.1  
 1.1s 8.50nm 4.6mb  
 LIC 45.00 312 Pc 47 45.22 0.0  
 1.1s 6.00nm 4.4mb  
 TIC 45.31 313 Pc 47 47.94 0.3  
 0.9s 12.00nm 4.9mb  
 S.D. = 1.1 on 14 of 21 obs.  
 -----  
 % JAN 04, 1994 14h 32m 40.77± 1.32s  
 33.138 S ± 5.3km 70.279 W ± 10.5km  
 DEPTH = 10.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.5 (SAN).

FCH 0.19 183 iPd 32 45.01 -0.1  
 iS 32 47.80  
 PEL 0.34 269 iPd 32 48.10 0.3  
 iS 32 53.21  
 PCH 0.52 202 iPd 32 51.31 0.0  
 iS 32 58.87  
 JACH 0.53 330 iPd 32 51.45 0.0  
 iS 32 58.97  
 ROCH 0.64 285 i+ 32 53.58 -0.1  
 iS 33 03.06  
 TACH 0.75 227 iPd 32 55.43 -0.1  
 iS 33 06.69  
 CACH 1.01 195 i+ 33 00.40 0.4  
 iS 33 14.36  
 LCCH 1.13 252 iPd 33 02.03 0.1  
 iS 33 17.67  
 LNV 1.25 229 iP 33 03.61 -0.3  
 iS 33 20.35  
 S.D. = 0.2 on 9 of 9 obs.  
 -----  
 ? JAN 04, 1994 14h 49m 15.93± 2.75s  
 31.996 S ± 32.0km 177.475 W ± 38.1km  
 DEPTH = 33.0km (normal)  
 5.1mb ( 7 obs.) 4.0Msz ( 1 obs.)  
 KERMADEC ISLANDS REGION (177)

DZM 17.39 301 iPd 53 26.70 9.0X  
 ARMA 26.43 265 eP 54 53.30 1.6  
 0.9s 32.00nm 4.9mb  
 TOO 30.78 249 iPe 55 30.30 -0.4  
 0.6s 11.00nm 4.8mb  
 STK 34.59 259 eP 56 04.40 0.6  
 0.7s 2.60nm 4.3mb  
 MDG 43.45 300 eP 57 17.00 -0.7  
 ASPA 43.49 268 iPe 57 18.40 0.3  
 0.7s 45.00nm 5.3mb  
 Z 21s 0.20um 4.0Msz  
 eS 03 39.10  
 WB2 44.61 273 iPd 57 27.70 0.6  
 0.5s 66.70nm 5.8mb  
 FORT 46.09 256 iPd 57 38.00 -0.7  
 0.5s 12.00nm 5.1mb  
 CSY 53.95 208 iPe 58 36.90 -1.3  
 0.6s 24.40nm 5.4mb  
 MEEK 55.28 258 eP 58 47.00 -1.6  
 SYO 75.69 193 ePd 01 00.80 1.6  
 NVL 77.31 183 P 01 18.00 9.8X  
 KAF 146.20 340 iPKP 09 01.20 8.6X  
 0.8s 23.90nm  
 OBN 146.72 324 iPKPd 09 03.20 9.6X  
 1.8s 216.00nm  
 i 09 30.00  
 NUR 147.96 339 iPKP 09 06.50 11.1X



04d 15h

0.7s 42.00nm  
BCAO 148.74 212 iPKPd 08 36.50 -21.7X  
0.2s 5.00nm  
HFS 150.89 349 ePKP 09 13.70 13.7X  
0.8s 24.00nm  
BHL 152.20 283 PKP 09 14.50 11.6X  
LIC 153.41 163 PKP 09 11.75 6.7X  
0.6s 5.00nm  
KIC 153.61 164 PKP 09 12.21 6.9X  
0.9s 3.00nm  
TIC 153.81 163 PKP 09 12.65 7.0X  
0.9s 5.00nm  
LKO 156.43 160 PKP 09 15.33 6.2X  
1.1s 4.00nm  
S.D. = 1.3 on 10 of 22 obs.

% JAN 04, 1994 14h 57m 41.02± 0.73s  
40.785 N ± 6.5km 28.737 E ± 5.3km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 2.7 (ISK).

ISK 0.37 41 iPg 57 48.60 0.1  
iSg 57 52.60  
CTT 0.43 327 iPg 57 49.60 -0.1  
HRT 0.71 87 ePg 57 55.50 0.3  
eSg 58 04.50  
IZI 0.72 128 iPg 57 55.60 0.2  
iSg 58 06.10  
EDC 0.80 237 ePg 57 57.00 0.1  
eSg 58 09.00  
EYL 1.10 101 ePn 58 01.60 -0.7  
S.D. = 0.4 on 6 of 6 obs.

% JAN 04, 1994 15h 51m 00.31± 0.74s  
26.789 S ± 7.5km 26.696 E ± 9.5km  
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
ML 2.5 (PRE).

KSR 0.94 11 eP 51 17.90 -0.9  
S 51 29.90  
SWZ 1.28 252 eP 51 25.00 0.3  
S 51 43.00  
SEK 1.74 152 eP 51 31.00 -0.5  
S 51 55.50  
SLR 1.77 54 iPc 51 33.00 1.1  
S 51 55.50  
BOSA 2.14 212 eP 51 37.50 0.3  
S 52 02.30  
BLF 2.35 191 eP 51 40.00 -0.4  
S.D. = 0.9 on 6 of 6 obs.

% JAN 04, 1994 16h 14m 27.27± 1.00s  
33.888 S ± 8.2km 71.404 W ± 9.2km  
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)  
MD 3.4 (SAN).

LNK 0.07 185 iPd 14 33.24 0.4  
iS 14 38.94  
LCCH 0.43 341 iP 14 36.18 -0.7  
iS 14 43.84  
TACH 0.45 59 iP+ 14 37.04 -0.2  
iS 14 45.50  
CACH 0.71 109 iP+ 14 40.82 -0.1  
iS 14 52.10  
PCH 0.79 70 iP+ 14 41.54 -0.5  
iS 14 53.08  
PEL 0.95 39 (P) 14 45.45 1.1  
(S) 14 58.65  
ROCH 0.97 20 iPd 14 44.99 0.2  
iS 14 58.55  
FCH 1.08 59 iP+ 14 45.97 -0.5  
iS 15 01.49  
JACH 1.38 30 (P) 14 50.92 0.4  
iS 15 09.08  
S.D. = 0.6 on 9 of 9 obs.

JAN 04, 1994 16h 46m 12.13± 0.59s  
36.520 N ± 5.0km 2.778 W ± 5.2km  
DEPTH = 5.0km (geophysicist)

STRAIT OF GIBRALTAR (385)  
mbLg 3.4 (MDD).

ENIJ 0.64 45 iPc 46 25.21 0.2  
eS 46 33.30

EGUA 0.71 297 iPc 46 25.65 -0.6  
eS 46 34.00  
ECOG 0.98 320 iPc 46 30.56 -0.8  
eS 46 42.60  
EMEL 1.23 187 eP 46 36.50 1.1  
eS 46 53.00  
EHUE 1.30 6 iPc 46 37.24 0.5  
eS 46 52.60  
MAL 1.33 279 eP 46 36.80 -0.3  
eS 46 54.50  
ELUQ 1.58 312 eP 46 42.54 1.6  
eS 47 02.40  
ZAI 1.71 179 iP 46 41.50 -1.3  
iS 47 03.00  
EALH 1.72 39 iPc 46 42.54 -0.3  
EBAN 1.83 334 eP 46 45.40 0.9  
eS 47 06.40  
EPRU 2.02 283 eP 46 47.75 0.5  
EVIA 2.13 6 eP 46 50.47 1.6  
eS 47 13.90

LIJA 2.15 281 eP 46 55.00 5.8X  
ALJ 2.28 275 eP 46 58.00 6.9X  
EHOR 2.36 304 eP 46 52.33 0.1  
eS 47 19.20  
MOMI 2.38 266 eP 47 00.00 7.5X  
PAB 3.26 338 ePn 47 04.00 -1.1  
iSg 47 13.70  
ePn 47 53.50  
eSg 48 00.00

ECHE 3.38 24 eP 47 06.09 -0.6  
eS 47 44.10  
IFR 3.56 213 iPg 47 51.00 41.6X  
iSg 47 55.50  
GUD 4.25 346 eP 47 30.70 11.5X  
eS 48 19.70  
ETOR 4.33 7 eP 47 19.23 -1.0  
EPLA 4.39 325 eP 47 20.31 -0.7  
eS 48 09.50  
S.D. = 1.0 on 17 of 22 obs.

JAN 04, 1994 16h 51m 22.25± 0.87s  
26.370 N ± 8.3km 95.939 E ± 5.1km  
DEPTH = 88.1 ± 12.1 km  
4.5mb ( 7 obs.)

MYANMAR-INDIA BORDER REGION (294)

SHL 3.74 259 iPn 52 20.40 1.4  
iSn 53 00.40  
LSA 5.38 309 iPc 52 44.80 2.8  
S 53 44.60  
KMI 6.26 100 eP 52 56.00 2.0  
CD2 8.22 55 P 53 21.30 0.4  
GUN 9.09 282 P 53 32.00 -1.0  
PKI 9.47 280 P 53 37.00 -1.1  
BDT 9.52 162 iPd 53 38.50 0.1  
1.0s 34.50nm 5.2mb X  
KKN 9.60 281 P 53 39.00 -0.9  
GYA 9.62 87 P 53 39.20 -0.7  
DMN 9.74 280 P 53 40.40 -1.3  
GKN 10.19 282 P 53 46.00 -1.8  
LZH 11.81 33 eP 54 09.00 -0.2  
1.2s 37.00nm 5.1mb  
GTA 13.40 13 eP 54 29.00 -1.1  
XAN 13.57 53 P 54 31.80 -0.5  
1.0s 8.90nm 4.2mb  
pP 54 37.60

NDI 16.77 282 eP 55 11.00 -2.0  
TIY 17.96 47 eP 55 26.60 -1.0  
HYB 18.41 245 eP 55 32.50 -0.8  
WMQ 18.65 341 P 55 37.40 1.5  
1.0s 13.00nm 4.1mb  
pP 55 49.50  
HHC 19.40 38 eP 55 45.60 1.7  
TIA 20.55 56 eP 55 55.30 -0.5  
KSH 21.18 313 eP 56 05.90 3.7X  
GBA 21.50 237 P 56 08.00 2.6  
BJI 21.67 46 eP 56 06.00 -1.0  
POO 21.83 254 eP 56 13.00 4.2X  
QUE 25.78 285 eP 56 49.00 2.2  
CN2 29.54 46 eP 57 20.80 0.3  
MAIO 32.50 297 eP 57 48.00 1.4  
WRA 59.23 137 P 01 15.80 -0.9  
0.5s 7.70nm 5.1mb

WB2 59.23 137 iPc 01 15.30 -1.5  
0.6s 18.40nm 5.4mb  
HFS 63.70 326 eP 01 46.00 -0.3  
0.5s 2.20nm 4.3mb

GEC2 65.69 314 P 01 59.60 0.2  
0.8s 1.53nm 4.0mb  
S.D. = 1.4 on 29 of 31 obs.

% JAN 04, 1994 17h 27m 19.59± 0.55s  
40.056 N ± 4.8km 29.032 E ± 4.6km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

IZI 0.44 50 iPg 27 28.30 -0.3  
iSg 27 34.50  
DST 0.55 215 iPg 27 30.50 -0.2  
eSg 27 37.70  
EDC 0.94 288 ePg 27 37.50 0.0  
EYL 1.00 59 ePg 27 38.40 -0.2  
GPA 1.01 76 ePg 27 39.00 0.3  
ISK 1.01 1 iPg 27 38.50 -0.2  
eSg 27 52.50  
CTT 1.18 337 iPg 27 42.00 0.4  
ALT 1.30 140 ePn 27 43.90 0.1  
S.D. = 0.3 on 8 of 8 obs.

% JAN 04, 1994 17h 55m 23.58s  
59.917 N 151.947 W

DEPTH = 74.6km  
3.1mb ( 1 obs.)

KENAI PENINSULA, ALASKA (14)  
<AEIC>.

HOM 0.30 149 ePc 55 34.99 -0.4  
eS 55 44.00  
XLV 0.48 166 eP 55 35.75 -1.0  
eS 55 45.76  
CNPM 0.53 137 iPc 55 36.60 -0.7  
iS 55 46.94  
ILIM 0.53 288 ePc 55 36.62 -0.8  
eS 55 47.01  
BRLK 0.56 106 eP 55 36.83 -0.8  
eS 55 47.37  
RED 0.65 321 ePd 55 37.98 -0.6  
eS 55 49.47  
REF 0.69 327 iPd 55 38.51 -0.6  
eS 55 50.15  
OPT 0.70 248 ePd 55 38.20 -0.9  
eS 55 50.30  
RDW 0.71 323 iPd 55 38.84 -0.5  
DFR 0.77 332 iPd 55 39.17 -0.8  
NCT 0.81 323 iPd 55 39.79 -0.6  
eS 55 52.55  
NKA 0.90 23 eP 55 42.40 1.1  
AUE 0.92 233 ePd 55 40.73 -0.8  
eS 55 54.84  
AUP 0.93 234 eP 55 40.74 -1.1  
AUH 0.94 235 ePd 55 41.22 -0.7  
AUW 0.95 235 ePd 55 41.24 -0.7  
AUI 0.95 233 ePd 55 41.09 -0.9  
eS 55 54.82

SLKM 1.05 55 eP 55 42.12 -1.1  
eS 55 56.53  
PDB 1.14 264 ePc 55 43.01 -1.3  
eS 55 58.19  
BKG 1.17 352 iPd 55 44.27 -0.5  
eS 56 00.99  
SEW 1.27 80 eP 55 44.96 -1.0  
SPU 1.27 358 iPd 55 45.57 -0.5  
eS 56 03.55  
CKT 1.29 354 ePd 55 45.99 -0.5  
eS 56 03.95  
CKL 1.30 352 eP 55 46.34 -0.2  
CDD 1.32 222 P 55 46.50 -0.2  
CKN 1.32 355 ePd 55 46.53 -0.2  
SYI 1.33 190 ePd 55 45.61 -1.2  
eS 56 03.09

CRP 1.36 356 ePd 55 46.61 -0.8  
CP2 1.36 354 eP 55 46.97 -0.5  
BGL 1.37 351 ePd 55 47.17 -0.3  
CGLM 1.40 359 ePd 55 47.50 -0.3  
MPA 1.41 65 eP 55 46.96 -1.0  
MCNL 1.42 240 eP 55 46.34 -1.7  
NCG 1.50 356 iPd 55 48.90 -0.3  
SUA 1.66 20 ePd 55 51.01 -0.4  
PMS 1.78 40 P 55 52.20 -0.7  
PWA 2.01 29 P 55 55.50 -0.6  
PWL 2.03 61 ePd 55 54.65 -1.6  
LTI 2.06 85 eP 55 54.84 -1.9  
SKT 2.08 5 eP 55 56.39 -0.6



04d 17h

MTU	2.16	86	eP	55	56.64	-1.5
SVW	2.18	305	P	55	56.60	-1.8
PLRM	2.18	38	eP	55	56.84	-1.5
PMR	2.18	38	eP	55	56.39	-1.9
KDC	2.19	188	eP	55	55.52	-3.0
KNK	2.28	47	P	56	02.20	2.4
			S	56	24.60	
KNK	2.28	47	ePd	55	58.27	-1.5
			eS	56	24.61	
GHO	2.38	37	ePd	55	59.72	-1.5
CFI	2.42	57	eP	55	59.51	-2.2
SML	2.59	41	eP	56	02.54	-1.6
CUT	2.63	17	eP	56	03.50	-1.0
HIN	2.76	78	eP	56	03.95	-2.6
SCM	2.97	48	eP	56	07.73	-1.6
VLZ	3.03	64	eP	56	08.27	-1.9
			eS	56	42.05	
CVA	3.16	76	eP	56	09.76	-2.1
			eS	56	44.06	
HUR	3.27	19	eP	56	13.31	-0.2
KLU	3.36	59	ePd	56	12.58	-2.2
			eS	56	49.88	
TOA	3.57	50	P	56	16.10	-1.6
KTH	3.68	7	eP	56	19.50	0.2
RND	3.80	22	eP	56	19.97	-1.0
TZL	3.83	53	eP	56	19.74	-1.6
DHY	3.85	33	eP	56	20.51	-1.3
HMT	3.87	80	eP	56	19.83	-2.1
GLB	4.28	66	eP	56	24.86	-2.9
PAX	4.36	43	eP	56	27.36	-1.6
DDM	4.83	34	eP	56	34.69	-0.8
NEA	4.87	15	eP	56	33.88	-2.0
BALM	4.88	73	P	56	35.20	-1.0
WRH	4.91	20	eP	56	34.63	-1.9
HDA	5.08	25	eP	56	36.73	-2.1
CCB	5.12	20	eP	56	37.04	-2.4
MLY	5.16	6	eP	56	38.59	-1.5
MDM	5.35	17	eP	56	40.48	-2.1
CTGM	5.36	74	eP	56	41.61	-1.3
IL1	5.41	24	eP	56	40.65	-2.8
ILB	5.41	24	eP	56	40.60	-2.9
			eS	57	40.38	
GLM	5.51	21	eP	56	42.67	-2.2
BC3	5.80	53	eP	56	45.22	-3.7
IM3	6.15	353	eP	56	51.24	-2.4
IMA	6.23	353	eP	56	51.71	-3.2
SDN	6.49	229	eP	56	48.38	-10.0
YKA	18.00	66	eP	59	27.50	-2.4
	0.6s		0.80nm			3.1mb
82 obs. associated						

\* JAN 04, 1994 17h 59m 35.73± 0.85s  
18.319 S ±18.8km 178.398 W ±12.8km  
DEPTH = 604.4 ± 10.1 km  
4.4mb ( 11 obs.)

FIJI ISLANDS REGION (181)

SVA	2.99	273	iPd	00	55.60	0.0
AFI	7.73	56	eP	01	32.00	-1.2
BKM	12.73	271	iPd	02	26.00	4.4X
DZM	14.71	253	iPc	02	42.20	1.2
ARMA	29.75	240	iPd	04	57.70	0.8
	0.7s		29.00nm			5.0mb
CAN	33.46	233	iPd	05	29.00	1.0
BWA	33.59	235	iPd	05	27.90	-1.1
PMG	34.54	280	eP	05	38.00	1.0
	1.0s		104.00nm			5.4mb
LAT	35.64	285	eP	05	46.70	0.7
TOO	36.92	231	iPd	05	58.20	1.8
	0.8s		97.00nm			5.5mb X
MDG	37.30	286	eP	06	00.00	0.3
STK	38.45	242	iPd	06	10.80	2.0
	1.1s		23.30nm			4.6mb
WB2	44.56	260	eP	06	56.30	-1.0
	0.6s		37.90nm			5.1mb
WRA	44.57	260	P	06	56.50	-0.8
	0.6s		8.10nm			4.4mb
ASPA	44.69	255	iPd	06	58.00	-0.3
	0.7s		125.00nm			5.5mb X
			iS	12	50.50	
WARB	51.16	251	eP	07	40.00	-6.6X
COOL	55.79	245	eP	08	17.80	-1.4
MBL	57.89	256	iPd	08	32.70	-0.9
MEEK	58.30	250	eP	08	35.20	-1.2
NWAO	59.03	242	eP	08	39.90	-1.2
BAL	59.62	245	iPc	08	44.10	-0.9
MUN	59.95	243	eP	08	46.50	-0.7

MRWA	60.35	246	eP	08	49.00	-0.9
	0.6s		6.00nm			4.0mb
LEM	72.71	268	ePd	10	06.00	0.1
BCH	76.73	46	eP	10	28.44	0.9
PLM	78.00	49	eP	10	35.19	0.7
LBFM	79.10	40	eP	10	42.23	2.1
GLA	79.31	50	(P)	10	42.30	1.2
BALM	84.21	17	eP	11	04.43	-0.9
NEW	85.84	36	eP	11	13.10	-0.3
	0.6s		1.57nm			3.9mb
PV10	85.98	48	P	11	14.84	0.2
IMA	86.17	10	eP	11	16.10	1.4
	0.6s		0.40nm			3.3mb X
FBA	86.20	13	eP	11	12.63	-2.1
	0.5s		1.74nm			4.0mb
BW06	87.65	43	eP	11	21.26	-1.1
	0.8s		3.79nm			4.2mb
RSSD	91.85	44	eP	11	41.53	-0.1
	0.6s		2.40nm			4.4mb
YKA	94.70	25	eP	11	52.70	-1.2
	0.7s		0.60nm			3.9mb
CLL	145.86	347	iPKP	18	09.30	1.6
	1.1s		10.00nm			
BRG	146.06	346	e(PKP)	18	10.10	2.1X
GEC2	148.01	345	PKP	18	15.30	3.9X
	0.5s		1.04nm			
			e	18	16.50	
S.D. = 1.2 on 35 of 39 obs.						

\* JAN 04, 1994 18h 26m 11.79± 0.91s  
44.241 N ± 6.7km 8.234 E ± 7.6km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

FIN	0.04	211	P	26	14.07	0.2
			S	26	15.26	
ROB	0.27	282	P	26	17.73	0.3
			S	26	21.30	
PCP	0.37	36	P	26	19.47	0.0
			S	26	24.65	
IMI	0.41	217	P	26	20.20	-0.1
			S	26	25.98	
ENR	0.59	269	P	26	23.31	-0.4
			S	26	30.91	
BHB	0.92	311	P	26	29.42	0.1
S.D. = 0.3 on 6 of 6 obs.						

\* JAN 04, 1994 18h 26m 17.55± 0.72s  
44.254 N ± 5.6km 8.199 E ± 5.8km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.2 (GEN).

FIN	0.05	172	P	26	19.38	-0.3
			S	26	20.62	
ROB	0.24	280	P	26	22.63	-0.1
			S	26	26.61	
PCP	0.38	41	P	26	25.47	0.1
			S	26	30.90	
IMI	0.41	213	P	26	26.33	0.4
			S	26	32.16	
ENR	0.56	267	P	26	28.79	-0.2
			S	26	36.23	
PZZ	0.83	288	P	26	33.65	0.0
BHB	0.89	312	P	26	34.71	0.1
S.D. = 0.3 on 7 of 7 obs.						

\* JAN 04, 1994 18h 29m 40.03± 0.93s  
44.236 N ± 6.8km 8.237 E ± 7.7km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.8 (GEN).

FIN	0.03	218	P	29	42.20	0.1
			S	29	43.58	
ROB	0.27	283	P	29	45.77	0.0
			S	29	49.48	
PCP	0.38	36	P	29	47.79	0.0
			S	29	52.87	
IMI	0.41	218	P	29	48.39	-0.1
ENR	0.59	269	P	29	51.99	0.0
			S	29	59.64	
BHB	0.92	311	P	29	57.66	0.0
S.D. = 0.1 on 6 of 6 obs.						

? JAN 04, 1994 18h 30m 08.57± 0.96s

44.249 N ± 8.6km 8.224 E ± 9.8km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.5 (GEN).

FIN	0.04	196	P	30	10.79	0.1
			S	30	12.01	
ROB	0.26	280	P	30	14.09	0.0
			S	30	18.08	
PCP	0.37	38	P	30	16.23	0.0
			S	30	21.44	
IMI	0.42	216	P	30	17.01	-0.1
S.D. = 0.1 on 4 of 4 obs.						

? JAN 04, 1994 18h 33m 54.81± 1.05s  
39.372 N ±10.8km 28.145 E ±11.9km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

DST	0.44	58	eP	34	03.10	-0.7
			eSg	34	09.60	
EDC	1.00	348	eP	34	13.50	-0.2
			eSg	34	28.50	
IZM	1.19	216	ePn	34	17.00	-0.1
IZI	1.40	46	ePn	34	21.50	1.0
S.D. = 1.2 on 4 of 4 obs.						

\* JAN 04, 1994 18h 56m 01.32± 1.71s  
11.721 N ±12.1km 125.353 E ±18.8km  
DEPTH = 62.0 ± 13.0 km  
SAMAR, PHILIPPINE ISLANDS (251)

PLP	0.66	214	iPc	56	14.50	-0.8
			iS	56	22.50	
MAP	1.93	224	ePc	56	33.00	0.6
			eS	57	01.00	
CGP	3.31	191	eP	56	52.00	0.2
GQP	3.57	308	ePc	56	56.00	0.5
			eS	57	45.00	
BIP	3.58	166	ePc	56	56.00	0.3
			eS	57	45.00	
GUN	40.27	299	P	03	34.60	0.1
PKI	40.58	299	P	03	36.60	-0.4
KKK	40.75	299	P	03	38.20	0.0
DMN	40.85	299	P	03	39.20	0.1
GKN	41.35	299	P	03	43.00	-0.1
S.D. = 0.5 on 10 of 10 obs.						

& JAN 04, 1994 19h 02m 11.50s  
59.964 N 153.363 W  
DEPTH = 142.1km  
3.5mb ( 1 obs.)  
SOUTHERN ALASKA ( 2)  
<AEIC>.

ILIM	0.23	60	iPc	02	30.23	0.6
			eS	02	45.43	
OPT	0.32	168	iPc	02	30.83	1.0
			eS	02	45.08	
PDB	0.45	247	iPd	02	30.82	-1.1
			eS	02	46.32	
RED	0.54	33	ePc	02	31.59	-1.0
			eS	02	47.40	
RS2	0.58	31	iPc	02	32.06	-0.9
RSO	0.59	31	ePc	02	32.04	-0.9
RDW	0.59	28	iPc	02	32.03	-0.9
AUW	0.60	185	ePd	02	31.94	-0.8
AUH	0.60	184	ePd	02	32.06	-0.8
AUP	0.60	183	ePc	02	31.79	-1.1
AUE	0.61	180	iPd	02	31.96	-0.8
			eS	02	47.98	



04d 19h

BKG	1.24	26	iPd	02	37.21	-0.9	YKA	18.63	65	eP	06	16.70	-3.6	TSM	19.25	296	iPc	36	30.20	2.9X		
			eS	02	57.47			0.6s	1.50nm			3.5mb		ASPA	19.29	183	iPd	36	26.30	-1.5		
BRLK	1.27	98	eP	02	37.52	-0.9		98 obs. associated							0.9s	769.30nm				6.0mb		
			eS	02	56.99											eS	39	51.70				
NKA	1.31	53	ePc	02	39.49	0.7	JAN	04, 1994	19h	31m	59.88±	0.18s		GUA	20.20	29	eP	36	39.70	2.0		
CKL	1.34	22	eP	02	38.37	-0.8		4.301 S ± 3.2km	135.145 E ± 3.9km						1.3s	384.62nm				5.6mb		
CKT	1.37	24	iPd	02	38.47	-1.0		DEPTH = 11.0km	(geophysicist)					GUMO	20.23	28	(P)	36	37.89	0.0		
SPU	1.38	27	iPd	02	38.49	-1.1		5.8mb (60 obs.)	6.0Msz (55 obs.)						1.6s	260.00nm				5.3mb		
BGL	1.39	20	ePd	02	39.09	-0.6		IRIAN JAYA REGION, INDONESIA	(196)					Z	22s	13.70um				5.3Msz		
CKN	1.39	24	iPd	02	38.93	-0.8		Mw 6.0 (GS), 5.9 (HRV).						KKM	21.52	298	ePd	36	56.50	5.2X		
CP2	1.42	22	iPd	02	39.47	-0.7		Mo=3.2*10**18 Nm (PPT). Depth							2.0s	1607.70nm				6.1mb		
CRP	1.44	24	ePd	02	39.48	-0.8		from broadband displacement						GQP	22.04	325	ePd	36	55.00	-1.4		
			eS	03	01.30			seismograms.						MBL	22.41	220	eP	37	00.00	0.0		
SYI	1.45	159	ePd	02	38.69	-1.5		FAULT PLANE SOLUTION: P-Waves								eS	41	00.00				
CGLM	1.50	26	ePd	02	39.90	-1.1		NP1:Strike=175 Dip=86 Slip=-174						TTY	23.09	323	ePd	37	10.00	3.2X		
NCG	1.56	22	iPd	02	40.74	-0.9		NP2: 85 84 -4						WARB	23.23	200	eP	37	09.00	0.9		
SVW	1.60	317	eP	02	39.89	-2.1		Principal Axes:							1.0s	336.00nm				5.8mb		
SLKM	1.66	69	ePc	02	40.94	-1.7		T Plg= 1 Azm=310								eS	41	26.00				
			eS	03	03.82			P 7 40						QVP	23.45	324	eP	37	13.00	2.7		
SEW	1.97	84	eP	02	44.56	-1.6		Comment: The focal mechanism is						BAG	25.12	325	ePc+	37	28.00	1.4		
SUA	1.98	39	iPd	02	45.03	-1.4		moderately well controlled							1.5s	172.22nm				5.5mb		
			eS	03	11.68			and corresponds to strike-								eS	41	46.00				
MPA	2.07	73	eP	02	45.75	-1.6		slip faulting with a small						HNR	25.14	103	(P)	37	26.28	-0.4		
SKT	2.21	23	ePd	02	47.58	-1.6		normal component. The						CVP	25.51	329	eP	37	30.00	-0.1		
			eS	03	16.41			preferred fault plane is not						FORT	27.17	193	eP	37	46.00	0.7		
KDC	2.27	168	iPd	02	46.53	-3.2		determined.						LEM	27.51	264	ePc	37	48.00	-0.8		
			eS	03	15.45			RADIATED ENERGY							1.0s	130.00nm				5.6mb		
PMS	2.27	54	P	02	47.90	-2.0		No. of sta: 11 Focal mech. F					Z	24s	11.63um					5.4MszX		
PWA	2.40	44	eP	02	48.80	-2.7		Energy 8.6±2.1*10**13 Nm								eS	42	44.00				
PLRM	2.64	50	eP	02	51.65	-2.8		MOMENT TENSOR SOLUTION								eLR	46	48.00				
PMR	2.64	50	eP	02	50.84	-3.6		Dep 15 No. of sta: 9					STK	28.10	168	eP	37	54.40	0.7			
PWL	2.65	68	eP	02	52.08	-2.6		Moment Tensor; Scale 10**17 Nm							0.6s	10.50nm				4.8mb		
KNK	2.82	57	ePd	02	53.95	-2.8		Mrr=-0.89 Mtt= 0.75								eS	43	21.30				
GHO	2.83	48	ePd	02	54.11	-2.9		Mff= 0.14 Mrt=-0.84						COOL	29.55	205	eP	38	07.00	0.1		
CUT	2.87	30	ePd	02	55.25	-2.2		Mrf=-0.76 Mtf= 9.58						ADE	30.69	174	iPc	38	16.00	-1.0		
MTU	2.87	87	ePc	02	56.04	-1.4		Principal axes:						MRWA	30.72	214	eP	38	16.50	-0.7		
CFI	3.02	64	eP	02	56.17	-3.2		T Val= 10.15 Plg= 6 Azm=136							0.8s	48.00nm				5.4mb		
SML	3.08	51	ePd	02	57.13	-3.0		N -1.00 84 313					BAL	31.42	212	eP	38	23.00	-0.4			
TTA	3.24	338	eP	02	59.54	-2.7		P -9.14 0 46							1.0s	208.00nm				6.0mb		
HIN	3.46	80	eP	03	02.74	-2.3		Best Double Couple:Mo=9.6*10**17					KLB	31.68	209	eP	38	25.00	-0.7			
SCM	3.49	55	ePd	03	02.75	-2.9		NP1:Strike=181 Dip=86 Slip= 176							1.0s	88.00nm				5.6mb		
FID	3.51	74	eP	03	03.13	-2.7		NP2: 271 86 4					TATO	31.99	336	ePc	38	30.26	1.9			
HUR	3.51	29	eP	03	03.43	-2.4		CENTROID, MOMENT TENSOR (HRV)					BWA	32.41	159	eP	38	33.50	1.4			
VZW	3.54	69	eP	03	04.54	-1.7		Data Used: GDSN					KGM	32.42	281	eP	38	33.00	0.7			
VLZ	3.66	68	eP	03	06.44	-1.3		L.P.B.: 49S, **C M.W.: 32S, 37C					MUN	32.77	211	eP	38	37.00	1.9			
KTH	3.78	17	eP	03	07.47	-2.0		Centroid Location:							1.0s	160.00nm				5.9mb		
CVA	3.84	78	eP	03	07.80	-2.3		Origin Time 19:32: 3.9 0.1					NWAO	33.03	208	(P)	38	38.73	1.3			
KLU	3.96	64	ePd	03	09.01	-2.9		Lat 4.27S 0.01 Lon 135.05E 0.01								eP	38	41.71		10kmX		
RND	4.07	30	eP	03	10.53	-2.7		Dep 20.2 1.1 Half-duration 2.3					QZH	33.22	332	eP	38	41.00	1.9			
TOA	4.10	55	P	03	11.30	-2.4		Moment Tensor; Scale 10**17 Nm					Z	19s	13.50um					5.7Msz		
DHY	4.24	40	ePd	03	12.74	-2.9		Mrr=-0.65 0.09 Mtt=-3.18 0.11					N	13s	7.64um							
			eS	04	01.63			Mff= 3.83 0.14 Mrt=-0.93 0.22					CAN	33.42	159	eP	38	41.30	0.4			
MCK	4.32	27	eP	03	14.30	-2.3		Mrf=-0.19 0.26 Mtf= 8.18 0.09								i	38	43.00		6kmX		
TZL	4.39	58	eP	03	15.18	-2.3		Principal Axes:					HKC	33.47	323	P	38	45.00		3.7X		
HMT	4.57	81	eP	03	17.43	-2.4		T Val= 9.27 Plg= 4 Azm=124								S	43	59.00				
BWN	4.60	22	ePd	03	17.99	-2.3		N -0.64 84 252					CNB	33.55	159	eP	38	29.10	-12.9X			
PAX	4.84	48	eP	03	21.02	-2.6		P -8.63 5 33					QIZ	34.03	314	ePc	38	45.94	-0.3			
GLB	4.92	68	eP	03	22.04	-2.6		Best Double Couple:Mo=8.9*10**17					N	13s	8.49um							
			eS	04	16.43			NP1:Strike=168 Dip=84 Slip=-179					TOO	34.44	165	eP	38	51.70	2.0			
NEA	5.04	22	ePd	03	23.04	-3.2		NP2: 78 89 -6							0.8s	29.00nm				5.2mb		
WRH	5.15	26	ePd	03	24.38	-3.3	WWKK	8.49	86	eP	34	04.30	-1.4	RKG	34.50	207	eP	38	50.00	-0.2		
DDM	5.22	40	eP	03	27.38	-1.3	MNDI	8.68	103	eP	34	08.00	-0.5	GZH	34.56	323	P	38	50.00	-0.7		
MLY	5.23	12	eP	03	25.56	-3.2	MTN	9.37	205	eP	34	16.50	-1.4		Z	18s	10.30um				5.6Msz	
SNH	5.28	83	eP	03	27.77	-1.6		0.4s 521.00nm				7.3mb X		N	16s	8.72um						
TGL	5.29	77	eP	03	27.48	-2.1		MDG	10.64	96	eP	34	34.50	-0.8	E	11s	4.60um					
CCB	5.37	26	ePd	03	27.03	-3.5		LAT	12.03	102	eP	34	53.50	-0.8			S	44	10.00			
HDA	5.37	31	ePd	03	27.43	-3.2		PMG	12.96	114	eP	35	06.00	-0.7	BKM	35.02	115	iPc	39	02.00	7.2X	
MDM	5.55	23	ePd	03	29.66	-3.4		KNA	12.99	208	iPc	35	03.70	-3.4X	DZM	35.09	123	iPc	38	58.00	2.5	
BALM	5.55	74	ePc	03	31.12	-2.0		0.9s 1750.00nm				7.2mb X	IPM	35.21	284	ePc	38	56.00	-0.5			
FBA	5.59	25	eP	03	29.71	-3.8		DAV	14.81	320	eP+	35	32.00	0.9	KAGJ	35.52	354	eP	38	58.00	-0.9	
ILB	5.69	29	eP	03	31.58	-3.3								KUMJ	36.86	354	eP	39	10.20	0.1		
ILI	5.69	29	eP	03	31.65	-3.2		BIP	15.28	324	ePd	35	39.00	1.7	SSE	37.64	340	eP	39	16.25	-0.4	
GLM	5.75	26	eP	03	32.44	-3.3		WB5	15.50	183	eP	35	34.50	-5.7X		1.4s	130.00nm				5.5mb	
SDN	6.01	223	P	03	35.60	-3.6								Z	20s	27.90um					6.1Msz	
CTGM	6.04	75	eP	03	38.13	-1.6								N	13s	27.90um						
IM3	6.05	358	eP	03	37.04	-2.7								E	15s	13.10um						
IMA	6.13	359	ePd	03	38.30	-2.7		WRA	15.57	183	P	35	35.79	-5.2X			ePd	39	19.47		11kmX	
CHX	6.14	84	eP	03	40.03	-1.1		CTB	15.81	316	ePd	35	45.00	0.9			PcP	41	38.00			
BC3	6.35	56	eP	03	41.63	-2.3		CGP	16.41	321	eP	35	54.00	2.2			S	45	03.00			
PCA	6.57	83	eP	03	45.10	-1.8		QIS	16.73	165	eP	35	52.80	-3.1X			sS	45	13.00			
BCPM	6.90	84	eP	03	50.61	-0.7											PcS	45	23.00			
PNL	7.05	86	eP	03	51.01	-2.4		RAB	16.97	90	eP	36	02.00	3.0X								



[illegible]



LPB	149.07	133	PKP	51	57.90	10.9X
	Z	22s	2.96um			6.0Msz
			LR	42	30.00	
LPBZ	149.20	132	ePKP	51	45.01	-2.5
MBO	150.74	292	iPKP	51	58.70	9.7X
RSTA	150.94	172	ePKP	51	54.30	5.2X
			e	51	57.90	
VAO	152.79	176	(PKP)	52	04.00	12.0X
SDV	154.00	79	ePKP	51	55.50	1.5
BDF	159.94	171	ePKP	52	02.60	1.4
	2.5s		0.60nm			
BDFB	159.94	171	(PKP)	52	03.65	2.5
	S.D. = 1.1		on 139 of 213 obs.			
-----						
	JAN 04, 1994	19h	51m	40.16±	0.23s	
	4.172 S ± 5.0km		135.220 E ± 5.0km			
	DEPTH = 16.6km		( 10 depth phases)			
	5.5mb ( 45 obs.)		5.2Msz ( 5 obs.)			
	TRIAN JAYA REGION, INDONESIA					(196)
WWKK	8.40	87	eP	54	41.70	57.6X
MNDI	8.63	104	eP	53	46.00	-1.5
MDG	10.58	96	eP	54	15.00	0.9
LAT	11.99	102	eP	54	32.90	-0.4
PMG	12.94	114	eP	54	43.70	-2.4
KNA	13.14	208	eP	54	43.50	-5.2X
DAV	14.76	319	eP	55	12.00	2.0
WRA	15.70	183	P	55	15.39	-6.9X
	1.2s		88.10nm			4.8mb
CTB	15.77	316	eP	55	28.00	4.9X
RAB	16.90	91	eP	55	36.00	-1.6
MAP	18.24	322	eP	55	59.00	4.7X
PLP	18.33	326	ePc	55	58.50	3.1X
TSM	19.26	296	ePc	56	07.50	0.6
ASPA	19.42	184	iPd	56	04.90	-3.9X
	0.7s		610.60nm			6.0mb
			eS	59	26.90	
GUA	20.06	29	eP	56	19.80	4.2X
GUMO	20.08	28	eP	56	19.30	3.5X
	1.1s		162.10nm			5.3mb
	Z	24s	4.42um			4.7MszX
FJG	20.08	28	eP	56	19.10	3.3X
KKM	21.52	298	ePc	56	37.00	6.2X
GQP	21.98	325	ePd	56	35.00	-0.3
WARB	23.38	200	eP	56	48.50	-0.5
BAG	25.06	320	eP	57	05.00	-0.5
CVP	25.44	329	eP	57	13.00	4.1X
FORT	27.31	194	eP	57	25.00	-1.0
LEM	27.60	263	ePc	57	32.50	3.5X
STK	28.21	168	eP	57	36.30	2.2
	4.7s		13.20nm			4.0mb X
			eS	02	55.50	
MRWA	30.87	214	eP	58	05.00	7.0X
BAL	31.57	212	eP	58	02.00	-2.1
KLB	31.83	209	eP	58	04.20	-2.2
BWA	32.50	159	eP	58	12.80	0.5
NWAO	33.18	208	eP	58	16.50	-1.7
CAN	33.51	159	eP	58	23.10	2.0
CNB	33.64	159	eP	58	24.10	1.9
	1.0s		41.00nm			5.3mb
TOO	34.55	166	eP	58	32.20	2.2
	0.7s		22.00nm			5.2mb
BKM	35.00	115	iPd	58	35.70	1.6
DZM	35.10	123	iPc	58	34.60	-0.4
IPM	35.25	284	ePd	58	36.00	-0.3
SSE	37.54	340	eP	58	55.00	-0.3
	1.4s		82.00nm			5.3mb
			sP	59	03.00	
			PcP	01	17.20	
NNT	39.00	296	eP	59	08.60	0.9
NJ2	39.24	338	Pc	59	11.00	1.5
LOE	39.40	304	eP	59	10.00	-1.1
KBR	39.75	298	eP	59	35.	



	1.5s	53.00nm			5.3mb
		pP	00	07.50	28km
		sP	00	11.00	
TIY	46.74	335 eP	00	10.00	-0.5
	1.2s	40.00nm			5.3mb
E	15s	1.70um			
		S	07	04.00	
SNY	46.99	348 Pc	00	12.70	0.5
BJI	47.35	340 eP	00	15.00	-0.1
	1.5s	160.00nm			5.9mb
Z	20s	3.62um			5.3Msz
N	17s	1.98um			
CN2	48.56	351 eP	00	25.70	1.2
	0.8s	4.70nm			4.6mb
		epP	00	29.50	13km
MDJ	48.83	355 eP	00	26.00	-0.5
LZH	49.66	326 P	00	33.80	0.5
	1.6s	260.00nm			6.0mb
Z	22s	2.51um			5.2Msz
E	12s	1.33um			
		PP	02	25.00	
HHC	49.76	336 Pd	00	34.00	0.0
	1.6s	230.00nm			5.9mb
BTO	50.18	335 eP	00	37.00	-0.2
SHL	51.38	307 eP	00	45.50	-1.1
LSA	53.99	312 P	01	06.80	0.5
GTA	54.26	326 Pc	01	07.60	-0.2
	1.5s	170.00nm			5.9mb
		pP	01	15.00	24km
GUN	57.22	307 P	01	28.80	-0.8
	0.6s	35.00nm			5.6mb
PKI	57.45	306 P	01	31.80	0.6
KKN	57.64	307 P	01	31.40	-1.0
	0.8s	48.00nm			5.6mb
DMN	57.71	306 P	01	32.00	-0.9
	0.8s	72.00nm			5.8mb
GKN	58.25	307 P	01	35.80	-0.8
	0.8s	52.00nm			5.6mb
CIT	58.91	345 eP	01	41.00	0.4
KOD	59.27	284 eP	01	43.80	-0.2
HYB	59.88	293 eP	01	47.00	-0.9
GBA	59.99	288 P	01	48.00	-0.6
ZAK	60.90	337 iPd	01	54.00	-0.2
	1.5s	167.00nm			5.9mb
IRK	62.04	339 eP	02	01.50	-0.5
	2.0s	58.00nm			5.4mb
WMQ	64.05	324 P	02	14.70	-0.8
	1.6s	58.00nm			5.5mb
Z	18s	0.89um			5.0Msz
		pP	02	23.50	28km
		PcP	02	49.50	
		PP	04	42.00	
		ScP	06	48.00	
		S	10	55.00	
		sS	11	00.00	
		SS	15	03.00	
BOD	64.11	348 iPc	02	14.60	-0.9
	1.3s	86.00nm			5.8mb
POO	64.50	293 eP	02	19.00	0.2
UER	65.64	333 iP	02	23.80	-1.7
	1.2s	60.00nm			5.6mb
YAK	66.14	357 iPc	02	27.50	-0.9
	1.4s	137.00nm			5.9mb
		i	04	48.00	745km X
ADK	69.13	30 eP	02	50.30	2.8
KSH	69.56	315 eP	02	52.40	1.8
	1.0s	20.00nm			5.2mb
Z	20s	3.10um			5.5Msz
N	14s	1.70um			
E	14s	2.00um			
		PcP	03	10.00	
		ePP	05	32.00	
		eS	12	02.40	
		SKS	12	44.00	
FRU	71.87	318 eP	03	05.00	0.6
QUE	73.53	303 eP	03	15.00	0.4
AFR	74.46	107 iPc	03	23.70	3.8X
	1.5s	365.60nm			6.2mb
PAE	74.65	107 iPc	03	25.00	4.0X
	1.3s	316.30nm			6.2mb
PPT	74.65	107 iPc	03	25.00	3.9X
	1.2s	408.20nm			6.3mb
PPN	74.79	107 iPc	03	25.90	4.1X
	1.3s	332.10nm			6.2mb
TVO	74.96	107 iPc	03	27.20	4.3X

TPT	1.5s	300.90nm		6.1mb
	76.54	104 iPc	03 35.80	4.0X
	1.2s	144.60nm		5.9mb
RUV	76.76	105 iPc	03 36.80	3.8X
	1.3s	140.80nm		5.9mb
MAIO	81.02	308 eP	03 55.70	-0.3
ASH	82.25	309 eP	04 06.00	3.8X
SVW	83.73	27 eP	04 10.23	0.8
	0.9s	23.18nm		5.4mb
		e	04 14.04	12km
KDC	84.16	31 eP	04 11.80	0.3
TTA	84.20	25 eP	04 11.97	0.1
	1.0s	26.20nm		5.4mb
		e	04 16.00	13km
SVE	85.10	328 ePd	04 18.00	1.7
	2.0s	160.00nm		5.9mb
SLKM	86.07	29 eP	04 20.07	-1.0
		e	04 24.33	13km
ARU	86.09	327 eP	04 23.00	1.8
	Z 20s	1.00um		5.2Msz
	E 20s	1.00um		
IMA	86.23	23 eP	04 22.43	0.5
	1.2s	44.34nm		5.5mb
		e	04 26.19	12km
PMR	86.86	28 eP	04 24.03	-0.8
	1.0s	65.79nm		5.8mb
		e	04 28.02	13km
FBA	88.26	25 eP	04 30.92	-0.7
	0.8s	8.52nm		5.1mb
		e	04 34.32	11km
TOA	88.34	27 eP	04 31.70	-0.4
BALM	89.95	29 eP	04 40.30	0.5
INK	94.31	22 eP	04 59.00	-0.6
	1.0s	4.00nm		4.8mb
NVL	96.53	196 P	05 12.00	2.2
		e	05 35.00	84kmX
		e	06 32.00	
MBC	97.68	13 eP	05 15.00	0.2
	1.0s	5.00nm		5.1mb
KAF	102.46	333 ePd	05 33.00	-3.5X
YKA	102.93	27 ePd	05 39.50	0.9
	0.9s	1.30nm		4.7mb
RES	103.86	12 ePd	05 42.00	-0.5
GEC2	113.50	322 PKP	10 22.50	3.2X
	1.3s	3.07nm		
		PcP	10 30.00	
RSSD	114.67	43 ePKP	10 21.60	-0.3
		e	10 25.74	
BCAO	116.88	273 ePKPd	10 30.00	3.3X
	0.8s	7.00nm		
		e	11 34.40	
KIC	140.08	275 PKP	11 01.54	-9.2X
	1.1s	7.50nm		
TIC	140.35	275 PKP	11 02.02	-9.2X
	0.6s	2.00nm		
LKO	140.75	280 PKP	11 09.22	-2.8X
	0.9s	9.50nm		
NNA	144.31	117 iPKPd	11 17.20	-0.9
	1.2s	70.31nm		
ARE	146.57	128 ePKP	11 28.50	6.3X
KDS	146.75	287 ePKP	11 25.30	3.2X
LPB	149.10	132 PKP	11 33.00	6.6X
LPZA	149.23	132 PKP	11 29.90	3.0X
RSTA	151.05	172 ePKP	11 26.20	-2.4
		e	11 38.10	
SDV	153.90	78 ePKP	11 34.50	1.3
BDFB	160.06	171 (PKP)	11 42.72	2.1
	S.D. = 1.2	on 87 of 121 obs.		
-----				
%	JAN 04, 1994	19h 55m	38.07±	0.90s
	44.234 N ± 6.3km	8.245 E ± 6.8km		
	DEPTH = 10.0km	(geophysicist)		
	NORTHERN ITALY			(545)
	ML 2.2 (GEN).			
FIN	0.04	227 P	55 40.38	0.2
		S	55 41.66	
ROB	0.28	283 P	55 44.04	0.1
		S	55 47.52	
PCP	0.38	35 P	55 45.78	0.0
		S	55 50.86	
IMI	0.41	218 P	55 46.33	-0.2
		S	55 52.05	
ENR	0.59	270 P	55 50.03	-0.1
		S	55 57.54	
STV	0.66	271 P	55 51.47	0.2
PZZ	0.86	289 P	55 54.61	-0.2

BHB	0.93	311	P	S	56	05.26	
				S	55	55.80	0.0
				S	56	06.98	
	S.D. = 0.2	on			8 of	8 obs.	
<hr/>							
* JAN 04, 1994	19h	58m	47.03±	0.74s			
42.574 N ±10.4km	142.237 E ±14.4km						
DEPTH = 33.0km	(normal)						
4.9mb ( 14 obs.)							
HOKKAIDO, JAPAN REGION							(224)
<hr/>							
MAT	6.78	209	eP	00	27.00	0.2	
GUN	47.47	271	P	07	20.60	-0.4	
KIN	47.97	271	P	07	24.80	-0.1	
	0.4s	9.00nm				5.2mb	
PKI	48.00	271	P	07	24.80	-0.4	
	0.4s	8.00nm				5.1mb	
DMN	48.20	271	P	07	26.20	-0.5	
	0.4s	12.00nm				5.3mb	
GKN	48.33	272	P	07	27.40	-0.1	
YKA	58.74	32	eP	08	42.30	-1.3	
	0.6s	0.50nm				3.8mb X	
KAF	63.70	332	eP	09	17.10	0.0	
OBN	64.08	322	eP	09	28.50	8.9X	
NUR	65.39	331	eP	09	27.80	-0.2	
HFS	69.32	335	eP	09	52.10	-0.6	
	0.4s	4.60nm				4.9mb	
Z	19s	6.04um				5.9MsZx	
		LR		32	23.00		
CDF	81.09	331	eP	11	00.30	0.2	
	0.7s	3.65nm				4.5mb	
LOR	83.25	333	eP	11	11.10	-0.2	
	1.0s	9.60nm				4.9mb	
LBF	83.46	333	eP	11	11.90	-0.5	
	0.7s	2.45nm				4.4mb	
SSF	83.55	333	eP	11	13.60	0.8	
	0.9s	4.90nm				4.6mb	
LPG	83.76	330	eP	11	14.70	0.4	
	0.7s	3.00nm				4.6mb	
SMF	83.80	333	eP	11	14.10	0.0	
	1.1s	13.45nm				5.0mb	
AVF	83.84	333	eP	11	14.40	0.2	
	0.8s	8.85nm				5.0mb	
MAF	84.60	333	eP	11	18.70	0.6	
	0.8s	10.75nm				5.1mb	
CAF	85.90	333	eP	11	25.80	1.1	
	0.6s	4.35nm				4.9mb	
LFF	86.33	334	eP	11	27.60	0.8	
	0.5s	2.85nm				4.8mb	
	S.D. = 0.6	on		20 of	21 obs.		
<hr/>							
% JAN 04, 1994	20h	32m	25.11±	1.17s			
44.744 N ± 7.0km	7.531 E ±11.1km						
DEPTH = 10.0km	(geophysicist)						
NORTHERN ITALY							(545)
ML 2.2 (GEN).							
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BHB	0.21	297	P	32	30.73	0.9	
			S	32	34.35		
PZZ	0.39	232	P	32	32.84	-0.3	
			S	32	37.83		
RSP	0.45	335	P	32	33.66	-0.7	
ROB	0.51	151	P	32	35.90	0.4	
			S	32	43.41		
ENR	0.52	189	P	32	35.31	-0.4	
			S	32	42.22		
	S.D. = 0.9	on		5 of	5 obs.		
<hr/>							
% JAN 04, 1994	21h	08m	36.21±	2.91s			
36.486 N ±24.1km	2.804 W ± 9.4km						
DEPTH = 5.0km	(geophysicist)						
STRAIT OF GIBRALTAR							(385)
mbLg 3.3 (MDD).							
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ENIJ	0.68	45	iPc	08	49.13	-0.7	
			eS	08	57.10		
EGUA	0.70	300	iPc	08	49.49	-0.8	
			eS	08	59.50		
ECOG	1.00	322	iPd	08	54.75	-0.9	



04d 21h

EVIA 2.16 6 eP 09 14.67 1.2  
 EHOR 2.37 305 eP 09 16.39 0.1  
 PAB 3.29 339 ePg 09 38.00 8.5X  
 eSg 10 19.00

S.D. = 0.9 on 9 of 10 obs.

% JAN 04, 1994 21h 31m 16.84± 0.68s  
 26.831 S ± 6.3km 26.718 E ± 7.1km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.0 (PRE).

BFS 0.09 138 eP 31 18.90 -0.1  
 S 31 19.40  
 KSR 0.98 10 eP 31 35.50 -0.5  
 S 31 48.30  
 SWZ 1.29 254 eP 31 41.40 0.1  
 S 31 56.30  
 SEK 1.69 152 eP 31 47.00 -0.3  
 S 32 06.50  
 SLR 1.78 52 eP 31 49.20 0.6  
 S 32 10.00  
 BOSA 2.12 213 eP 31 53.50 0.2  
 S 32 19.50

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

\* JAN 04, 1994 22h 06m 41.96± 2.36s  
 14.298 S ±24.0km 166.658 E ±23.2km  
 DEPTH = 33.0km (normal)  
 4.7mb ( 4 obs.)

VANUATU ISLANDS (186)

BKM 3.68 156 iPd 07 38.00 0.0  
 iS 08 14.00  
 DZM 7.73 181 iPc 08 35.12 -0.1  
 iS 09 57.20  
 ARMA 21.19 218 eP 11 27.20 0.1  
 0.9s 23.00nm 4.6mb  
 STK 28.83 228 iPd 12 39.50 0.0  
 0.5s 11.00nm 4.8mb  
 WB2 31.35 255 eP 13 02.00 0.1  
 0.4s 4.00nm 4.6mb  
 WRA 31.36 255 P 13 02.20 0.2  
 1.0s 0.90nm 3.6mb X  
 ASPA 32.28 248 iPc 13 09.80 -0.3  
 0.9s 17.80nm 5.0mb  
 WARB 39.21 246 iPc 14 09.40 0.4  
 MBL 44.99 254 eP 14 56.40 0.1  
 MEEK 46.41 247 eP 15 07.00 -0.5

S.D. = 0.3 on 10 of 10 obs.

JAN 04, 1994 22h 44m 30.04± 0.31s  
 40.197 N ± 3.9km 27.446 E ± 2.7km  
 DEPTH = 13.0 ± 2.5 km  
 TURKEY (366)  
 ML 3.4 (ISK).

EDC 0.35 65 iPg 44 37.50 0.0  
 iSg 44 43.00  
 BNT 0.40 66 iPg 44 38.00 -0.3  
 DST 1.08 123 iPn 44 50.80 0.6  
 CTT 1.21 38 iPn 44 52.30 0.0  
 ALN 1.28 304 iP 44 53.90 0.5  
 ISK 1.50 54 iPn 44 56.30 -0.3  
 IZI 1.56 84 iPn 44 57.80 0.3  
 DMK 1.64 8 ePn 44 58.60 0.0  
 IZM 1.80 185 ePn 45 00.30 -0.8  
 HRT 1.81 69 iPn 45 00.50 -0.6  
 EYL 2.10 79 ePn 45 05.30 -0.2  
 KDZ 2.11 314 eP 45 06.00 0.5  
 GPA 2.19 87 ePn 45 07.00 0.3  
 DIM 2.35 323 eP 45 14.00 5.1X  
 ALT 2.35 118 ePn 45 09.60 0.6  
 RZN 2.55 307 eP 45 12.00 0.1  
 CIN 2.64 169 eP 45 13.00 0.0  
 SRS 3.07 289 iP 45 18.60 -0.5  
 MMB 3.14 297 eP 45 29.00 8.8X  
 KNT 3.59 287 iP 45 26.80 0.3  
 VTS 3.99 308 eP 45 32.00 -0.2

S.D. = 0.4 on 19 of 21 obs.

& JAN 04, 1994 22h 45m 57.10s  
 62.217 N 149.525 W  
 DEPTH = 50.2km

# CENTRAL ALASKA ( 1 ) <AEIC>. ML 2.5 (AEIC).

BC3 2.35 15 eP 46 51.53 -1.4  
 BGL 2.35 15 eP 46 25.01 -1.4  
 BKG 2.35 15 eP 46 25.44 -1.4  
 eS 46 48.43  
 CFI 2.35 15 eP 46 19.02 -1.4  
 CKN 2.35 15 eP 46 24.04 -1.4  
 CKT 2.35 15 eP 46 24.13 -1.4  
 eS 46 45.05  
 CNPM 2.35 15 eP 46 40.93 -1.4  
 CP2 2.35 15 eP 46 23.52 -1.4  
 eS 46 45.08  
 CRP 2.35 15 eP 46 22.55 -1.4  
 eS 46 44.61  
 CTGM 2.35 15 eP 46 57.62 -1.4  
 CUT 2.35 15 iP 46 06.76 -1.4  
 CVA 2.35 15 eP 46 35.68 -1.4  
 DDM 2.35 15 eP 46 34.66 -1.4  
 DFR 2.35 15 eP 46 32.04 -1.4  
 eS 47 00.22  
 DHY 2.35 15 eP 46 18.27 -1.4  
 FBA 2.35 15 eP 46 38.00 -1.4  
 GHO 2.35 15 eP 46 08.30 -1.4  
 eS 46 17.14  
 GLB 2.35 15 eP 46 39.72 -1.4  
 GLI 2.35 15 eP 46 26.30 -1.4  
 GLM 2.35 15 eP 46 40.75 -1.4  
 HIN 2.35 15 eP 46 32.79 -1.4  
 HMT 2.35 15 eP 46 44.26 -1.4  
 HUR 2.35 15 eP 46 11.10 -1.4  
 eS 46 22.23  
 IL1 2.35 15 eP 46 39.22 -1.4  
 ILB 2.35 15 eP 46 39.23 -1.4  
 IM3 2.35 15 eP 46 58.23 -1.4  
 IMA 2.35 15 eP 46 58.57 -1.4  
 KLU 2.35 15 eP 46 26.50 -1.4  
 eS 46 50.46  
 KNK 2.35 15 eP 46 13.83 -1.4  
 KTH 2.35 15 eP 46 21.18 -1.4  
 MCK 2.35 15 eP 46 22.27 -1.4  
 MDM 2.35 15 eP 46 39.06 -1.4  
 MLY 2.35 15 eP 46 39.85 -1.4  
 MPA 2.35 15 eP 46 25.01 -1.4  
 NCG 2.35 15 eP 46 21.72 -1.4  
 NCT 2.35 15 eP 46 34.34 -1.4  
 PAX 2.35 15 eP 46 29.42 -1.4  
 PLRM 2.35 15 iP 46 09.54 -1.4  
 eS 46 20.24  
 PMR 2.35 15 iPc 46 09.16 -1.4  
 eS 46 19.74  
 PMS 2.35 15 P 46 14.10 -1.4  
 PWA 2.35 15 P 46 09.10 -1.4  
 PWL 2.35 15 eP 46 21.25 -1.4  
 REF 2.35 15 eP 46 32.51 -1.4  
 RND 2.35 15 eP 46 17.42 -1.4  
 SCM 2.35 15 eP 46 15.70 -1.4  
 SKT 2.35 15 eP 46 13.87 -1.4  
 SLKM 2.35 15 eP 46 25.22 -1.4  
 SML 2.35 15 eP 46 09.96 -1.4  
 eS 46 20.42  
 SPU 2.35 15 eP 46 23.02 -1.4  
 eS 46 42.91  
 SUA 2.35 15 eP 46 14.30 -1.4  
 eS 46 28.41  
 TGL 2.35 15 eP 46 48.93 -1.4  
 TOA 2.35 15 P 46 23.50 -1.4  
 TRF 2.35 15 eP 46 18.41 -1.4  
 TZL 2.35 15 eP 46 28.98 -1.4  
 VLZ 2.35 15 eP 46 26.12 -1.4  
 WRH 2.35 15 eP 46 32.63 -1.4  
 BALM 3.63 106 eP 46 50.33 -1.9

57 obs. associated

JAN 04, 1994 23h 28m 51.98± 0.28s  
 51.151 N ± 7.2km 179.326 E ± 3.1km  
 DEPTH = 33.0km (normal)  
 4.7mb ( 39 obs.) 4.5Msz ( 4 obs.)  
 RAT ISLANDS, ALEUTIAN ISLANDS ( 6 )  
 ML 5.2 (PMR).

ADK 2.60 72 ePc 29 33.91 1.4  
 eS 30 06.66  
 SMY 3.60 298 eP 29 47.81 1.1  
 SDN 12.78 63 eP 31 51.93 -1.9X  
 ANM 15.65 25 (P) 32 33.92 2.5

SVW 17.04 45 eP 32 50.33 1.2  
 0.8s 19.18nm 4.3mb  
 KDC 17.58 57 eP 32 53.83 -1.8X  
 0.6s 10.85nm 4.2mb  
 TTA 17.72 39 eP 32 58.49 0.9  
 1.0s 27.41nm 4.3mb  
 CP2 18.62 46 eP 33 08.62 -0.1  
 CRP 18.66 46 eP 33 09.38 0.2  
 SLKM 19.33 49 eP 33 17.54 0.5  
 PMS 19.84 47 eP 33 21.10 -1.5  
 PMR 20.14 47 eP 33 23.37 -2.3X  
 0.8s 20.10nm 4.5mb  
 IMA 20.27 32 eP 33 26.65 -0.4  
 0.8s 16.72nm 4.4mb  
 KLU 21.60 48 eP 33 41.10 0.4  
 FBA 21.85 38 eP 33 43.15 0.1  
 1.1s 25.74nm 4.6mb  
 BALM 23.22 50 eP 33 55.50 -1.2  
 YSS 24.16 275 eP 34 07.30 1.5  
 INK 28.32 35 eP 34 43.50 -0.7  
 1.0s 9.00nm 4.4mb  
 YAK 28.67 312 iPc 34 46.00 -1.4  
 1.0s 20.00nm 4.8mb  
 MBC 34.26 22 eP 35 37.00 0.7  
 0.9s 11.00nm 4.8mb  
 YKA 36.24 46 eP 35 51.70 -1.6  
 0.7s 7.90nm 4.7mb  
 CN2 36.43 280 eP 35 54.00 -1.1  
 1.0s 7.00nm 4.5mb  
 Z 20s 0.37um 4.2Msz  
 ePp 36 02.50 29kmX  
 LON 38.01 73 eP 36 09.57 1.1  
 SNY 38.65 278 Pc 36 14.00 0.3  
 1.0s 12.00nm 4.6mb  
 NEW 40.07 68 eP 36 25.57 0.0  
 0.6s 5.77nm 4.5mb  
 RES 40.44 24 eP 36 28.50 0.3  
 1.0s 3.00nm 4.0mb  
 LBFM 40.80 80 eP 36 33.26 1.4  
 HRY 43.94 68 eP 36 57.22 -0.1  
 LRM 44.06 69 iPd 36 58.17 -0.3  
 BJI 44.27 281 eP 37 00.00 0.2  
 1.0s 7.00nm 4.4mb  
 Z 20s 0.30um 4.2Msz  
 MCMT 44.37 70 iPd 37 00.92 0.0  
 BGMT 44.62 70 iPd 37 02.71 -0.3  
 TNP 45.64 81 eP 37 11.42 0.3  
 0.8s 8.87nm 4.7mb  
 PTI 45.76 72 eP 37 13.15 1.2  
 TIA 46.02 276 eP 37 14.00 0.1  
 ZAK 46.06 300 iPc 37 14.60 0.7  
 1.6s 30.00nm 5.0mb  
 HVU 46.15 74 eP 37 15.21 0.2  
 HHC 46.61 285 P 37 19.20 0.5  
 1.2s 42.00nm 5.3mb  
 SSE 46.81 268 Pc 37 21.40 1.2  
 1.0s 16.00nm 5.0mb  
 TPNV 46.94 81 eP 37 21.71 0.3  
 0.9s 19.91nm 5.1mb  
 BW06 47.49 71 eP 37 25.53 -0.2  
 0.8s 29.22nm 5.3mb  
 e 37 35.97  
 NJ2 47.64 271 Pd 37 26.60 -0.1  
 GSC 47.64 84 eP 37 26.63 -0.2  
 BTO 47.70 286 eP 37 28.00 0.7  
 DAU 47.88 75 eP 37 29.30 0.4  
 TIY 48.00 281 eP 37 30.00 0.5  
 1.0s 24.00nm 5.2mb  
 EMUT 48.52 75 eP 37 34.21 0.5  
 PLM 48.88 86 eP 37 36.55 0.0  
 SRU 49.13 75 eP 37 38.78 0.4  
 PV09 50.36 75 eP 37 47.56 -0.4  
 PV10 50.49 75 eP 37 48.37 -0.6  
 ULM 50.79 56 eP 37 52.00 1.3  
 DAG 51.83 5 iPd 37 57.20 -1.1  
 0.6s 5.33nm 4.7mb  
 GOL 51.87 72 eP 37 59.54 0.2  
 0.8s 21.19nm 5.2mb  
 GLD 51.93 71 eP 38 00.14 0.4  
 1.3s 21.06nm 4.9mb  
 XAN 52.54 280 P 38 03.20 -1.0  
 1.0s 13.00nm 4.8mb  
 pP 38 10.20 23kmX  
 TUC 53.38 82 eP 38 11.19 0.7  
 1.0s 7.07nm 4.6mb  
 e 38 27.82  
 FRB 53.83 31 eP 38 12.00 -1.2



04d 23h

LZH	1.0s	9.00nm	4.7mb	IGT	3.09	297	ePn	36	18.52	0.9	DL2	30.70	322	Pd	52	21.50	1.2						
	54.31	285	Pc	38	17.50	0.1	iSn	36	55.42			0.8s	290.00nm				5.9mb						
	1.4s	49.00nm	5.3mb	ALN	3.18	31	ePn	36	19.68	0.9	MDJ	31.19	338	eP	52	25.00	0.5						
		pP	38	32.50	56kmX		eSn	36	58.68			1.6s	120.00nm				5.2mb						
GTA	54.55	291	iPc	38	19.00	-0.1	FNA	3.25	324	ePn	36	19.56	-0.3	SNY	31.62	328	Pc	52	27.00	-1.1			
	1.5s	32.00nm	5.1mb	VAY	3.30	342	iPn	36	21.00	0.5		1.2s	100.00nm				5.3mb						
WMQ	58.47	302	iPc	38	46.70	-0.2	CIN	3.36	99	eP	36	20.00	-1.5	WHN	31.80	302	iPd	52	31.50	1.8			
	0.8s	9.60nm	4.9mb	OHR	3.78	322	ePn	36	27.30	-0.1		0.6s	78.00nm				5.5mb						
Z	20s	0.69um	4.8Msz	SKO	4.23	334	ePn	36	36.00	2.3	TIA	32.07	313	Pd	52	32.60	0.7						
LTX	59.85	80	eP	38	55.36	-1.3	S.D. = 1.3 on 22 of 22 obs.										0.8s	73.00nm		5.3mb			
UYO	62.05	69	iPd	39	10.30	-1.1	JAN 04, 1994 23h 46m 47.71± 0.20s										PcP	55	05.10				
ARU	62.18	327	eP	39	11.00	-1.0	16.413 N ± 2.6km 145.603 E ± 2.9km										MTN	32.40	207	iPc	52	34.60	-0.2
ELC	62.88	64 (P)	39	15.32	-1.5	DEPTH = 535.1 ± 2.4 km										0.7s	542.00nm		6.3mb X				
OXF	64.75	66	eP	39	27.85	-1.2	5.2mb ( 83 obs.)										QIZ	34.13	280	eP	52	51.00	1.6
KAF	65.07	346	eP	39	28.20	-2.5	MARIANA ISLANDS (216)										BJI	34.74	319	eP	52	55.00	0.7
FRU	65.89	309	eP	39	37.00	0.6	Mw 5.5 (HRV).										1.3s	78.00nm		5.1mb			
NUR	66.84	347	eP	39	39.80	-2.3	CENTROID, MOMENT TENSOR (HRV)										36.08	313	iPd	53	06.90	1.4	
KSH	67.73	306	eP	39	49.00	0.8	Data Used: GDSN										0.8s	77.00nm		5.4mb			
	1.0s	10.00nm	4.9mb	L.P.B.: 25S, 29C										S	58	09.00							
Z	20s	0.60um	4.8Msz	Centroid Location:										CTAO	36.28	179	eP	53	07.23	0.1			
N	10s	0.50um		Origin Time 23:46:51.6 0.3										0.6s	36.72nm		5.2mb						
E	10s	0.50um		Lat 16.38N 0.03 Lon 145.71E 0.03										QIS	37.21	189	iPd	53	15.00	0.3			
HFS	68.47	352	eP	39	50.30	-2.0	Dep 544.3 2.3 Half-duration 1.2										XAN	37.29	305	Pd	53	16.20	0.8
	0.4s	2.70nm	4.7mb	Moment Tensor; Scale 10**17 Nm										0.5s	77.00nm		5.6mb						
Z	16s	0.12um	4.2MszX	Mrr=-1.79 0.05 Mtt=-0.06 0.10										GYA	37.47	292	iPd	53	19.00	1.9			
		LR	05	00.00	Mff=1.86 0.10 Mrt=0.11 0.11										0.8s	36.00nm		5.0mb					
SHL	68.98	285	iP	39	55.50	-0.7	Mrf=-0.26 0.10 Mtf=-0.74 0.09										ScP	58	17.00				
	1.0s	27.50nm	5.3mb	Principal Axes:										S	58	29.00							
GUN	70.84	291	P	40	08.20	0.4	T Val= 2.13 Plg= 4 Azm= 71										WB2	37.78	197	iPc	53	19.40	-0.1
KKN	71.29	291	P	40	10.60	0.3	N -0.31 1 341										0.6s	57.30nm		5.4mb			
PKI	71.37	291	P	40	11.00	0.1	P -1.82 86 240										iPcP	55	22.00				
GKN	71.50	292	P	40	11.80	0.3	Best Double Couple:Mo=2.0*10**17										iScP	58	17.20				
DMN	71.52	291	P	40	12.20	0.5	NP1:Strike=162 Dip=41 Slip= -89										eS	58	29.90				
EKA	73.87	1	P	40	26.00	1.3	NP2: 340 49 -91										WRA	37.78	197	P	53	20.00	0.5
	1.9s	70.10nm	5.3mb	ANAT	0.08	139	P	47	52.70	-0.1	HHC	38.16	317	Pd	53	23.80	1.3						
MAIO	78.19	314	eP	40	51.00	1.5						1.0s	81.00nm				5.3mb						
KHC	79.36	351	eP	40	55.00	-0.6	ALMG	1.20	11	P	47	55.00	0.4	BTO	39.07	315	P	53	31.00	1.0			
	1.2s	7.00nm	4.5mb	SAFN	1.21	173	P	47	54.50	-0.1	CD2	40.71	298	iPd	53	43.70	0.4						
		e	41	04.00							0.6s	150.00nm					5.7mb						
GEC2	79.63	350	P	40	56.30	-0.9	PAGN	1.66	4	P	47	57.00	0.9	KMI	40.86	290	Pd	53	46.60	1.8			
	0.6s	0.63nm	3.8mb	PAGV	1.71	5	P	47	56.80	0.6		0.6s	20.00nm				4.8mb						
		e	40	58.70			GUMO	2.90	194	ePd	48	01.00	-0.4	ASPA	41.44	196	iPd	53	49.20	0.1			
		e	41	00.40								0.7s	80.80nm				5.4mb						
		e	41	10.20										iPcP	55	34.40							
WB2	81.04	222	eP	41	03.60	-1.2								iScP	58	31.40							
	0.8s	4.60nm	4.5mb											iS	59	24.00							
WRA	81.04	222	P	41	04.20	-0.6	PJG	2.90	194	eP	48	01.40	0.0	LZH	41.88	306	iPd	53	54.50	1.9			
	0.9s	2.00nm	4.1mb	GUA	2.93	193	ePd	48	01.30	-0.4				1.6s	310.00nm			5.6mb					
HYB	83.18	289	ePc	41	16.00	-0.2									PcP	55	35.00						
POO	85.07	293	eP	41	27.50	1.8	WKYJ	19.88	335	P	50	44.30	-0.1	LOE	41.92	278	eP	53	54.00	1.0			
GBA	86.83	288	P	41	34.00	-0.3	KAGJ	19.91	320	eP	50	45.90	1.3	SMY	42.62	25	eP	53	59.60	1.6			
SLR	146.36	308	iPKPc	48	29.50	-0.1	IIDJ	20.19	342	P	50	47.30	0.0		0.5s	186.90nm			5.9mb				
	1.0s	40.00nm					KAKJ	20.30	347	P	50	47.90	-0.2	DZM	43.35	151	iPd	54	04.50	0.2			
BLF	150.18	307	iPKPc	48	41.10	5.6X	TKSJ	20.35	331	P	50	49.30	0.6	CIT	43.62	332	eP	54	07.00	1.0			
	S.D. = 1.0 on 84 of 88 obs.																						
	JAN 04, 1994 23h 35m 27.20± 0.60s													NST	43.64	276	eP	54	08.30	1.8			
	38.183 N ± 5.1km 23.899 E ± 6.7km													KBR	44.45	273	ePd	54	13.50	0.7			
	DEPTH = 5.0km (geophysicist)													NNT	44.50	271	eP	54	09.70	-3.6X			
	GREECE (364)													BDT	44.53	278	eP	54	12.50	-0.9			
	ML 3.6 (THE). MD 3.3 (ATH).													0.9s	60.50nm			5.1mb					
ATH	0.26	214	ePg	35	32.30	-0.1	MAT	21.10	343	eP	50	53.00	-2.6	MBL	45.09	215	eP	54	17.00	-0.6			
		eSg	35	35.60										45.89	309	iPd	54	24.50	0.6				
AGG	1.49	305	iPbd	35	53.53	-1.1								1.5s	84.00nm			5.0mb					
		eSb	36	14.88			MTMJ	21.25	342	P	50	56.70	-0.4	GTA									
VLI	1.65	208	ePb	35	55.50	-1.4	MDG	21.52	180	eP	51	00.00	0.4		S	00	26.00						
PAIG	1.75	354	iPbc	35	56.97	-1.4	NILJ	21.55	346	P	50	59.80	0.1	WARB	46.18	204	eP	54	26.50	0.5			
		eSb	36	23.20			YONJ	21.62	332	P	51	00.20	-0.1		0.3s	15.00nm			5.1mb				
PRK	2.14	60	ePn	36	06.50	2.5	DAV	21.67	247	eP	51	00.50	-0.4	ADK	46.29	32	eP	54	26.80	0.3			
OUR	2.15	2	iPnc	36	02.85	-1.3	CGP	21.88	251	eP	50	58.00	-4.8X		0.7s	139.00nm			5.6mb				
		eSn	36	31.00			MAP	21.88	257	ePd	51	03.00	0.2	ARMA	46.92	173	iPd	54	31.10	-0.6			
LIT	2.21	331	ePn	36	04.28	-0.7	SHNJ	21.93	326	P	51	03.00	-0.1		0.5s	20.00nm			4.9mb				
		eSn	36	33.12			YAMJ	22.22	348	P	51	06.20	0.4										
THE	2.55	344	ePn	36	08.84	-1.0	OFUJ	22.84	352	P	51	11.70	0.3	YAK	46.92	350	iPd	54	30.80	-0.3			
		eSn	36	41.68			LAT	22.97	176	eP	51	06.00	-6.7X										
VLS	2.61	271	ePn	36	12.20	1.5	AOMJ	24.49	350	eP	51	27.40	1.3	BOD	47.53	338	iPd	54	35.10	-0.7			
SOH	2.67	351	ePn	36	11.88	0.2	PMG	25.70	176	eP	51	36.00	-1.1		1.3s	127.00nm			5.3mb				
		eSn	36	44.60			HOOJ	25.96	356	eP	51	40.50	1.4	ZAK	47.93	325	iPd	54	39.30	0.3			
KZN	2.69	323	ePn	36	12.50	0.5	MRRJ	26.21	352	eP	51	42.40	1.0		1.5s	130.00nm			5.2mb				
VAM	2.78	175	ePn	36	14.00	0.8	KUSJ	26.61	359	eP	51	45.00	0.2										
SRS	2.94	355	ePn	36	13.84	-1.6	SSE	26.62	308	iPc	51	45.00	-0.1		e	00	56.70						
		eSn	36	50.04										e	55	56.00							
GRG	3.00	338	ePn	36	17.36	1.0	ASAJ	27.73	355	eP	51	55.10	0.5	STK	48.17	185	iPd	54	41.10	0.1			
		eSn	36	52.46			NJ2	28.83	308	Pc	52	05.00	0.7		0.5s	21.70nm			4.9mb				
KNT	3.07	346	ePn	36	16.72	-0.6	KKM	30.57	254	ePc	52	25.50	5.9X	IRK	48.34	327	iPd	54	42.00	-0.1			
		eSn	36	52.32			YSS	30.61	356	eP	52	19.00	-0.4	FORT	49.86	200	eP	54	54.00	0.4			



MEEK	50.19	212	eP	54	55.50	-0.6		0.9s	60.90nm	5.1mb	NUR	90.01	335	iP	58	49.40	-1.4			
BWA	50.62	177	eP	55	04.20	5.0X	RUV	73.22	112	iPd	57	26.80	0.8		0.5s	24.80nm	5.4mb			
SHL	50.69	290	eP	55	00.00	-0.1		0.9s	104.50nm	5.4mb	SRU	90.15	49	iP	58	52.15	0.0			
			eS	01	32.50		SVE	73.69	325	iPd	57	28.80	0.7	PV09	91.39	49	eP	58	58.03	0.1
LSA	51.40	295	iPd	55	07.00	1.4		2.0s	240.00nm	5.4mb	PV10	91.50	49	iP	58	58.36	-0.1			
	0.8s	87.00nm				5.2mb	ARU	74.85	325	iPd	57	34.50	-0.1	PV08	91.71	49	eP	58	59.70	0.2
		S	01	44.00				0.7s	100.00nm	5.4mb	MNK	92.33	328	eP	58	59.00	-2.5			
CAN	51.55	176	iPd	55	05.80	-0.2	MBC	75.38	14	ePd	57	37.90	0.8	TUC	92.40	55	eP	59	04.13	1.6
		i	55	11.90				0.7s	25.00nm	4.8mb		1.1s	17.00nm				5.0mb			
		i	55	25.90			MAIO	77.40	304	iPd	57	50.00	0.9	RSSD	92.62	43	iP	59	02.98	-0.5
CNB	51.56	176	iPd	55	06.00	-0.1		0.9s	23.44nm	4.6mb		0.8s	25.75nm				5.4mb			
	0.5s	27.00nm				4.9mb	ASH	77.98	306	eP	57	52.70	0.7	UPP	93.19	337	iP	59	03.40	-2.0
UER	53.69	323	iPd	55	20.50	-0.6	ONR	78.63	44	P	57	55.90	0.7	GOL	93.60	47	eP	59	08.47	0.4
	1.2s	80.00nm				4.9mb	MCW	78.88	42	eP	57	57.13	0.6		0.7s	14.82nm		5.2mb		
		iS	02	13.50			BMW	79.08	45	eP	57	58.10	0.4	GLD	93.68	47	eP	59	09.31	0.9
KLB	54.70	209	eP	55	27.50	-0.9	KMOR	79.08	46	P	57	58.56	0.8		1.8s	90.04nm		5.6mb		
WMQ	55.75	312	iPd	55	36.40	0.6	GMW	79.15	44	eP	57	58.65	0.7	HFS	94.46	338	eP	59	09.10	-2.2
	1.0s	98.00nm				5.1mb	RNO	79.27	47	P	57	59.68	0.9		0.4s	13.30nm		5.4mb		
		S	02	42.00			JCW	79.57	43	P	58	00.11	0.0	ULM	94.53	34	eP	59	13.50	1.8
MUN	55.76	210	iPd	55	35.30	-0.5	KMPM	79.76	51	eP	58	02.50	1.1	FRB	95.84	15	eP	59	16.00	-1.4
	1.0s	60.00nm				4.9mb	SHW	79.81	45	eP	58	02.51	0.9		0.7s	3.00nm		4.6mb		
GUN	56.01	293	P	55	38.40	0.2	RMW	79.82	44	eP	58	02.24	0.7	CFR	96.57	321	eP	59	23.00	2.0
NWAO	56.06	209	eP	55	37.10	-0.8	SSOR	79.96	46	P	58	02.57	0.2	VRI	97.06	322	eP	59	23.00	-0.3
		eS	56	27.10			LON	79.97	44	eP	58	02.28	-0.1	MLR	97.73	322	eP	59	25.00	-1.5
SDN	56.39	34	eP	55	38.40	-1.5	YKA	80.04	28	eP	58	02.20	0.0	LTX	99.19	56	eP	59	33.88	0.5
	0.7s	179.09nm				5.5mb		0.7s	60.10nm	5.1mb	CLL	100.90	332	e(Pdiff)	59	39.00	-1.2			
PKI	56.44	292	P	55	40.80	-0.4	ASR	80.26	45	P	58	03.92	0.0	PRU	101.10	330				



SIV	17.17	38	P	53	16.60	0.1
LIC	73.54	73	P	01	02.27	13.1X
	0.7s		2.00nm			
KIC	73.85	73	P	00	49.30	-1.7
LKO	74.93	69	P	00	55.78	-1.5
	0.6s		2.50nm			4.4mb
WRA	124.25	210	PKP	08	15.80	0.9
	0.4s		0.90nm			
S.D. = 0.9 on 15 of 19 obs.						
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&	JAN	05, 1994	01h 14m	42.03s		
	67.699 N			147.078 W		
	DEPTH = 11.7km					
	4.9mb ( 34 obs.)			4.7Msz ( 2 obs.)		
	NORTHERN ALASKA			(676)		
	<AEIC>. ML 4.8 (AEIC), 5.5					
	(PMR). Felt at Fort Yukon and as					
	far away as Fairbanks.					
BM3	0.99	105	eP	15	00.78	0.1
FYU	1.35	147	iP	15	06.07	-0.6
PRP	2.28	163	iP	15	19.71	-0.5
GLM	2.73	183	iP	15	26.31	-0.2
MDM	2.79	190	eP	15	27.12	-0.2
FBA	2.83	186	iPd	15	27.43	-0.4
IL1	2.94	178	eP	15	28.92	-0.5
			eS	16	08.00	
ILB	2.94	178	eP	15	28.91	-0.5
			eS	16	08.11	
MLY	3.06	211	eP	15	31.86	0.7
IMA	3.08	241	eP	15	32.72	1.3
CCB	3.08	186	eP	15	30.89	-0.5
IM3	3.15	240	eP	15	34.19	1.8
NEA	3.24	195	eP	15	33.61	-0.1
WRH	3.27	188	eP	15	33.47	-0.6
HDA	3.31	179	eP	15	33.87	-0.8
BWN	3.68	197	eP	15	39.26	-0.6
DJE	3.73	170	eP	15	40.04	-0.7
DDM	3.96	172	eP	15	43.25	-0.7
MCK	4.06	192	eP	15	45.02	-0.2
DOT	4.25	162	eP	15	47.43	-0.7
THY	4.34	172	eP	15	48.31	-1.0
			eS	16	42.12	
RND	4.37	191	eP	15	49.66	-0.2
			eS	16	42.86	
KTH	4.46	203	eP	15	50.67	-0.3
TRF	4.47	199	eP	15	50.79	-0.5
DHY	4.64	182	eP	15	53.71	-0.1
TMW	4.71	157	eP	15	53.17	-1.4
PAX	4.80	171	iP	15	54.99	-0.9
HUR	4.86	194	P	15	57.70	1.0
BRW	4.96	321	P	15	59.50	1.5
			S	16	19.10	
INK	5.13	77	eP	16	00.50	0.0
BC3	5.15	152	eP	15	58.90	-1.9
			eS	17	01.07	
CUT	5.49	196	eP	16	05.07	-0.4
TOA	5.63	176	P	16	07.40	-0.2
TZL	5.72	172	iP	16	08.49	-0.3
SCM	5.89	181	eP	16	10.96	-0.3
SML	5.94	186	eP	16	10.61	-1.3
GHO	6.00	188	eP	16	11.79	-1.1
SKT	6.05	200	eP	16	13.02	-0.4
TTA	6.07	222	eP	16	13.47	-0.3
			eS	17	50.71	
PWA	6.19	192	P	16	15.10	-0.3
PLRM	6.20	189	eP	16	14.56	-0.9
PMR	6.20	189	eP	16	14.42	-1.0
KLU	6.25	175	eP	16	15.55	-0.8
KNK	6.34	186	eP	16	18.20	0.6
GLB	6.44	166	eP	16	17.56	-1.4
SUA	6.46	196	eP	16	19.58	0.3
CFI	6.55	183	eP	16	20.13	-0.3
PMS	6.57	191	P	16	22.00	1.2
VLZ	6.60	177	eP	16	19.72	-1.5
VZW	6.67	178	eP	16	21.09	-1.2
NCG	6.69	201	eP	16	21.88	-0.7
CRP	6.82	201</				

CVA	7.21	175	eP	16	28.03	-1.6
TGL	7.21	163	eP	16	28.52	-1.3
MPA	7.31	189	eP	16	30.46	-0.6
HIN	7.34	178	eP	16	29.81	-1.7
SLKM	7.35	192	eP	16	32.10	0.4
HMT	7.49	169	eP	16	32.85	-0.9
DFR	7.54	202	eP	16	33.29	-1.2
SWW	7.57	213	eP	16	33.84	-1.0
REF	7.64	201	eP	16	35.04	-0.9
RDW	7.66	202	eP	16	36.21	-0.1
RED	7.72	201	eP	16	37.48	0.5
SNH	7.77	164	eP	16	37.39	-0.3
CYK	7.91	163	eP	16	39.31	-0.1
ANM	8.04	256	(P)	16	43.58	2.2
			eSg	19	00.22	
CHX	8.10	158	eP	16	41.55	-0.7
BRLK	8.14	194	eP	16	40.97	-1.8
PCA	8.20	155	eP	16	42.71	-0.9
CNPM	8.41	195	eP	16	45.55	-1.0
BCPM	8.44	154	eP	16	43.77	-3.1
PNL	8.74	153	eP	16	49.33	-1.8
MCNL	9.14	204	eP	16	55.94	-0.6
CDD	9.28	202	eP	16	58.65	0.1
SYI	9.43	197	eP	17	00.79	0.2
KDC	10.29	196	(P)	17	11.97	-0.4
MBC	11.96	33	eP	17	35.00	0.0
	0.7s		17.00nm			5.4mb
YKA	14.50	96	eP	18	04.60	-4.1
	0.7s		18.60nm			4.8mb
RES	17.59	44	eP	18	47.00	-1.0
	0.7s		10.00nm			4.1mb
LON	24.71	135	eP	20	06.13	2.2
VGB	26.13	135	eP	20	19.68	2.4
ULM	30.44	99	eP	21	03.50	7.4
FRB	30.50	59	eP	20	58.50	2.0
	0.9s		5.00nm			4.4mb
HVU	31.86	127	eP	21	10.06	1.2
BW06	31.97	122	eP	21	11.12	1.2
	1.0s		13.32nm			4.8mb
DAG	32.33	20	eP	21	16.00	3.6
	0.6s		6.67nm			4.7mb
RSSD	32.63	114	eP	21	16.84	1.2
	0.8s		7.30nm			4.7mb
KVN	32.87	136	eP	21	20.40	2.7
YAK	33.25	301	eP	21	25.10	4.6
	Z	16s	1.60um			4.8MsZX
	N	15s	0.80um			
	E	15s	0.90um			
DUG	33.30	128	ePd	21	23.30	1.9
	0.9s		26.65nm			5.2mb
ARN	33.61	142	(P)	21	25.30	1.3
BONR	33.84	137	eP	21	29.02	2.7
TNP	34.01	135	eP	21	29.66	2.0
	1.2s		39.33nm			5.2mb
EMUT	34.26	126	eP	21	31.66	1.8
SRU	34.99	126	eP	21	38.19	2.1
TFNV	35.34	135	eP	21	40.75	1.8
	0.9s		14.93nm			4.9mb
ARUT	35.34	131	eP	21	41.46	2.4
PV09	35.99	125	eP	21	46.28	1.6
GLD	36.11	119	eP	21	48.72	3.1
	1.1s		22.45nm			4.9mb
PV10	36.13	125	eP	21	47.87	2.1
GSC	36.74	136	eP	21	53.58	2.8
PEC	37.98	138	eP	22	02.44	1.3
	1.0s		18.64nm			4.8mb
ALQ	40.09	124	eP	22	21.26	2.4
	1.0s		10.04nm			4.5mb
ACO	40.93	114	iPd	22	26.80	1.3
TUC	41.22	130	ePd	22	31.90	3.9
	0.9s		9.17nm			4.5mb
TUL	42.82	111	iPd	22	42.80	1.8
WMOK	42.83	115	ePd	22	4	



OBN	57.49	357	eP	24	40.50	7.9
	1.5s		28.00nm			5.1mb
BRG	60.89	14	e(P)	25	05.40	9.1
WMQ	61.42	318	P	25	08.20	8.1
	1.0s		5.40nm			4.7mb
Z	20s		0.54um			4.7MsZ
			pP	25	14.00	19kmX
PRU	61.83	13	eP	25	13.00	10.4
			e	25	20.50	
GTA	62.07	306	eP	25	09.50	4.9
	1.0s		4.00nm			4.6mb
Z	16s		1.03um			5.1MsZ
E	16s		0.47um			
KHC	62.59	14	eP	25	12.00	4.2
	1.1s		8.00nm			4.8mb
			e	25	47.00	
CDF	62.61	19	eP	25	14.40	6.4
	1.3s		16.25nm			5.1mb
GEC2	62.88	14	P	25	14.20	4.4
	1.0s		1.03nm			4.0mb
			e	25	33.40	
HAU	62.89	20	eP	25	17.30	7.5
	1.0s		8.20nm			4.9mb
LOR	63.28	22	eP	25	19.60	7.3
	1.2s		21.40nm			5.2mb
SSF	63.43	22	eP	25	19.70	6.4
	1.0s		10.40nm			5.0mb
LBF	63.58	22	eP	25	21.40	7.1
ZST	63.82	12	eP	25	26.00	10.2
LZH	63.83	301	eP	25	22.00	5.7
	1.0s		24.00nm			5.3mb
Z	15s		0.68um			5.0MsZ
N	10s		0.27um			
LSF	63.93	24	eP	25	24.10	7.5
	0.9s		17.05nm			5.2mb
TCF	64.00	23	eP	25	23.50	6.4
XAN	64.00	296	eP	25	28.50	11.2
	Z	16s	1.01um			5.1MsZ
LPG	65.41	20	eP	25	33.30	6.8
	1.3s		12.25nm			4.9mb
CD2	68.61	299	eP	25	51.00	4.4
GYA	71.71	295	P	26	10.60	4.9
	Z	22s	0.50um			4.7MsZ
GUN	76.88	314	P	26	41.00	5.2
	0.8s		23.00nm			5.3mb
GKN	77.14	315	P	26	42.20	5.3
	0.8s		15.00nm			5.1mb
KKN	77.16	314	P	26	42.20	5.0
	0.6s		9.00nm			5.0mb
PKI	77.34	314	PKP	26	43.00	4.7
DMN	77.38	314	P	26	41.40	3.0
	0.6s		13.00nm			5.2mb
	150 obs. associated					
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%	JAN	05,	1994	02h	34m	58.80± 1.93s
	49.436	N	±18.4km			0.966 E ± 5.1km
	DEPTH = 10.0km (geophysicist)					
	FRANCE					(538)
	ML 2.7 (LDG).					
LDF	1.11	221	Pg	35	20.50	0.9
			Sg	35	36.10	
FLN	1.17	235	Pg	35	20.70	0.1
			Sg	35	36.50	
GRR	1.60	230	Pn	35	27.00	-0.1
			Pg	35	28.60	
			Sg	35	50.20	
LPF	1.93	224	Pn	35	31.30	-0.7
			Pg	35	34.90	
			Sn	35	55.30	
			Sg	36	00.90	
LOR	2.90	137	Pn	35	46.70	0.8
			Pg	35	55.10	
			Sn	36	20.40	
			Sg	36	32.60	
SSF	2.92	144	Pn	35	46.80	0.7
			Sg	36	33.20	
MFF	2.93	195	Pn	35	46.60	0.3

			Pg	36	02.70	
			Sg	36	44.30	
MAF	3.39	161	Pn	35	52.70	-0.2
			Sg	36	49.50	
HAU	3.84	110	Pn	35	58.90	-0.3
	S.D. = 0.7	on	13	of	13 obs.	
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* JAN 05, 1994 02h 37m 49.09± 2.45s						
41.422 N ±19.7km 23.045 E ± 6.7km						
DEPTH = 10.0km (geophysicist)						
GREECE-BULGARIA BORDER REGION (363)						
ML 2.7 (THE).						
KNT	0.28	203	iPg	37	54.78	-0.2
			eSg	37	59.02	
VAY	0.37	254	iPg	37	57.00	0.3
	0.2s	20.00nm				
			iSg	38	01.40	
SRS	0.51	126	iPg	37	58.50	-1.0
			eSg	38	07.02	
SOH	0.64	159	iPg	38	01.45	-0.6
			eSg	38	10.54	
GRG	0.67	226	iPg	38	01.82	-0.7
			eSg	38	11.90	
THE	0.79	184	ePg	38	04.70	0.2
			iSg	38	16.29	
OUR	1.30	147	ePb	38	14.34	1.2
			eSb	38	31.82	
PAIG	1.57	162	ePb	38	17.70	0.7
	S.D. = 0.9	on	8	of	8 obs.	
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& JAN 05, 1994 03h 21m 39.62s						
65.749 N 155.051 W						
DEPTH = 14.1km						
NORTHERN ALASKA (676)						
<AEIC>. ML 2.9 (AEIC).						
IM3	0.58	66	eP	21	50.89	-0.2
			eS	21	59.87	
IMA	0.65	60	iPc	21	51.83	-0.5
			eS	22	01.41	
MLY	1.94	110	eP	22	12.71	0.2
			eS	22	37.65	
NEA	2.78	112	eP	22	24.97	0.5
KTH	2.83	139	eP	22	27.34	2.1
TTA	2.86	189	(P)	22	27.64	2.0
			eS	23	07.84	
MDM	2.97	102	eP	22	27.74	0.7
TRF	3.09	136	eP	22	29.03	0.1
FBA	3.16	102	eP	22	29.89	0.1
WRH	3.21	110	eP	22	31.15	0.6
CCB	3.25	107	eP	22	31.14	0.1
GLM	3.30	100	eP	22	32.15	0.3
ILB	3.57	102	eP	22	35.49	-0.2
			eS	23	18.60	
IL1	3.57	102	eP	22	35.52	-0.1
			eS	23	21.18	
PRP	3.96	89	eP	22	41.49	0.3
			eS	23	27.70	
FYU	4.07	74	eP	22	44.58	1.9
SKT	4.09	156	eP	22	44.14	1.1
BM3	4.49	63	eP	22	48.71	0.0
CGLM	4.66	162	eP	22	49.51	-1.8
SVW	4.67	183	eP	22	51.30	0.0
TOA	5.36	129	eP	23	04.80	3.8
SLKM	5.70	155	eP	23	02.24	-3.6
22 obs. associated						
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* JAN 05, 1994 03h 25m 47.73± 1.40s						
3.154 N ± 7.7km 126.830 E ±13.5km						
DEPTH = 71.5 ± 13.6 km						
4.9mb ( 13 obs.)						
TALAUD ISLANDS, INDONESIA (263)						
DAV	4.10	342	eP	26	49.50	0.1
CTB	4.80	327	ePc	27	04.00	4.9X
			eS	28	03.00	
BIP	5.07	353	eP	27	01.50	-1.5
			eS	28	02.00	
CVP	15.27	342	eP	29	23.00	2.4
PIP	16.26	338	ePd	29	37.00	3.9X
WB2	24.11	162	eP	30	56.90	-1.1
	0.6s	22.00nm				4.8mb
			eS	35	15.70	
MBL	25.12	196	eP	31	08.90	1.3
ASPA	27.53	166	eP	31	30.10	0.3
	0.7s	7.30nm				4.4mb

CHTO	31.41	302	eP	32	03.90	-0.5
XAN	34.97	334	P	32	33.50	-1.6
	0.5s	9.00nm				5.0mb
TIY	36.84	341	eP	32	46.80	-4.1X
Z	26s	0.71um				4.3MsZ
BJI	37.97	347	eP	33	01.00	0.8
	1.0s	11.00nm				4.7mb
SNY	38.61	356	Pc	33	06.50	0.9
	1.0s	13.00nm				4.8mb
LZH	39.05	330	eP	33	09.50	0.0
	1.6s	33.00nm				5.0mb
Z	20s	0.69um				4.5MsZ
HHC	39.97	342	P	33	18.00	1.0
	1.2s	7.00nm				4.5mb
CN2	40.49	358	eP	33	21.40	0.3
ARMA	40.93	146	eP	33	25.10	0.1
	0.8s	12.00nm				4.8mb
LSA	42.89	312	P	33	42.60	1.1
	1.0s	18.00nm				4.8mb
GTA	43.64	329	eP	33	52.00	5.0X
Z	18s	0.51um				4.5MsZ
GUN	46.14	306	P	34	07.10	-0.4
	0.6s	25.00nm				5.3mb
PKI	46.38	306	P	34	08.30	-1.1
	0.7s	10.00nm				4.9mb
KKN	46.58	306	P	34	10.40	-0.4
DMN	46.64	306	P	34	10.70	-0.6
GKN	47.18	306	P	34	15.00	-0.5
	0.6s	13.00nm				5.0mb
GBA	49.86	285	P	34	37.00	0.9
WMQ	53.25	325	P	35	01.40	0.1
Z	20s	0.32um				4.4MsZ
NDI	53.52	304	eP	35	03.00	-0.4
YAK	58.76	2	eP	35	39.30	-1.0
	1.0s	30.00nm				5.4mb
OBN	87.57	325	eP	38	29.00	0.0
		i		38	31.00	
KIC	130.73	281	PKP	44	55.72	2.3X
	0.6s	7.50nm				
LKO	130.95	285	PKP	44	56.13	2.3X
	0.8s	5.50nm				
TIC	130.96	282	PKP	44	56.16	2.3X
	0.5s	1.00nm				
LIC	131.04	281	PKP	44	56.22	2.3X
	0.6s	2.50nm				
LPB	160.20	133	ePKP	45	44.00	2.7X
LPBZ	160.33	133	PKP	45	46.00	4.3X
		i		46	25.90	
S.D. = 1.0 on 25 of 35 obs.						
-----						
? JAN 05, 1994	03h 30m	06.60±	0.93s			
31.988 S	± 8.0km	117.332 E	± 9.3km			
DEPTH = 10.0km	(geophysicist)					
3.2mb ( 1 obs.)						
WESTERN AUSTRALIA				(590)		
KLB	0.54	43	eP	30	17.50	0.0
			eS	30	22.00	
NWAO	0.94	185	eP	30	24.50	0.0
			eS	30	36.90	
MUN	0.95	270	eP	30	24.80	0.0
			eS	30	37.60	
BAL	1.48	339	eP	30	33.20	0.0
			eS	30	52.60	
WRA	19.40	56	P	34	40.80	5.0X
	0.5s	0.80nm				3.2mb
S.D. = 0.1 on 4 of 5 obs.						
-----						
& JAN 05, 1994	03h 37m	25.61s				
48.515 N		119.917 W				
DEPTH = 0.1km						
WASHINGTON				( 29)		



			PcP	33	04.00	
			ScP	35	55.00	
			S	36	10.00	
			PcS	36	55.00	
			sS	39	12.00	
			ScS	40	06.00	
QIS	37.47	189	eP	31	03.00	0.2
PET	37.68	13	eP	31	05.00	0.8
	1.5s	400.00nm				5.8mb
HHC	37.99	316	P	31	07.30	0.2
	1.0s	190.00nm				5.6mb
			PP	32	50.00	
			S	36	19.00	
WB2	38.03	197	iPc	31	07.20	-0.2
	0.6s	45.50nm				5.2mb
			iPcP	33	06.70	
			iScP	35	57.00	
			eS	36	16.30	
WRA	38.04	197	P	31	07.60	0.1
	0.6s	28.50nm				5.0mb
BTO	38.91	315	iPc	31	15.00	0.5
	1.0s	120.00nm				5.4mb
			sP	34	02.00	
			S	36	26.50	
CD2	40.61	298	iPc	31	28.70	0.5
	0.8s	470.00nm				6.1mb
			iPcP	33	15.00	
			PP	33	21.50	
			eScP	36	02.00	
			iS	36	54.50	
			iPcS	37	00.00	
KMI	40.80	289	Pc	31	30.00	0.0
	1.1s	460.00nm				5.9mb
			sP	34	20.00	
			S	37	00.00	
LZH	41.75	306	iPc	31	39.00	1.7
	1.5s	850.00nm				6.1mb
			pP	33	20.00	569kmX
			S	37	12.00	
			SS	40	33.00	
LOE	41.91	278	eP	31	38.00	-0.6
CIT	43.41	332	eP	31	52.00	2.0
			e	37	36.60	
DZM	43.57	151	iPd	31	51.90	0.3
NST	43.64	275	iPc	31	53.20	1.1
CHTO	44.42	280	iPc	31	58.70	0.5
	1.0s	150.00nm				5.5mb
			e	36	23.00	
BDT	44.52	278	eP	31	59.00	0.1
	0.6s	164.30nm				5.7mb
SNG	44.95	263	iPc	32	04.00	1.7
	0.9s	218.49nm				5.7mb
MBL	45.32	215	iPd	32	04.50	-0.4
	0.5s	21.00nm				4.9mb
IPM	45.34	260	ePc	32	06.50	1.2
GTA	45.75	309	iPc	32	08.70	0.4
	1.0s	160.00nm				5.5mb
			PcP	33	33.20	
			pP	33	54.50	590km
			sP	35	00.00	
			ScP	36	27.50	
			S	38	07.00	
			ScS	40	56.00	
			sS	41	22.00	
ADK	46.06	32	ePd	32	10.30	0.1
WARB	46.43	204	iPd	32	14.40	1.0
	0.5s	26.00nm				5.0mb
YAK	46.67	350	iPc	32	14.00	-0.8
	0.8s	340.00nm				5.9mb
			e	33	57.00	563kmX
			ePPP	34	18.00	
			iS	38	18.00	
			ePS	38	38.00	
			iSS	40	57.00	
ARMA	47.17	173	iPd	32	18.30	-0.8
	0.4s	8.00nm				4.6mb
			i	33	38.40	402kmX
BOD	47.30	338	iPc	32	19.20	-0.4
	1.0s	54.00nm				5.0mb
ZAK	47.74	324	iPc	32	23.20	0.2
	1.4s	106.00nm				5.2mb
			e	34	22.00	698km



BWA	50.88	177	iPd	32	46.30	-0.1
LSA	51.31	295	iPc	32	51.40	1.1
	1.0s	220.00nm			5.5mb	
		S		39	26.00	
		ScS		41	35.00	
CAN	51.80	176	iPd	32	52.70	-0.3
CNB	51.82	176	iPd	32	53.20	0.0
	0.7s	40.00nm			5.0mb	
COOL	52.82	207	iPd	32	58.30	-2.1
	0.5s	17.00nm			4.7mb	
DHH	53.46	76	eP	33	05.33	0.2
UER	53.50	323	iPc	33	04.00	-1.0
	1.2s	64.00nm			4.9mb	
		iS		39	52.50	
MRWA	53.86	212	iPd	33	06.20	-1.5
	0.8s	100.00nm			5.2mb	
TOO	53.95	180	iPd	33	08.10	-0.1
	0.6s	66.00nm			5.1mb	
BAL	54.63	211	iPd	33	11.80	-1.3
KLB	54.94	209	eP	33	13.50	-1.7
MHA	55.34	77	iP	33	18.83	0.6
WMQ	55.60	312	iPc	33	20.00	0.1
	1.2s	120.00nm			5.1mb	
		S		40	21.50	
GUN	55.94	293	Pc	33	22.80	0.0
MUN	56.00	210	eP	33	21.00	-1.5
	0.9s	56.00nm			4.9mb	
SDN	56.16	34	ePd	33	22.30	-1.1
	0.8s	808.60nm			6.1mb	
NWAO	56.30	209	iPc	33	23.40	-1.2
PKI	56.37	292	Pc	33	25.20	-0.5
KKN	56.47	293	Pc	33	25.80	-0.2
DMN	56.64	292	Pc	33	27.20	-0.5
GKN	57.03	293	Pc	33	29.80	-0.2
RKG	57.77	208	eP	33	34.00	-0.6
ANM	58.08	23	eP	33	35.84	-0.5
SVW	60.61	28	iP	33	53.15	0.0
	0.6s	193.29nm			5.6mb	
TTA	61.08	26	iP	33	55.70	-0.6
	0.7s	46.93nm			4.9mb	
AUP	61.10	31	(P)	33	55.35	-1.1
KDC	61.12	33	eP	33	55.57	-0.9
	0.9s	53.23nm			4.9mb	
CP2	62.21	29	eP	34	02.66	-1.1
CRP	62.26	29	eP	34	02.42	-1.5
SLKM	62.96	30	eP	34	06.51	-1.8
IMA	63.15	23	iP	34	08.99	-0.6
	0.8s	34.67nm			4.8mb	
PWA	63.41	29	ePd	34	09.70	-1.4
PMS	63.46	29	ePd	34	10.50	-1.0
NDI	63.51	294	eP	34	11.50	-0.9
PMR	63.74	29	iP	34	11.67	-1.5
	0.7s	383.13nm			5.9mb	
HYB	63.82	282	iPc	34	13.60	-0.8
	1.0s	100.00nm			5.2mb	
		e		34	27.50	49kmX
		eS		42	02.00	
KSH	63.99	306	P	34	16.00	0.6
	0.8s	40.00nm			4.9mb	
BRW	64.19	18	eP	34	16.26	0.4
MID	64.64	32	eP	34	19.10	0.3
FRU	65.01	310	iPc	34	22.00	0.4
	1.6s	80.00nm			4.9mb	
		e		36	24.00	616kmX
		i		42	18.00	
COL	65.14	26	ePd	34	20.34	-1.6
	0.6s	26.53nm			5.2mb	
FBA	65.14	26	eP	34	20.42	-1.5
	0.7s	50.42nm			5.1mb	
KLU	65.22	29	iP	34	22.15	-0.5
TOA	65.23	29	ePd	34	22.70	0.1
RAR	65.44	123	(P)	34	24.62	0.2
	1.0s	54.77nm			5.0mb	
GBA	65.62	278	Pc	34	24.60	-1.1
	0.9s	15.00nm			4.5mb	
KOD	66.34	274	iP	34	30.50	0.0
	1.0s	45.00nm			4.9mb	
BALM	66.86	30	iP	34	32.00	-0.7
SIT	70.23	35	eP	34	52.63	0.0
	1.0s	42.54nm			4.9mb	
INK	71.26	23	ePd	34	58.00	-0.5
	0.9s	87.00nm			5.3mb	
AFR	72.12	115	iPd	35	05.70	1.4
	0.7s	208.10nm			5.8mb	
PPT	72.31	115	iPd	35	06.60	1.2
	1.4s	365.90nm			5.7mb	
PAE	72.34	115	iPd	35	06.80	1.2

	0.7s	80.90nm			5.4mb
PPN	72.42	115 iPd	35	07.30	1.3
	0.9s	74.00nm			5.2mb
TVO	72.68	115 iPd	35	08.90	1.3
	1.2s	263.00nm			5.6mb
PMO	72.76	112 iPd	35	08.80	0.8
	1.0s	230.40nm			5.7mb
TPT	73.00	112 iPd	35	10.10	0.8
	0.8s	101.00nm			5.4mb
VAH	73.09	112 iPd	35	10.40	0.6
	1.0s	120.40nm			5.4mb
RUV	73.29	112 iPd	35	11.70	0.8
	1.1s	194.40nm			5.5mb
SVE	73.49	325 ePc	35	11.50	0.0
	1.4s	140.00nm			5.3mb
ARU	74.66	325 iPc	35	18.00	0.1
	0.8s	70.00nm			5.2mb
		e	38	13.00	
		iS	44	04.00	
		ePS	44	22.00	
		e	44	30.00	
MBC	75.12	14 ePd	35	21.00	0.8
	0.7s	34.00nm			5.0mb
ASH	77.85	306 eP	35	35.50	-0.2
		e	44	41.00	
		e	44	49.50	
ONR	78.43	44 P	35	39.17	0.6
MCW	78.67	43 eP	35	40.16	0.3
BMW	78.88	45 iP	35	41.71	0.7
KMOR	78.88	46 P	35	41.16	0.1
GMW	78.94	44 iP	35	42.16	0.9
RNO	79.08	47 P	35	42.65	0.5
JCW	79.36	43 P	35	43.38	-0.1
KMPM	79.58	51 eP	35	45.89	1.1
FHC	79.59	51 eP	35	46.14	1.4
	1.0s	166.05nm			5.4mb
RMW	79.61	44 eP	35	45.21	0.4
SHW	79.61	45 eP	35	45.83	0.9
SSOR	79.76	46 P	35	45.83	0.1
LON	79.77	44 P	35	45.21	-0.4
YKA	79.80	28 eP	35	45.50	0.2
	0.8s	83.50nm			5.2mb
ASR	80.06	45 P	35	46.79	-0.4
VBEM	80.32	46 P	35	48.34	-0.3
EBG	80.56	44 P	35	49.68	0.0
WDC	80.71	50 ePd	35	51.12	0.6
	1.1s	124.42nm			5.3mb
CROR	80.75	46 P	35	50.56	-0.2
VGB	80.76	45 iP	35	51.24	0.5
WTV	80.77	43 P	35	50.27	-0.5
LBFM	81.00	50 iP	35	52.90	0.6
VIPM	81.12	46 P	35	52.93	0.1
SAW	81.13	43 P	35	52.15	-0.4
NTYM	81.15	53 eP	35	52.55	-0.2
WAH2	81.27	44 P	35	53.37	0.1
RES	81.40	14 ePd	35	53.40	0.0
	0.8s	46.00nm			5.1mb
JBO	81.42	45 P	35	54.12	0.0
LMEM	81.44	50 eP	35	54.97	0.5
MIN	81.46	51 ePd	35	54.45	-0.1
	0.9s	100.00nm			5.3mb
BKS	81.60	53 ePd	35	55.56	0.4
	0.9s	140.00nm			5.5mb
ORV	81.74	51 ePd	35	55.93	0.2
	1.1s	150.00nm			5.4mb
STAN	81.77	54 ePd	35	56.38	0.4
	1.2s	260.00nm			5.6mb
HMR	81.86	53 eP	35	57.51	1.1
DPW	81.87	43 eP	35	56.64	0.3
COE	82.19	54 iP	35	58.85	0.7
MHC	82.19	53 ePd	35	58.69	0.4
	1.2s	160.00nm			5.4mb
ARN	82.27	53 iP	35	59.07	0.5
LNOR	82.36	45 P	35	58.75	-0.1
NEW	82.46	42 iPc	35	59.42	0.2
	0.9s	122.06nm			5.4mb
SAO	82.49	54 eP	35	59.89	0.3
	0.8s	34.40nm			4.9mb
CMB	82.97	53 eP	36	02.35	0.3
	0.9s	100.00nm			5.4mb
PHAM	83.56	55 eP	36	03.94	-1.0
KEV	83.83	342 eP	36	05.18	-0.4
	0.6s	42.62nm			5.2mb
BCH	83.98	55 iP	36	07.79	0.6
MMPM	84.12	53 eP	36	08.39	0.3
MEMM	84.17	53 eP	36	08.78	0.9
KVN	84.41	51 iP	36	09.69	0.4

MTUM	84.55	53	iP	36	10.44	0.4
ABL	84.75	55	eP	36	11.27	0.2
SDF	85.29	340	iP	36	12.00	-0.7
TNP	85.36	52	iP	36	14.20	0.3
	0.8s	74.54nm				5.4mb
MOS	86.13	327	eP	36	16.00	-0.9
		e	38	24.00		595km
		e	39	19.00		
		e	39	44.00		
SSK	86.15	56	eP	36	17.72	0.0
LRM	86.25	43	iPd	36	18.10	0.0
		e	38	31.40		627kmX
DAG	86.28	356	iPc	36	16.30	-1.0
	0.7s	35.62nm				5.2mb
TPNV	86.43	53	iPd	36	19.42	0.3
	0.8s	104.82nm				5.6mb
GSC	86.51	54	iP	36	19.85	0.5
PEC	86.66	56	iP	36	20.03	0.0
	0.7s	126.03nm				5.8mb
OBN	86.92	327	iPd	36	19.80	-0.9
	1.5s	126.00nm				5.4mb
PTI	87.32	46	eP	36	23.89	0.7
HVU	87.41	47	iP	36	24.24	0.7
KIV	87.58	315	eP	36	21.60	-2.7
	0.9s	16.00nm				4.8mb
DUG	87.93	49	iPd	36	26.42	0.4
	1.1s	251.77nm				6.0mb
KAF	88.23	336	iP	36	25.10	-1.6
	0.6s	49.10nm				5.5mb
ARUT	88.28	51	iP	36	28.23	0.5
GLA	88.78	56	eP	36	30.39	0.5
FFC	88.83	32	iPd	36	29.47	-0.2
	1.0s	91.10nm				5.6mb
DAU	88.97	48	eP	36	30.91	-0.1
BW06	89.28	45	iP	36	31.88	-0.4
	0.8s	24.10nm				5.2mb
EMUT	89.50	48	iP	36	33.74	0.4
NUR	89.79	335	iP	36	32.50	-1.4
	0.5s	24.70nm				5.4mb
SRU	89.96	49	iP	36	35.38	0.0
PV09	91.20	49	iP	36	41.34	0.1
PV10	91.31	49	iP	36	41.93	0.2
PV08	91.52	49	eP	36	42.91	0.1
TUC	92.23	55	eP	36	47.15	1.3
	1.1s	32.96nm				5.3mb
RSSD	92.41	43	eP	36	46.13	-0.5
	1.1s	66.73nm				5.6mb
UPP	92.96	337	iP	36	46.80	-1.7
GOL	93.40	47	eP	36	51.66	0.3
	0.7s	23.15nm				5.4mb
GLD	93.49	47	eP	36	52.11	0.5
	1.8s	119.72nm				5.7mb
HFS	94.23	338	ePKP	36	52.20	-2.2
	0.6s	11.80nm				5.3mb
ULM	94.30	34	eP	36	56.50	1.6
ALQ	94.57	52	eP	36	56.72	0.1
	1.1s	21.85nm				5.3mb
FRB	95.58	15	eP	36	59.50	-0.9
	0.8s	3.00nm				4.6mb
LTX	99.03	56	eP	37	16.31	-0.4
DPC	99.74	330	eP	37	17.62	-1.8
	0.8s	3.05nm				4.8mb
WMOK	100.32	49	ePdiff37	22.18		-0.1
	1.0s	18.92nm				5.5mb
GEC2	102.07	330	Pdiff	37	28.20	-1.6
	0.6s	1.28nm				4.6mb
		e	37	30.80		
CCM	103.80	43	(Pdiff37	39.93		2.4X
NNA	138.64	89	iPKPc	42	52.70	-6.1X
	1.1s	16.46nm				
LKO	141.41	310	PKP	42	57.98	-5.8X
	0.7s	15.00nm				
IHA	142.70	123	ePKP	43	03.20	-2.2X
KIC	142.82	306	PKPd	43	03.32	-2.8X
	0.7s	120.50nm				
TIC	142.86	306	PKPd	43	03.32	-2.9X
	0.9s	118.50nm				
LIC	143.13	306	PKPd	43	04.30	-2.3X
	0.7s	184.50nm				
PEL	143.43	123	iPKPd	43	05.00	-1.7
KDS	143.62	322	iPKPd	43	05.50	-1.9
ARE	144.45	55	iPKP	43	10.00	0.8
MBO	144.67	330	iPKP	43	09.50	0.3
RTRS	145.26	119	iPKPc	43	10.40	0.6
RTCB	145.45	122	ePKPd	43	10.50	0.3
RTLTL	145.76	121	ePKPd	43	10.50	-0.2
CFA	145.87	122	e(PKP)	43	11.00	0.2



05d 04h

LPZ 147.64 94 iPKPd 43 14.80 0.0  
 LPB 147.70 95 PKPc 43 15.70 1.1  
 1.0s 192.00nm  
 SIV 154.37 92 PKP 43 22.90 -0.9  
 BDFB 166.85 87 ePKP 43 37.12 0.2  
 ePKPab44 44.79  
 BAO 166.87 87 ePKP 43 37.70 0.7  
 S.D. = 0.9 on 248 of 257 obs.

JAN 05, 1994 05h 04m 56.42s  
 60.129 N 152.846 W  
 DEPTH = 107.6km  
 SOUTHERN ALASKA ( 2 )  
 <AEIC>.

ILIM 0.08 229 iP 05 10.82 0.9  
 eS 05 23.35  
 RED 0.29 7 eP 05 11.45 0.8  
 RSO 0.34 8 eP 05 11.83 -0.7  
 RS2 0.34 7 iP 05 11.84 -0.7  
 RDW 0.36 3 iP 05 11.82 -0.8  
 REF 0.37 11 iP 05 11.96 -0.7  
 NCT 0.44 355 iP 05 12.17 -0.8  
 eS 05 25.87  
 DFR 0.47 10 iP 05 12.24 -0.9  
 RDT 0.50 26 eP 05 12.46 -0.9  
 OPT 0.52 202 eP 05 12.69 -0.7  
 eS 05 26.37  
 PDB 0.76 244 eP 05 14.30 -1.0  
 eS 05 28.95  
 HOM 0.77 127 eP 05 14.99 -0.4  
 AUE 0.82 199 eP 05 15.01 -0.8  
 AUP 0.82 201 eP 05 14.79 -1.2  
 AUH 0.83 202 eP 05 15.15 -0.9  
 AUW 0.82 203 eP 05 15.03 -0.9  
 AUI 0.85 201 eP 05 15.22 -0.9  
 BKG 0.99 17 iP 05 16.76 -0.9  
 eS 05 33.69  
 NKA 1.01 52 eP 05 18.52 0.8  
 CNPM 1.01 126 eP 05 17.11 -0.8  
 BRLL 1.05 110 P 05 15.10 -3.2  
 CKL 1.10 13 eP 05 18.37 -0.6  
 CKT 1.12 16 eP 05 18.11 -1.0  
 eS 05 36.11  
 SPU 1.13 20 eP 05 18.06 -1.1  
 eS 05 35.44  
 CKN 1.15 16 eP 05 18.58 -0.8  
 BGL 1.16 11 iP 05 18.88 -0.7  
 CP2 1.18 14 iPc 05 18.86 -1.0  
 CRP 1.19 16 P 05 19.20 -0.8  
 S 05 37.40  
 MCNL 1.21 219 eP 05 18.62 -1.4  
 eS 05 36.38  
 CGLM 1.25 19 eP 05 19.69 -0.9  
 CDD 1.27 199 eP 05 19.09 -1.7  
 eS 05 37.99  
 NCG 1.32 15 eP 05 20.68 -0.8  
 SLKM 1.36 73 eP 05 20.26 -1.6  
 SYI 1.54 171 eP 05 22.21 -1.7  
 SVW 1.68 307 P 05 23.90 -1.9  
 SUA 1.69 37 eP 05 25.08 -0.9  
 MPA 1.77 77 eP 05 25.10 -1.7  
 SKT 1.97 18 eP 05 27.77 -1.6  
 PMS 1.97 54 P 05 27.70 -1.7  
 PWA 2.11 42 P 05 31.00 -0.1  
 PLRM 2.34 49 eP 05 32.88 -1.3  
 PMR 2.34 49 eP 05 32.57 -1.6  
 FWL 2.35 70 eP 05 31.49 -2.9  
 KDC 2.40 175 ePd 05 31.29 -3.6  
 LTI 2.50 90 eP 05 33.88 -2.5  
 KNK 2.51 57 eP 05 33.90 -2.6  
 GHO 2.53 48 eP 05 34.58 -2.2  
 CUT 2.60 27 eP 05 35.86 -1.8  
 CFI 2.72 65 eP 05 36.87 -2.3  
 SML 2.77 51 eP 05 37.42 -2.6  
 HIN 3.17 82 eP 05 43.42 -2.0  
 SCM 3.19 55 eP 05 44.34 -1.4  
 FID 3.22 76 eP 05 43.31 -2.7  
 TRF 3.55 19 eP 05 48.88 -1.8  
 CVA 3.55 80 eP 05 48.61 -1.9  
 KTH 3.56 14 eP 05 49.36 -1.3  
 KLU 3.66 65 eP 05 48.75 -3.4  
 BALM 5.26 75 eP 06 10.88 -3.2  
 IL1 5.42 28 eP 06 12.55 -3.6  
 ILB 5.42 28 eP 06 12.57 -3.6  
 IM3 5.89 356 eP 06 19.98 -2.7  
 61 obs. associated

JAN 05, 1994 05h 39m 18.37± 0.90s  
 40.070 N ± 7.8km 24.656 E ± 6.3km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 ML 2.9 (THE).

OUR 0.58 297 iPgD 39 30.24 0.1  
 eSg 39 37.88  
 PAIG 0.76 260 iPgC 39 33.38 0.1  
 eSg 39 43.16  
 SOH 1.25 307 iPBd 39 41.44 -0.1  
 eSb 39 58.56  
 SRS 1.32 323 iPBc 39 42.14 -0.7  
 iSb 40 02.00  
 ALN 1.34 52 ePb 39 43.24 0.1  
 eSb 40 02.64  
 THE 1.41 294 ePb 39 44.84 0.8  
 eSb 40 01.64  
 LIT 1.66 272 ePb 39 47.84 0.1  
 eSb 40 08.16  
 KNT 1.73 310 iPBd 39 48.44 -0.2  
 eSb 40 12.04  
 GRG 1.93 298 ePb 39 51.72 0.1  
 eSb 40 16.80  
 VAY 2.02 309 iPn 39 56.40 3.6X  
 AGG 2.08 241 ePn 39 53.16 -0.6  
 IGT 3.37 262 ePn 40 12.28 0.1  
 S.D. = 0.4 on 11 of 12 obs.

? JAN 05, 1994 06h 15m 54.26± 1.38s  
 27.012 N ± 32.7km 96.584 E ± 13.1km  
 DEPTH = 33.0km (normal)  
 4.1mb ( 2 obs.)  
 MYANMAR-INDIA BORDER REGION (294)

SHL 4.46 252 iPn 17 01.50 0.0  
 eSn 17 45.00  
 GUN 9.55 278 P 18 13.40 0.5  
 0.4s 13.00nm 5.5mb X  
 PKI 9.96 276 P 18 18.40 -0.1  
 0.4s 18.00nm 5.7mb X  
 KKN 10.08 277 P 18 20.70 0.7  
 0.4s 17.00nm 5.7mb X  
 DMN 10.23 276 P 18 21.70 -0.4  
 GKN 10.65 278 P 18 27.10 -0.7  
 0.4s 13.00nm 5.5mb X  
 WRA 59.31 138 P 25 56.20 0.8  
 0.5s 0.40nm 3.8mb  
 WB2 59.32 138 eP 25 54.70 -0.8  
 0.6s 1.80nm 4.4mb  
 S.D. = 0.7 on 8 of 8 obs.

? JAN 05, 1994 06h 20m 38.27± 1.01s  
 45.866 N ± 11.0km 15.330 E ± 6.6km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 1.5 (LJU).

VBY 0.37 188 ePg 20 45.70 -0.1  
 iSg 20 53.50  
 PTJ 0.44 85 iPgD 20 47.30 0.0  
 iSg 20 53.60  
 CEY 0.64 259 ePg 20 51.50 0.3  
 eSg 21 00.50  
 VOY 1.02 280 ePg 20 57.30 -0.3  
 e(Sn) 21 15.10  
 S.D. = 0.4 on 4 of 4 obs.

JAN 05, 1994 07h 24m 34.63± 1.07s  
 33.732 S ± 7.0km 69.732 W ± 6.9km  
 DEPTH = 5.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 4.1 (SAN).

FCH 0.62 311 iP+ 24 47.13 0.1  
 iS 24 54.68  
 PCH 0.66 279 iP 24 47.88 0.0  
 iS 24 55.07  
 CACH 0.82 242 iP 24 51.20 0.2  
 iS 25 00.55  
 SAN 0.82 289 iP+ 24 50.99 -0.1  
 iS 25 00.62  
 PEL 0.99 306 iP+ 24 53.65 -0.3  
 iS 25 05.68  
 TACH 1.01 274 iP+ 24 54.25 0.1  
 iS 25 06.29

MDZ 1.12 41 eP 25 02.60 6.4X  
 JACH 1.27 325 iP+ 24 59.18 0.4  
 iS 25 15.55  
 ROCH 1.31 305 iP+ 24 59.39 -0.1  
 iS 25 16.39  
 LNV 1.41 260 iP 25 01.17 0.2  
 iS 25 17.57  
 LCCH 1.55 279 iP+ 25 02.62 -0.4  
 iS 25 22.03  
 IHA 1.75 293 e(P) 25 08.00 2.3X  
 e(S) 25 26.00  
 CFA 2.46 31 e(P) 25 16.10 -0.1  
 S.D. = 0.2 on 11 of 13 obs.

JAN 05, 1994 07h 30m 35.96± 0.82s  
 30.656 S ± 4.7km 72.154 W ± 8.6km  
 DEPTH = 42.0 ± 7.7 km  
 5.0mb ( 4 obs.)  
 OFF COAST OF CENTRAL CHILE (134)

RTRS 2.38 79 iP 31 14.20 0.9  
 IHA 2.40 170 eP 31 13.60 0.0  
 i(S) 31 44.60  
 JACH 2.42 147 iPd 31 14.20 0.2  
 iS 31 48.13  
 ROCH 2.51 157 iP+ 31 14.96 -0.4  
 iS 31 47.11  
 PEL 2.78 154 iPd 31 19.19 0.1  
 iS 32 00.37  
 LCCH 2.85 170 iPd 31 19.32 -0.8  
 iS 32 05.13  
 RTCB 2.99 107 ePc 31 23.80 1.6  
 SAN 3.06 156 iP 31 23.18 0.1  
 iS 32 10.66  
 FCH 3.10 150 iPd 31 24.04 0.1  
 iS 32 09.17  
 ZON 3.11 107 eP 31 25.40 1.6  
 TACH 3.16 161 iP 31 24.46 0.0  
 iS 32 12.77  
 PCH 3.27 155 iP 31 25.82 -0.2  
 iS 32 17.11  
 LNV 3.35 169 iP 31 25.78 -1.3  
 iS 32 20.76  
 MDZ 3.58 129 iP 31 35.00 4.4X  
 i 31 43.40  
 iS 32 29.00  
 CACH 3.69 160 iPd 31 32.21 0.0  
 iS 32 22.52  
 RTPR 4.88 87 iPc 31 47.90 -0.9  
 ARE 14.14 3 eP 33 56.50 0.6  
 e 37 41.00  
 e 37 57.00  
 LPB 14.54 16 Pc 34 02.00 0.8  
 LR 38 50.00  
 LPZ 14.77 15 iPc 34 03.20 -1.2  
 LR 38 16.00  
 SIV 17.77 37 P 34 40.20 -1.8  
 RSTA 21.32 79 eP 35 21.80 0.4  
 e 35 32.30  
 BAO 26.70 61 Pd 36 11.20 -2.1  
 i 36 16.70  
 i 36 26.90  
 i 36 45.30  
 e 37 13.00  
 UYO 67.82 340 iPd 41 32.30 0.5  
 SYO 68.98 159 ePc 41 38.80 0.2  
 TUL 69.84 340 iPc 41 45.10 0.9  
 KDS 71.84 63 eP 41 57.50 0.8  
 LIC 73.84 72 Pc 42 07.80 -0.6  
 1.0s 11.00nm 4.8mb  
 TIC 74.08 72 Pc 42 09.32 -0.5  
 1.2s 17.00nm 4.9mb  
 KIC 74.15 73 Pc 42 09.70 -0.5  
 1.1s 29.50nm 5.2mb  
 LKO 75.26 69 Pc 42 16.15 -0.5  
 0.9s 19.50nm 5.1mb  
 WRA 123.61 210 PKP 49 32.00 0.9  
 0.7s 0.60nm  
 KOD 145.22 119 ePKP 50 12.50 0.8  
 YAK 145.55 342 iPKPc 50 10.80 0.4  
 1.0s 60.00nm  
 GBA 147.27 114 PKP 50 17.20 2.6X  
 0.8s 3.00nm  
 HYB 150.28 110 ePKP 50 24.00 4.7X  
 S.D. = 0.9 on 32 of 35 obs.

\* JAN 05, 1994 08h 14m 48.01± 1.24s



05d 08h

17.572 S ±20.8km 175.153 W ± 8.7km DEPTH = 243.9 ± 8.5 km 4.5mb ( 11 obs.)					SRN	1.96	161	ePn	45	33.30	1.9	EBAN	1.81	335	eP	20	32.79	1.1
					IGT	2.37	158	ePn	45	36.62	-0.8				eS	20	52.60	
					GRG	2.55	107	iPn	45	39.85	-0.2	EVIA	2.12	7	eP	20	38.61	2.3X
TONGA ISLANDS (173)								iSn	46	11.94					eS	21	03.50	
					VAY	2.58	98	iPn	45	40.40	-0.1	S.D. = 1.0 on 6 of 7 obs.						
					KNT	2.86	100	iPnd	45	44.17	-0.2	% JAN 05, 1994 09h 53m 43.68± 0.84s 40.666 N ± 6.2km 23.003 E ± 7.4km DEPTH = 5.0km (geophysicist)						
					KKB	2.93	86	iP	45	46.00	0.6	GREECE (364)						
					LIT	3.00	122	ePn	45	47.22	0.9	ML 1.4 (THE).						
					THE	3.07	110	ePn	45	46.38	-0.9	THE 0.04 220 iPg 53 44.73 -0.4						
					VTs	3.12	73	iPd	45	49.00	0.8	SOH 0.31 60 ePg 53 49.96 0.0						
					SOH	3.28	105	ePn	45	50.54	0.1	KNT 0.50 351 ePg 53 53.60 -0.1						
					SRS	3.38	99	ePn	45	51.26	-0.5	GRG 0.54 303 iPg 53 54.72 0.2						
					MMB	3.42	91	eP	45	53.00	0.7	LIT 0.69 215 ePg 53 57.68 0.2						
					AGG	3.63	137	ePn	45	54.38	-0.9	S.D. = 0.3 on 5 of 5 obs.						
					PAIG	3.87	116	ePn	45	58.50	-0.2	JAN 05, 1994 10h 11m 51.98± 0.28s 5.831 S ± 4.3km 145.803 E ± 5.6km DEPTH = 32.2km ( 5 depth phases) 5.0mb ( 15 obs.) 4.5Msz ( 3 obs.) EASTERN NEW GUINEA REG., P.N.G. (207) ML 5.3 (PMG).						
					RZN	4.15	89	iP	46	02.00	-0.9	YYYY 0.44 158 iPc 12 00.60 -1.2						
					BZS	4.27	24	ePd	45	45.50	-18.8X	MDG 0.58 358 iPd 12 03.50 -0.2						
					PTJ	4.77	332	i(P)	47	05.00	53.4X	LAT 1.45 125 eP 12 16.70 0.5						
					TRI	5.58	317	e(Pn)	46	21.10	-1.8	MNDI 2.16 261 eP 12 33.00 6.4X						
					VOY	5.74	320	ePnd	46	24.80	-0.6	WWKK 3.09 315 eP 12 45.00 5.3X						
								eSn	47	29.70		PMG 3.80 159 iPd 12 49.50 -0.2						
					MLR	6.19	50	eP	46	32.00	0.4	RAB 6.54 76 eP 13 30.00 1.5						
					S.D. = 1.0 on 33 of 36 obs.						QIS 15.83 202 eP 15 35.70 1.5							
					* JAN 05, 1994 08h 49m 31.58± 2.45s 42.571 N ±19.9km 13.024 E ±13.4km DEPTH = 10.0km (geophysicist)						MTN 16.06 243 iPc 15 38.20 1.0							
					CENTRAL ITALY (381)						0.5s 65.00nm 5.0mb							
					ML 3.4 (VIE), 3.3 (LDG). MD 3.3 (TRI).						WB2 17.91 217 eP 16 00.30 -0.1							
					RIY	2.94	19	i(Pn)	50	07.90	-11.3X	0.6s 79.20nm 5.0mb						
					PGF	2.97	271	Pn	50	20.20	0.4	KNA 19.40 238 eP 16 18.20 -0.3						
					TRI	3.18	9	e(Pn)	50	18.90	-3.7X	ASPA 21.11 212 eP 16 35.10 -1.3						
								e(Sg)	51	00.70		1.2s 30.10nm 4.6mb						
					CEY	3.32	17	e(Pn)	50	26.10	1.4	Z 18s 2.00um 4.5Msz						
								eSn	51	03.10		BKM 24.88 120 iPc 17 13.50 0.0						
					VBY	3.35	28	ePn	50	24.80	-0.1	ARMA 25.07 168 iPc 17 13.90 -1.3						
					VOY	3.52	10	ePn	50	26.20	-1.2	0.6s 22.00nm 4.9mb						
								eSn	51	05.70		DZM 25.67 131 iPc 17 22.40 1.5						
								e	51	07.70		WARB 27.28 220 eP 17 35.50 -0.2						
					PTJ	3.94	31	ePn	50	40.30	6.9X	IIDJ 41.76 350 eP 19 38.30 -1.7						
					SBF	4.28	289	Pn	50	38.50	0.1	i 19 49.30 39km						
					KBA	4.51	3	iPnd	50	40.70	-1.0	CHJJ 42.14 352 eP 19 43.40 0.3						
								i	50	48.90		MAT 42.75 351 (P) 19 47.00 -1.0						
								iSn	51	32.30		MTMJ 42.85 351 eP 19 48.50 -0.5						
					OGA	4.53	342	eP	50	42.80	0.9	NIIJ 43.32 352 eP 19 51.90 -0.7						
					SCE	4.56	349	eP	50	43.10	0.7	i 20 02.80 38km						
					WTTA	4.79	349	iPnc	50	46.00	0.3	SSE 43.61 329 eP 20 00.80 5.7X						
								i	51	42.50		0.9s 7.00nm 4.4mb						
								i	51	44.60		Z 20s 0.50um 4.4Msz						
					LMR	4.84	281	Pn	50	45.10	-1.1	NJ2 45.59 327 eP 20 12.00 1.0						
					LRG	4.97	282	Pn	50	47.80	-0.1	IPM 45.89 282 ePd 20 14.50 0.8						
					LPG	5.39	305	Pn	50	55.10	0.9	NST 50.01 296 eP 20 53.00 7.3X						
					LPL	5.41	305	Pn	50	55.20	0.8	BDT 51.60 297 eP 21 04.00 6.2X						
					FUR	5.73	348	eP	50	42.80	-15.9X	CHTO 52.26 299 eP 21 02.90 0.1						
					KHC	6.57	3	ePn	51	16.00	5.4X	XAN 52.80 321 eP 21 05.50 -1.2						
								eSn	52	18.40		BJI 53.18 332 eP 21 10.50 1.2						
								eSg	52	35.50		TIY 53.31 327 eP 21 06.80 -3.6X						
					BSF	6.86	322	Pn	51	15.90	1.2	CD2 54.31 315 eP 21 19.00 1.2						
								Sn	52	30.70		BTO 56.69 328 eP 21 40.00 5.0X						
					CDF	7.10	327	Pn	51	16.00	-2.1	LZH 57.31 320 eP 21 40.00 0.5						
								Sn	52	36.50		1.4s 26.00nm 5.1mb						
					HAU	7.19	321	Pn	51	18.00	-1.2	GTA 61.86 321 eP 22 11.50 0.8						
					S.D. = 1.1 on 16 of 21 obs.						pP 22 20.50 29km							
					% JAN 05, 1994 09h 19m 59.70± 2.92s 36.529 N ±24.2km 2.814 W ± 9.5km DEPTH = 5.0km (geophysicist)						LSA 63.19 307 P 22 21.40 1.2							
					STRAIT OF GIBRALTAR (385)						CSY 65.12 195 iPc 22 30.60 -0.9							
					mbLg 3.0 (MDD).						0.6s 18.80nm 5.4mb							
					ENIJ	0.66	48	iPd	20	12.32	-0.5	GUN 66.78 304 P 22 43.20 -0.1						
								eS	20	21.90		PKI 67.05 303 P 22 45.10 0.0						
					EGUA	0.68	297	iPc	20	12.72	-0.5	0.9s 45.00nm 5.6mb						
								eS	20	20.00		KKN 67.24 303 P 22 46.20 0.1						
					ECOG	0.96	321	iPc	20	17.54	-1.0	0.7s 19.00nm 5.3mb						
								eS	20	28.50		DMN 67.32 303 P 22 46.40 -0.2						
					EHUE	1.30	8	eP	20	24.82	0.6							
								eS	20	41.10								
					MAL	1.30	279	eP	20	24.60	0.4							
								eS	20	42.80								



GKN	0.9s	60.00nm	5.7mb	MDJ	24.26	14 eP	36 55.00	0.7	Sg	41 19.00				
	67.84	303 P	22 49.50		1.0s	21.00nm		4.7mb	iPn	40 56.80	-1.5			
YAK	0.6s	18.00nm	5.3mb	IPM	26.07	234 ePd	37 12.00	0.3	ePg	41 01.00				
	68.78	352 eP	22 52.00	GTA	26.20	319 eP	37 12.50	-0.3	iSg	41 25.70				
	1.0s	50.00nm	5.5mb	Z	15s	0.86um		4.4MsZx	Pn	41 10.50	-0.1			
HYB	70.29	291 eP	23 04.50	GUN	33.31	289 P	38 16.20	-0.4	Pg	41 18.00				
	e		23 12.50		0.7s	17.00nm		5.1mb	eSn	41 42.50				
GBA	70.55	287 P	23 06.70	PKI	33.70	288 P	38 20.40	0.4	e	41 50.00				
	0.5s	2.00nm	4.4mb	KKN	33.83	289 P	38 20.80	-0.2	eSg	41 53.50				
WMQ	71.89	320 P	23 14.80	DMN	33.97	288 P	38 22.00	-0.3	e	42 08.50				
	1.0s	6.90nm	4.6mb		1.0s	34.00nm		5.2mb	eP	41 11.10	0.0			
Z	18s	0.31um	4.6MsZ	GKN	34.41	289 P	38 24.80	-1.1	MOX	2.44	259 ePn	41 12.00	0.1	
	pP		23 24.00	WMQ	36.22	317 P	38 43.00	2.0	ePg	41 20.10				
MAIO	90.44	306 eP	25 02.00		1.0s	6.90nm		4.5mb	iSg	41 59.20				
YKA	99.58	28 eP	25 33.50	WRA	42.64	162 P	39 30.90	-3.5X	WET	2.58	219 eP	41 14.40	0.4	
	0.6s	0.40nm	4.1mb		0.7s	2.50nm		4.1mb	VKA	2.97	168 iPgc	41 22.90	3.4X	
GEC2	121.09	325 PKP	30 52.90	WB2	42.64	162 eP	39 30.40	-4.0X	iSg	42 06.30				
	0.6s	0.76nm			0.7s	6.40nm		4.5mb	GRF	3.04	243 ePg	41 34.00	13.6X	
	e		30 58.60	GBA	42.92	267 P	39 37.80	1.0	eSg	42 19.00				
	e		31 04.10		0.6s	2.00nm		4.0mb	ZST	3.18	159 eP	42 12.20	49.8X	
LPB	139.77	124 ePKP	31 17.00	MAIO	55.84	300 eP	41 16.00	-0.1	SPC	3.70	120 eP	41 30.70	0.6	
LPBZ	139.87	124 PKP	31 11.60	IMA	68.65	26 e(P)	42 41.40	0.1	KBA	4.31	199 iPnc	41 37.40	-1.2	
SIV	145.68	130 PKP	31 28.70		1.0s	1.00nm		3.9mb	iSg	42 57.70				
RSTA	146.43	155 ePKP	31 31.80	OBN	70.23	323 eP	42 50.00	-1.0	WTTA	4.61	214 iPnc	41 43.30	0.3	
VAO	148.74	157 ePKP	31 38.00		e		42 56.50	21km	iSg	43 10.20				
KIC	150.71	273 PKPc	31 43.20		e		43 04.00		S.D. = 1.1	on 10 of 13 obs.				
TIC	150.99	273 PKP	31 44.00	FBA	71.22	27 eP	42 56.70	-0.1	? JAN 05, 1994	12h 06m 58.35± 2.31s				
LIC	150.99	272 PKPc	31 44.00		0.9s	0.50nm		3.6mb		4.348 S ±25.6km	134.893 E ±19.2km			
LKO	151.42	279 PKP	31 44.84	INK	75.80	22 eP	43 22.50	-1.0		DEPTH = 33.0km (normal)				
	0.5s	21.50nm		MBC	76.07	12 eP	43 28.00	3.1X		4.2mb ( 1 obs.)				
BAO	154.67	148 (PKP)	31 52.70	RES	81.54	9 eP	43 55.00	0.4		IRIAN JAYA REGION, INDONESIA	(196)			
	S.D. = 1.0	on 41 of 58 obs.		CLL	84.82	323 e(P)	44 20.00	8.2X		MTN	9.23	204 eP	09 13.50	1.3
	JAN 05, 1994	10h 31m 37.63± 0.43s			e		44 29.00	28km		eS	10 54.50			
	21.155 N ± 5.2km	121.832 E ± 6.6km		KHC	85.50	321 eP	44 24.50	9.2X		KNA	12.83	208 eP	10 00.50	-0.7
	DEPTH = 21.0km ( 5 depth phases)				e		44 31.70	23km		eS	12 19.00			
	4.4mb ( 15 obs.)	4.0MsZ ( 1 obs.)		YKA	85.52	23 eP	44 17.60	2.5		PMG	13.17	113 eP	10 06.00	0.3
	TAIWAN REGION	(243)			0.9s	2.60nm		4.5mb	WB2	15.51	182 eP	10 34.60	-1.8	
CVP	3.43	180 iPd	32 30.50	GEC2	85.56	321 PKP	44 15.00	-0.7		i	10 41.60			
SZP	3.81	200 iPd	32 41.00		0.9s	2.22nm		4.4mb		iS	13 15.10			
QZH	4.81	322 eP	32 50.00		e		44 19.10	13km		ASPA	19.23	183 iPc	11 23.80	1.0
BAG	4.87	194 ePc	32 52.90		e		44 23.70			0.9s	14.50nm		4.2mb	
QCP	6.52	186 eP	33 41.00		e		44 29.60			eS	14 47.40			
HKC	7.21	281 iP	33 22.70		e		44 32.70		LPB	149.22	133 PKP	26 42.00	-0.3	
	iS		34 39.50	S.D. = 1.1	on 34 of 48 obs.				LPBZ	149.36	133 PKP	26 38.90	-3.8X	
GQP	7.23	175 ePc	33 24.00							S.D. = 1.5	on 6 of 7 obs.			
GZH	8.10	285 P	33 41.50	* JAN 05, 1994	11h 38m 57.40± 2.45s									
GYA	14.85	294 P	35 10.20		36.003 N ±19.1km	21.839 E ±17.4km								
	Z	16s	0.82um		DEPTH = 33.0km (normal)									
	N	12s	0.83um	SOUTHERN GREECE	(368)									
	E	12s	0.46um	ML 4.0 (ATH).										
TIA	15.56	346 eP	35 21.20	VLI	1.14	51 ePn	39 19.70	2.6						
KKM	15.98	201 ePd	35 32.50	VAM	2.01	107 ePn	39 30.70	1.0	FCH	1.28	274 iP+	08 57.26	-1.0	
	1.6s	199.80nm	5.0mb	VLS	2.39	336 ePn	39 36.10	1.0		iS	09 14.08			
XAN	17.17	321 P	35 38.00	ATH	2.47	37 ePb	39 45.40	9.2X	PCH	1.47	262 iP+	09 00.69	-0.4	
	Z	16s	1.19um	AGG	3.04	7 eP	39 47.18	2.9X		iS	09 20.44			
	pP		35 46.00		eS		40 21.44		SAN	1.59	269 iP+	09 03.48	0.8	
TIY	18.40	336 eP	35 53.00	IGT	3.72	342 eP	39 53.02	-0.9		iS	09 24.68			
	Z	12s	1.69um	LIT	4.12	7 eP	40 00.62	1.0	PEL	1.63	280 iP+	09 03.41	0.1	
	N	13s	1.24um	PAIG	4.18	20 eP	40 00.26	-0.1		iS	09 24.33			
	pP		36 02.50	KZN	4.30	359 ePn	40 03.00	0.8	CACH	1.68	245 iP+	09 04.49	0.5	
CD2	18.90	305 eP	35 59.00	SOH	4.96	13 eP	40 10.68	-0.8		iS	09 26.76			
	Z	16s	1.25um	GRG	4.97	5 eP	40 11.36	-0.3	JACH	1.71	295 iP+	09 04.91	0.4	
	N	10s	0.94um	KNT	5.22	9 eP	40 15.40	0.2		iS	09 26.86			
	S		39 30.00	CIN	5.26	71 eP	40 15.00	-0.8	TACH	1.83	262 iP+	09 06.53	0.4	
TSRJ	18.95	38 eP	36 08.50	SRS	5.29	15 eP	40 16.04	-0.1		iS	09 30.47			
BJI	19.43	347 eP	36 04.00	VAY	5.34	6 ePn	40 15.00	-1.8	CFA	1.87	14 ePc	09 06.90	0.1	
	1.5s	14.00nm	4.0mb	SKO	5.97	357 ePn	40 22.00	-3.8X		S	09 30.50			
	Z	16s	0.53um	KSL	6.27	87 ePn	40 28.20	-1.9	ROCH	1.94	283 iPd	09 08.15	0.2	
			4.7MsZx		S.D. = 1.3	on 14 of 17 obs.				iS	09 33.78			
IIDJ	20.06	41 P	36 17.50						LNV	2.27	256 iP	09 11.88	-0.6	
MTMJ	20.74	39 eP	36 22.60	* JAN 05, 1994	11h 40m 31.43± 1.50s					iS	09 42.90			
MAT	20.95	39 (P)	36 20.00		51.169 N ±13.5km	15.376 E ± 9.0km			LCCH	2.35	268 iP+	09 13.48	-0.1	
CHJJ	21.10	42 eP	36 22.90		DEPTH = 10.0km (geophysicist)					iS	09 45.74			
HHC	21.48	338 P	36 26.80	POLAND	(548)				RTPR	3.66	32 eP	09 32.00	-0.3	
	1.0s	9.00nm	4.1mb		ML 3.4 (VIE).					S	10 27.00			
LZH	21.64	317 eP	36 29.00	BRG	0.95	252 ePn	40 51.50	2.0		S.D. = 0.6	on 12 of 12 obs.			
	1.5s	45.00nm	4.7mb		iPg		40 52.50		? JAN 05, 1994	12h 10m 15.12± 1.17s				
Z	20s	0.60um	4.0MsZ		iSg		41 12.40			39.114 N ± 8.4km	27.499 E ±17.5km			
BTO	21.83	335 eP	36 32.00	PRU	1.30	205 Pn	40 54.90	-0.5		DEPTH = 10.0km (geophysicist)				
	N	13s	0.77um		0.6s	70.20nm			TURKEY	(366)				
	E	13s	0.66um				40 57.10			ML 2.8 (ISK).				
BDT	21.90	264 eP	36 35.00		Pg		40 59.50		IZM	0.74	195 ePg	10 29.80	0.2	
CN2	22.78	7 eP	36 41.30		i		41 13.10							
	Z	12s	0.36um		Sn		41 15.80							
	epP		36 47.00		i									



05d 12h

DST 1.00 60 eSg 10 42.30  
 EDC 1.26 13 ePg 10 34.30 0.1  
 CIN 1.58 163 eSg 10 49.00  
 1.58 163 ePn 10 38.50 -0.1  
 S.D. = 0.3 on 4 of 4 obs.

% JAN 05, 1994 12h 11m 10.27± 0.72s  
 26.345 S ± 6.9km 27.499 E ± 6.7km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.7 (PRE).

KSR 0.72 311 eP 11 25.00 0.3  
 BFS 0.84 229 eP 11 27.00 -0.2  
 SLR 0.93 49 iPd 11 36.00  
 SEK 1.97 177 eP 11 28.10 -0.5  
 SWZ 2.11 246 eP 11 40.00  
 NWL 2.58 123 eP 11 45.40 0.5  
 BOS 2.92 219 eP 12 09.60  
 BLF 2.99 203 eP 12 12.00 0.1  
 S.D. = 1.0 on 8 of 8 obs.

\* JAN 05, 1994 13h 15m 51.99± 1.38s  
 42.257 N ± 8.5km 23.694 E ± 15.6km  
 DEPTH = 10.0km (geophysicist)  
 BULGARIA (359)  
 ML 3.2 (THE).

SRS 1.14 184 ePb 16 13.12 -0.3  
 KNT 1.25 209 iPbc 16 15.36 0.2  
 VAY 1.26 222 iPn 16 35.37  
 SOH 1.46 190 iPbd 16 15.36 0.2  
 GRG 1.62 217 ePn 16 38.76  
 SKO 1.70 261 ePn 16 15.30 -0.1  
 THE 1.71 199 ePn 16 17.00 -1.4  
 OUR 1.93 173 ePn 16 43.68  
 FNA 2.28 231 ePn 16 21.56 0.8  
 PAIG 2.33 180 iPc 16 48.32  
 SSR 2.97 332 iPc 16 25.00 3.1X  
 S.D. = 1.1 on 10 of 11 obs.

JAN 05, 1994 13h 24m 09.95± 0.11s  
 39.085 N ± 1.9km 15.145 E ± 1.3km  
 DEPTH = 272.7km (geophysicist)  
 5.7mb (112 obs.)

SOUTHERN ITALY (390)

Mw 5.8 (GS), 5.8 (HRV). MD 5.4  
 (VIE). Felt (VII) throughout  
 much of southern Italy. Depth  
 from broadband displacement  
 seismograms.

FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike= 35 Dip=76 Slip= -60  
 NP2: 148 33 -153

Principal Axes:

T Plg=25 Azm=102  
 P 50 338

Comment: The focal mechanism is

well controlled and

corresponds to normal

faulting with a moderate

strike-slip component. The

preferred fault plane is not

determined.

RADIATED ENERGY

No. of sta: 14 Focal mech. F

Energy 4.0±1.0\*10\*\*12 Nm

MOMENT TENSOR SOLUTION

Dep 272 No. of sta: 23

Moment Tensor; Scale 10\*\*17 Nm

Mrr=-3.05 Mtt=-0.97

Mff= 4.03 Mrt=-2.51

Mrf=-1.95 Mtf= 2.71

Principal axes:

T Val= 6.09 Plg=17 Azm=117

N -1.36 27 216  
 P -4.73 57 358  
 Best Double Couple:Mo=5.4\*10\*\*17  
 NP1:Strike=172 Dip=36 Slip=-140  
 NP2: 48 68 -60  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 50S, \*\*C  
 Centroid Location:  
 Origin Time 13:24:15.7 0.2  
 Lat 39.10N 0.02 Lon 15.39E 0.02  
 Dep 294.8 0.8 Half-duration 1.9  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr=-2.17 0.06 Mtt=-1.97 0.10  
 Mff= 4.14 0.09 Mrt=-3.51 0.09  
 Mrf=-3.29 0.09 Mtf= 0.01 0.09  
 Principal Axes:  
 T Val= 5.83 Plg=27 Azm=103  
 N 0.32 30 210  
 P -6.15 48 339  
 Best Double Couple:Mo=6.0\*10\*\*17  
 NP1:Strike=146 Dip=33 Slip=-157  
 NP2: 37 78 -60

MSI 0.94 160 P 24 48.88 1.6  
 GRI 1.03 105 P 24 50.00 2.1  
 GMB 1.08 148 P 24 50.97 2.7X  
 TDS 1.09 58 P 24 50.52 2.4  
 MGR 1.10 17 P 24 51.22 3.0X  
 MNO 1.21 197 P 24 52.36 3.3X  
 SOI 1.24 145 P 24 50.70 1.7  
 GIB 1.40 219 P 24 52.97 2.8X  
 ORI 1.40 45 P 24 52.68 2.6X  
 SGO 1.48 5 P 24 54.18 3.7X  
 USI 1.58 257 P 24 55.22 3.9X  
 MCT 1.88 220 P 24 57.70 3.9X  
 MEU 1.99 185 P 24 56.88 2.2  
 PZI 2.06 185 P 24 57.13 1.9  
 FG4 2.07 8 P 24 58.29 3.0X  
 FAI 2.15 213 P 24 59.61 3.7X  
 CVT 2.32 233 P 25 00.70 3.2X  
 BRT 2.39 41 P 24 59.00 0.9  
 LCI 2.50 59 P 25 01.26 2.1  
 DUI 2.63 349 P 25 03.96 3.4X  
 FG3 2.68 13 P 24 58.97 -2.1  
 FG2 2.72 0 P 25 06.75 5.5X  
 SDI 2.81 339 P 25 05.90 3.6X  
 RMP 3.30 326 P 25 11.17 3.8X  
 AQU 4.52 338 P 25 14.10 4.2X  
 VLO 3.63 66 iPnc 25 13.00 2.0  
 iSn 25 59.00

KEK 3.66 79 eP 25 12.90 1.5  
 MNS 3.79 331 P 25 16.26 3.4X  
 SRN 3.84 77 iPnc 25 14.30 0.9  
 iSn 26 01.80

TPE 3.94 71 iPnc 25 13.60 -1.0  
 IGT 4.05 82 iPnc 25 17.46 1.6  
 eSn 26 07.88

HVAR 4.21 13 iPnc 25 18.40 0.8  
 HCY 4.21 36 iPnc 25 19.02 1.3  
 iSn 26 06.87

BDV 4.25 40 iPnc 25 19.48 1.4  
 iSn 26 07.55

ULC 4.25 46 iPnc 25 19.24 1.1  
 iSn 26 08.34

TIR 4.26 56 iPnc 25 20.60 2.4  
 iSn 26 13.40

LACI 4.32 52 iPnc 25 20.50 1.6  
 iSn 26 18.80

LSK 4.35 74 iPnc 25 20.30 1.0  
 iSn 26 13.00

VLS 4.36 100 iPn 25 20.50 1.1  
 ASS 4.40 336 P 25 23.06 3.1X

TTG 4.57 42 iPnc 25 23.28 1.4  
 iSn 26 14.93

BRY 4.60 33 iPnc 25 23.39 1.1  
 iSn 26 14.48

KBN 4.61 69 iPnc 25 24.50 2.1  
 iSn 26 15.50

ARV 4.71 340 P 25 26.29 2.8X  
 NKY 4.73 37 iPnc 25 25.14 1.3  
 iSn 26 17.43

OHR 4.78 63 iPnc 25 26.10 1.6  
 i 25 32.70  
 i 26 18.00  
 i 26 22.50

FNA 5.08 69 iSn 26 25.55  
 iPnc 25 29.85 1.8  
 eSn 26 29.80  
 CRE 5.13 333 P 25 31.18 2.5  
 IVA 5.22 42 iPnc 25 31.78 2.1  
 iSn 26 28.58  
 RSM 5.24 338 P 25 32.86 3.0X  
 KZN 5.25 74 iPn 25 32.00 1.9  
 PLE 5.31 36 iPnc 25 32.71 1.8  
 iSn 26 29.89  
 SFI 5.43 334 P 25 34.88 2.8X  
 PGD 5.43 333 P 25 35.70 3.4X  
 AGG 5.59 88 iPnc 25 36.53 2.3  
 SKO 5.60 57 iPnc 25 35.20 1.0  
 i 26 26.60  
 LIT 5.76 78 iPnc 25 37.42 1.1  
 eSn 26 43.68  
 PII 5.79 325 P 25 39.58 3.1X  
 PGF 5.80 309 eP 25 38.60 1.7  
 GRG 5.88 69 iPnc 25 38.82 1.2  
 eSn 26 46.68  
 BDI 6.03 327 P 25 42.45 2.9X  
 MME 6.09 328 P 25 39.58 -0.9  
 VAY 6.11 66 iPgD 25 41.40 0.9  
 0.9s 3360.00nm 6.3mb X

THE 6.21 73 iPnc 26 49.30  
 eSn 26 42.42 0.7  
 eSn 26 56.24

RIY 6.28 355 iPn 25 43.60 1.1  
 iSn 26 55.70  
 KNT 6.29 68 iPnc 25 43.69 0.9  
 iSn 26 56.04

VBY 6.42 1 iPd 25 46.10 1.9  
 SOH 6.54 72 iPnc 25 47.01 1.1  
 VLI 6.60 109 ePn 25 49.00 2.5  
 PAIG 6.65 80 iPnc 25 47.66 0.5  
 iSn 27 03.96

KKB 6.66 63 iP 25 49.00 1.7  
 TRI 6.70 352 iPnd 25 48.90 1.2  
 i 26 03.20  
 iSn 27 04.50

i(SgSg) 27 46.50  
 ZAG 6.76 5 iPnd 25 49.60 1.2  
 iSn 27 05.00

SRS 6.79 70 iPnc 25 49.50 0.6  
 ATH 6.81 97 ePn 25 49.00 -0.2  
 OUR 6.93 77 iPnc 25 51.66 1.1  
 iSn 27 11.16

LJU 6.97 356 iP 25 52.70 1.6  
 i 26 01.20  
 i 26 12.20  
 i 26 13.20

iS 27 10.40  
 i 27 10.70  
 e 32 15.00  
 e 32 40.00  
 e 35 45.00  
 eScS 38 45.40  
 e 43 49.00

VOY 7.00 353 iPd 25 52.50 0.9  
 eS 27 11.50

MMB 7.02 66 iPc 25 53.00 1.2  
 VTS 7.05 58 iPc 25 53.00 0.7  
 BOB 7.09 325 P 25 55.68 3.0X

VVI 7.18 345 P 25 54.41 0.7  
 IMI 7.27 314 Pc 25 56.82 1.9  
 FIN 7.29 317 Pc 25 57.09 1.9

PCP 7.35 320 P 25 58.33 2.4  
 SAL 7.36 334 P 25 56.68 0.8  
 CKI 7.40 318 P 25 59.15 2.7

REV 7.47 311 P 25 59.19 1.8  
 SBF 7.50 312 eP 25 59.40 1.6  
 SAOF 7.51 313 P 25 59.92 2.0

ROB 7.53 316 Pc 26 00.94 2.8X  
 AURF 7.58 312 P 26 01.08 2.3  
 AUTN 7.59 313 P 26 01.08 2.0  
 S 27 33.50

PGB 7.67 60 iPc 26 01.00 1.1  
 MVIF 7.69 311 P 26 02.67 2.4  
 TOUF 7.70 312 P 26 02.89 2.4

S 27 35.74  
 FVI 7.70 348 P 26 01.25 1.1  
 ENR 7.73 314 Pc 26 03.50 2.8X

RZN 7.75 67 iPc 26 02.00 0.9  
 CALN 7.76 310 P 26 03.48 2.3  
 LMR 7.77 306 eP 26 02.50 1.4

STV 7.80 314 Pc 26 04.37 2.8X



MDI	7.80	331	P	26	01.71	0.3	BBS	10.05	329	P	26	29.14	-0.7			eS	29	03.00			
FRF	7.80	308	eP	26	03.20	1.7	CEI	10.11	29	eP	26	31.00	0.6	KSL	11.83	100	eP	26	50.20	-1.7	
PLD	7.87	64	iPc	26	04.00	1.6	KHC	10.11	354	iPd	26	30.00	-0.5	EPF	11.85	294	eP	26	52.80	0.6	
UZD	7.92	17	iPc	26	03.40	0.5		1.1s	712.00nm			5.7mb	X		0.6s	214.30nm			5.5mb	X	
LRG	7.92	306	eP	26	05.00	2.0	Z	14s	4.80um					RJF	11.86	306	eP	26	53.40	1.1	
	17s	4.47um					N	14s	3.80um					Z	18s	2.85um					
DOI	8.01	315	P	25	56.75	-7.4X	E	14s	1.80um					TCF	11.92	311	eP	26	54.30	1.2	
PZZ	8.09	315	P	26	07.02	1.8					26	36.00		ABH	12.07	336	eP	26	54.10	-0.8	
BZS	8.09	34	iPd	25	59.00	-6.1X					eS	27	35.00	RUP	12.08	334	eP	26	53.60	-1.4	
KBA	8.10	351	iPnd	26	06.50	1.1					eS	28	18.00	TNS	12.11	339	ePd	26	55.50	0.2	
	1.7s	64.20nm			4.4mb	X	WET	10.19	352	iPd	26	31.10	-0.4		eS			29	09.50		
		i	26	17.90			FEL	10.20	332	eP	26	30.80	-0.9	EGRA	12.15	290	P	26	51.18	-4.7X	
		iSn	27	36.10			MLR	10.24	48	iPc	26	34.00	1.7	IAS	12.15	44	eP	26	57.00	1.2	
		i	38	47.40			LOMF	10.25	326	P	26	31.61	-0.7	ACU	12.15	272	P	26	57.29	1.3	
VAM	8.10	114	ePn	26	06.80	1.5	CIN	10.28	94	iPc	26	34.00	1.4	LFF	12.20	303	eP	26	58.90	2.4	
BHB	8.22	317	pd	26	08.17	1.4	VDCF	10.30	294	P	26	33.88	1.0	HYF	12.24	316	eP	26	56.50	-0.5	
RDO	8.23	72	iPc	26	07.30	0.5	CHAF	10.32	330	P	26	33.68	0.7	LSF	12.31	310	eP	26	59.60	1.8	
KDZ	8.25	69	iPc	26	07.00	-0.2	ISR	10.40	51	iPc	26	36.00	1.8	CLL	12.32	354	iPd	26	57.90	0.1	
VAI	8.25	327	P	26	07.38	0.3	DST	10.46	83	iP	26	35.80	0.8		1.5s	2400.00nm			6.2mb	X	
OGA	8.34	340	iPd	26	09.20	0.7	MOF	10.51	329	P	26	34.75	-0.9		i			28	18.80		
TMA	8.40	329	P	26	09.59	0.4	TRGS	10.56	293	P	26	37.41	1.1		iS			29	16.00		
ORO	8.41	323	P	26	09.22	0.0	LIBD	10.58	331	P	26	36.37	0.1	JAU	12.36	294	P	26	59.95	1.4	
ORX	8.42	323	Pd	26	09.04	-0.3	COLF	10.63	311	P	26	38.25	1.1	WLF	12.37	332	iPc	26	58.65	0.2	
RSP	8.43	319	Pd	26	10.23	0.7	BSF	10.64	328	eP	26	36.70	-0.5		1.1s	29.80nm			4.4mb	X	
OSS	8.44	336	P	26	11.15	1.6	SPC	10.74	18	iPd	26	38.90	0.4		S			29	18.00		
GZR	8.47	39	iPd	26	10.00	0.1					i(S)	28	21.00	BGG	12.42	336	ePd	26	59.30	0.2	
VDL	8.49	332	P	26	11.60	1.3	LBL	10.75	309	P	26	40.11	1.5	LVV	12.46	28	iP	27	01.00	1.4	
RRL	8.53	316	Pd	26	13.38	2.6	ECH	10.80	330	P	26	38.16	-0.9		Z	16s	7.40um			5.1msz	
ALN	8.56	74	iPnc	26	11.78	0.7	ITU	10.82	75	iPc	26	40.00	0.7		N	12s	17.20um				
WTTA	8.57	344	iPnd	26	12.40	1.2	PSN	10.82	61	iPc	26	40.00	0.6		E	12s	11.30um				
	1.4s	46.50nm			4.3mb	X	ISK	10.85	75	iP	26	39.80	0.1			iS			29	17.00	
		i	26	14.70			UZH	10.85	26	iPd-	26	40.00	0.4	OGE	12.46	294	P	27	02.33	2.6	
		iSn	27	44.40							iS	28	41.00	ECHE	12.49	277	P	27	02.52	2.4	
		i	27	52.20			STR	10.88	333	P	26	40.37	0.3	LHE	12.51	293	P	27	03.39	3.0X	
		i	38	46.80			WLS	10.89	331	P	26	39.50	-0.7	ESCF	12.51	294	P	27	02.13	1.8	
SQTA	8.62	342	iPnd	26	13.30	1.4	PRU	10.91	358	iPd	26	40.00	-0.4	ATE	12.60	294	P	27	01.98	0.5	
		i	27	39.50				1.6s	3460.00nm			6.3mb	X	ATE	12.60	294	P	27	03.54	2.1	
		i	27	52.70							i	26	44.80	ISSF	12.66	293	P	27	04.52	2.3	
PRK	8.65	85	iPn	26	13.50	1.4					S	28	39.80	MADF	12.70	294	P	27	03.02	0.3	
WATA	8.65	344	iPnd	26	13.80	1.6					i	28	48.10	BOH	12.83	293	P	27	05.80	1.4	
		i	27	55.20			CDF	10.92	331	eP	26	40.40	-0.2	STB	12.92	336	ePd	27	05.30	0.1	
SOP	8.66	6	iPc	26	13.10	0.9	PLDF	10.93	313	P	26	41.16	0.3		1.9s	820.00nm			5.7mb	X	
BNI	8.67	316	P	26	08.13	-4.4X	HAU	10.96	327	eP	26	40.40	-0.7	EALH	13.04	270	P	27	08.18	1.3	
LSD	8.69	320	Pd	26	13.43	0.5		0.5s	769.75nm			6.1mb	X	KLL	13.13	335	ePd	27	07.50	-0.4	
PVL	8.72	59	iP	26	12.00	-1.1	Z	18s	2.72um						ic			27	10.00		
MMK	8.74	325	P	26	13.02	-0.5	OKC	10.96	10	iPd	26	42.30	1.3	BNS	13.14	337	iPd	27	08.30	0.4	
MOTA	8.77	342	iPnd	26	15.20	1.5					e	26	58.30		2.6s	3600.00nm			6.2mb	X	
		i	26	17.80							S	28	40.00		i			28	28.40		
		iSn	27	47.00							e	28	54.00		i			29	35.10		
		i	27	57.50			GRF	10.97	346	ePnd	26	40.50	-0.7	ELIZ	13.21	293	P	27	09.47	0.5	
BHG	8.79	350	iPd	26	14.90	1.0		1.4s	3250.00nm			6.3mb	X	ETOR	13.31	283	P	27	05.94	-4.3X	
BUD	8.86	17	iPnc	26	14.60	-0.1					eS	28	38.50	DOU	13.31	329	Pd+	27	08.70	-1.3	
DEV	8.88	38	iPd	26	17.00	1.9	IZI	11.11	79	iP	26	43.10	0.0		S			29	34.00		
LPG	8.93	319	eP	26	18.40	2.5	GBZT	11.11	77	eP	26	43.10	0.1		i			30	06.00		
LPL	8.95	319	eP	26	18.80	2.6	PYM	11.17	311	P	26	44.68	0.9		iScP			35	20.50		
LLS	8.99	332	P	26	17.57	1.0	LESF	11.18	295	P	26	49.00	5.1X	ENN	13.37	334	iPc	27	11.30	0.6	
DIX	9.02	323	P	26	18.07	1.0	LANF	11.21	334	P	26	42.75	-1.4		1.0s	800.00nm			6.0mb	X	
SRO	9.02	14	iPd	26	17.20	0.4	SMF	11.21	316	eP	26	44.00	-0.2	BRNL	13.40	355	ePd	27	11.70	0.6	
		i	27	36.80			AGO	11.26	312	P	26	45.51	0.7		eS			29	40.00		
RSL	9.12	319	P	26	20.52	2.3	KHL	11.26	89	iP	26	46.40	1.4	BRN	13.40	355	iPd	27	12.00	0.9	
VKA	9.22	5	iPd	26	20.20	0.9	VITF	11.28	327	P	26	44.28	-0.7	MFF	13.49	309	eP	27	13.30	1.1	
	2.0s	6866.00nm			6.4mb	X	HRT	11.28	77	eP	26	45.30	0.1	DOMF	13.64	328	P	27	12.67	-1.3	
		i	27	09.50			DPC	11.31	4	iPd	26	44.52	-0.9	EVIA	13.76	274	P	27	16.76	1.0	
		iS	28	05.60			CAF	11.34	305	eP	26	47.10	1.2	SNF	13.76	330	iPd	27	13.87	-1.6	
ZST	9.22	8	iPd	26	19.60	0.3	LBF	11.35	318	eP	26	45.30	-0.7	ECRI	13.82	290	P	27	17.18	0.8	
		i	26	43.30			KTD	11.41	336	eP	26	47.60	0.9	ENIJ	13.84	267	P	27	16.80	0.2	
		i	27	35.80			CFR	11.41	54	ePc	26	47.00	0.3	EHUE	13.96	270	P	27	19.92	1.8	
		i	27	53.40			EROQ	11.45	283	P	26	47.88	0.7	UCC	13.96	331	iP	27	18.50	0.6	
EMS	9.24	322	P	26	21.22	1.5	HOF	11.46	349	iPd	26	46.30	-1.0	WTS	14.16	339	iPd	27	20.40	0.2	
JMB	9.31	65	iPc	26	20.00	-0.5	AVF	11.57	316	eP	26	48.40	-0.2		0.8s	579.50nm			6.0mb	X	
TNR	9.41	43	ePc	26	20.00	-1.8		0.5s	234.40nm			5.6mb	X	PPCY	14.37	102	eP	27	20.50	-2.5	
PSZ	9.48	20	iPnd	26	22.60	-0.1	LOR	11.60	318	eP	26	48.10	-0.9	KAS	14.41	75	iPc	27	24.60	1.1	
IMZ	9.49	90	eP	26	23.80	0.9		1.0s	1040.00nm			6.0mb	X	LDF	14.53	316	eP	27	23.30	-1.5	
FUR	9.50	344	iPd	26	23.30	0.4	Z	19s	4.57um			5.2msz		TAF	14.67	259	iPc	27	28.00	1.3	
ESEL	9.51	278	P	26	23.36	0.4	ALT	11.64	85	iP	26	50.40	0.7		i			27	29.50		
CMP	9.59	47	ePc	26	25.00	0.9	EYL	11.64	78	iP	26	46.30	-3.4X		i			30	10.50		
BUC1	9.69	54	iPc	26	28.00	2.8X	SSF	11.65	317	eP	26	49.20	-0.5	MENF	14.69	326	P	27	25.57	-1.1	
ZLA	9.73	332	P	26	26.28	0.5	MAP	11.68	312	eP	26	50.90	0.8	LPF	14.73	313	eP	27	25.50	-1.7	
GEC2	9.81	354	Pn	26	26.50	-0.4	BGF	11.71	314	eP	26	50.80	0.4	DBN	14.75	335	iP-	27	28.00	0.6	
	0.7s	474.50nm			5.7mb	X	GPA	11.75	79	eP	26	51.5									



05d 13h

WIT	14.93	340	eP	27	29.50	0.0	PTO	18.27	284	iPd	28	05.40	-0.5	MOS	22.40	35	iPc	28	47.00	0.6
EGUA	14.93	267	P	27	29.80	0.0				i	28	08.80			2.0s	610.00nm			5.7mb	
CSS	15.10	100	ePc	27	30.00	-1.8				iS	31	16.80				eS	32	29.00		
			eS	30	12.00		MASJ	18.29	107	Pd	28	07.08	0.9			e	32	35.00		
PAB	15.10	278	ePd	27	31.97	0.1	SAGI	18.30	113	eP	28	06.20	-0.1	MTA	22.69	74	iP+	28	49.60	0.3
	0.6s	221.94nm				5.7mb	MKRJ	18.31	108	Pc	28	07.41	0.9			iS	32	37.60		
			eS	30	16.09		MOE	18.32	276	iPd	28	06.00	-0.4	HYA	22.80	349	eP	28	48.57	-1.6
SIM	15.26	61	iP+	27	33.00	-0.7				i	28	10.50		PUL	22.82	20	ePd	28	49.00	-1.4
Z	14s	1.50um				4.8MsZ				iS	31	19.00			1.6s	3360.00nm			6.6mb	
			iS	30	16.00		EZAM	18.34	287	P	28	06.42	-0.2			esP	30	11.00		
ELUQ	15.31	270	P	27	34.58	0.0	KIB	18.35	256	iP	28	08.00	1.3			iS	32	33.00		
FAM	15.60	99	eP	27	36.50	-1.2	LISJ	18.35	109	Pd	28	07.56	0.9			i	39	22.00		
TOU	15.64	261	iP	27	40.00	1.8	ARVI	18.44	111	eP	28	07.70	0.1	SUE	22.93	347	eP	28	37.08	-14.3X
EHOR	16.03	272	P	27	41.40	-0.9	PRNI	18.48	112	eP	28	08.10	0.1	GRO	23.29	70	iPc+	28	58.00	3.0X
BSD	16.03	360	iPd	27	39.80	-2.4X	DHLJ	18.51	110	Pd	28	09.32	1.0		1.0s	2300.00nm			6.6mb	
ADAT	16.04	91	eP	27	41.20	-1.3	HCG	18.57	322	eP	28	06.90	-2.0	FOO	23.39	348	eP	28	52.82	-2.8X
KVT	16.12	76	eP	27	43.00	-0.4	MBH	18.71	114	eP	28	10.90	0.4	KAF	24.05	13	eP	28	59.90	-1.9
BNN	16.12	84	iP	27	43.00	-0.5	MDSJ	18.73	107	Pc	28	11.89	1.2	TAB	24.34	82	iPc	29	04.60	-0.4
EPUR	16.20	269	P	27	42.74	-1.5	AQBJ	18.86	114	Pc	28	13.19	1.3			i	29	05.80	4kmX	
HLW	16.20	120	iP+	27	44.40	0.2	TZC	18.87	255	iP	28	13.00	1.1			i	33	02.00		
			e	27	54.00		LIS	18.90	277	iPd	28	12.10	-0.2			i	34	42.00		
			iS	30	34.00		SOC	18.97	68	eP	28	11.00	-1.9			i	40	24.00		
										1.4s	3663.00nm		6.6mb	MAK	24.58	70	iPc+	29	08.00	1.2
TSZ	16.30	258	iP	27	45.50	0.3				eS	31	28.00				ePPP	30	03.00		
LIJA	16.35	269	iP	27	44.20	-1.8	NAQJ	19.03	112	Pd	28	15.37	1.5			iS	33	06.00		
EPLA	16.40	280	P	27	45.77	-0.6	AVE	19.08	259	iPd	28	14.00	-0.1	NSS	25.55	357	eP	29	12.80	-2.7X
EJIF	16.51	267	P	27	45.54	-2.0				i	29	40.00		UQSK	26.41	112	iPc	29	23.67	0.0
ALJ	16.56	268	iP	27	44.20	-4.0X				i	31	32.00		BAK	26.66	76	iPc	29	24.00	-1.7
COP	16.71	355	iPd-	27	47.20	-2.2				i	31	32.00				iS	33	40.00		
			eS	30	41.00		AYN	20.03	114	iPc	28	25.67	2.1			i	33	31.33	1.6	
			i	30	48.00		TIO	20.04	253	iPd	28	25.00	1.1	QASM	27.08	110	iPc	29	31.33	1.6
MOMI	16.74	267	iP	27	48.80	-1.2				i	28	43.20	93kmX	MOR8	27.13	359	eP	29	26.54	-3.3X
NKM	16.76	264	iP	27	50.50	0.3	EKA	20.36	329	P	28	24.00	-2.6X	TAIF	27.95	122	iPc	29	39.00	1.3
			i	30	42.00			0.4s	197.40nm				5.9mb	MJMA	28.51	109	iPc	29	42.53	0.1
CPS	16.78	265	iP	27	53.00	2.6	OUK	20.36	254	eP	28	31.00	4.2X	SDF	29.07	9	iP	29	45.20	-1.8
GIBL	16.79	269	iP	27	49.40	-1.2	ESK	20.37	329	ePd	28	24.72	-2.0	LOF	29.11	359	eP	29	43.79	-3.5X
PLAT	16.83	266	iP	27	50.20	-0.7	ESY	20.57	331	eP	28	26.70	-2.0	RYD	30.14	109	iPc	29	57.00	0.2
BIT	16.94	265	iP	27	51.70	-0.4	EBL	20.63	330	eP	28	27.40	-1.9	TRO	30.68	3	eP	29	57.64	-3.3X
TGT	16.97	259	iP	27	52.50	0.1	EDI	20.80	330	iPd	28	29.40	-1.4	LVZ	30.81	14	eP	30	00.08	-2.1
RANB	16.98	268	iP	27	51.30	-1.3		0.7s	1500.00nm				6.5mb	KEV	31.38	8	ePd	30	03.75	-3.3X
CNIL	16.98	267	iP	27	51.00	-1.6				iS	32	03.60		KMSA	31.38	118	iPc	30	08.33	0.7
MNK	17.07	26	eP	27	56.00	2.7X	EAU	20.84	330	eP	28	29.50	-1.8	ABHA	31.69	123	iPc	30	10.67	0.0
	1.5s	2352.00nm				6.4mb	UPP	20.85	4	iPd	28	29.60	-1.8	KMTA	31.83	123	iPc	30	12.67	0.9
			eS	30	56.00					i	29	51.00		DHR	31.89	103	iPc	30	07.50	-4.4X
SFS	17.08	268	iP	27	52.50	-1.1				i	31	59.00		AKU	32.75	335	iPd	30	19.20	0.3
ERUA	17.20	288	P	27	54.24	-0.6	CIA	20.87	256	iP	28	33.50	1.7		1.2s	781.25nm			6.2mb	
TSY	17.21	264	iP	27	54.50	-0.5	KONO	20.88	352	ePc	28	28.37	-3.3X	REY	33.20	331	iP	30	23.80	1.0
EVAL	17.24	272	P	27	54.02	-1.3	HFS	21.09	358	eP	28	31.50	-2.2	ARU	33.28	44	iPd-	30	22.00	-1.5
IFR	17.25	257	iP	27	56.00	0.4		0.5s	700.10nm				6.4mb		2.0s	900.00nm			6.0mb	
			i	31	00.00		Z	16s	1.19um				4.4MsZ		Z	13s	2.00um		5.0MsZ	
BHL	17.27	101	Pc	27	53.00	-2.7X				LR	34	28.00			E	12s	1.00um			
			S	30	54.00		BLS5	21.10	348	eP	28	45.35	11.5X			e	31	18.00	282kmX	
BRNI	17.27	105	eP	27	54.80	-0.8	KMY	21.11	346	eP	28	32.01	-1.9			i	31	46.00		
MIF	17.28	257	iP	27	56.50	0.8	KIV	21.14	68	iPc	28	35.00	0.5			i	35	16.20		
ADI	17.29	104	eP	27	55.50	-0.3		1.4s	2099.00nm				6.4mb	ASH	33.59	78	iPd	30	26.50	0.1
EMON	17.43	292	P	27	56.56	-0.7				e	29	54.70			1.4s	1350.00nm			6.3mb	
ATZ	17.44	105	eP	27	57.30	-0.1				eS	32	09.00				i	31	53.00	483kmX	
GAZ	17.46	89	eP	27	57.10	-0.5	EBH	21.16	330	eP	28	32.50	-1.9			iS	35	29.00		
MMR	17.48	104	eP	27	57.70	-0.2	EDU	21.19	331	eP	28	33.00	-1.7			e	37	06.00		
MAMI	17.49	106	eP	27	57.30	-0.7	EDR	21.30	333	eP	28	33.70	-2.0			SS	37	53.00		
HRSH	17.50	105	eP	27	57.70	-0.3	ELO	21.40	331	eP	28	35.00	-1.7			i	40	20.00		
ZNT	17.53	107	eP	27	57.90	-0.4	PYA	21.41	68	iPc	28	37.30	0.3	JNE	34.18	347	eP	30	29.86	-1.2
HRI	17.60	103	eP	27	59.00	-0.1		0.9s	400.00nm				5.9mb	JMI	34.21	346	eP	30	30.74	-0.6
GVMR	17.60	105	eP	27	59.50	0.5	Z	12s	2.00um				4.7MsZ	JNW	34.24	347	eP	30	30.66	-0.9
MML	17.72	106	eP	28	00.50	0.2	N	12s	0.90um					SVE	34.46	44	iPd	30	32.50	-1.1
HGH	17.73	321	eP	27	57.50	-2.8X	E	12s	1.50um						2.3s	560.00nm			5.7mb	
GLH	17.78	105	eP	28	01.30	0.4				iS	32	12.00		Z	16s	1.50um			4.8MsZ	
BGIO	17.82	108	eP	28	00.80	-0.6	EAB	21.44	329	eP	28	35.10	-2.0	N	15s	0.60um				
TNF	17.82	255	eP	28	06.00	4.7X	ODD1	21.53	348	eP	28	37.01	-1.0	E	15s	1.00um				
MUD	17.83	349	iPd	28	00.00	-1.2	OBN	21.54	35	ePd	28	36.45	-1.6			ePPP	32	00.00		
	0.3s	459.00nm				6.4mb		1.0s	1316.00nm				6.3mb		e	33	05.00			
			i	29	20.50		Z	14s	2.10um				4.7MsZ		iS	35	35.00			
			i	30	20.00		N	12s	2.00um					BCAO	34.63	174	iPc	30	35.40	0.0
HAE	17.86	322	eP	27	58.90	-2.7X	E	16s	2.50um						0.9s	203.00nm			5.7mb	
HMDT	17.88	106	eP	28	02.30	0.4				iS	32	12.00				i	31	05.00	136kmX	
JVI	17.91	107	eP	28	02.40	0.1	NRA0	21.79	355	P	28	38.60	-1.9			i	31	34.00		
YTIR	18.03	109	eP	28	02.80	-0.8				S	32	18.30				i	35	42.80		
DSI	18.11	108	eP	28	03.80	-0.5	NRE0	21.79	355	P	28	42.40	1.9	LKO	34.78	218	Pd	30	36.44	-0.2
SALJ	18.12	107	Pd	28	05.78	1.3				sP	30	05.60			0.5s	398.50nm			6.2mb	
RMN	18.13	112	eP	28	04.10	-0.5				S	32	21.40		MAIO	34.95	80	iPc	30	37.40	-0.6
CME	18.17	314	eP	28																



TIC	37.07 0.8s	215 P 75.00nm	30 55.11 5.3mb	-0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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05d 13h

FBA	0.9s	120.91nm	5.6mb	KDC	82.97	353 iP	36 05.36	0.1	ARUT	90.08	322 iP	36 40.14	-0.2			
	75.49	353 iP	35 24.14	-1.2		0.8s	161.78nm	5.9mb	LBFM	90.89	329 eP	36 43.93	-0.1			
GOGA	0.8s	66.71nm	5.4mb	OCO	83.16	311 iPc	36 08.10	1.4	KVN	91.22	325 eP	36 44.98	-0.5			
	75.72	301 ePd	35 25.83	-1.3	BUT	83.19	326 iPd	36 08.00	1.1	LTX	91.23	310 ePd	36 45.68	0.1		
TIA	1.0s	160.58nm	5.7mb	NEW	83.26	330 ePd	36 06.78	-0.2	LMEM	91.45	328 eP	36 46.66	0.1			
	76.19	55 eP	35 28.50	-1.2		1.1s	280.21nm	6.0mb	TNP	91.61	324 eP	36 46.82	-0.6			
	1.2s	130.00nm	5.5mb	LRM	83.29	326 iPd	36 07.57	0.1		1.0s	19.93nm	5.0mb				
		eS	44 44.00		FNO	83.30	310 iPd	36 07.90	0.5	WDC	91.80	329 eP	36 46.83	-1.1		
		SS	49 51.00		ACO	83.32	312 iPc	36 07.30	-0.2		1.7s	125.14nm	5.6mb			
CN2	76.26	44 iPd	35 29.00	-0.9	HBMT	83.38	326 iPd	36 07.91	-0.1	TPNV	92.09	323 eP	36 49.57	0.0		
	0.8s	130.00nm	5.7mb	BGMT	83.57	325 iPd	36 09.47	0.6		0.4s	2.95nm	4.6mb X				
		PcP	35 39.00		CACB	83.65	236 ePd	36 10.40	1.0	BONR	92.21	325 eP	36 50.43	0.2		
		epP	36 37.00	292kmX	TPMT	83.80	325 ePd	36 11.00	0.9	ORV	92.25	328 eP	36 48.86	-1.1		
		sP	37 06.00		IPM	83.94	89 ePc	36 10.00	-0.9	ORV	92.25	328 eP	36 53.39	3.4X		
		eS	44 48.00			0.6s	28.30nm	5.3mb		Z	19s	0.60um	5.1Msz			
		sS	46 44.00		DPW	84.00	331 eP	36 10.66	-0.1			eSKS	46 57.39			
		SS	49 51.00		LTMT	84.16	325 ePd	36 13.13	1.3			eLQ	05 48.39			
NST	76.46	81 eP	35 30.00	-1.4	MCMT	84.25	326 iPd	36 12.77	0.5			eLR	14 41.39			
SNY	76.51	47 iPd	35 29.00	-2.3	BW06	84.34	323 iPd	36 11.89	-0.9	KMPM	92.56	330 eP	36 52.16	0.6		
	Z	20s	0.85um	5.1Msz		1.0s	258.87nm	6.0mb		TUC	93.02	317 ePd	36 54.96	1.2		
		S	44 50.00		GLD	84.46	318 iP	36 13.58	0.2		1.2s	150.72nm	5.9mb			
LOE	76.65	78 eP	35 30.20	-2.3		1.3s	393.23nm	6.1mb		CMB	93.06	326 eP	36 53.46	-0.3		
ANM	76.69	0 iP	35 30.67	-1.2	WMOK	84.48	311 eP	36 12.90	-0.4		1.6s	77.41nm	5.5mb			
ELC	77.02	308 eP	35 32.40	-1.8		1.1s	333.91nm	6.1mb		HMR	93.56	327 eP	36 55.87	-0.1		
DL2	77.26	50 eP	35 34.70	-0.8	GOL	84.57	318 ePd	36 13.68	-0.3	GSC	93.69	322 eP	36 56.92	0.1		
	1.0s	100.00nm	5.5mb			0.9s	160.97nm	5.9mb		ARN	94.12	327 eP	36 58.96	0.2		
		S	44 56.00		ASAJ	84.58	35 P	36 12.40	-1.2	COE	94.26	327 eP	36 59.55	0.2		
FVM	77.31	309 iP	35 34.59	-1.2	SAW	84.59	331 P	36 14.06	0.4	GLA	94.53	320 eP	37 00.81	0.1		
	0.5s	546.12nm	6.5mb		VAO	84.75	235 eP	36 16.20	1.5	PHAM	94.90	325 eP	37 02.57	0.3		
CCM	77.76	309 (P)	35 36.88	-1.4	WTV	84.80	331 P	36 14.64	-0.1	SSK	95.00	322 eP	37 03.16	0.2		
	0.5s	213.63nm	6.1mb		MCW	85.01	334 eP	36 15.17	-0.6	PEC	95.00	322 eP	37 02.37	-0.5		
LST	77.81	307 eP	35 37.55	-1.0	JCW	85.11	333 P	36 15.23	-1.0		1.4s	144.77nm	6.0mb			
WHN	77.87	61 eP	35 38.50	-0.5	WAH2	85.44	331 P	36 18.15	0.3	LPZ	95.02	253 P	37 02.50	-1.2		
		S	45 06.00		PTI	85.57	324 eP	36 18.90	0.1			LR	49 39.00			
MDJ	77.91	42 Pc	35 38.10	-0.9	LNOR	85.68	329 P	36 18.65	-0.4	LPB	95.15	253 P	37 01.00	-3.0X		
	1.4s	150.00nm	5.5mb		RMW	85.68	332 eP	36 18.49	-0.6	ABL	95.19	324 eP	37 03.74	-0.1		
		S	45 04.00		EBG	85.69	331 P	36 18.64	-0.5	BCH	95.30	325 eP	37 04.63	0.4		
MDJ	77.91	42 eP	35 34.14	-4.8X	STW	85.75	334 P	36 19.89	0.6	MRWA	115.66	108 ePKP	42 19.50	-1.7		
	1.4s	150.00nm	5.5mb		SDN	85.87	358 iP	36 18.73	-1.0	BAL	116.91	109 ePKP	42 22.00	-1.6		
		S	45 04.00			0.4s	189.39nm	6.3mb		MUN	117.25	110 ePKP	42 23.00	-1.2		
TOA	78.03	351 ePd	35 39.30	-0.1	GMW	85.96	333 eP	36 20.85	0.5	MTN	118.12	84 ePKP	42 25.00	-1.2		
PCT	78.04	81 eP	35 40.50	0.4	SHNJ	86.10	48 P	36 21.30	0.1	NWAO	118.48	111 ePKP	42 25.44	-1.0		
TTA	78.08	356 iP	35 39.41	-0.3	HOQJ	86.24	36 eP	36 20.00	-1.8	COOL	120.34	107 ePKP	42 28.20	-1.9		
	1.6s	352.56nm	5.8mb		LON	86.29	332 eP	36 21.57	-0.5		0.3s	15.00nm				
BALM	78.55	349 iP	35 41.83	-0.5	KUSJ	86.31	34 P	36 20.20	-1.9	WB5	124.74	88 iPKP	42 32.40	-6.5X		
KLU	78.59	351 iP	35 41.65	-0.9	HVU	86.61	324 eP	36 23.21	-0.6	WRA	124.75	88 PKP	42 38.00	-0.9		
PMR	78.86	352 iP	35 42.91	-0.9	JBO	86.62	330 P	36 23.38	-0.3		0.9s	7.20nm				
	0.9s	238.49nm	6.0mb		YONJ	86.69	46 P	36 22.70	-1.4	WB2	124.76	88 iPKPc	42 37.20	-1.7		
PWA	78.88	353 ePd	35 43.50	-0.4	ASR	86.71	331 P	36 24.14	0.0		0.9s	11.00nm				
OXF	78.89	305 ePd	35 42.38	-2.1	ONR	86.88	333 P	36 25.58	0.8			epP	44 12.50			
PMS	79.25	353 ePd	35 45.50	-0.4	PPD	86.89	238 ePd	36 26.40	1.3			ePP	45 20.70			
CRP	79.46	354 eP	35 45.46	-1.8	SHW	86.91	332 eP	36 25.29	0.1	PMG	128.02	69 ePKP	42 44.09	-1.2		
CP2	79.47	354 eP	35 45.62	-1.7	VGB	86.94	331 eP	36 25.29	0.1			eSKP	45 34.08			
SVW	79.87	355 iP	35 49.16	-0.1	DAU	86.97	322 eP	36 25.07	-0.7	CTAO	134.06	80 ePKP	42 55.60	-1.0		
	1.2s	490.26nm	6.2mb		BMW	87.03	333 eP	36 26.09	0.4			eSKP	45 56.17			
NJ2	79.92	57 Pc	35 49.60	-0.4	KUMJ	87.07	50 P	36 25.00	-0.9	TOO	141.41	104 ePKP	43 05.30	-4.5X		
	1.0s	65.00nm	5.4mb		PV08	87.10	319 eP	36 26.08	-0.4		0.4s	11.00nm				
		S	45 26.00		EMUT	87.22	321 eP	36 25.80	-1.1	CAN	143.35	99 ePKP	43 08.20	-5.0X		
		SKS	45 39.00		RSTA	87.25	235 eP	36 28.50	1.8	ARMA	143.50	90 ePKP	43 11.00	-2.7X		
		SS	50 45.00		KGM	87.32	90 eP	36 28.00	0.6		0.9s	22.00nm				
TOV	80.00	274 ePc	35 51.80	1.1	PV09	87.40	320 iP	36 27.72	-0.2	BKM	148.34	55 iPKPc	43 25.00	3.2X		
SLKM	80.04	353 eP	35 49.16	-0.9	PV10	87.45	319 iP	36 27.85	-0.2	DZM	150.21	64 iPKPc	43 30.40	5.7X		
BDFB	80.19	241 ePd	35 51.52	-0.2	CROR	87.47	331 P	36 27.61	-0.2	TPT	151.61	323 iPKPd	43 32.80	6.1X		
	0.4s	157.45nm	6.1mb		SRU	87.63	321 eP	36 27.66	-1.1		1.6s	798.50nm				
RSSD	80.66	320 iPd	35 53.64	-0.3	VBEM	87.63	331 P	36 28.65	0.0	RUV	151.67	322 iPKPd	43 33.40	6.6X		
	0.5s	82.37nm	5.8mb		VIPM	87.73	330 P	36 29.07	-0.1		1.4s	428.70nm				
SIT	81.03	344 iP	35 55.90	0.6	KMOR	87.85	332 P	36 30.28	0.7	PMO	151.75	323 iPKPd	43 33.90	6.9X		
	1.0s	87.72nm	5.5mb		DUG	87.88	323 eP	36 29.55	-0.4		1.3s	421.70nm				
SDV	81.20	274 ePd	35 57.00	-0.1		0.8s	96.79nm	5.7mb		VAH	151.83	323 iPKPd	43 34.60	7.5X		
MIAR	81.48	308 ePd	35 57.49	-0.5	TKSJ	87.89	47 P	36 29.30	-0.6		1.3s	287.40nm				
	1.1s	391.00nm	6.1mb		YAMJ	87.96	40 eP	36 30.00	-0.2			S.D. = 1.2 on 620 of 710 obs.				
		(pP)	37 04.03	281kmX	MTMJ	88.02	43 P	36 29.50	-1.1			JAN 05, 1994 14h 25m 45.26± 0.41s				
		ePP	39 04.19		KAGJ	88.06	51 P	36 29.00	-1.7			6.163 S ± 3.0km 146.392 E ± 3.7km				
TUL	81.90	310 iPc	35 59.90	-0.3	OFUJ	88.07	39 eP	36 27.80	-2.8X			DEPTH = 80.5 ± 3.7 km				
SNG	82.02	87 eP	36 01.30	0.2	MAJO	88.26	42 eP	36 28.03	-3.6X			5.3mb ( 41 obs.)				
		eS	45 48.80			1.4s	83.53nm	5.4mb				EASTERN NEW GUINEA REG., P.N.G. (207)				
SSE	82.06	56 Pd	36 00.50	-0.6	MAT	88.26	42 eP	36 30.00	-1.7			YYYY	0.43	259 iPd	25 57.70	-1.1
	1.4s	82.00nm	5.3mb			1.2s	59.38nm	5.4mb</								



05d 14h

MTN	16.45	245 eP	29 33.00	0.5	XAN	53.42	321 P	34 58.40	-0.8	BAO	154.08	147 ePKP	45 31.40	1.6	
	0.3s	85.00nm		5.4mb			1.0s	40.00nm	5.4mb			i	45 38.40		
		eS	32 25.50					pP	35 12.00	50kmX		i	45 51.60		
WB2	18.01	219 eP	29 50.50	-1.4				sP	35 22.70		S.D. = 0.9 on 108 of 116 obs.				
	0.5s	86.90nm		5.2mb	BJI	53.75	331 eP	35 00.50	-0.9	-----					
		i	29 55.60			1.5s	28.00nm		5.1mb	JAN 05, 1994 14h 28m 05.81± 0.53s					
		eS	33 06.00		TIY	53.91	327 eP	35 01.80	-0.9	6.902 N ± 9.8km 73.149 W ± 7.7km					
WRA	18.02	219 P	29 50.79	-1.2		Z	32s	0.98um	4.7MsZ	DEPTH = 173.4 ± 5.8 km					
	0.6s	32.90nm		4.7mb	CD2	54.96	315 iPc	35 09.90	-0.6	4.5mb ( 6 obs.)					
GUMO	19.68	356 eP	30 10.30	-0.4			0.8s	42.00nm	5.5mb	NORTHERN COLOMBIA ( 99)					
	1.0s	179.30nm		5.3mb	HHC	56.65	329 P	35 21.80	-0.8	MD 4.8 (UFA).					
KNA	19.74	240 eP	30 09.50	-1.8			1.0s	16.00nm	5.1mb						
ASPA	21.15	213 iPd	30 25.80	0.1	BTO	57.28	328 eP	35 26.00	-1.0	BMG	0.18	24 iPc	28 30.00	-0.5	
	1.0s	66.10nm		4.9mb	LZH	57.94	320 eP	35 31.00	-0.8	BOG	2.44	202 iPc	28 49.00	0.8	
		eP	30 45.70	95kmX			1.0s	49.00nm	5.6mb			iS	29 19.00		
		eS	34 16.90					pP	35 45.00	51kmX	SDV	3.18	51 iPnd	28 57.60	0.5
BKM	24.21	120 iPc	30 45.00	-10.8X				sP	35 52.00				iSn	29 35.50	
ARMA	24.63	169 eP	31 00.00	0.3	GTA	62.48	321 Pc	36 02.50	-0.2	TOV	4.39	49 ePnc	29 12.90	0.5	
	0.6s	14.00nm		4.6mb		1.0s	12.00nm		4.9mb			iPP	29 13.00		
		e	31 28.10		LSA	63.86	307 P	36 13.20	0.9			iSn	30 03.00		
DZM	25.01	131 iPc	31 03.30	-0.1		0.6s	17.00nm		5.2mb	MORO	6.19	50 eP	29 21.60	-14.6X	
CTB	25.82	301 ePc	31 13.00	2.2	CSY	64.95	195 iPd	36 17.50	-0.7	UPA	6.65	289 eP	29 40.99	-1.2	
WARB	27.42	221 eP	31 25.50	0.1		0.5s	57.20nm		5.8mb	ECO	6.93	291 eP	29 45.68	-0.2	
	0.7s	28.00nm		4.9mb	PMO	65.00	104 eP	36 21.10	1.8			eS	31 01.79		
MBL	29.73	237 eP	31 45.50	-0.7	VAH	65.25	104 eP	36 22.60	1.6	PSO	7.04	216 eP	29 48.00	0.3	
	0.4s	6.00nm		4.6mb	TPT	65.27	104 eP	36 24.60	3.6X	LPZ	23.57	168 P	32 46.00	-16.6X	
FORT	29.93	213 eP	31 49.00	1.1	RUV	65.49	104 eP	36 26.30	3.8X	LPB	23.81	168 eP	32 50.00	-14.7X	
TSM	30.31	289 eP	31 51.50	0.1	GUN	67.45	303 P	36 35.40	0.1	SIV	25.70	152 P	33 50.80	29.0X	
TOO	31.27	181 iPd	31 59.90	0.2	PKI	67.73	303 P	36 36.90	-0.1	YKA	63.18	340 eP	38 18.10	0.9	
	1.1s	54.00nm		5.2mb	KKN	67.91	303 P	36 38.00	0.0		0.6s	6.60nm		4.7mb	
KKM	32.47	291 ePd	32 15.50	5.1X	DMN	67.99	303 P	36 39.00	0.4	LKO	66.83	83 P	38 40.30	-1.2	
MEEK	33.39	229 iPc	32 17.40	-0.8	GKN	68.51	303 P	36 41.80	0.1		0.7s	3.50nm		4.2mb	
	0.5s	39.00nm		5.5mb	YAK	69.19	352 iPc	36 44.40	-0.5	TIC	67.60	86 P	38 45.23	-1.1	
COOL	34.14	221 eP	32 24.00	-0.7		1.5s	88.00nm		5.4mb		0.7s	4.00nm		4.3mb	
MRWA	36.73	228 eP	32 46.00	-0.6	KOD	70.54	283 eP	36 55.30	0.9	LIC	67.62	86 P	38 45.53	-0.9	
	0.5s	14.00nm		5.1mb	HYB	70.95	291 ePc	36 56.00	-0.5		0.6s	8.00nm		4.7mb	
KLB	36.84	223 iPc	32 41.60	-5.9X		1.0s	50.00nm		5.4mb	KIC	67.90	86 Pc	38 47.35	-0.8	
	0.3s	12.00nm		5.3mb			i	37 16.50			0.6s	12.50nm		4.9mb	
BAL	36.99	225 eP	32 48.20	-0.5	GBA	71.20	287 Pc	36 59.00	1.0	GEC2	82.78	42 P	40 12.90	1.1	
	0.4s	12.00nm		5.2mb	WMQ	72.52	320 P	37 05.40	-0.1		0.5s	0.49nm		3.6mb	
NWAO	38.00	222 eP	32 56.90	-0.4		1.0s	14.00nm		4.8mb	GKN	139.20	31 PKP	47 16.20	1.6	
MUN	38.13	224 eP	32 58.00	-0.3			pP	37 16.00	34kmX	KKN	139.70	30 PKP	47 16.50	0.9	
LEM	38.52	267 ePc	33 03.00	1.0	POO	75.56	291 iPc	37 23.80	0.3	GUN	139.90	29 PKP	47 15.60	-0.6	
RKG	39.18	220 eP	33 07.80	0.8		0.9s	40.34nm		5.3mb	ASPA	149.14	234 iPKPc	47 36.50	5.1X	
KAGJ	39.99	339 P	33 13.60	-0.1	KSH	79.01	312 eP	37 44.50	2.2		0.6s	12.40nm			
KUMJ	41.24	340 P	33 23.60	-0.3	ANM	79.06	19 eP	37 42.40	0.5	WB2	150.34	241 iPKPd	47 39.70	6.5X	
WKYJ	41.44	346 P	33 24.40	-1.3	SVW	80.63	25 eP	37 51.01	0.6		0.4s	19.30nm			
TKSJ	41.60	344 P	33 26.50	-0.4		1.2s	51.02nm		5.3mb			e	48 21.10		
IIDJ	42.18	350 P	33 30.80	-0.9	TTA	81.43	23 eP	37 55.50	0.9	WRA	150.35	241 PKP	47 35.30	2.0X	
CHJJ	42.56	351 P	33 34.40	-0.3	SLKM	82.66	26 eP	38 00.46	-0.5		0.5s	3.60nm			
SHNJ	42.60	341 P	33 34.20	-0.8	PMR	83.61	26 ePc	38 05.20	-0.5	S.D. = 1.0 on 16 of 23 obs.					
TSRJ	42.62	347 P	33 34.20	-1.0	IMA	83.92	21 eP	38 07.01	-0.4	-----					
YONJ	42.90	344 P	33 37.20	-0.3		1.2s	13.33nm		4.8mb	%	JAN	05, 1994	14h 36m 54.35± 1.03s		
MAT	43.17	350 iPc	33 38.40	-1.3	QUE	84.01	301 eP	38 09.70	1.0			32.940 S ±11.8km	70.320 W ±16.5km		
	0.9s	16.81nm		4.9mb	KLU	84.98	26 eP	38 12.31	-0.4			DEPTH = 110.0km (geophysicist)			
		eS	40 06.00		TOA	85.10	26 eP	38 13.80	0.5	CHILE-ARGENTINA BORDER REGION (127)					
MTMJ	43.28	350 P	33 39.90	-0.8	FBA	85.57	23 eP	38 14.56	-0.9	MD 3.8 (SAN).					
NIIJ	43.72	351 P	33 43.70	-0.4		0.7s	18.81nm		5.2mb	JACH	0.34	318 iPd	37 10.50	-0.2	
KGM	43.77	279 ePc	33 46.00	1.1	BALM	86.43	28 eP	38 20.00	0.0	PEL	0.37	236 iP+	37 10.78	0.1	
QIZ	43.85	306 Pc	33 46.00	0.5	SIT	88.80	32 (P)	38 31.85	0.7			iS	37 23.19		
SSE	44.20	328 Pd	33 47.80	-0.2		0.9s	7.68nm		4.9mb	FCH	0.39	176 iP+	37 11.09	-0.1	
	1.0s	63.00nm		5.4mb	SYO	90.26	200 ePc	38 38.00	0.1	ROCH	0.58	267 iP	37 12.40	0.1	
		pP	34 02.50	57kmX	ORV	95.50	51 eP	39 02.69	0.1			iS	37 26.08		
NJ2	46.18	327 Pc	34 04.00	0.2	NEW	98.88	42 eP	39 18.10	0.4	PCH	0.70	193 iP+	37 13.19	0.1	
IPM	46.54	282 ePc	34 06.70	-0.2	GEC2	121.70	325 PKP	44 30.90	-0.6			iS	37 27.99		
	0.8s	92.20nm		5.7mb		0.5s	1.01nm			TACH	0.88	216 iP+	37 14.54	-0.1	
WHN	47.68	322 Pc	34 16.20	0.5			e	44 33.20				iS	37 30.72		
	1.0s	60.00nm		5.5mb	BCAO	128.07	271 iPKPd	44 46.00	1.3	LCCH	1.18	243 iP	37 18.12	0.4	
LOE	49.94	299 iPc	34 33.10	-0.2		0.9s	36.00nm					iS	37 36.03		
TIA	50.30	329 eP	34 34.60	-1.1	LPB	139.10	124 PKP	44 58.00	-8.0X	CACH	1.20	191 iP+	37 18.36	0.2	
GYA	50.34	312 iPc	34 37.00	0.7	LPZ	139.20	124 PKP	44 56.20	-10.2X	LNV	1.36	222 iP	37 19.24	-0.6	
	1.0s	33.00nm		5.3mb	TOV	144.00	82 ePKPd	45 12.70	-1.5	S.D. = 0.3 on 9 of 9 obs.					
NST	50.68	296 iPc	34 39.70	0.8	SIV	145.02	129 PKP	45 14.90	-0.9	-----					
SNY	52.11	338 Pc	34 48.40	-0.9	RSTA	145.89	154 ePKP	45 18.00	0.9	? JAN	05, 1994	15h 02m 04.56± 1.94s			
	1.6s	54.00nm		5.3mb			e	45 35.70				40.419 N ±20.8km	29.218 E ± 8.5km		
BDT	52.28	297 eP	34 51.00	0.1	VAO	148.21	156 ePKP	45 24.90	4.0X	DEPTH = 10.0km (geophysicist)					
	0.8s	77.90nm		5.8mb	KIC	151.31	272 PKP	45 26.14	0.3	TURKEY (366)					
KMI	52.62	308 Pc	34 54.00	0.3		1.1s	110.50nm			ML 2.5 (ISK).					
	1.0s	60.00nm		5.6mb	LIC	151.59	272 PKP	45 26.90	0.7	IZI	0.21	113 iPg	02 09.80	0.6	
MDJ	52.76	345 Pc	34 53.30	-0.8		1.1s	145.50nm					eSg	02 13.30		
	0.9s	42.00nm		5.5mb	Z	20s	0.60um		5.4MsZ	DST	0.93	209 ePg	02 23.00	0.6	
CHTO	52.93	299 ePc	34 56.90	1.1	TIC	151.59	273 PKP	45 26.64	0.4			eSg	02 36.50		
	1.0s	108.75nm		5.8mb		1.0s	109.00nm			EDC	1.04	266 ePn	02 24.00	-0.1	
CN2	53.21	341 eP	34 56.00	-1.4	LKO	152.05	279 PKP	45 27.02	0.1						
	0.8s	12.00nm		5.0mb		0.9s	152.50nm								
		eP	35 08.50	45kmX	BDFB	154.06	147 ePKP	45 31.34	1.6						
		eS					e	45 38.46							



05d 15h

ALT 1.53 153 ePn 02 30.90 -1.1  
S.D. = 1.4 on 4 of 4 obs.

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\* JAN 05, 1994 15h 17m 01.23± 0.77s  
26.319 S ± 7.5km 27.513 E ± 7.6km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.6 (PRE).

KSR 0.72 309 eP 17 15.50 0.0  
SLR 0.90 50 eP 17 19.00 -0.1  
S 17 32.50  
SEK 2.00 177 eP 17 35.50 -0.7  
S 18 05.00  
SWZ 2.14 246 eP 17 43.50 5.3X  
S 18 06.00  
NWL 2.59 123 eP 17 45.00 0.4  
S 18 13.00  
BOSA 2.95 219 eP 17 50.00 0.4  
S 18 19.80  
BUL 6.23 10 iPn 18 43.00 6.8X  
iSg 19 15.40  
S.D. = 0.6 on 5 of 7 obs.

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\* JAN 05, 1994 15h 26m 29.48± 0.54s  
32.471 S ±10.6km 69.750 W ±13.1km  
DEPTH = 130.0km (geophysicist)  
MENDOZA PROVINCE, ARGENTINA (139)  
MD 3.8 (SAN).

JACH 0.74 253 iP 26 50.18 -0.4  
iS 27 06.20  
FCH 0.97 208 iP 26 52.68 -0.1  
iS 27 09.94  
PEL 1.03 229 iPd 26 52.88 -0.2  
iS 27 09.53  
ROCH 1.17 244 iP 26 54.34 -0.3  
iS 27 12.64  
RTCB 1.27 40 eP 26 55.00 -0.5  
S 27 13.50  
PCH 1.31 209 iP 26 56.84 0.9  
iS 27 16.22  
TACH 1.54 220 iP 26 58.51 0.1  
iS 27 19.51  
CFA 1.55 57 ePc 26 57.80 -0.7  
S 27 18.70  
CACH 1.79 203 iP 27 02.66 1.2  
iS 27 26.99  
LCCH 1.83 236 iP 27 01.20 -0.6  
iS 27 25.12  
LNV 2.03 223 iP 27 03.50 -0.7  
RTRS 2.31 6 eP 27 09.00 1.3  
S 27 39.00  
S.D. = 0.8 on 12 of 12 obs.

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JAN 05, 1994 15h 37m 14.38± 0.69s  
26.351 S ± 6.8km 27.461 E ± 6.3km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.5 (PRE).

KSR 0.70 314 eP 37 28.00 -0.4  
BFS 0.81 228 iPc 37 31.00 0.3  
S 37 40.40  
SLR 0.96 50 eP 37 33.60 0.4  
S 37 47.00  
SEK 1.97 176 iPc 37 47.90 -1.0  
S 38 12.90  
SWZ 2.08 246 eP 37 50.30 -0.2  
S 38 14.20  
NWL 2.61 122 eP 37 58.00 0.0  
BOSA 2.89 218 eP 38 03.00 1.0  
S 38 42.40  
BUL 6.27 10 iPn 38 42.90 -7.1X  
i 39 06.70  
iSg 39 28.20  
S.D. = 0.8 on 7 of 8 obs.

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& JAN 05, 1994 15h 45m 22.35s  
61.101 N 150.391 W  
DEPTH = 15.1km  
SOUTHERN ALASKA ( 2 )  
<AEIC>. ML 2.6 (AEIC).

SUA 0.40 335 iP 45 30.73 0.0  
eS 45 37.31  
PMS 0.43 70 P 45 31.10 0.0

NKA 0.55 229 eP 45 34.93 1.8  
SLKM 0.60 172 iP 45 33.64 -0.4  
eS 45 41.75  
PWA 0.60 24 P 45 33.90 -0.2  
PLRM 0.78 50 eP 45 35.83 -1.3  
eS 45 46.07  
PMR 0.78 50 eP 45 35.57 -1.5  
MPA 0.80 140 eP 45 37.50 0.2  
CGLM 0.81 286 eP 45 36.98 -0.7  
SPU 0.81 276 iP 45 36.84 -0.8  
eS 45 47.51  
CRP 0.87 282 P 45 38.00 -0.7  
CKN 0.88 279 iP 45 38.17 -0.6  
CKT 0.89 277 iP 45 38.03 -0.9  
NCG 0.91 290 iP 45 38.60 -0.7  
eS 45 50.56  
BKG 0.91 269 iP 45 38.53 -0.8  
CP2 0.91 281 iPd 45 38.47 -1.0  
CKL 0.95 277 eP 45 39.15 -0.9  
GHO 0.98 46 eP 45 39.38 -1.1  
BGL 0.98 280 iP 45 39.69 -0.9  
KNK 0.99 71 eP 45 40.27 -0.3  
PWL 1.03 103 eP 45 40.81 -0.6  
SKT 1.04 329 iP 45 40.84 -0.6  
SML 1.22 53 eP 45 43.30 -1.3  
DFR 1.23 247 eP 45 43.58 -1.3  
eS 46 00.10  
CFI 1.28 85 eP 45 44.38 -1.1  
REF 1.29 243 eP 45 44.55 -1.3  
RDW 1.34 243 eP 45 45.16 -1.4  
RED 1.35 241 eP 45 45.55 -1.2  
eS 46 03.57  
NCT 1.36 248 eP 45 45.46 -1.3  
HOM 1.58 204 eP 45 47.49 -2.2  
ILIM 1.63 232 eP 45 49.54 -1.1  
CNPM 1.64 195 eP 45 49.94 -0.7  
SCM 1.64 62 eP 45 50.94 0.1  
VZW 1.87 90 eP 45 53.70 -0.3  
HUR 1.92 10 eP 45 54.15 -0.6  
FID 1.94 99 eP 45 54.48 -0.6  
VLZ 1.97 87 eP 45 54.12 -1.3  
OPT 2.02 225 eP 45 56.55 0.2  
HIN 2.04 109 eP 45 55.80 -0.7  
KLU 2.19 78 eP 45 58.81 0.0  
TOA 2.25 62 P 46 00.60 0.9  
PDB 2.30 237 eP 46 00.11 -0.1  
CVA 2.34 102 eP 46 00.00 -0.8  
RND 2.42 17 eP 46 01.37 -0.7  
DHY 2.44 34 eP 46 01.00 -1.3  
SVW 2.54 272 P 46 02.30 -1.4  
TZL 2.56 66 eP 46 03.17 -0.7  
SYI 2.70 203 eP 46 04.88 -1.0  
CDD 2.72 218 eP 46 05.80 -0.5  
GLB 3.20 81 eP 46 11.41 -1.6  
BALM 3.91 87 eP 46 22.20 -1.0  
FBA 3.99 16 eP 46 24.40 0.2  
ILB 4.02 22 eP 46 23.36 -1.2  
BC3 4.50 60 eP 46 29.86 -1.6  
IM3 5.13 344 eP 46 39.61 -0.7  
55 obs. associated

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& JAN 05, 1994 15h 57m 04.07s  
42.382 N 122.067 W  
DEPTH = 6.7km  
OREGON ( 32 )  
<SEA-P>. MD 2.9 (SEA). ML 3.2  
(GS).

LAB 0.11 179 P 57 06.70 -0.1  
VRC 0.12 248 P 57 07.10 0.4  
S 57 09.39  
HAMO 0.32 167 P 57 10.84 0.2  
S 57 15.75  
BBOR 0.68 318 Pd 57 16.81 -0.9  
LBFM 1.04 173 ePc 57 23.38 -0.8  
eS 57 37.95  
DBO 1.14 311 P 57 24.99 -0.7  
HSO 1.37 327 P 57 28.97 -0.7  
HBO 1.47 353 P 57 31.34 0.1  
NCOR 1.49 27 P 57 31.60 0.2  
WDC 1.84 191 eP 57 36.07 -0.2  
LMEM 1.88 168 (P) 57 38.01 0.9  
FBO 1.96 349 P 57 39.12 0.9  
FHC 2.14 223 (P) 57 40.27 -0.4  
KMPM 2.50 219 eP 57 46.32 0.4  
ORV 2.86 171 (P) 57 53.17 2.2  
15 obs. associated

? JAN 05, 1994 16h 06m 22.87± 0.99s  
39.651 N ± 9.7km 29.483 E ± 9.9km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

DST 0.66 266 ePg 06 35.60 -0.5  
eSg 06 46.60  
IZI 0.68 359 iPg 06 36.20 -0.3  
iSg 06 47.20  
ALT 0.77 141 ePg 06 38.00 0.1  
EDC 1.42 300 ePn 06 49.50 0.7  
S.D. = 0.9 on 4 of 4 obs.

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JAN 05, 1994 16h 23m 54.69± 0.48s  
40.855 N ± 3.9km 22.906 E ± 4.2km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 2.4 (THE), 2.1 (SKO).

THE 0.23 169 iPg 23 59.50 0.2  
eSg 24 03.02  
KNT 0.31 359 iPg 24 01.14 0.2  
eSg 24 05.46  
SOH 0.34 95 iPg 24 01.89 0.3  
eSg 24 06.94  
GRG 0.40 285 iPg 24 02.37 -0.3  
eSg 24 08.30  
VAY 0.53 331 iPg 24 05.30 0.0  
0.2s 70.00nm  
iSg 24 12.40  
SRS 0.58 63 iPg 24 06.14 -0.2  
eSg 24 13.98  
LIT 0.82 203 ePg 24 11.42 0.4  
eSg 24 23.22  
OUR 0.97 122 iPg 24 13.50 -0.1  
eSg 24 26.46  
PAIG 1.10 147 iPg 24 15.17 -0.6  
iSg 24 30.26  
S.D. = 0.4 on 9 of 9 obs.

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% JAN 05, 1994 16h 43m 32.30± 0.62s  
40.830 N ± 5.0km 22.886 E ± 5.4km  
DEPTH = 10.0km (geophysicist)  
GREECE (364)  
ML 1.7 (THE).

THE 0.21 163 iPg 43 37.42 0.6  
eSg 43 40.72  
KNT 0.33 2 iPg 43 39.17 0.0  
eSg 43 43.40  
SOH 0.36 91 iPg 43 39.98 0.3  
iSg 43 45.33  
GRG 0.39 289 iPg 43 40.50 0.2  
iSg 43 46.10  
SRS 0.61 62 iPg 43 44.21 -0.4  
iSg 43 52.01  
LIT 0.79 203 ePg 43 47.16 -0.5  
eSg 43 59.40  
PAIG 1.09 146 ePg 43 52.36 -0.4  
eSg 44 07.48  
S.D. = 0.5 on 7 of 7 obs.

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JAN 05, 1994 16h 50m 08.91± 1.31s  
21.204 N ± 6.4km 122.115 E ± 9.1km  
DEPTH = 38.0 ± 14.0 km  
4.1mb ( 11 obs.)  
TAIWAN REGION (243)

CVP 3.49 185 ePc 51 03.00 0.8  
GQP 7.27 177 eP 51 55.00 -0.4  
HKC 7.46 280 P 51 53.80 -4.4X  
iS 53 11.00  
GYA 15.07 293 P 53 44.80 3.7X  
1.0s 11.00nm 4.1mb  
Z 20s 0.61um  
XAN 17.30 320 P 54 08.60 -0.7  
TIY 18.47 335 eP 54 24.00 0.3  
Z 16s 0.60um  
E 13s 0.39um  
CD2 19.09 304 iPd 54 30.30 -1.0  
BJI 19.45 346 eP 54 35.50 0.3  
1.0s 6.00nm 3.8mb  
MAT 20.74 39 (P) 54 48.00 -0.9  
eS 04 14.00  
HHC 21.54 338 eP 54 57.20 0.2



05d 16h

LZH	21.78 317 eP	55 01.50 1.9	SOH	0.91 212 ePg	24 21.30 -0.3	EBAN	1.59 335 eP	22 31.62 0.8
	1.8s 59.00nm	4.7mb		eSg	24 33.58		eS	22 51.00
CHTO	21.90 268 eP	55 02.00 1.4	KNT	0.93 242 ePg	24 21.17 -0.7	EVIA	1.95 10 eP	22 37.30 1.2
MDJ	24.16 13 eP	55 26.00 3.5X		eSg	24 33.30		eS	23 01.50
	1.2s 27.00nm	4.7mb	OUR	1.26 180 iPbc	24 27.61 0.0	S.D. = 1.2 on 8 of 8 obs.		
GTA	26.34 319 eP	55 43.00 -0.3		iSb	24 45.78	JAN 05, 1994 21h 39m 22.40± 0.20s		
	1.2s 5.00nm	4.0mb	GRG	1.35 242 ePb	24 29.98 0.8	40.840 N ± 2.4km 27.941 E ± 1.9km		
GUN	33.54 289 P	56 47.40 -0.4		eSb	24 47.30	DEPTH = 10.0km (geophysicist)		
	0.6s 19.00nm	5.2mb X	S.D. = 0.8 on 5 of 5 obs.			TURKEY (366)		
PKI	33.94 288 P	56 50.40 -0.9	& JAN 05, 1994 21h 14m 01.38s			ML 3.8 (THE), 3.5 (ISK). MD 3.4		
KKN	34.06 289 P	56 51.50 -0.7	58.200 N 151.636 W			(ATH).		
DMN	34.21 288 P	56 52.80 -0.7	DEPTH = 0.0km			BNT		
GKN	34.64 289 P	56 56.10 -1.0	KODIAK ISLAND REGION (13)			0.48 182 ePg		
WMQ	36.36 316 P	57 12.80 1.4	<AEIC>. ML 3.2 (AEIC).			EDC		
	1.0s 3.80nm	4.3mb	SYI	0.57 316 eP	14 13.23 0.4	ITU		
WRA	42.61 163 P	58 02.50 -0.8		eS	14 21.61	ISK		
	0.7s 1.30nm	3.8mb	KDC	0.64 226 iPd	14 14.40 0.2	DMK		
WB2	42.61 163 eP	58 03.30 0.0		eS	14 24.17	GBZT		
	0.9s 3.50nm	4.1mb	CDD	1.28 306 eP	14 24.50 -1.6	IZI		
GBA	43.18 267 P	58 08.60 0.5		eS	14 41.70	HRT		
	0.5s 3.00nm	4.3mb	CNPM	1.35 9 eP	14 25.40 -1.8	DST		
KAF	74.16 331 eP	01 42.10 -1.0	AUI	1.47 321 eP	14 27.98 -1.2	ALN		
YKA	85.37 23 eP	02 44.40 1.1		eS	14 47.54	EYL		
	0.8s 1.00nm	4.1mb	AUE	1.47 323 eP	14 28.12 -1.1	RDO		
GEC2	05.69 321 P	02 46.10 0.9	AUP	1.49 322 eP	14 28.72 -0.8	GPA		
	0.8s 1.16nm	4.2mb	AGU	1.49 322 eP	14 29.14 -0.5	JMB		
	e 02 48.60		AUH	1.50 322 eP	14 28.79 -0.9	PRK		
	e 02 51.10		AUW	1.51 322 eP	14 29.04 -0.8	KDZ		
S.D. = 1.0 on 23 of 26 obs.				eS	14 49.08	DIM		
? JAN 05, 1994 17h 00m 45.18± 1.66s			BRLK	1.62 14 eP	14 28.99 -2.3	ALT		
14.525 N ± 21.6km 55.304 E ± 19.2km			OPT	1.68 331 eP	14 31.00 -1.1	IZM		
DEPTH = 10.0km (geophysicist)			MCNL	1.72 306 eP	14 31.06 -1.7	RZN		
4.5mb ( 5 obs.)			ILIM	2.01 341 eP	14 34.59 -2.4	PLD		
ARABIAN SEA (417)			PDB	2.07 321 eP	14 34.85 -3.0	OUR		
QUE	18.92 33 eP	05 08.20 -0.5	SEW	2.22 30 eP	14 36.30 -3.6	CIN		
GBA	21.49 90 P	05 36.50 0.2	RED	2.30 346 eP	14 38.74 -2.5	SRS		
MAIO	22.01 9 eP	05 42.00 0.5	REF	2.36 347 eP	14 39.36 -2.9	PAIG		
GKN	30.35 59 P	07 00.10 0.4	RDW	2.37 346 eP	14 39.59 -2.7	SOH		
	0.6s 5.00nm	4.5mb	SLKM	2.43 17 eP	14 39.76 -3.2	KKB		
DMN	30.61 60 P	07 04.20 2.1	DFR	2.46 348 eP	14 41.17 -2.4	KNT		
KKN	30.82 60 P	07 03.80 0.0	NCT	2.46 345 eP	14 40.46 -3.1	VTS		
	0.7s 13.00nm	4.9mb	NKA	2.56 4 eP	14 45.14 0.3	VAY		
PKI	30.85 60 P	07 07.00 2.7X	MPA	2.58 26 eP	14 42.73 -2.3	CFR		
GUN	31.36 60 P	07 06.40 -2.4	BKG	2.90 354 eP	14 47.14 -2.6	ISR		
	0.8s 16.00nm	5.0mb	SPU	3.00 356 eP	14 48.12 -3.0	MLR		
GEC2	48.28 324 P	09 28.40 -0.1	CKT	3.02 355 eP	14 50.20 -1.3	VRI		
	0.6s 0.70nm	3.9mb	CKL	3.03 354 eP	14 48.53 -3.1	S.D. = 0.5 on 32 of 34 obs.		
WRA	84.91 112 P	13 21.90 -0.2	CKN	3.05 355 eP	14 49.73 -2.1	JAN 05, 1994 22h 12m 02.33± 0.33s		
	0.8s 0.80nm	4.0mb	CRP	3.09 355 eP	14 48.81 -3.7	51.834 N ± 8.2km 173.458 W ± 4.3km		
	S.D. = 1.3 on 9 of 10 obs.		CP2	3.09 355 eP	14 51.16 -1.4	DEPTH = 33.0km (normal)		
& JAN 05, 1994 17h 18m 36.86s			BGL	3.10 353 eP	14 49.12 -3.4	4.6mb ( 15 obs.)		
67.347 N 146.867 W			CGLM	3.12 357 eP	14 49.79 -3.1	ANDREANOF ISLANDS, ALEUTIAN IS. ( 7 )		
DEPTH = 10.3km			PWL	3.15 31 eP	14 49.47 -3.8	ADK	2.00 273 eP	12 33.77 -0.7
NORTHERN ALASKA (676)			NCG	3.23 356 eP	14 53.42 -0.9	SVW	13.50 40 (P)	15 13.41 -0.3
<AEIC>. ML 2.9 (AEIC).			PMS	3.23 18 P	14 51.00 -3.4	SLKM	15.51 47 eP	15 10.40 0.4
FYU	1.01 140 eP	18 56.11 0.1	SUA	3.31 7 eP	14 53.37 -2.2	IMA	17.41 27 eP	16 05.79 1.7
	eS	19 10.86	HIN	3.43 48 eP	14 53.80 -3.5		0.8s 3.34nm	3.5mb X
GLM	2.38 185 eP	19 15.88 -0.7	SVW	3.55 327 eP	14 57.90 -1.0	KLU	17.82 46 eP	16 07.84 -1.3
	eS	19 46.86	CFI	3.58 32 eP	14 55.63 -3.6	FBA	18.59 35 eP	16 17.10 -1.3
MDM	2.46 194 eP	19 17.06 -0.6	KNK	3.60 25 eP	14 56.65 -3.0		0.6s 2.28nm	3.5mb
	eS	19 48.93	PMR	3.63 19 eP	14 55.77 -4.2	SIT	22.56 62 (P)	17 02.11 1.6
FBA	2.49 189 eP	19 17.35 -0.6	FID	3.67 44 eP	14 55.77 -4.8		0.8s 8.47nm	4.3mb
CCB	2.74 188 eP	19 21.65 0.1	CVA	3.82 50 eP	14 58.69 -4.1	YKA	32.48 48 eP	18 30.50 -0.9
	eS	19 56.33	KLU	4.38 39 eP	15 06.31 -4.5		0.5s 0.80nm	3.9mb
MLY	2.81 216 eP	19 22.38 -0.2	TTA	5.21 337 (P)	15 21.86 -0.7	NEW	35.59 73 ePd	18 58.86 0.5
	eS	19 57.00	46 obs. associated				0.8s 7.00nm	4.6mb
WRH	2.93 190 eP	19 23.41 -0.9	% JAN 05, 1994 21h 22m 01.97± 1.66s			BONR	40.49 88 eP	19 41.03 1.3
HDA	2.95 181 eP	19 24.33 -0.3	36.721 N ± 15.2km 2.942 W ± 6.7km			TPNV	42.39 87 eP	19 55.84 0.6
IMA	3.00 248 ePn	19 22.91 -2.4	DEPTH = 5.0km (geophysicist)				0.6s 6.64nm	4.5mb
	ePg	19 31.01	STRAIT OF GIBRALTAR (385)			BW06	42.98 76 eP	20 00.24 0.2
DJE	3.37 171 P	19 30.70 0.2	mbLg 3.0 (MDD).				0.6s 8.07nm	4.6mb
DDM	3.60 173 eP	19 33.78 -0.1	EGUA	0.51 283 iPc	22 12.44 0.2	GSC	43.10 90 eP	20 00.97 0.0
DHY	4.29 183 P	19 43.40 -0.4		eS	22 20.70		e	20 13.72
	12 obs. associated		ENIJ	0.64 67 iPc	22 14.47 -0.3	DAU	43.34 80 eP	20 03.69 0.6
? JAN 05, 1994 20h 24m 03.72± 5.05s				eS	22 22.00		e	20 16.14
41.599 N ± 28.5km 23.982 E ± 24.7km			ECOG	0.75 318 iPd	22 15.62 -1.3	ARUT	43.60 84 eP	20 05.46 0.4
DEPTH = 5.0km (geophysicist)				eS	22 25.00	MSU	43.93 83 eP	20 08.09 0.3
GREECE-BULGARIA BORDER REGION (363)			EHUE	1.13 14 eP	22 22.39 -1.2			
ML 2.4 (THE).				eS	22 37.70			
SRS	0.56 211 iPg	24 15.25 0.2	MAL	1.18 271 eP	22 23.60 -0.8			
	eSg	24 22.62		eS	22 39.80			
			ELUQ	1.35 309 eP	22 28.23 0.8			
				eS	22 45.70			



05d 22h

PLM 44.35 92 eP 20 11.12 -0.1  
 SRU 44.57 81 eP 20 13.28 0.3  
 RSSD 45.48 71 eP 20 20.00 -0.2  
 0.7s 4.97nm 4.5mb  
 PV09 45.81 81 eP 20 22.06 -0.8  
 GLA 45.82 90 eP 20 21.90 -0.8  
 PVL0 45.94 81 eP 20 23.31 -0.6  
 TUC 48.83 88 eP 20 46.42 0.1  
 0.9s 2.25nm 4.2mb  
 ALQ 49.74 82 (P) 20 52.83 -0.6  
 1.1s 5.29nm 4.5mb  
 LTU 55.29 85 (P) 21 35.59 0.7  
 MIAR 57.82 74 eP 21 51.59 -1.1  
 0.7s 13.86nm 5.1mb  
 CBM 62.70 48 (P) 22 25.51 -0.4  
 MYNC 62.96 67 (P) 22 26.77 -1.0  
 0.5s 5.38nm 4.9mb  
 GUN 74.72 296 P 23 41.50 0.6  
 0.6s 24.00nm 5.4mb  
 KKN 75.15 296 P 23 43.40 0.2  
 PKI 75.25 296 P 23 43.90 0.0  
 1.1s 33.00nm 5.2mb  
 GKN 75.34 297 P 23 44.60 0.4  
 0.6s 17.00nm 5.2mb  
 DMN 75.39 296 P 23 44.60 0.0  
 WRA 84.73 228 P 24 33.30 -0.8  
 0.8s 0.70nm 3.9mb  
 HYB 87.12 295 eP 24 46.50 0.4  
 POO 88.82 299 eP 24 55.00 0.7  
 S.D. = 0.8 on 36 of 36 obs.

\* JAN 05, 1994 23h 00m 56.00± 1.01s  
 25.887 N ± 9.7km 106.933 W ± 12.9km  
 DEPTH = 10.0km (geophysicist)  
 3.8mb ( 4 obs.)  
 NORTHERN MEXICO (522)  
 Felt in the state of Chihuahua.

MZX 2.71 170 iP 01 40.00 -0.4  
 iS 02 15.50  
 LTU 4.49 39 ePn 02 06.07 0.3  
 ePg 02 22.00  
 eS 03 20.69  
 TUC 7.23 333 eP 02 43.56 -0.8  
 MRX 8.12 138 eP 03 03.50 6.8X  
 ALQ 9.03 2 ePn 03 07.10 -2.5  
 PPM 10.25 130 eP 03 33.00 6.4X  
 WMOK 11.28 37 eP 03 38.53 -1.8  
 ACO 12.66 30 iPc 04 08.80 9.9X  
 PV09 12.71 352 eP 04 02.44 2.6  
 MSU 13.34 342 ePn 04 08.06 -0.1  
 TUL 13.82 41 iPd 04 22.50 8.3X  
 EMUT 14.26 348 (P) 04 20.94 0.6  
 DAU 14.93 347 (Pn) 04 30.38 1.3  
 DUG 15.09 342 (Pn) 04 29.93 -1.1  
 0.9s 4.05nm 3.8mb  
 BONR 15.41 324 (P) 04 35.25 -0.1  
 HVU 16.57 345 (P) 04 50.49 0.4  
 BW06 16.99 353 (P) 04 55.58 0.1  
 0.8s 3.59nm 3.6mb  
 MYNC 21.64 60 (P) 05 51.92 3.4X  
 0.5s 4.17nm 4.1mb  
 PRM 22.76 63 eP 06 01.30 1.7  
 YKA 36.96 354 eP 08 06.60 -0.2  
 0.8s 1.10nm 3.7mb  
 S.D. = 1.4 on 15 of 20 obs.

\* JAN 05, 1994 23h 59m 34.24± 1.20s  
 6.194 S ± 11.6km 130.453 E ± 27.0km  
 DEPTH = 120.0km (geophysicist)  
 4.8mb ( 5 obs.)  
 BANDA SEA (280)

MTN 6.64 174 eP 01 11.50 0.7  
 0.5s 240.00nm 5.8mb X  
 eS 02 22.50  
 KNA 9.64 190 eP 01 49.80 -1.5  
 0.3s 53.00nm 5.9mb X  
 eS 03 31.00  
 WB2 14.18 165 eP 02 49.40 -1.5  
 eS 05 18.30  
 ASPA 17.69 170 iPc 03 36.40 1.8  
 0.4s 18.70nm 4.7mb  
 eS 06 42.40  
 MBL 18.09 214 eP 03 40.00 0.6  
 GUN 54.77 311 P 08 54.50 0.1  
 0.6s 15.00nm 5.1mb

PKI 54.95 310 P 08 55.40 -0.3  
 0.6s 6.00nm 4.7mb  
 KKN 55.16 310 P 08 57.00 0.0  
 0.6s 6.00nm 4.7mb  
 DMN 55.20 310 P 08 57.30 -0.1  
 GKN 55.76 310 P 09 01.30 0.0  
 0.4s 7.00nm 5.0mb  
 S.D. = 1.1 on 10 of 10 obs.

? JAN 06, 1994 00h 46m 00.79± 1.40s  
 38.878 N ± 9.4km 30.022 E ± 14.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

ALT 0.19 21 iPg 46 05.10 0.0  
 iSg 46 08.60  
 KHL 0.68 215 iPg 46 14.30 0.0  
 eSg 46 24.30  
 DST 1.30 304 ePn 46 25.00 0.0  
 IZI 1.52 344 ePn 46 28.00 -0.1  
 S.D. = 0.1 on 4 of 4 obs.

? JAN 06, 1994 00h 54m 02.86± 4.24s  
 13.476 N ± 17.6km 59.848 W ± 29.7km  
 DEPTH = 10.0km (geophysicist)  
 WINDWARD ISLANDS ( 95)  
 ML 2.8 (FDF). MD 2.9 (TRN).

SLW 1.19 297 eP 54 25.50 0.5  
 SLB 1.21 287 eP 54 24.94 -0.5  
 eS 54 36.29  
 SVV 1.34 263 eP 54 27.87 0.3  
 eS 54 41.57  
 SVB 1.38 262 eP 54 28.02 -0.1  
 eS 54 41.90  
 MVM 1.48 317 eP 54 29.34 -0.2  
 S 54 44.60  
 BIM 1.57 311 eP 54 30.74 -0.2  
 S 54 47.30  
 CRM 1.64 321 eP 54 31.86 0.0  
 FDF 1.78 315 eP 54 34.08 0.2  
 S 54 53.50  
 S.D. = 0.4 on 8 of 8 obs.

\* JAN 06, 1994 02h 29m 22.02± 1.14s  
 37.110 N ± 15.0km 72.005 E ± 11.6km  
 DEPTH = 33.0km (normal)  
 4.8mb ( 11 obs.)

TAJIKISTAN (715)

QUE 8.09 213 eP 31 19.50 -0.7  
 NDI 9.47 151 eP 31 41.00 1.8  
 MAIO 10.08 269 eP 31 41.00 -6.6X  
 0.8s 7.32nm 5.0mb  
 eS 33 22.00

GKN 13.99 127 P 32 39.00 -1.2  
 0.4s 22.00nm 5.2mb  
 KKN 14.55 126 P 32 47.40 -0.2  
 0.6s 34.00nm 5.0mb  
 DMN 14.56 127 P 32 47.00 -0.8  
 0.4s 29.00nm 5.1mb

PKI 14.78 126 P 32 50.20 -0.5  
 0.5s 24.00nm 4.8mb  
 GUN 14.86 124 P 32 50.20 -1.6  
 0.5s 26.00nm 4.8mb  
 HYB 20.45 162 eP 33 58.50 -1.0  
 0.8s 19.20nm 4.5mb  
 eS 38 15.50

SHL 20.47 119 eP 34 02.00 2.3  
 eS 41 53.00  
 GBA 23.91 167 P 34 35.00 1.3  
 0.9s 3.00nm 3.8mb

HFS 43.09 321 ePKP 37 19.90 -0.4  
 0.4s 2.10nm 4.2mb  
 WRA 81.63 123 P 41 43.30 5.0X  
 0.6s 1.30nm 4.1mb  
 WB2 81.64 123 eP 41 39.20 0.8  
 0.3s 3.10nm 4.8mb  
 i 41 44.40

S.D. = 1.4 on 12 of 14 obs.

JAN 06, 1994 02h 48m 06.47± 0.40s  
 40.137 N ± 3.4km 29.311 E ± 4.2km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)

ML 3.3 (ISK).

IZI 0.24 32 iPg 48 11.40 -0.2  
 GBZT 0.66 9 ePg 48 20.20 0.6  
 iSg 48 34.40  
 HRT 0.74 22 iPg 48 20.40 -0.5  
 eSg 48 32.40  
 DST 0.75 225 iPg 48 20.50 -0.6  
 eSg 48 30.70  
 EYL 0.78 56 iPg 48 21.00 -0.7  
 eSg 48 32.30  
 GPA 0.78 78 ePg 48 21.70 0.0  
 ISK 0.95 348 iPg 48 24.90 0.4  
 eSg 48 38.90  
 ITU 0.99 347 ePg 48 26.00 0.7  
 iSg 48 40.00  
 EDC 1.13 281 iPn 48 27.50 -0.1  
 ALT 1.24 150 iPn 48 30.20 0.5  
 KHL 1.82 175 ePn 48 38.30 0.2  
 DMK 2.05 326 ePn 48 40.90 -0.5  
 IZM 2.35 223 ePn 48 46.00 0.2  
 CIN 2.71 201 eP 48 57.00 6.2X  
 S.D. = 0.5 on 13 of 14 obs.

JAN 06, 1994 03h 02m 18.26± 0.28s  
 31.951 S ± 5.1km 69.026 W ± 5.9km  
 DEPTH = 122.5 ± 3.5 km  
 4.8mb ( 2 obs.)  
 SAN JUAN PROVINCE, ARGENTINA (137)  
 MD 4.8 (SAN).

ZON 0.50 36 iPd 02 59.00 22.2X  
 RTCB 0.50 23 iPc 02 36.70 -0.2  
 CFA 0.75 63 ePd 02 38.70 0.1  
 S 02 51.00

RTLL 0.78 38 iPc 02 38.80 0.0  
 MDZ 0.94 171 iP 02 41.30 1.0  
 iS 02 59.00  
 JACH 1.51 241 iPd 02 46.78 0.3  
 FCH 1.74 218 iP+ 02 50.42 1.0  
 iS 03 14.49

RTRS 1.81 348 iPd 02 50.80 0.9  
 PEL 1.84 229 iPd 02 50.50 0.2  
 iS 03 14.04  
 ROCH 1.96 238 iP+ 02 51.58 -0.5  
 iS 03 16.26

SAN 2.04 222 iPd 02 53.16 0.4  
 iS 03 20.00  
 PCH 2.08 217 iP+ 02 54.03 0.6  
 iS 03 21.55

TACH 2.34 223 iPd 02 56.49 -0.2  
 iS 03 25.21  
 IHA 2.46 243 iPd 02 56.70 -1.4  
 i(S) 03 24.30

CACH 2.53 211 iP+ 03 00.20 0.9  
 iS 03 32.01  
 LCCH 2.63 234 iP 02 59.24 -1.1  
 iS 03 28.72

RTPR 2.71 53 iPc 03 01.00 -0.4  
 LNV 2.83 224 iP 03 01.33 -1.7  
 LPB 15.37 3 P 05 54.40 4.2X  
 ARE 15.58 351 eP 05 53.00 0.3  
 LPAZ 15.61 3 P 05 54.30 0.9  
 LR 09 04.00

SIV 17.46 26 P 06 14.00 -1.6  
 PPD 18.60 62 eP 06 28.80 0.1  
 RSTA 19.03 73 eP 06 32.00 -1.3  
 VAO 21.47 71 eP 07 01.50 3.3X  
 NVL 57.21 157 P 11 55.00 0.7  
 UYO 69.99 338 iPc 13 18.40 0.2  
 KIC 72.02 70 P 13 31.07 0.2  
 1.1s 28.00nm 4.9mb

TUL 72.02 337 iPc 13 30.60 0.2  
 LKO 73.25 67 P 13 38.36 0.3  
 0.9s 13.50nm 4.7mb

LRM 86.83 331 eP 14 51.20 1.2  
 WB2 123.75 207 ePKP 21 03.20 -0.3  
 0.4s 3.40nm  
 WRA 123.75 207 PKP 21 03.80 0.3  
 0.7s 1.80nm

GBA 144.29 113 PKP 21 41.00 -0.8  
 HYB 147.33 109 ePKP 21 50.00 3.2X  
 S.D. = 0.8 on 31 of 35 obs.

JAN 06, 1994 03h 31m 01.23± 0.30s  
 44.851 N ± 2.1km 7.624 E ± 3.8km  
 DEPTH = 24.1 ± 3.4 km  
 NORTHERN ITALY (545)  
 ML 2.8 (GEN), 2.6 (LDG).



06d 03h

BHB	0.26	268	Pd	31	08.27	0.7	MAT	20.19	342	eP	23	11.00	-1.5	PMR	63.07	29	ePd	28	59.70	-1.2
			S	31	11.89			0.5s	20.42nm				4.8mb		0.7s	38.90nm			5.4mb	
RSP	0.40	319	P	31	09.79	0.0			eS	26	32.00			BRW	63.47	18	eP	29	03.50	0.0
			S	31	15.14		KUMJ	20.19	321	P	23	16.70	4.2X	FBA	64.45	26	eP	29	08.53	-1.4
PZZ	0.51	227	Pd	31	11.22	-0.4	MTMJ	20.35	341	P	23	14.50	0.3		0.4s	9.10nm			5.1mb	
			S	31	18.11		NIIJ	20.63	345	P	23	16.20	-0.7	TOA	64.55	29	eP	29	10.60	-0.1
ROB	0.58	162	Pd	31	13.66	0.8	WWRK	20.99	186	e(P)	23	19.00	-1.7	KLU	64.55	30	eP	29	10.12	-0.6
			S	31	22.14		SHNJ	21.18	325	eP	23	22.20	-0.2	GBA	65.61	277	Pd	29	17.80	-0.3
RRL	0.60	277	Pc	31	13.50	0.3	YAMJ	21.29	348	P	23	24.10	0.7		0.6s	3.00nm			4.4mb	
			S	31	21.50		OFUJ	21.89	352	P	23	29.50	0.2	BALM	66.19	30	ePd	29	20.23	-1.0
ENR	0.64	193	Pd	31	13.64	-0.2			S	27	44.70			POO	67.92	283	eP	29	25.50	-7.3X
			S	31	21.91		CGP	22.32	249	eP	23	38.00	4.3X	GMW	78.36	44	eP	30	34.13	1.1
STV	0.64	200	Pd	31	13.46	-0.4	MDG	22.51	180	eP	23	27.00	-8.5X	JCW	78.78	43	P	30	35.80	0.5
			S	31	21.41		CVP	22.78	274	eP	23	43.50	5.3X	RMW	79.03	44	eP	30	37.34	0.6
LSD	0.69	332	Pd	31	14.53	-0.2	LAT	23.95	177	eP	23	34.00	-15.4X	SHW	79.04	45	eP	30	38.51	1.6
			S	31	22.92		HOOJ	24.99	356	P	23	58.60	-0.3	YKA	79.12	28	P	30	36.50	-0.3
PCP	0.73	115	Pc	31	16.12	0.9	MRRJ	25.25	352	eP	24	00.40	-1.0		0.6s	28.00nm			5.2mb	
			S	31	26.26		KUSJ	25.63	358	eP	24	03.20	-1.7	LON	79.19	44	eP	30	37.56	-0.1
FIN	0.77	147	Pd	31	16.85	1.0	SSE	26.12	306	Pd	24	11.50	2.0	ASR	79.48	45	P	30	39.90	0.6
			S	31	26.81			1.0s	16.00nm				4.6mb	EBG	79.98	44	P	30	42.58	0.7
ORX	0.82	18	Pd	31	15.81	-1.0	PMG	26.67	177	eP	24	15.00	0.4	WTW	80.18	43	P	30	42.50	-0.4
			S	31	25.57		ASAJ	26.76	355	P	24	15.40	0.2	CROR	80.19	46	P	30	42.75	-0.2
SAOF	0.87	183	Pg	31	17.29	-0.3	GYA	37.21	291	iPd	25	49.40	2.9X	VGB	80.19	45	eP	30	43.37	0.4
			Sg	31	28.48			1.0s	22.00nm				4.9mb	SAW	80.54	43	P	30	44.48	-0.3
AUTN	0.87	189	Pg	31	17.12	-0.6	CTA	37.26	179	P	25	47.40	0.7	VIPM	80.56	46	P	30	45.34	0.2
TOUF	0.88	198	Pg	31	17.12	-0.8	WB2	38.75	197	eP	25	57.80	-1.4	NTYM	80.64	53	(P)	30	45.32	-0.1
LPG	0.89	317	Pn	31	18.30	0.1		1.3s	64.00nm				5.2mb	WAH2	80.69	44	P	30	45.81	0.4
			Pg	31	19.20				eS	31	40.10			ORV	81.22	51	eP	30	48.20	-0.2
			Sg	31	30.20		WRA	38.76	197	P	25	53.00	-6.2X	DPW	81.28	43	eP	30	48.48	-0.1
LPL	0.92	317	Pn	31	18.70	0.2	CD2	40.34	297	eP	26	10.00	-2.3	NEW	81.86	42	eP	30	51.97	0.4
			Pg	31	19.50		LZH	41.39	305	eP	26	23.80	2.8X		1.1s	26.57nm			4.9mb	
			Sg	31	30.60			1.0s	15.00nm				4.6mb		e				31	45.56
IMI	0.96	168	Pc	31	18.30	-0.8	SMY	41.69	26	eP	26	23.96	1.1	KVN	83.89	51	eP	31	03.23	0.8
			S	31	29.97			0.4s	49.42nm				5.5mb	BONR	84.07	52	eP	31	03.86	0.4
AURF	0.99	193	Pg	31	19.07	-0.5	ASPA	42.42	196	eP	26	29.00	-0.2	TNP	84.84	52	eP	31	07.88	0.7
SBF	1.00	188	Pn	31	19.60	-0.1		0.3s	23.00nm				5.3mb		0.6s	10.81nm			4.9mb	
			Sn	31	31.90		BDT	44.51	277	eP	26	47.50	1.3	DAG	85.56	356	eP	31	07.50	-2.3
MVIF	1.01	200	Pg	31	19.39	-0.6	GTA	45.36	309	eP	26	55.50	2.7		0.6s	3.33nm			4.4mb	
REVF	1.13	189	Pg	31	21.58	0.0		1.2s	6.00nm				4.1mb	LRM	85.67	43	eP	31	11.50	0.3
CALN	1.22	206	Pg	31	23.86	0.9			pP	27	29.00	149kmX	TPNV	85.93	53	(P)	31	13.17	0.6	
			Sg	31	39.41		MBL	45.96	215	eP	26	58.10	0.5		0.3s	5.35nm			4.9mb	
FRF	1.47	209	Pn	31	26.80	0.4	WARB	47.13	204	eP	27	07.20	0.5	GSC	86.02	54	eP	31	13.19	0.2
			Sn	31	44.80			0.3s	14.00nm				5.2mb	PTI	86.76	46	eP	31	17.63	1.2
LRG	1.67	214	Pn	31	30.80	1.6	ARMA	47.88	173	iPc	27	12.00	-0.6	HVU	86.86	47	eP	31	17.36	0.4
LMR	1.72	208	Pn	31	30.50	0.5		0.9s	34.00nm				5.1mb	DUG	87.38	49	eP	31	20.10	0.6
			Sn	31	50.20		STK	49.16	185	eP	27	21.90	-0.4		0.6s	29.65nm			5.4mb	
BSF	3.04	349	Pn	31	50.40	1.5		0.4s	10.10nm				4.9mb	KAF	87.60	336	eP	31	18.40	-1.5
			Sn	32	22.30		SHL	50.47	289	iP	27	33.50	0.8	ARUT	87.76	51	eP	31	22.05	0.6
SMF	3.20	305	Pn	31	51.40	0.3			eS	34	36.00		GLA	88.30	56	eP	31	24.63	0.7	
HAU	3.28	345	Pn	31	51.70	-0.5	FORT	50.82	200	eP	27	35.50	0.5	DAU	88.42	48	eP	31	25.14	0.4
			Sn	32	28.40		MEEK	51.08	212	eP	27	36.50	-0.5	MSU	88.44	50	iP	31	25.93	1.2
LBF	3.32	311	Pn	31	53.00	0.1	BWA	51.60	177	iPc	27	40.80	0.0	BW06	88.72	45	eP	31	25.43	-0.5
			Sn	32	28.80		CAN	52.52	177	eP	27	47.40	-0.3		0.4s	3.03nm			4.7mb	
AVF	3.56	305	Pn	31	56.40	0.1	CNB	52.54	176	eP	27	47.70	-0.1	EMUT	88.95	49	eP	31	27.50	0.3
LOR	3.57	314	Pn	31	56.20	-0.2	MRWA	54.51	212	eP	28	01.50	-0.8	NUR	89.17	335	eP	31	24.40	-3.0X
			Sn	32	34.30			0.2s	13.00nm				5.4mb	SRU	89.42	49	iP	31	29.87	0.6
CDF	3.57	356	Pn	31	55.40	-1.1	TOO	54.68	180	iPc	28	03.10	-0.3	PV09	90.66	49	eP	31	35.67	0.5
			Sn	32	36.20			0.9s	29.00nm				5.1mb	PV10	90.78	49	eP	31	35.98	0.3
SSF	3.62	309	Pn	31	57.20	0.0	BAL	55.29	211	iPc	28	07.10	-0.8	PV08	90.98	49	eP	31	36.81	0.1
			Sn	32	37.00			0.3s	34.00nm				5.7mb	TUC	91.75	55	eP	31	42.27	2.2
BGF	3.76	299	Pn	31	59.30	0.3	SDN	55.51	34	eP	28	07.92	-1.3		0.8s	5.47nm			4.7mb	
MAF	3.81	293	Pn	32	00.40	0.6		0.8s	123.15nm				5.8mb	RSSD	91.82	43	eP	31	39.83	-0.5
	S.D. = 0.7	on	35	of	35	obs.	KLB	55.61	209	eP	28	09.00	-1.2		0.6s	6.74nm			5.0mb	
							GUN	55.74	292	P	28	12.40	0.6	GOL	92.85	47	eP	31	46.11	1.0
	JAN 06, 1994	04h 18m	47.41 ± 0.34s					0.4s	15.00nm				5.3mb		0.8s	15.64nm			5.3mb	
	17.402 N ± 2.9km	145.717 E ± 4.6km				PKI	56.17	292	P	28	14.80	0.0	GLD	92.93	47	eP	31	46.36	0.9	
	DEPTH = 146.3 ± 3.3 km						0.4s	15.00nm					5.3mb	ALQ	94.05	52	eP	31	50.97	0.3
	5.1mb (37 obs.)					KKN	56.28	292	P	28	15.60	0.2		0.8s	3.65nm			4.7mb		
	MARIANA ISLANDS	(216)					0.6s	15.00nm					5.1mb		e				32	23.88
						DMN	56.44	292	P	28	16.80	0.2	LTX	98.55	56	eP	32	10.11	-1.0	
							0.4s	20.00nm					5.4mb		e				32	36.05
ALMG	0.23	30	eP	19	07.50	-1.0	MUN	56.67	210	iPc	28	16.80	-0.9	ACO	98.58	47	iPd	32	11.10	0.1
PAGN	0.67	1	eP	19	10.00	0.4	GKN	56.83	292	P	28	19.60	0.3	KIC	142.46	306	PKP	38	00.86	-4.5X
PAGV	0.72	4	eP	19	10.50	0.6		0.6s	18.00nm				5.2mb		0.9s	5.00nm				
ANAT	1.04	183	eP	19	12.50	0.0	NWAO	56.97	209	iPc	28	18.90	-0.9	LIC	142.77	307	PKP	38	01.00	-4.9X
SAFN	2.18	179	eP	19	22.50	-2.4	ANM	57.38	23	eP	28	21.59	-0.7		0.4s	2.50nm				
GUMO	3.88	192	eP	19	48.10	1.4	RKG	58.45	208	eP	28	30.00	-0.1	KDS	143.10	322	ePKP	38	01.00	-5.4X
	0.8s	429.00nm				SVW	59.33	29	iP	28	39.97	-0.1	PEL	143.75	123	iPKP+	38	04.80	-2.3X	
		eS					0.6s	40.39nm					5.5mb	ARE	144.43	94	ePKP			



06d 04h

NEAR COAST OF CENTRAL CHILE (135)  
MD 3.4 (SAN).

LCCH	0.23	28	iPd	55 14.74	0.1
			iS	55 20.39	
LNW	0.37	139	iPd	55 16.23	-0.2
			iS	55 23.08	
TACH	0.64	88	iP	55 19.95	-0.4
			iS	55 29.40	
ROCH	0.91	40	iP	55 24.19	-0.2
			iS	55 37.17	
PCH	0.99	87	iP+	55 25.17	-0.3
			iS	55 38.81	
PEL	1.00	58	iP+	55 26.15	0.6
			iS	55 40.21	
CACH	1.01	116	iPd	55 26.39	0.5
			iS	55 41.46	
FCH	1.23	74	iP+	55 29.06	0.0
			iS	55 46.03	
JACH	1.36	43	iP	55 30.54	-0.2
			iS	55 49.97	

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

% JAN 06, 1994 07h 33m 18.83± 0.71s  
39.900 N ± 5.8km 23.446 E ± 4.7km  
DEPTH = 5.0km (geophysicist)

## AEGEAN SEA (365)

PAIG	0.18	81	iPgc	33 22.66	0.1
			eSg	33 25.70	
OUR	0.60	43	iPgc	33 30.66	-0.1
			eSg	33 39.66	
LIT	0.76	286	iPg	33 33.85	-0.3
			eSg	33 45.50	
THE	0.82	333	ePg	33 35.86	0.7
			eSg	33 47.53	
SOH	0.92	356	ePg	33 36.53	-0.4
			eSg	33 51.34	
SRS	1.22	5	ePb	33 41.98	0.0
			eSb	33 58.22	
AGG	1.23	225	ePb	33 42.26	0.1
GRG	1.32	323	ePb	33 43.42	-0.3
			iSb	34 02.17	
KNT	1.33	342	iPbc	33 44.10	0.3
			eSb	34 02.50	

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

? JAN 06, 1994 07h 49m 40.73± 1.85s  
11.249 N ± 9.7km 61.852 W ± 32.6km  
DEPTH = 33.0km (normal)

## WINDWARD ISLANDS (95)

TCE	0.56	170	eP	49 52.31	0.1
			eS	50 00.30	
TRN	0.74	143	eP	49 54.13	-0.6
			eS	50 04.47	
GRW	0.92	12	eP	49 57.43	0.0
			eS	50 07.96	
TBH	1.08	134	eP	50 00.10	0.5
			eS	50 13.35	

S.D. = 0.8 on 4 of 4 obs.

? JAN 06, 1994 08h 31m 19.18± 2.80s  
4.327 S ± 11.1km 80.561 W ± 37.7km  
DEPTH = 33.0km (normal)

## PERU-ECUADOR BORDER REGION (110)

VC1	4.25	30	P	32 23.90	0.2
GGP	4.57	25	P	32 29.16	0.8
JAMA	4.57	4	P	32 27.71	-0.2
CAYA	5.08	31	P	32 34.38	-1.2
DOMO	5.10	26	P	32 35.72	0.0
COTA	5.14	26	P	32 36.78	0.4
NNA	8.45	154	eP	33 30.50	8.1X
	0.7s	10.27nm		5.1mb X	
			iS	35 02.20	
LPZ	17.04	135	P	35 17.30	0.0
LPB	17.23	136	eP	35 22.00	2.6X

S.D. = 0.7 on 7 of 9 obs.

? JAN 06, 1994 08h 33m 45.30± 2.90s  
51.517 N ± 28.5km 16.086 E ± 14.4km  
DEPTH = 10.0km (geophysicist)

## POLAND (548)

BRG	1.49	245	iPg	34 13.40	1.3
			iSg	34 33.30	
PRU	1.82	213	Pn	34 15.80	-1.0
	0.6s	29.70nm			
			Pg	34 19.30	
			Sn	34 35.70	
			Sg	34 42.10	
CLL	1.94	265	iPn	34 17.90	-0.7
			iPg	34 21.50	
			iSg	34 47.40	
OKC	2.13	141	Pg	34 21.50	0.1
			Sg	34 47.70	
KHC	2.88	215	ePn	34 32.50	0.4
			ePg	34 38.60	
			e	35 07.00	
			eSg	35 14.50	
			e	35 27.50	
MOX	2.95	255	ePg	34 41.80	8.7X
			iSg	35 20.30	

S.D. = 1.3 on 5 of 6 obs.

? JAN 06, 1994 09h 53m 39.63± 4.43s  
34.892 S ± 41.5km 71.070 W ± 16.8km  
DEPTH = 100.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)  
MD 3.8 (SAN).

CACH	0.86	27	iP+	53 59.05	0.0
			iS	54 14.34	
LNW	0.98	343	iP	54 00.07	0.1
			iS	54 15.37	
TACH	1.24	5	iP+	54 03.00	-0.1
			iS	54 20.64	
PCH	1.35	20	iP	54 04.58	0.1
			iS	54 23.76	
LCCH	1.47	344	iP+	54 05.78	-0.1
			iS	54 24.89	
FCH	1.69	23	iP+	54 08.91	-0.1
			iS	54 32.24	
PEL	1.77	10	iP+	54 09.91	0.1
			iS	54 32.78	
ROCH	1.92	1	iP	54 12.06	0.2
			iS	54 36.73	
JACH	2.24	10	iP	54 15.81	-0.2
			iS	54 44.05	

S.D. = 0.2 on 9 of 9 obs.

% JAN 06, 1994 10h 10m 31.03± 0.82s  
39.636 N ± 6.9km 29.475 E ± 7.4km  
DEPTH = 10.0km (geophysicist)

## TURKEY (366)

ML 2.7 (ISK).					
DST	0.65	268	ePg	10 43.80	-0.3
			eSg	10 53.80	
IZI	0.70	360	iPg	10 44.10	-0.8
			eSg	10 54.60	
ALT	0.76	139	ePg	10 46.00	0.0
			eSg	10 58.50	
EYL	1.07	29	ePn	10 51.10	-0.1
HRT	1.19	7	ePn	10 54.00	0.7
EDC	1.43	300	ePn	10 57.50	0.5

S.D. = 0.7 on 6 of 6 obs.

? JAN 06, 1994 10h 33m 38.96± 9.40s  
51.569 N ± 45.3km 16.479 E ± 63.6km  
DEPTH = 10.0km (geophysicist)

## POLAND (548)

ML 3.4 (VIE).					
BRG	1.74	247	iPn	34 09.20	-0.2
			iPg	34 10.50	
			iSg	34 30.40	
PRU	2.00	219	Pn	34 13.20	0.0
	0.4s	40.20nm			
			Pg	34 15.00	
			i	34 18.80	
			Sn	34 32.10	
			Sg	34 37.40	
CLL	2.19	265	iPn	34 15.80	-0.1
			iPg	34 18.80	
			iSg	34 44.30	
KHC	3.07	218	Pn	34 28.40	0.0
			ePg	34 34.60	
			eSn	35 01.00	
			e	35 10.40	

			eSg	35 15.00	
			e	35 21.50	
HOF	3.17	248	ePn	34 29.70	-0.1
MOX	3.20	255	ePn	34 30.70	0.4
			iPg	34 38.20	
			iSg	35 17.60	
VKA	3.31	182	iPgc	34 42.50	10.7X
			iSg	35 25.90	
WET	3.35	225	ePn	34 32.40	0.0
SPC	3.39	133	e(Pn)	34 48.10	15.0X
ZST	3.40	173	ePn	34 45.80	12.7X
			eSn	35 30.70	
GRF	3.84	243	ePn	34 39.20	-0.1
			ePg	34 52.30	
			eSg	35 38.20	
KBA	4.94	206	iPnc	34 55.00	-0.1
			i	35 58.70	
			iSg	36 13.70	
WTTA	5.34	218	iPnd	35 01.00	0.2
			iSg	36 25.50	
YKA	59.90	336	P	43 49.20	2.4X
	0.7s	0.30nm		3.5mb	

S.D. = 0.2 on 10 of 14 obs.

? JAN 06, 1994 10h 45m 02.26± 0.99s  
39.691 N ± 10.2km 29.491 E ± 8.8km  
DEPTH = 10.0km (geophysicist)

## TURKEY (366)

ML 2.6 (ISK).					
DST	0.67	263	ePg	45 14.80	-0.8
			eSg	45 25.80	
ALT	0.80	143	ePg	45 18.00	0.2
			eSg	45 29.50	
EYL	1.01	30	ePn	45 21.10	-0.4
EDC	1.41	298	ePn	45 29.00	1.0

S.D. = 1.4 on 4 of 4 obs.

\* JAN 06, 1994 10h 59m 51.07± 1.52s  
51.171 N ± 14.1km 15.246 E ± 8.8km  
DEPTH = 10.0km (geophysicist)

## POLAND (548)

ML 3.6 (VIE).					
BRG	0.87	251	iPn	00 08.80	0.9
			iPg	00 11.00	
			iSg	00 30.70	
PRU	1.27	201	Pn	00 14.10	-0.5
	0.5s	80.00nm			
			Pg	00 16.10	
			Sn	00 33.50	
			eSg	00 37.70	
CLL	1.42	277	iPn	00 15.70	-1.1
			iPg	00 18.70	
			iSg	00 44.20	
KHC	2.31	208	ePn	00 24.50	-5.3X
			e	00 29.50	
MOX	2.36	259	iPg	00 38.10	7.7X
			iSg	01 17.10	
WET	2.54	218	iPnc	00 33.40	0.5
GRF	2.97	242	ePn	00 39.70	0.6
			ePg	00 52.50	
			eSg	01 37.50	
VKA	2.99	166	iPgc	00 44.30	4.9X
			iSg	01 29.70	
ZST	3.21	157	i(Pn)	00 47.30	4.8X
			i	01 40.20	
SPC	3.78	120	e(Pn)	00 51.20	0.5
KBA	4.28	198	iPnc	00 56.60	-1.3
			i	02 02.90	
			iSg	02 15.40	
WTTA	4.57	213	iPnc	01 02.50	0.5
			iSg	02 26.90	

S.D. = 1.0 on 8 of 12 obs.

? JAN 06, 1994 11h 28m 36.69± 0.94s  
39.625 N ± 8.1km 29.412 E ± 8.6km  
DEPTH = 10.0km (geophysicist)

## TURKEY (366)

ML 2.6 (ISK).					
DST	0.61	268	ePg	28 49.00	0.0
			eSg	28 58.70	
IZI	0.71	4	ePg	28 50.60	-0.2
ALT	0.79	136	ePg	28 52.00	0.0
EYL	1.10	31	ePn	28 57.60	0.2

S.D. = 0.3 on 4 of 4 obs.



? JAN 06, 1994 12h 21m 49.85± 0.95s  
39.035 N ± 8.3km 27.697 E ± 15.8km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

IZM	0.72	208	ePg	22	04.30	0.2
			eSg	22	15.90	
DST	0.92	51	ePg	22	07.70	0.2
			eSg	22	22.70	
EDC	1.32	6	ePn	22	14.00	-0.2
CIN	1.46	168	ePn	22	16.00	-0.3
			iSg	22	42.00	

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

JAN 06, 1994 12h 28m 57.93± 0.39s  
39.671 N ± 4.5km 15.380 E ± 5.8km  
DEPTH = 307.0 ± 4.9 km  
4.1mb ( 4 obs.)

SOUTHERN ITALY (390)

MGR	0.48	16	P	29	37.30	0.0
TDS	0.74	91	P	30	05.98	27.9X
SGO	0.89	357	P	29	39.00	0.5
ORI	0.91	64	P	29	38.40	-0.3
GRI	1.17	136	P	29	39.50	-0.7
MSI	1.47	175	P	30	12.09	30.2X
SOI	1.68	162	P	29	42.20	-1.1
BRT	1.84	49	P	29	43.20	-1.3
GIB	1.98	213	P	29	37.31	-8.3X
LCI	2.09	71	P	29	46.00	-0.3
DUI	2.11	341	P	29	46.40	-0.2
SDI	2.35	330	P	29	49.50	0.9
MEU	2.59	188	P	29	50.40	-0.4
PZI	2.66	188	P	29	50.40	-1.0
FAI	2.74	210	P	29	53.40	1.4
AQU	3.07	331	P	29	57.30	2.0
ARV	4.24	335	P	30	07.78	0.2
OHR	4.38	69	iPd	30	09.50	0.2

0.6s 90.00nm

SFI	5.00	329	P	30	17.40	1.3
AGG	5.43	95	iP	30	22.05	0.8
MME	5.71	324	P	30	32.52	7.8X
VBV	5.83	359	iPnc	30	26.00	0.1
PTJ	6.24	4	iP	30	29.90	-1.0
CTI	6.94	338	P	30	38.70	-0.6
FVI	7.17	346	P	30	41.90	-0.2
VAI	7.87	324	P	30	49.40	-1.2
OSS	7.99	333	P	30	53.70	1.5
TMA	8.01	326	P	30	51.80	-0.7
VDL	8.07	330	P	30	53.50	0.3
MMK	8.38	322	P	30	56.00	-1.2
LLS	8.57	329	P	30	59.50	0.1
DIX	8.67	320	P	31	01.00	0.3
EMS	8.91	319	P	31	03.50	0.0
GEC2	9.25	353	Pnd	31	06.90	-0.8

0.5s 3.37nm

SLE	9.50	331	P	31	14.90	-0.4
MLR	9.72	50	eP	31	16.00	2.4
BRG	11.25	355	i(P)	31	32.20	0.1
CLL	11.76	353	iPd	31	39.00	0.7
HFS	20.51	358	eP	33	12.70	-0.9
	0.3s	4.80nm			4.2mb	
NUR	21.65	12	iP	33	24.10	-0.5
KAF	23.44	13	iP	33	40.40	-1.1
	0.5s	4.40nm			4.1mb	
KIC	37.79	214	P	35	47.27	0.5
	0.3s	1.50nm			3.9mb	
LIC	38.03	214	P	35	49.41	0.6
	0.4s	3.50nm			4.1mb	

S.D. = 0.9 on 39 of 43 obs.

\* JAN 06, 1994 12h 33m 05.76± 2.21s  
41.577 N ± 21.1km 22.313 E ± 7.5km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)

VAY	0.32	143	iPg	33	12.40	0.0
	0.2s	100.00nm				
		iSg	33	18.20		
KNT	0.60	133	iP	33	17.05	-0.9
GRG	0.62	174	iP	33	18.30	0.0
SRS	1.07	115	eP	33	25.80	-0.1
SOH	1.09	133	iP	33	27.30	1.0
OHR	1.23	248	ePn	33	28.70	0.0

S.D. = 0.8 on 6 of 6 obs.  
% JAN 06, 1994 12h 41m 22.98± 0.82s  
40.232 N ± 8.7km 29.230 E ± 8.0km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

IZI	0.21	60	iPg	41	27.70	0.0
			iSg	41	31.50	
HRT	0.68	29	ePg	41	36.00	-0.4
DST	0.78	217	iPg	41	37.20	-1.0
EDC	1.05	277	ePn	41	43.50	0.7
ALT	1.36	150	ePn	41	48.70	0.7

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

? JAN 06, 1994 13h 14m 21.58± 0.91s  
39.685 N ± 7.7km 29.492 E ± 8.9km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

IZI	0.65	359	iPg	14	34.50	-0.1
			eSg	14	44.50	
DST	0.67	263	ePg	14	35.00	0.0
			eSg	14	46.10	
ALT	0.79	143	ePg	14	37.00	0.0
			eSg	14	48.70	
EYL	1.02	30	ePn	14	41.00	0.1

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

\* JAN 06, 1994 13h 50m 50.91± 1.07s  
4.746 S ± 13.2km 144.627 E ± 10.9km  
DEPTH = 33.0km (normal)  
4.3mb ( 1 obs.)

NEAR N COAST OF NEW GUINEA, PNG. (200)

MDG	1.25	114	eP	51	12.00	-0.2
WWKK	1.50	318	eP	51	16.00	0.2
MNDI	1.70	215	eP	51	20.00	1.1
			eS	51	45.00	
LAT	3.04	129	eP	51	38.30	0.5
PMG	5.27	152	eP	52	05.00	-4.4X
ASPA	21.47	208	iPd	55	37.20	-1.6
	0.9s	10.70nm			4.3mb	
TIC	149.74	275	PKP	10	32.40	-2.8X
LIC	149.76	274	PKP	10	32.40	-2.8X
LKO	150.08	281	PKP	10	33.04	-2.6X
	0.4s	5.50nm				

S.D. = 1.5 on 5 of 9 obs.

& JAN 06, 1994 15h 15m 50.65s  
34.280 N 116.771 W  
DEPTH = 1.6km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 2.8 (PAS).

PEC	0.50	220	eP	16	00.28	-0.4
SSK	0.77	265	eP	16	05.07	-0.9
PLM	0.93	185	eP	16	07.98	-1.3
			eS	16	20.21	
GSC	1.02	358	eP	16	09.76	-1.0
			eS	16	23.17	
GLA	2.03	127	(P)	16	24.16	-2.2
ABL	2.10	286	eP	16	25.61	-1.9

6 obs. associated

% JAN 06, 1994 16h 20m 27.55± 0.70s  
47.497 N ± 11.6km 5.034 E ± 6.2km  
DEPTH = 10.0km (geophysicist)  
FRANCE (538)  
ML 2.3 (LDG).

LOR	0.83	254	Pn	20	43.60	0.0
			Pg	20	45.10	
			Sg	20	57.20	
LBF	0.88	235	Pg	20	45.30	0.7
			Sg	20	56.30	
HAU	1.02	60	Pn	20	46.40	-0.5
			Pg	20	47.80	
			Sg	21	02.00	
SSF	1.13	248	Pn	20	48.60	-0.1
			Pg	20	49.60	
SMF	1.18	224	Pn	20	48.40	-1.2
			Pg	20	49.70	
			Sg	21	04.40	

BSF 1.23 74 Pg 20 51.00 0.4  
Sg 21 06.10  
AVF 1.35 239 Pg 20 52.70 0.4  
Sg 21 10.30  
LPL 2.30 149 Pg 21 06.50 0.1  
S.D. = 0.7 on 8 of 8 obs.

JAN 06, 1994 17h 20m 52.90± 0.87s  
18.052 N ± 6.3km 68.367 W ± 7.7km  
DEPTH = 87.6 ± 8.2 km  
4.0mb ( 2 obs.)

MONA PASSAGE ( 89)

MGP	1.22	92	P	21	15.30	0.0
LRS	1.47	80	P	21	18.40	-0.2
APR	1.61	75	P	21	21.20	0.9
PORP	1.65	90	P	21	21.10	0.2
CLLP	1.70	89	P	21	22.00	0.4
SJG	2.11	88	iP	21	27.20	0.1
CPD	2.33	90	P	21	30.10	0.0
LPR	2.39	83	P	21	31.10	0.2
BPA	6.29	98	eP	22	23.50	-1.5
PAG	6.71	106	eP	22	30.50	-0.2
			S	23	43.00	
CANV	6.99	184	iP	22	34.70	0.2
			eS	23	48.80	
MGG	7.07	106	eP	22	35.50	-0.2
MORO	7.14	180	iP	22	35.90	-0.8
			eS	23	52.80	

DEG	7.20	103	eP	22	36.50	-0.9
OLLA	8.13	169	iP	22	51.20	0.9
SLW	8.19	118	eP	22	51.15	0.1
SLB	8.20	120	eP	22	51.03	-0.3
TOV	8.33	190	ePn	22	53.20	0.2
SVB	8.34	124	eP	22	52.88	-0.2
SVV	8.34	123	eP	22	53.14	0.0
GRW	8.73	131	eP	22	58.46	-0.1
SDV	9.37	194	iPnd	23	07.10	-0.3
TRN	9.98	137	eP	23	16.04	0.6
			eS	25	01.11	
LPZ	34.12	180	P	27	33.50	1.3
			LR	39	04.00	
LPB	34.37	180	eP	27	32.00	-2.0
SIV	34.58	168	P	27	36.60	1.2
YKA	54.67	336	P	30	13.50	-1.3
	0.4s	1.40nm			4.3mb	
GEC2	71.46	44	P	32	07.50	1.5
	0.9s	1.08nm			3.7mb	
		e	32	25.20		

S.D. = 0.8 on 28 of 28 obs.

? JAN 06, 1994 17h 31m 10.61± 7.06s  
19.167 N ± 53.0km 66.878 W ± 25.7km  
DEPTH = 29.6 ± 7.9 km  
PUERTO RICO REGION ( 90)

APR	0.73	169	P	31	24.50	-0.1
LRS	0.87	178	P	31	26.00	-0.8
CLLP	1.12	165	P	31	30.00	-0.3
PORP	1.13	168	P	31	30.10	-0.4
MGP	1.17	190	P	31	30.90	-0.1
LPR	1.28	132	P	31	32.10	-0.5
CPD	1.45	141	P	31	34.90	-0.1

S.D. = 0.3 on 7 of 7 obs.

% JAN 06, 1994 18h 21m 55.55± 0.76s  
40.700 N ± 5.8km 22.786 E ± 6.1km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 2.0 (THE).

THE	0.15	116	iPg	21	58.78	0.1
			eSg	22	01.34	
GRG	0.39	311	ePg	22	03.48	0.1
			eSg	22	08.96	
SOH	0.45	74	ePg	22	04.57	0.0
			eSg	22	10.56	
KNT	0.47	10	iPg	22	04.85	-0.1
			eSg	22	10.80	
LIT	0.64	201	ePg	22	08.28	-0.1

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

? JAN 06, 1994 19h 33m 46.62± 0.99s  
44.293 N ± 15.8km 7.643 E ± 6.3km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.6 (GEN).



06d 19h

ROB 0.16 89 P 33 50.40 0.0  
 ENR 0.17 248 P 33 52.87 0.1  
 STV 0.23 258 P 33 51.54 -0.1  
 PZZ 0.44 299 P 33 55.71 0.0  
 S.D. = 0.2 on 4 of 4 obs.

JAN 06, 1994 21h 19m 03.60± 0.71s  
 2.831 N ± 9.8km 73.994 W ± 12.2km  
 DEPTH = 103.1 ± 14.1 km  
 3.9mb ( 2 obs.)

COLOMBIA (103)  
 Felt in Caqueta, Huila, Meta  
 and Tolima Departments.

BOG 1.78 358 iPc 19 33.50 -0.8  
 PSO 3.71 244 eP 19 53.50 -6.7X  
 BMG 4.31 12 iPc 20 10.00 1.7  
 CAYA 4.83 236 P 20 18.55 2.7X  
 DOMO 5.03 240 P 20 18.80 0.2  
 GGP 5.48 237 P 20 27.34 2.4X  
 VC1 5.60 232 P 20 26.22 -0.2  
 JAMA 6.71 248 P 20 37.10 -4.2X  
 SDV 6.88 29 ePnc 20 43.60 -0.1  
 iSn 22 06.50  
 TOV 8.07 31 ePn 20 59.00 -0.9  
 CEOS 8.34 42 eP 21 04.10 0.5  
 CANV 9.63 32 iPc 21 21.20 0.2  
 MORO 9.78 35 eP 21 22.30 -0.7  
 OLLA 10.10 45 eP 21 27.60 0.2  
 NNA 14.99 191 eP 22 31.50 0.1  
 0.6s 6.67nm 4.1mb  
 eS 25 12.50  
 LPAZ 19.86 163 P 23 38.40 8.7X  
 LR 29 45.00  
 LPB 20.10 163 eP 23 39.00 7.0X  
 i 28 59.00  
 SIV 22.65 146 P 24 02.60 5.7X  
 YKA 66.70 341 P 29 45.20 -0.1  
 0.6s 0.80nm 3.8mb  
 WRA 147.53 236 PKP 38 46.50 11.1X  
 0.7s 0.80nm

S.D. = 0.8 on 12 of 20 obs.

? JAN 06, 1994 23h 24m 44.60± 8.66s  
 1.471 N ± 80.9km 79.271 W ± 13.9km  
 DEPTH = 33.0km (normal)

NEAR COAST OF ECUADOR (105)

COTA 1.46 140 P 25 08.83 -0.6  
 JAMA 1.52 218 P 25 09.79 -0.1  
 GGP 1.77 158 P 25 12.88 -1.0  
 CAYA 1.89 137 P 25 15.99 0.4  
 VC1 2.27 158 P 25 22.05 1.0  
 S.D. = 1.2 on 5 of 5 obs.

JAN 06, 1994 23h 28m 11.90± 1.11s  
 40.099 N ± 6.4km 19.760 E ± 9.6km  
 DEPTH = 5.0km (geophysicist)

ALBANIA (391)  
 ML 3.1 (TIR), 2.9 (THE).

SRN 0.29 140 iPg 28 16.80 -0.9  
 VLO 0.42 331 iSg 28 21.70 0.5  
 LSK 0.65 85 ePg 28 21.70 -3.1X  
 IGT 0.72 142 ePg 28 25.57 -0.7  
 KBN 0.94 56 ePg 28 30.00 -0.4  
 TIR 1.25 4 ePn 28 36.10 0.5  
 OHR 1.28 38 ePn 28 34.20 -2.0  
 0.5s 50.00nm  
 iSn 28 54.40  
 LG 28 58.50  
 FNA 1.41 60 iPbd 28 37.60 -0.7  
 eSb 28 59.04  
 LACI 1.54 359 ePn 28 39.50 -0.5  
 LIT 2.09 89 iPnc 28 49.74 1.6  
 eSn 29 16.92  
 GRG 2.19 66 iPnd 28 50.46 1.0  
 eSn 29 19.60  
 AGG 2.26 118 ePn 28 51.68 1.2

SKO 2.26 34 iSn 29 20.57  
 0.9s 160.00nm  
 e 29 20.00  
 e 29 22.00  
 Lg 29 25.50  
 KNT 2.61 65 iPnc 28 56.32 0.8  
 iSn 29 29.64  
 SOH 2.84 74 ePn 28 59.48 0.7  
 PAIG 3.02 92 iPnd 28 59.80 -1.4  
 OUR 3.24 84 ePn 29 05.20 0.8  
 S.D. = 1.1 on 16 of 17 obs.

? JAN 07, 1994 00h 32m 56.04± 2.38s  
 7.147 N ± 16.7km 126.438 E ± 24.0km  
 DEPTH = 10.0km (geophysicist)  
 4.7mb ( 4 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

BIP 1.09 350 iPc 33 15.00 -1.5  
 CGP 2.16 307 iS 33 23.50  
 CTB 2.22 271 ePd 33 32.00 -1.5  
 MAP 3.98 323 iPc 33 59.00 0.5  
 LZH 35.45 328 eP 39 55.80 1.0  
 1.2s 23.00nm 4.9mb  
 pP 40 00.00 14kmX  
 GUN 43.55 303 P 41 02.80 0.4  
 0.8s 16.00nm 4.9mb  
 PKI 43.83 303 P 41 04.60 0.0  
 0.7s 7.00nm 4.6mb  
 KKN 44.01 303 P 41 06.00 0.1  
 0.8s 7.00nm 4.5mb  
 DMN 44.09 303 P 41 06.40 -0.3  
 GKN 44.62 303 P 41 10.60 -0.2  
 S.D. = 1.1 on 10 of 10 obs.

\* JAN 07, 1994 01h 36m 17.72± 1.20s  
 21.766 S ± 14.2km 70.291 W ± 14.7km  
 DEPTH = 33.0km (normal)  
 4.8mb ( 6 obs.)

NEAR COAST OF NORTHERN CHILE (122)

LPB 5.60 22 iPc 37 42.10 0.8  
 1.0s 440.00nm 6.0mb X  
 LPAZ 5.82 21 iPc 37 44.10 -0.5  
 SIV 10.44 58 P 38 42.50 -5.9X  
 NNA 11.57 326 eP 39 03.30 -0.4  
 0.7s 6.85nm 4.9mb  
 PPD 17.62 94 eP 40 23.70 1.3  
 i 40 25.20  
 e 40 28.90  
 RSTA 19.75 102 eP 40 48.20 0.4  
 VAO 21.60 98 eP 41 07.10 0.1  
 CACB 21.88 94 eP 41 09.00 -0.9  
 e 41 10.50  
 e 41 14.70  
 e 41 27.10  
 BAO 21.97 78 eP 41 07.50 -3.3X  
 i 41 09.60  
 i 41 12.00  
 i 41 14.40  
 TUL 62.24 337 iPc 47 02.10 23.5X  
 KDS 66.41 65 iP 47 06.00 -0.2  
 LIC 69.70 74 P 47 25.14 -1.6  
 0.5s 2.50nm 4.5mb  
 TIC 69.88 74 P 47 29.16 1.3  
 0.7s 4.00nm 4.6mb  
 KIC 70.01 74 P 47 27.88 -0.8  
 0.4s 8.50nm 5.2mb  
 LKO 70.67 71 P 47 31.44 -1.2  
 0.4s 9.50nm 5.2mb  
 YKA 91.01 341 P 49 21.10 1.7  
 0.7s 2.60nm 4.7mb  
 WRA 132.06 212 PKP 55 37.80 7.4X  
 0.6s 1.40nm

S.D. = 1.1 on 13 of 17 obs.

JAN 07, 1994 02h 00m 52.24± 0.17s  
 22.345 S ± 6.1km 179.531 W ± 3.8km  
 DEPTH = 586.0km ( 7 depth phases)  
 5.2mb ( 47 obs.)

SOUTH OF FIJI ISLANDS (171)

MD 4.9 (SVA).

SVA 4.61 335 iPd 02 22.08 0.4  
 eS 03 33.10  
 VUN 4.71 336 iPc 02 22.10 -0.4  
 AFI 11.16 43 eP 03 18.00 -4.9X  
 eS 05 16.00  
 DZM 13.00 269 iPd 03 42.00 1.0  
 iS 06 06.90  
 MRW 19.45 193 P 04 45.20 2.5  
 S 07 54.00  
 ARMA 27.01 247 iPd 05 50.30 -0.3  
 0.5s 78.00nm 5.6mb  
 RIV 28.18 240 eP 06 01.20 0.6  
 AFR 28.35 86 iPc 06 01.40 -0.7  
 1.1s 205.10nm 5.7mb  
 PAE 28.50 86 iPc 06 02.70 -0.8  
 PPT 28.53 86 iPc 06 03.10 -0.6  
 0.9s 222.10nm 5.8mb  
 PPN 28.67 86 iPc 06 04.30 -0.6  
 1.1s 131.90nm 5.5mb  
 TVO 28.77 86 iPc 06 05.60 -0.3  
 0.9s 165.10nm 5.7mb  
 CNB 30.03 238 iPd 06 17.70 1.2  
 0.8s 385.00nm 6.1mb  
 iScP 11 50.30  
 CAN 30.31 238 iPd 06 19.80 0.9  
 BWA 30.53 240 iPd 06 19.40 -1.4  
 PMO 30.80 82 iPc 06 22.50 -0.6  
 0.9s 168.40nm 5.7mb  
 VAH 30.97 82 iPc 06 23.80 -0.7  
 0.9s 149.40nm 5.6mb  
 TPT 31.06 82 iPc 06 24.80 -0.5  
 1.1s 418.10nm 6.0mb  
 RUV 31.21 82 iPc 06 26.00 -0.5  
 1.2s 554.60nm 6.1mb  
 CTA 31.94 268 P 06 32.90 0.2  
 TOO 33.67 235 iPd 06 48.20 1.1  
 0.6s 218.00nm 6.0mb  
 PMG 34.43 287 eP 06 53.00 -0.5  
 STK 35.73 246 iPd 07 05.20 1.1  
 0.5s 73.70nm 5.6mb  
 MDG 37.58 292 eP 07 18.50 -1.0  
 QIS 38.00 265 eP 07 42.00 19.2X  
 ADE 38.48 242 eP 07 27.00 0.4  
 ASPA 42.74 259 iPd 08 00.20 -0.5  
 0.5s 177.70nm 5.9mb  
 iPcP 09 38.40  
 iScP 12 37.30  
 iS 13 40.80  
 iScS 16 58.10  
 WB2 42.95 264 iPc 08 01.20 -1.3  
 0.5s 114.90nm 5.7mb  
 iScP 12 38.60  
 eS 13 36.20  
 WRA 42.97 264 P 08 01.50 -1.0  
 0.5s 43.40nm 5.2mb  
 FORT 47.27 248 iPd 08 35.60 0.2  
 0.4s 67.00nm 5.5mb  
 MTN 47.79 273 iPd 08 37.80 -1.7  
 0.5s 93.00nm 5.6mb  
 HKL 48.45 30 ePd 08 43.02 -1.8  
 WARB 48.94 254 iPd 08 47.10 -0.9  
 0.3s 24.00nm 5.2mb  
 KNA 49.12 268 iPd 08 49.70 0.3  
 0.3s 70.00nm 5.7mb  
 COOL 53.19 247 iPd 09 17.60 -1.3  
 0.7s 38.00nm 4.9mb  
 SBA 55.95 183 iPd 09 41.00 3.6X  
 MEEK 55.98 252 iPd 09 38.00 -0.4  
 0.3s 21.00nm 4.9mb  
 MBL 55.99 259 iPd 09 37.10 -1.3  
 KLB 55.99 246 iPd 09 17.50 -20.9X  
 0.8s 80.00nm  
 NWA0 56.28 245 eP 09 40.00 -0.3  
 RKG 56.30 243 eP 09 39.50 -0.9  
 BAL 57.02 247 iPd 09 44.30 -1.1  
 0.4s 41.00nm 5.0mb  
 MUN 57.26 246 iPd 09 46.50 -0.4  
 0.7s 188.00nm 5.5mb  
 MRWA 57.84 249 iPd 09 50.00 -1.0  
 0.4s 38.00nm 5.0mb  
 CSY 61.70 206 iPc 10 15.80 0.0  
 0.7s 59.50nm 5.1mb  
 SPA 67.79 180 iPd 10 55.40 1.3  
 0.7s 195.31nm 5.7mb  
 KKM 68.88 286 ePc 11 02.50 1.2  
 0.8s 86.50nm 5.3mb  
 LEM 71.60 270 iPd 11 15.00 -2.4



07d 02h

ADK	73.95	2	eP	11	26.26	-3.4X	BW06	91.28	44	eP	12	56.62	-0.5	ROCH	1.15	19	iPd	10	56.26	0.3
NJ2	79.97	311	Pc	12	03.40	0.9		1.1s	10.85nm			4.8mb					iS	11	12.18	
	1.0s	26.00nm				4.6mb	LZH	92.76	308	eP	13	04.60	0.7	FCH	1.21	53	iPd	10	56.75	-0.2
ARN	80.64	43	ePc	12	06.65	0.7		1.0s	27.00nm			5.3mb					iS	11	14.09	
		e		13	51.79	474kmX	RSSD	95.46	44	ePd	13	15.86	-0.2	JACH	1.55	28	iPd	11	01.14	-0.1
ABL	80.67	46	ePc	12	06.92	0.6		0.9s	6.86nm			4.9mb					iS	11	21.02	
		ePp		14	13.66	599kmX	GTA	97.04	310	P	13	23.50	0.3	RTCB	3.40	42	ePc	11	27.20	0.2
KMPM	80.96	40	eP	12	09.12	1.6		1.5s	9.00nm			4.9mb					S	12	08.00	
PLM	81.44	49	eP	12	10.69	0.4	YKA	98.78	25	P	13	28.70	-1.6	RTLL	3.70	43	ePc	11	30.70	-0.5
PEC	81.53	48	eP	12	09.72	-0.8		0.8s	0.80nm			4.2mb X					S	12	14.00	
	0.8s	15.04nm				4.6mb	KAF	136.50	343	iPKP	18	58.30	-10.9X	S.D. = 0.3 on 12 of 12 obs.						
ORV	82.00	41	eP	12	13.03	0.3	NUR	138.28	342	ePKP	19	03.30	-9.2X	-----						
WDC	82.00	40	eP	12	13.29	0.6	HFS	141.11	349	ePKP	19	10.60	-7.0X	% JAN 07, 1994 02h 25m 30.26± 0.80s						
	1.0s	26.92nm				4.7mb		0.4s	6.70nm					12.036 N ±26.8km 86.875 W ±23.7km						
MTUM	82.55	45	eP	12	16.78	1.0	BHL	147.06	298	PKP	19	30.00	1.5	DEPTH = 33.0km (normal)						
		ePp		14	21.97	585km	CFR	147.89	322	ePKP	19	29.50	0.2	NICARAGUA (75)						
GSC	82.56	47	ePc	12	16.13	0.4	FAM	148.15	301	ePKP	19	34.00	3.9X	MD 4.0 (GCG).						
		ePp		14	21.47	586km	VRI	148.27	324	ePKP	19	34.00	4.0X	RIN3 1.92 130 eP 26 01.38 0.0						
GLA	82.70	50	ePc	12	17.72	1.3	DCN	148.49	9	ePKP	19	33.90	3.9X	JUD 2.27 145 eP 26 06.33 0.0						
		ePp		14	20.34	570kmX	DLF	148.64	8	ePKP	19	34.10	3.9X	eS 26 33.08						
LBFM	82.86	40	ePc	12	17.62	0.4	CSS	148.69	301	ePKP	19	35.00	4.1X	JTS 2.56 132 ePc 26 09.92 -0.5						
CN2	82.90	323	Pd	12	16.80	-0.3	MLR	148.94	324	ePKP	19	31.50	0.4	CAO 2.90 143 eP 26 14.77 -0.4						
	1.0s	17.00nm				4.5mb	OKC	149.23	337	PKPd	19	36.30	5.1X	EPA 3.03 132 eP 26 18.21 1.2						
BONR	83.07	44	eP	12	18.84	0.4	CLL	149.49	344	iPKP	19	36.60	5.0X	TME 3.12 309 iPc 26 18.30 0.0						
		ePp		14	23.17	579km		0.8s	42.00nm					IRZ2 3.57 125 eP 26 24.58 -0.5						
TIA	83.48	313	Pd	12	20.50	0.3	PPCY	149.49	301	ePKP	19	36.00	3.9X	QPS 3.76 134 eP 26 27.32 0.0						
KVN	83.82	43	eP	12	21.82	-0.2	BRG	149.64	343	iPKP	19	37.40	5.6X	CDM 3.93 129 iPc 26 15.32 -14.8X						
TNP	83.84	45	eP	12	22.37	0.2		0.9s	44.00nm					TIG 4.61 130 ePd 26 40.15 0.6						
	1.0s	22.61nm				4.7mb		e	21	49.00			CTCR 5.11 127 eP 26 46.29 -0.5							
TPNV	83.84	46	eP	12	22.50	0.3	WTS	150.00	352	iPKPd	19	37.90	5.6X	S.D. = 0.6 on 10 of 11 obs.						
	0.9s	9.95nm				4.4mb		0.7s	32.20nm				-----							
		e		13	26.31	267kmX	PSZ	150.11	333	e(PKP)	19	38.50	5.7X	% JAN 07, 1994 03h 27m 02.95± 0.59s						
SYO	84.64	193	ePd	12	25.40	0.1	PRU	150.27	342	iPKPd	19	38.20	5.4X	47.532 N ± 9.1km 5.166 E ± 5.3km						
TUC	85.23	52	ePc	12	31.14	2.2		0.7s	25.00nm					DEPTH = 10.0km (geophysicist)						
	0.8s	15.49nm				4.7mb	MOX	150.44	346	iPKPd	19	39.00	5.9X	FRANCE (538)						
BMW	85.31	35	eP	12	29.61	0.7		1.6s	39.00nm					ML 2.7 (LDG).						
VBEM	85.32	37	P	12	29.30	0.2	SRO	150.84	335	ePKP	19	37.30	3.6X	LOR 0.93 254 Pn 27 22.00 1.3						
VIPM	85.53	38	P	12	30.23	0.1	ZST	150.98	337	ePKP	19	39.10	5.2X	Pg 27 22.80						
SHW	85.66	36	eP	12	31.87	1.2	ENN	151.31	353	ePKP	19	41.00	6.7X	Sg 27 34.90						
		ePp		14	38.40	587km		0.8s	8.90nm					HAU 0.93 59 Pn 27 21.70 1.0						
CP2	86.18	13	eP	12	31.37	-1.6	KHC	151.32	342	ePKP	19	34.50	0.0	Pg 27 22.30						
ARUT	86.18	47	eP	12	33.90	0.5		1.0s	12.10nm					Sg 27 34.80						
		ePp		14	41.41	592km		i	19	41.00				LBF 0.98 236 Pn 27 21.60 0.0						
CRP	86.20	13	eP	12	31.16	-1.8		e	19	49.00				Pg 27 22.70						
BJI	86.21	316	eP	12	33.50	0.2	GRF	151.42	345	ePKP	19	41.40	6.8X	Sg 27 34.40						
	2.0s	38.00nm				4.8mb		e	21	59.60				BSF 1.14 74 Pn 27 23.60 -0.7						
GMW	86.22	35	eP	12	33.42	0.2		0.7s	0.49nm					Pg 27 24.80						
LON	86.24	36	eP	12	33.45	0.1	GEC2	151.54	342	PKP	19	34.60	-0.3	Sg 27 39.40						
GYA	86.33	300	P	12	34.80	0.4	CIN	151.79	309	iPKPd	19	43.00	7.6X	SSF 1.22 248 Pn 27 25.80 0.1						
	1.0s	13.00nm				4.6mb	VAY	153.47	321	ePKP	19	54.70	17.1X	Pg 27 27.00						
NNT	86.35	285	iPc	12	36.90	2.5		i	20	01.40				Sg 27 42.80						
FMW	86.43	36	P	12	34.80	0.3	OHR	154.63	322	ePKP	19	47.50	8.2X	SMF 1.27 226 Pn 27 25.40 -1.1						
JBO	86.55	37	P	12	35.15	0.3	BCAO	155.04	227	iPKPc	19	41.00	0.4X	Pg 27 26.50						
RMW	86.69	35	eP	12	35.87	0.4		0.6s	8.00nm					Sg 27 41.60						
NVL	86.80	184	iPd	12	36.00	0.3		i	19	50.50				AVF 1.44 240 Pn 27 29.10 0.0						
	1.0s	46.00nm				5.2mb		i	20	10.00				Pg 27 30.50						
EBG	87.01	36	P	12	37.63	0.6	LIC	163.12	161	PKP	19	47.54	-2.0	Sg 27 49.00						
TIY	87.46	313	eP	12	39.50	0.1		1.0s	16.00nm					CDF 1.67 57 Pn 27 31.70 -0.7						
LNOR	87.66	38	P	12	39.70	-0.4	KIC	163.33	162	PKP	19	47.82	-1.9	Pg 27 36.00						
WTV	87.82	36	P	12	40.70	-0.1		1.1s	28.00nm					Sg 27 57.30						
SAW	88.12	36	P	12	42.08	-0.1	TIC	163.52	160	PKP	19	47.96	-2.0	BGF 1.86 239 Pn 27 34.30 -0.9						
XAN	88.13	308	iPd	12	43.00	0.5		1.0s	14.50nm					Pg 27 38.20						
	1.0s	23.00nm				5.0mb	LKO	166.01	155	PKP	19	51.39	-0.7	Sg 28 01.10						
BALM	88.35	17	ePc	12	42.40	-0.6		1.3s	24.00nm					MAF 2.21 235 Pg 27 44.20 3.9X						
HVU	88.72	43	eP	12	45.61	0.4								Sg 28 12.00						
SRU	88.82	47	ePc	12	46.25	0.5	S.D. = 1.0 on 117 of 146 obs.						-----							
		ePp		14	52.04	577km	% JAN 07, 1994 02h 10m 35.14± 1.17s						LPL 2.29 151 Pg 27 42.10 0.6							
BDT	88.86	289	eP	12	47.00	0.9		34.062 S ±10.7km 71.444 W ±10.2km					LPG 2.31 151 Pg 27 42.30 0.4							
	1.0s	44.20nm				5.3mb	DEPTH = 70.0km (geophysicist)						Sg 28 10.60							
DPW	88.88	36	eP	12	45.74	0.1	NEAR COAST OF CENTRAL CHILE (135)						S.D. = 0.9 on 11 of 12 obs.							
		ePp		14	54.76	596km	MD 3.8 (SAN).						-----							
EMUT	88.98	46	eP	12	46.92	0.3	LNV	0.11	15	iP	10	45.50	-0.1	% JAN 07, 1994 03h 36m 01.66± 0.68s						
DAU	88.99	45	eP	12	47.23	0.5		iS	10	54.44			47.449 N ±21.7km 5.246 E ±11.6km							
PV10	89.47	48	eP	12	48.47	-0.4	TACH	0.59	46	iP+	10	48.96	-0.1	DEPTH = 10.0km (geophysicist)						
CHTO	89.54	290	ePd	12	50.60	1.4		iS	10	59.93			FRANCE (538)							
	1.0s	54.00nm				5.4mb		iS	10	49.00			ML 1.8 (LDG).							
PTI	89.54	43	eP	12	49.53	0.5	LCCH	0.59	350	iP+	10	49.00	-0.1	HAU 0.93 53 Pn 36 19.20 -0.2						
HHC	89.63	315	P	12	50.00	0.7		iS	10	59.76				Pg 36 20.30						
	1.2s	19.00nm				4.9mb		iS	10	59.76				Sg 36 32.80						
FV08	89.83	48	eP	12	50.98	0.3	CACH	0.70	95	iPd	10	50.61	0.2	LOR 0.96 260 Pn 36 19.40 -0.5						
IMA	90.30	10	eP	12	50.93	-1.0		iS	11	02.60				Pg 36 21.30						
	0.9s	4.19nm				4.4mb	PCH	0.89	61	iP	10	52.60	0.0	Sg 36 33.10						
FBA	90.35	13	eP	12	50.24	-1.7		iS	11	05.80				LBF 0.98 242 Pg 36 20.60 0.3						
	0.8s	9.50nm				4.8mb	SAN	0.89	47	iP+	10	52.61	0.1	Sg 36 32.60						
CD2	90.59	303	eP	12	55.30	1.4		iS	11	06.08				BSF 1.11 69 Pg 36 22.80 0.2						
BGMT	90.98	41	ePc	12	55.70	0.1	PEL	1.11	35	iPd	10	55.86	0.4							
LRM	91.04	40	eP	12	56.40	0.5		iS	11	11.00										



07d 03h

SSP 1.25 253 Sg 36 37.60  
 SMF 1.25 231 Pg 36 25.10 0.3  
 Sg 36 41.20  
 Sg 36 24.20 -0.8  
 Sg 36 39.60  
 AVF 1.45 244 Pg 36 28.70 0.8  
 Sg 36 47.20  
 S.D. = 0.7 on 7 of 7 obs.

\* JAN 07, 1994 03h 37m 38.94± 1.29s  
 15.898 N ± 7.6km 60.828 W ± 15.2km  
 DEPTH = 33.0km (normal)  
 LEeward ISLANDS (92)  
 ML 2.9 (FDF).

DEG 0.47 332 ePd 37 49.39 0.2  
 S 37 56.33  
 MGG 0.47 272 iPd 37 49.08 0.0  
 SFG 0.50 315 iPd 37 49.71 0.2  
 DOG 0.77 280 iPd 37 53.16 -0.2  
 PAG 0.83 279 iPd 37 53.82 -0.4  
 S 38 03.96  
 CRM 1.14 184 eP 37 58.72 0.1  
 FDF 1.20 195 iPc 37 59.21 -0.3  
 S 38 13.10  
 MVM 1.34 183 eP 38 01.74 0.3  
 S 38 17.90  
 BPA 1.51 319 eP 38 02.50 -1.5  
 MGH 1.56 302 eP 38 06.47 1.7  
 S.D. = 0.9 on 10 of 10 obs.

JAN 07, 1994 03h 42m 42.90± 0.11s  
 52.028 N ± 2.7km 159.019 E ± 2.0km  
 DEPTH = 54.6km (46 depth phases)  
 5.6mb (138 obs.)

OFF EAST COAST OF KAMCHATKA (219)  
 Mw 5.7 (GS), 5.7 (HRV). Felt

(III) at  
 Petropavlovsk-Kamchatskiy.

FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=40 Dip=68 Slip=100  
 NP2: 195 24 67

Principal Axes:  
 T Plg=66 Azm=327  
 P 22 122

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a small left-lateral strike-slip component. The preferred fault plane is NP2.

RADIATED ENERGY  
 No. of sta: 8 Focal mech. F  
 Energy 4.0±1.3\*10\*\*11 Nm

MOMENT TENSOR SOLUTION  
 Dep 34 No. of sta: 23  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 3.63 Mtt=-1.62  
 Mff=-2.02 Mtf= 1.48  
 Mrf= 0.81 Mtf=-1.88

Principal axes:  
 T Val= 4.04 Plg=76 Azm=347  
 N 0.00 7 225  
 P -4.04 12 134

Best Double Couple: Mo=4.0\*10\*\*17  
 NP1: Strike=214 Dip=34 Slip= 77  
 NP2: 50 57 99

CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 47S, 97C  
 Centroid Location:

Origin Time 03:42:44.3 0.2  
 Lat 51.74N 0.02 Lon 159.58E 0.02  
 Dep 45.1 1.2 Half-duration 1.6  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 3.30 0.05 Mtt=-0.68 0.07  
 Mff=-2.62 0.06 Mtf= 0.81 0.09  
 Mrf= 0.18 0.11 Mtf=-2.30 0.07

Principal Axes:  
 T Val= 3.47 Plg=77 Azm= 14  
 N 0.72 12 215  
 P -4.20 5 124

Best Double Couple: Mo=3.8\*10\*\*17  
 NP1: Strike=201 Dip=42 Slip= 71  
 NP2: 45 51 106

PET 1.02 347 iPd- 43 02.00 0.9  
 eS 43 16.00  
 SKR 2.28 234 iPnc 43 16.70 -2.1  
 iS 43 42.00  
 SMY 9.26 80 eP 44 52.21 -4.1X  
 eS 46 27.13  
 KUR 10.03 232 iPnc 45 10.00 3.2X  
 Z 16s 16.80um  
 N 16s 11.20um  
 E 16s 22.40um

eS 47 08.00  
 YSS 11.71 251 ePd 45 30.93 1.3  
 KUSJ 13.14 233 P 45 43.70 -4.8X  
 eS 47 59.40

ASAJ 13.49 241 P 45 54.30 1.2  
 HOOJ 14.37 234 eP 45 59.80 -4.9X  
 eS 48 26.50

ADK 14.97 81 (P) 46 14.30 2.0  
 1.5s 138.51nm 5.0mb  
 MRRJ 15.48 239 eP 46 19.40 0.4  
 AOMJ 17.19 235 eP 46 35.00 -5.6X  
 eS 49 46.20

OFUJ 17.70 230 eP 46 41.80 -5.0X  
 eS 50 01.20  
 YAK 18.65 314 iPc+ 46 56.40 -1.9  
 1.2s 296.00nm 5.4mb

Z 16s 10.80um  
 N 17s 6.30um  
 E 16s 6.00um

YAMJ 19.19 231 eP 47 04.00 -0.9  
 VLA 20.25 255 iPd 47 13.00 -3.0X  
 2.0s 490.00nm 5.5mb  
 Z 15s 2.20um 4.6MsZ  
 N 14s 3.00um  
 E 14s 2.00um

iP 47 30.00 84kmX  
 i 47 40.00  
 NIJ 20.43 231 P 47 17.10 -0.8  
 KAKJ 20.72 228 P 47 19.60 -1.2  
 MDJ 20.82 261 eP 47 20.50 -1.3

Z 19s 9.45um 5.2MsZ  
 N 15s 2.97um  
 E 16s 6.65um

eS 51 08.00  
 MAJO 21.37 232 ePc 47 27.83 0.4  
 0.9s 520.79nm 5.9mb

MAT 21.37 232 iPc 47 26.70 -0.8  
 Z 20s 3.90um 4.8MsZ  
 eS 51 10.00

CHJJ 21.39 230 iPd 47 28.40 0.7  
 MTMJ 21.53 233 P 47 29.20 0.0  
 ANM 22.16 42 eP 47 35.08 0.0

IIDJ 22.37 231 P 47 38.10 0.7  
 TSRJ 23.26 234 P 47 47.50 1.4  
 CN2 23.78 263 eP 47 49.50 -1.6  
 1.0s 210.00nm 5.6mb  
 Z 17s 5.67um 5.1MsZ  
 N 13s 2.13um  
 E 13s 4.32um

eS 51 54.00  
 SDN 23.96 66 (P) 47 55.41 2.8X  
 Z 21s 3.31um 4.8MsZ

WKYJ 24.50 233 P 47 58.80 0.6  
 YONJ 24.82 237 P 48 01.30 0.2  
 HIA 24.85 279 ePc 47 59.04 -2.3

TKSJ 25.46 235 P 48 07.50 0.3  
 SHK 25.73 238 eP 48 10.00 0.3  
 TTA 25.95 48 ePc 48 11.13 -0.4  
 1.4s 134.17nm 5.3mb

e 48 26.36 64km  
 BOD 26.01 301 eP 48 10.20 -1.8  
 1.3s 83.00nm 5.1mb

SNY 26.02 261 iPc 48 11.30 -1.0  
 1.2s 92.00nm 5.2mb  
 Z 20s 7.99um 5.3MsZ  
 N 13s 1.63um  
 E 14s 2.50um

sP 48 28.00  
 PP 48 56.00  
 S 52 35.00  
 sS 52 54.00

SVW 26.08 52 ePc 48 12.90 0.2  
 SHNJ 26.87 239 eP 48 21.50 1.4  
 IMA 27.28 41 ePc 48 22.69 -1.0  
 1.1s 45.78nm 5.0mb

e 48 39.31 71kmX  
 BRW 27.49 29 eP 48 24.43 -1.0

CIT 27.61 288 eP 48 26.00 -0.7  
 Z 14s 6.62um 5.4MsZ  
 eS 53 04.00

CRP 27.75 51 eP 48 27.45 -0.7  
 KDC 27.96 59 eP 48 27.70 -2.1  
 KUMJ 28.26 237 P 48 33.10 0.4  
 DL2 28.98 258 Pc 48 39.00 -0.1

1.0s 150.00nm 5.6mb  
 Z 24s 5.35um 5.1MsZ  
 N 16s 3.83um  
 E 16s 3.80um

PMR 29.18 50 eP 48 38.63 -2.1  
 0.9s 32.90nm 5.0mb  
 Z 20s 3.61um 5.0MsZ

KAGJ 29.29 236 eP 48 42.10 0.1  
 COL 29.65 44 eP 48 44.09 -0.8  
 1.0s 78.30nm 5.4mb  
 FBA 29.65 44 iPc 48 43.93 -1.0

1.0s 56.64nm 5.2mb  
 TOA 30.53 49 eP 48 52.50 -0.3  
 KLU 30.72 50 iPc 48 53.26 -1.2  
 BJI 31.61 265 ePc 49 00.60 -1.8

1.4s 24.00nm 4.8mb  
 Z 20s 7.25um 5.3MsZ  
 N 17s 3.96um

e 49 11.20 39kmX  
 e 49 14.51  
 ePP 50 06.00  
 PcP 51 54.00  
 eS 54 02.60  
 eS 54 22.60  
 eScP 55 35.00  
 PcS 55 38.00

BALM 32.50 51 eP 49 09.07 -1.0  
 IRK 32.89 293 eP 49 12.00 -1.5  
 1.2s 37.00nm 5.1mb  
 Z 15s 3.60um 5.2MsZ  
 N 15s 3.00um  
 E 15s 2.42um

e 50 41.00 509kmX  
 e 51 58.00  
 eS 54 31.00

TTA 33.44 258 Pd 49 17.00 -1.4  
 1.0s 90.00nm 5.6mb  
 Z 24s 4.75um 5.1MsZ  
 N 16s 1.59um  
 E 16s 3.45um

PcP 51 58.50  
 eS 54 33.00

HHC 33.98 270 Pd 49 22.80 -0.3  
 1.2s 36.00nm 5.2mb  
 Z 20s 8.10um 5.4MsZ  
 N 14s 3.39um  
 E 14s 3.40um

ZAK 34.23 290 eP 49 24.00 -1.0  
 1.1s 50.00nm 5.4mb  
 Z 13s 6.17um 5.5MsZ  
 N 15s 5.66um  
 E 14s 4.99um

e 50 53.00 502kmX  
 e 52 00.50  
 eS 54 47.00  
 e 57 32.00

SSE 34.64 248 iPc 49 27.89 -0.9  
 N 16s 1.80um  
 E 18s 2.00um

ed 49 36.33 29kmX  
 PcP 52 03.00

BTO 35.08 271 P 49 32.00 -0.6  
 1.4s 160.00nm 5.8mb  
 N 15s 3.51um  
 E 15s 8.62um

PP 50 51.00  
 NJ2 35.29 251 Pc 49 35.00 0.7  
 0.8s 43.00nm 5.4mb  
 Z 18s 2.94um 5.1MsZ  
 N 16s 6.08um  
 E 14s 1.28um

S 55 00.00

TIY 35.34 265 Pd 49 34.40 -0.4  
 0.7s 38.00nm 5.4mb  
 Z 24s 3.24um 5.0MsZ  
 N 19s 4.73um

PcP 52 04.30  
 S 54 53.50  
 SIT 37.09 56 P 50 00.00 10.9X  
 Z 20s 36.81um 6.2MsZ



MBC	38.28	22 P	49 59.80	0.9		BAG	46.74	235 ePc+	51 07.80	-0.7		eLQ	05 43.40			
	0.8s	157.00nm		6.0mb		GQP	47.96	231 ePc	51 17.00	-0.9		eLR	08 34.40			
		PP	51 39.50			GMW	48.39	62 eP	51 21.52	0.5		FFC	54.24	45 P	52 03.52	-1.4
		PP	51 40.20			JCW	48.48	61 P	51 21.62	0.0			1.2s	58.20nm	5.5mb	
		PcP	52 12.50			BMW	48.79	64 iPc	51 24.11	0.0		FRU	54.76	296 eP	52 07.00	-2.0
		S	55 47.50			RMW	48.98	62 iPc	51 25.50	-0.1			1.6s	100.00nm	5.6mb	
		S	55 48.30			KMOR	49.14	65 P	51 25.81	-1.0		Z	17s	6.00um	5.7MsZ	X
		ScP	55 57.40			FMW	49.37	63 P	51 28.63	-0.1		N	17s	3.70um		
		PcS	56 01.00			LON	49.40	63 iPc	51 28.41	-0.4		E	17s	6.50um		
		ScS	00 06.30			SHW	49.51	64 eP	51 30.45	0.8			e		59 43.00	
WHN	39.04	254 Pc	50 05.00	-0.8		WTV	49.84	61 P	51 31.58	-0.6		BKS	54.82	72 eP	52 16.37	7.0X
	0.7s	34.00nm		5.3mb		ASR	49.89	63 P	51 33.18	0.6		Z	21s	1.50um	5.0MsZ	
	Z	16s	3.55um	5.3MsZ		EBG	49.99	62 P	51 33.22	-0.1			eS		00 01.37	
	E	14s	2.08um			KMI	49.99	260 iPc	51 32.48	-1.2			eLQ		06 08.37	
		eS	55 58.00				1.2s	110.00nm		5.8mb			eLR		08 04.37	
XAN	39.89	263 ePc	50 09.30	-3.6X			Z	25s	4.30um	5.4MsZ		HMR	54.89	71 (P)	52 10.47	0.6
	1.0s	9.80nm		4.6mb X			N	18s	3.80um			AAK	54.96	296 ePc	52 08.24	-2.3
	Z	15s	5.26um	5.5MsZ			E	12s	2.90um			LRM	55.03	59 ePc	52 10.60	-0.6
	N	15s	2.85um						eS	58 35.60				e	52 26.50	60km
	E	15s	3.66um						sS	58 54.00		MHC	55.53	72 ePc	52 14.54	-0.1
		ed	50 17.99	29kmX					ScS	01 21.00			1.7s	170.00nm	5.8mb	
		e	50 21.05			SAW	50.14	61 P	51 34.41	0.0		COE	55.57	72 eP	52 15.16	0.4
		ed	50 26.02			QIZ	50.44	248 iPc	51 38.79	1.9			epP	52 29.27	52km	
		S	56 07.00				1.2s	260.00nm		6.1mb		ARN	55.59	72 ePc	52 14.61	-0.4
		sS	58 57.00				N	17s	1.66um				epP	52 29.17	54km	
GUMO	39.99	202 (P)	50 15.23	1.5			E	15s	1.09um			SDF	55.69	340 iP	52 14.60	-0.7
PJG	39.99	202 eP	50 19.00	5.2X		VBEM	50.56	64 P	51 37.51	-0.2		CMB	55.79	70 ePc	52 16.30	-0.2
QZH	40.82	244 eP	50 17.00	-3.5X		WAH2	50.63	62 P	51 37.66	-0.4			1.2s	70.00nm	5.6mb	
	Z	18s	1.69um	4.9MsZ		DPW	50.68	60 iPc	51 37.79	-0.7		Z	22s	1.60um	5.1MsZ	
		S	56 30.00					pP	51 52.40	55km			eS		00 08.31	
LZH	41.68	270 Pc	50 27.00	-0.7		VGB	50.73	64 iPc	51 38.73	-0.2			eSS		03 42.31	
	1.6s	200.00nm		5.6mb				epP	51 52.44	51km			eLQ		06 22.31	
	Z	18s	5.49um	5.5MsZ		CROR	50.94	64 P	51 40.29	-0.3			eLR		09 00.31	
	N	15s	4.18um			NEW	51.01	59 iPd	51 40.36	-0.7		SAO	56.03	72 eP	52 21.99	3.8X
		pP	50 39.50	46km			1.2s	61.40nm		5.5mb		Z	21s	1.20um	5.0MsZ	
		sP	50 44.50				Z	20s	2.10um	5.2MsZ			eS		59 44.99	
		PcP	52 24.50			JBO	51.28	63 P	51 42.37	-0.7			eLQ		06 30.99	
		ScP	56 10.00			VIPM	51.44	64 P	51 44.27	-0.2			eLR		08 51.99	
		eS	56 39.50			DAG	51.47	359 iPd	51 43.30	-0.7		KSH	56.25	292 eP	52 19.00	-0.8
		esS	57 00.00				0.8s	179.10nm		6.2mb			1.0s	20.00nm	5.1mb	
		ScS	00 26.50			LNOR	51.87	62 P	51 47.19	-0.4		Z	20s	3.10um	5.4MsZ	
GTA	42.08	277 Pc	50 30.00	-0.9		YBH	52.02	68 ePc	51 49.46	0.7		N	12s	3.70um		
	1.4s	120.00nm		5.5mb			1.2s	70.00nm		5.6mb		E	12s	1.90um		
	Z	20s	10.10um	5.7MsZ			Z	22s	1.20um	4.9MsZ			pP		52 29.00	33kmX
	E	14s	4.08um					eS	59 17.52				sP		52 33.00	
		pP	50 37.00	24kmX				eLQ	04 29.52				PP		54 23.00	
		PP	52 10.00					eLR	06 38.52				ePcS		57 19.00	
		PcP	52 26.00			KMPM	52.05	71 eP	51 50.17	1.2			eS		59 56.00	
		ScP	56 14.50			DAV	52.55	224 ePc	51 53.50	0.6			ScS		02 02.00	
		PcS	56 18.50			SVE	52.62	317 ePd	51 51.00	-1.9			SS		03 39.00	
		S	56 46.00				2.1s	100.00nm		5.5mb		SHL	56.34	269 iPc	52 19.40	-1.3
		ScS	00 31.00				Z	17s	6.50um	5.7MsZ			eS		00 06.50	
ENH	42.16	259 ePc	50 30.02	-1.4			N	17s	3.50um			KVN	56.43	68 eP	52 21.48	0.2
YKA	44.39	41 P	50 49.20	0.0			E	17s	4.00um				epP		52 36.40	55km
	1.0s	31.00nm		5.0mb				e	52 07.00	61km		LOE	56.46	255 eP	52 20.00	-1.4
CVP	45.03	235 eP	50 49.50	-5.2X				e	53 03.00			GDH	56.70	13 iPc	52 21.00	-1.5
HON	45.11	116 P	51 10.00	14.6X				eS	59 08.00				1.0s	130.00nm	5.9mb	
	Z	21s	1.47um	4.9MsZ				eSS	02 52.00				e		53 09.00	212kmX
CD2	45.21	264 eP	50 55.40	-0.8		LBFM	52.73	68 iPc	51 54.56	0.2			e		10 45.00	
	0.9s	32.00nm		5.2mb				epP	52 08.81	53km		MMPM	56.87	70 eP	52 26.03	1.4
	Z	16s	4.66um	5.5MsZ				ePc	51 54.91	0.0		MEMM	56.88	70 eP	52 25.29	1.1
	E	15s	3.12um			WDC	52.86	69 ePc	51 54.91	0.0			epP		52 40.17	55km
		S	57 32.00				1.2s	48.67nm		5.4mb		PTI	57.04	61 iPc	52 26.36	0.8
GZH	45.24	248 P	50 58.00	1.6			Z	21s	1.35um	5.0MsZ			epP		52 41.27	55km
	Z	16s	2.02um	5.1MsZ		CTB	53.05	225 eP	51 58.00	1.5		CHTO	57.04	258 iPc	52 25.25	-0.3
	E	16s	2.86um			LMEM	53.45	69 eP	52 00.05	0.6			1.0s	85.25nm	5.8mb	
		eS	57 27.00					epP	52 14.79	55km		BONR	57.06	69 ePc	52 26.04	0.2
HKC	45.38	247 iP	50 59.90	2.4		KEV	53.62	341 (P)	51 58.08	-2.0			epP		52 40.69	54km
GYA	46.63	258 iPd	51 06.00	-1.5		ARU	53.74	317 eP	52 00.00	-1.2		MRCM	57.13	69 eP	52 27.49	1.2
	1.0s	100.00nm		5.7mb			Z	16s	5.50um	5.7MsZ		MTUM	57.32	70 eP	52 27.99	0.5
	Z	18s	4.73um	5.5MsZ			N	16s	4.00um				epP		52 42.01	51km
	N	16s	2.50um				E	16s	3.00um			HVU	57.56	62 ePc	52 29.25	0.1
	E	16s	2.03um					e	52 19.00	75kmX			epP		52 44.22	55km
		pP	51 22.00	63km				e	54 04.00			TNP	57.59	68 iPc	52 29.40	-0.1
		S	57 48.00					e	01 44.00				1.1s	97.19nm	5.8mb	
WMQ	46.71	290 eP	51 07.04	-0.9		LSA	53.83	273 ePc	52 01.90	-0.9			epP		52 44.45	56km
	1.5s	54.00nm		5.3mb			0.8s	24.00nm		5.3mb		BDT	58.21	257 eP	52 32.10	-1.6
	Z	14s	5.37um	5.7MsZ			Z	16s	13.10um	6.1MsZ			1.0s	82.80nm	5.8mb	
	E	12s	3.14um				N	14s	1.59um			ISA	58.53	71 ePc	52 34.58	-1.3
		e	51 16.15	30kmX			E	15s	1.69um			BW06	58.62	60 iPc	52 36.55	-0.1
		ec	51 20.20					ed	52 14.48	45km			1.1s	104.22nm	5.9mb	
		PcP	52 35.20					S	59 30.00				epP		52 51.67	56km
		PP	52 53.00					ScS	01 48.00			DUG	58.63	64 iP	52 36.70	0.1
		ScP	56 33.00			ORV	54.13	70 ePc	52 02.99	-1.3			1.1s	83.17nm	5.8mb	
		S	57 44.00				1.1s	70.00nm		5.6mb		Z	21s	0.97um	4.9MsZ	
		sS	58 11.00				Z	21s	0.70um	4.7MsZ			pP		52 51.53	55km
		ScS	06 58.00					eS	59 43.40			ABL	58.66	72 ePc	52 36.30	-0.7



07d 03h

								epP								52	50.99	54km									eSS								06	23.82									eSg								07	00.00																																									
NST	58.76	255	eP		52	38.00	0.5									KONO	65.97	344	eP	53	23.37	-1.6									UZH	73.14	332	iPc	54	09.00	0.1																																																										
PCT	58.78	253	iPd		52	39.30	1.7									MNK	66.93	331	eP	53	26.00	-5.1X									Z	17s	7.30um			5.5mb																																																											
								4.90nm																4.5mb X																Z								17s	7.30um			6.0MszX																																											
TPNV	58.93	69	ePc		52	38.54	-0.3																	1.5s								147.00nm																5.8mb																																															
								92.53nm																								Z								18s								9.60um																6.1Msz																															
								2.46um																																N								18s								5.90um																																							
																																								E								18s								5.20um																																							
DAU	59.34	63	ePc		52	42.09	0.3																																																																																								
LAT	59.36	194	eP		52	41.00	-0.6									ASH	66.98	302	eP	53	30.50	-1.2									BRG	73.30	338	iPd	54	09.20	-0.6																																																										
GSC	59.76	70	P		52	58.50	14.1X									IPM	67.12	247	ePd	53	34.90	2.0																	1.3s								90.00nm								5.5mb																																								
ARUT	59.95	66	iPc		52	45.49	-0.3																	0.9s								68.10nm																Z								21s								4.70um								5.7Msz																							
								epP																																								N								21s								4.80um																															
EMUT	59.99	63	ePc		52	46.08	-0.1									MAIO	67.61	300	eP	53	35.00	-0.9																	E								21s								1.70um																																								
SSK	60.01	72	eP		52	46.24	0.0																																																																																								
MSU	60.15	65	iPc		52	47.51	0.3									KGM	67.95	243	eP	53	40.00	1.9																																																																									
								epP																																																																																							
KAF	60.21	337	iP		52	45.70	-1.3									ACO	68.53	58	iPc	53	40.00	-1.5																																																																									
								0.5s																																																																																							
								15.80nm																																																																																							
PEC	60.54	72	ePc		52	48.67	-1.0									GRO	68.94	314	iPc	53	44.00	0.2																																																																									
								70.62nm																																																																																							
RSSD	60.55	55	iPc		52	49.44	-0.4									Z	16s	7.00um																																																																													
								239.29nm																																																																																							
SRU	60.65	63	iPc		52	50.54	0.0									MTN	68.97	209	eP	53	43.50	-0.7																																																																									
								pP																																																																																							
PLM	61.10	72	eP		52	53.28	-0.4									MUD	69.06	343	iPc	53	44.50	0.2																																																																									
								epP																																																																																							
PUL	61.14	333	ePd		52	53.00	-0.3									COP	69.15	341	iPc	53	45.00	0.1																																																																									
								120.00nm																																																																																							
								4.00um																																																																																							
								2.60um																																																																																							
								3.20um																																																																																							



	1.1s	106.50nm	5.7mb	ASPA	78.52	203 iPc	54	39.70	0.1	ROB	80.87	339 P	54	52.17	0.0	
		id	54 23.21		0.8s	43.50nm			5.5mb	FIN	80.88	339 P	54	52.17	0.0	
GEC2	75.25	337 P	54 21.20	-0.1		e	54	55.00	54km	ASS	80.90	336 P	54	53.56	1.3	
	0.6s	31.60nm	5.4mb		RZN	78.59	327 iPc	54	40.00	-0.1		1.4s	102.30nm	5.6mb		
CMP	75.30	328 ePd	54 24.00	2.5	EDC	78.68	324 eP	54	39.50	-0.8	CIN	81.01	323 iPc	54	53.00	0.2
UCC	75.33	344 P-	54 24.00	2.5	LOR	78.82	343 P	54	41.38	0.3	ELL	81.06	321 eP	55	00.50	7.2X
MCWV	75.33	43 ePc	54 21.39	-0.4		1.1s	330.00nm		6.2mb	RJF	81.13	344 P	54	54.47	1.1	
	1.1s	119.82nm	5.7mb		ALN	78.84	326 i(P)c	54	40.84	-0.3	BHL	81.14	315 P	54	52.00	-1.8
		epP	54 36.08	52km	LPF	78.87	347 P	54	41.93	0.7		S		05	08.00	
ECP	75.44	351 eP	54 22.90	0.8	PRM	78.87	48 eP	54	40.87	-0.6	CSS	81.23	318 eP	54	53.00	-1.1
KAS	75.56	321 iPd	54 23.80	0.6	GOGA	78.92	49 P	54	50.00	8.2X	IMI	81.24	339 P	54	54.32	0.3
SNF	75.62	344 iPd	54 23.74	0.6		Z	21s	3.44um	5.7msz	SAOF	81.24	340 P	54	54.05	0.1	
PSN	75.64	325 eP	54 24.00	0.6	ALT	78.97	322 eP	54	41.50	-0.6	AUTN	81.26	340 P	54	53.92	-0.4
DOU	75.96	343 Pc	54 25.50	0.3	KKB	78.98	328 iPc	54	42.00	0.0	SBF	81.38	340 P	54	55.02	0.2
		e	55 43.10	340kmX	MMB	79.01	327 iPc	54	42.00	-0.2	AQU	81.38	335 P	54	56.13	1.3
UZD	76.06	333 eP	54 24.70	-1.0	HYF	79.03	344 eP	54	43.10	0.9		1.1s	431.60nm	6.3mb		
WLF	76.09	342 Pc	54 27.00	1.1	SAL	79.03	338 P	54	42.95	0.8	CAF	81.40	344 P	54	56.40	1.6
HRV	76.16	36 ePc	54 25.13	-1.3		1.4s	646.50nm		6.4mb	MNS	81.54	335 P	54	55.86	0.3	
	1.0s	63.25nm	5.5mb		DST	79.05	323 eP	54	40.90	-1.5		1.1s	383.00nm	6.3mb		
	Z	20s	1.22um	5.2msz	MDI	79.06	339 P	54	42.06	-0.2	LFF	81.61	345 P	54	57.38	1.5
LSCT	76.26	38 P	54 40.00	13.0X		1.3s	71.40nm		5.4mb	PPCY	81.70	318 eP	54	55.50	-1.0	
	Z	21s	1.75um	5.3msz	LBF	79.07	343 P	54	42.63	0.2	DUI	81.75	334 P	54	58.65	1.9
LANF	76.42	341 P	54 28.07	0.3	SSF	79.08	343 P	54	42.88	0.4		0.5s	31.30nm	5.6mb		
FUR	76.45	338 iPc	54 28.50	0.5	MMK	79.18	340 iPc	54	44.45	1.1	AGG	81.79	327 i(P)c	54	55.04	-1.9
	1.3s	158.00nm	5.8mb		LHS	79.25	47 eP	54	43.11	-0.4	LPO	81.79	344 P	54	58.18	1.4
BHG	76.49	337 eP	54 28.80	0.6	DIX	79.27	340 iPc	54	45.05	1.2	FRF	81.84	340 eP	54	57.90	0.8
	1.3s	164.00nm	5.8mb		AVF	79.37	343 P	54	44.66	0.7		1.2s	53.55nm	5.4mb		
GMTN	76.58	39 iP	54 28.50	-0.3	EMS	79.38	341 iPd	54	45.50	1.2	SDI	81.88	334 P	54	57.18	-0.2
PAL	76.58	38 iPc	54 28.03	-0.7	SKO	79.41	329 iPc	54	44.30	0.0		1.0s	122.20nm	5.9mb		
		epP	54 46.62	68kmX		1.6s	170.00nm		5.7mb	LCI	81.98	331 P	54	57.97	0.2	
KOD	76.81	270 eP	54 30.00	-0.8		Z	19s	2.74um	5.6msz			0.7s	153.70nm	6.1mb		
NAV	76.88	45 eP	54 30.05	-0.5			i	54	46.00	5kmX	LRG	82.00	340 P	54	58.72	0.8
KBA	76.98	337 iPc	54 32.10	0.9			i	54	51.50		LMR	82.08	340 P	54	59.06	0.7
	0.8s	274.00nm	6.3mb				LR	34	04.00		PGF	82.28	338 iPc	55	00.00	0.4
		i	54 35.40	11kmX	SMF	79.42	343 P	54	44.93	0.6		1.3s	106.15nm	5.7mb		
WLS	77.05	341 P	54 31.58	0.2	SRS	79.48	327 i(P)c	54	44.28	-0.4	ARMA	82.35	186 eP	55	00.30	0.5
CDF	77.07	341 iPc	54 31.90	0.4	ORX	79.58	340 P	54	50.93	5.6X		1.2s	44.00nm	5.3mb		
	1.1s	165.10nm	6.0mb		ORO	79.58	340 P	54	46.47	1.2	SGO	82.54	333 P	55	01.93	1.2
BLA	77.13	45 eP	54 31.53	-0.4		0.9s	31.70nm		5.2mb			1.4s	81.50nm	5.5mb		
	1.2s	54.90nm	5.4mb		VAY	79.64	328 iP	54	45.40	-0.1	ORI	82.67	332 P	55	02.69	1.2
WATA	77.16	338 iPc	54 32.70	0.6		1.3s	280.00nm		6.0mb			1.2s	556.00nm	6.4mb		
WTTA	77.22	338 iPc	54 33.10	0.7	KNT	79.67	328 i(P)c	54	45.62	-0.1	MGR	82.86	333 P	55	03.25	0.8
	1.0s	135.00nm	5.9mb		BGF	79.68	344 P	54	46.41	0.7		1.2s	248.00nm	6.1mb		
MYNC	77.24	49 ePc	54 32.13	-0.5	HVAR	79.79	333 iP	54	45.20	-1.1	WARB	82.89	209 eP	55	03.50	0.9
	1.2s	64.93nm	5.5mb		SOH	79.83	327 i(P)c	54	45.92	-0.7	MJMA	83.28	304 eP	55	03.67	-1.2
	Z	20s	3.12um	5.6msz	LSD	79.92	340 P	54	48.37	1.1	RYD	83.52	302 eP	55	03.80	-2.4
LIBD	77.25	341 P	54 33.00	0.6	SDA	79.94	331 eP	54	49.00	1.9	EPF	83.54	344 P	55	06.65	0.7
MOTA	77.26	338 iPc	54 33.00	0.3	LPL	79.95	341 P	54	48.77	1.3	GRI	83.83	331 P	55	08.06	0.6
JMB	77.26	326 eP	54 32.00	-0.5	LPG	79.96	341 P	54	48.93	1.3		1.0s	135.90nm	5.9mb		
ECH	77.28	341 P	54 32.66	0.1	GRG	80.02	328 i(P)c	54	47.32	-0.3	QASM	83.98	305 eP	55	07.67	-0.8
CVL	77.33	43 eP	54 32.99	0.0	OUR	80.05	327 i(P)c	54	47.08	-0.6	EGRA	84.46	345 eP	55	12.78	2.3
SQTA	77.36	338 iPc	54 33.70	0.6	MAF	80.06	344 P	54	48.91	1.2	SOI	84.63	331 P	55	11.51	0.1
	1.2s	217.00nm	6.0mb		BOB	80.08	339 P	54	48.93	1.0		1.7s	150.00nm	5.8mb		
PTJ	77.41	335 iPc	54 33.50	0.1		1.4s	336.80nm		6.1mb	UQSK	84.82	306 eP	55	12.67	0.0	
FEL	77.43	340 P	54 33.55	0.0	THE	80.13	328 i(P)c	54	47.32	-0.8	STS	84.85	351 eP	55	13.88	1.4
SLE	77.44	340 ePc	54 33.58	0.1	MFF	80.13	346 P	54	48.95	0.9	STK	84.94	195 eP	55	14.50	1.7
ZAG	77.48	334 iPc	54 35.00	1.4	RSM	80.15	336 P	54	49.79	1.6		0.9s	7.80nm	4.8mb		
VITF	77.51	342 P	54 34.32	0.5		1.3s	898.50nm		6.5mb	ERUA	85.20	350 eP	55	15.15	0.9	
CBN	77.59	42 eP	54 34.00	-0.4	RSP	80.19	340 P	54	49.33	0.8	AYN	85.27	312 eP	55	15.00	0.2
HRT	77.60	323 iP	54 32.50	-2.0	LSF	80.21	344 P	54	49.36	0.8	AFIF	85.80	304 iPc	55	19.00	1.3
MOF	77.63	341 P	54 34.86	0.2	LACI	80.25	330 iPc	54	48.00	-0.7	PZI	85.93	332 P	55	19.05	1.0
EYL	77.64	323 iP	54 33.50	-1.3	SFI	80.31	337 P	54	50.68	1.7		1.6s	359.00nm	6.3mb		
HAU	77.64	342 P	54 34.86	0.3		1.2s	161.20nm		5.8mb	MEEK	85.96	216 eP	55	18.00	0.0	
LJU	77.65	336 iP	54 34.60	0.0	PGD	80.38	337 P	54	51.59	1.9	ETOR	86.08	346 eP	55	20.64	1.9
		i	54 42.20	24kmX		1.2s	327.70nm		6.1mb	GUD	86.55	347 eP	55	23.32	2.2	
		e	26 51.00		BNI	80.40	341 P	54	51.45	1.7	ECHE	87.11	345 eP	55	35.30	11.6X
						1.4s	115.70nm		5.6mb	EPLA	87.37	349 eP	55	25.44	0.4	
GBZT	77.71	323 eP	54 34.50	-0.5	ARV	80.43	336 P	54	50.56	0.8	PAB	87.66	347 eP	55	27.00	0.6
BSF	77.72	341 iPc	54 35.20	0.1		1.2s	546.50nm		6.4mb	EVIA	88.28	346 eP	55	30.12	0.6	
	1.3s	158.85nm	5.9mb		SGS	80.46	47 eP	54	50.27	0.3	EHUE	89.10	346 eP	55	33.67	0.3
ZLA	77.73	340 iPd	54 35.86	0.8	TIR	80.47	330 eP	54	49.60	-0.3	EHOR	89.47	348 eP	55	34.40	-0.6
OGA	77.73	338 iPc	54 36.30	1.0	BDI	80.48	337 P	54	51.63	1.6	ECOG	89.77	346 eP	55	37.46	0.9
CTT	77.77	324 iP	54 34.60	-0.7		1.3s	92.50nm		5.6mb	ELOJ	89.99	347 eP	55	38.90	1.3	
BBS	77.93	341 P	54 36.50	0.3	BHB	80.48	340 P	54	50.02	0.0	TOO	90.01	191 eP	55	37.20	0.0
VBY	77.96	335 iPc	54 36.40	0.1	PCP	80.49	339 P	54	51.44	1.3		1.0s	62.00nm	5.9mb		
PGB	78.01	328 eP	54 37.00	0.3	FNA	80.51	329 i(P)c	54	49.72	-0.5		e	55	52.20	51km	
FLN	78.08	346 P	54 37.15	0.3	RRL	80.51	340 P	54	52.26	1.8	EGUA	90.21	346 eP	55	20.19	-18.3X
IZI	78.10	323 eP	54 37.40	0.1	MBL	80.51	217 eP	54	50.10	-0.2	EJIF	90.85	348 eP	55	42.29	0.9
OSS	78.10	339 ePc	54 38.19	0.9	PAIG	80.52	327 i(P)c	54	49.00	-1.2	BCAO	114.51	316 ePKPd	01	19.30	0.8
TRI	78.16	336 eP	54 37.00	-0.4	CRE	80.56	336 P	54	52.00	1.5		0.7s	3.00nm			
LOMF	78.17	341 P	54 37.93	0.4		1.3s	105.30nm		5.6mb	LKO	117.26	343 PKP	01	23.17	-0.5	
LLS	78.18	339 iPd	54 38.69	0.9	IZM	80.62	324 eP	54	48.50	-2.3		1.0s	7.50nm			
LDF	78.19	346 P	54 37.74	0.2	HBF	80.74	47 ePc	54	51.55	0.1	TIC	119.98	342 PKP	01	27.88	-1.0
PLD	78.23	327 eP	54 37.00	-0.8	LIT	80.76	328 i(P)c	54	50.16	-1.4		1.1s	23.00nm			



07d 04h

1.2s 33.00nm  
 LPAZ 128.51 64 PKP 01 45.40 -0.6  
 LPB 128.73 64 PKP 01 46.00 -0.1  
 SIV 132.06 57 PKP 01 51.30 -0.7  
 SLR 134.69 286 iPKPd 01 58.00 1.1  
 1.1s 90.00nm  
 Z 20s 4.00um 6.1msz  
 e 05 26.30  
 SEK 136.99 284 ePKP 02 01.50 0.3  
 1.0s 90.00nm  
 BAO 137.81 41 ePKP 01 54.50 -8.5X  
 i 02 04.20  
 BLF 138.43 285 ePKP 01 56.50 -7.4X  
 BOSA 138.52 286 ePKP 02 06.08 2.3  
 BOSA 138.52 286 ePKP 01 54.70 -9.1X  
 GRM 141.17 280 ePKP 02 05.00 -3.5X  
 SPA 141.84 180 iPKPc 02 03.20 -5.6X  
 1.0s 60.00nm  
 VAO 144.81 44 ePKP 02 14.50 -0.6  
 e 02 16.00  
 RSTA 145.31 49 ePKP 02 15.10 -0.7  
 CER 145.58 287 ePKP 02 06.50 -9.6X  
 1.4s 460.00nm  
 PARB 145.68 43 ePKP 02 17.20 0.6  
 BLE 146.34 287 iPKPc 02 18.00 0.7  
 0.6s 47.00nm  
 SYO 147.47 216 ePKPd 02 20.00 2.0  
 NVL 156.06 206 (PKP) 02 40.00 9.6X  
 e 03 11.00  
 S.D. = 1.0 on 426 of 464 obs.  
 -----  
 JAN 07, 1994 03h 48m 17.90± 0.68s  
 41.771 N ± 6.2km 22.219 E ± 5.1km  
 DEPTH = 5.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.9 (THE).  
 VAY 0.52 150 iPg 48 27.50 -0.8  
 0.2s 530.00nm  
 iSg 48 34.70  
 SKO 0.62 289 ePg 48 29.50 -0.7  
 0.5s 170.00nm  
 i 48 33.30  
 iSg 48 38.50  
 i 48 40.00  
 Lg 48 46.50  
 KNT 0.79 140 iPg 48 32.86 -0.9  
 eSg 48 43.12  
 GRG 0.82 170 iPg 48 33.25 -1.1  
 iPg 48 44.92  
 FNA 1.17 213 iPg 48 40.76 0.5  
 eSg 48 57.36  
 SRS 1.22 122 iPg 48 40.56 -0.5  
 eSg 48 56.88  
 OHR 1.25 239 iPg 48 42.00 0.3  
 0.9s 100.00nm  
 iSg 49 00.20  
 Lg 49 07.50  
 THE 1.27 153 ePb 48 41.84 0.0  
 eSb 48 58.32  
 SOH 1.28 138 iPhd 48 42.25 0.2  
 eSb 48 57.50  
 LIT 1.68 173 ePb 48 48.80 0.7  
 eSb 49 11.16  
 OUR 1.96 137 ePb 48 52.96 0.9  
 eSb 49 17.88  
 PAIG 2.15 148 ePn 48 56.36 1.5  
 eSn 49 22.48  
 ALN 3.01 106 iP 49 13.60 6.5X  
 MLR 4.60 35 eP 49 30.00 0.2  
 e 54 18.50  
 S.D. = 0.9 on 13 of 14 obs.  
 -----  
 & JAN 07, 1994 03h 53m 17.48s  
 35.986 N 120.128 W  
 DEPTH = 17.3km  
 CENTRAL CALIFORNIA (39)  
 <GM-P>. MD 3.5 (GM). ML 3.4  
 (PAS), 3.2 (BRK).  
 PKEM 0.08 12 eP 53 19.26 -1.7  
 PHAM 0.27 236 eP 53 23.60 0.1  
 BCH 0.80 177 eP 53 32.55 -0.1  
 SAO 1.32 307 eP 53 40.45 -0.6  
 ABL 1.35 147 eP 53 39.64 -2.1  
 COE 1.78 316 eP 53 47.38 -0.3  
 MHC 1.82 318 eP 53 53.22 4.8

MMPM 1.85 28 eP 53 49.46 0.5  
 MTUM 1.86 42 iPd 53 49.61 0.6  
 CMB 2.06 354 eP 53 51.50 -0.2  
 eS 54 16.61  
 MRGM 2.13 37 eP 53 53.18 0.2  
 BKS 2.53 319 eP 53 57.83 -0.6  
 SSK 2.67 131 eP 53 59.67 -1.0  
 PEC 3.21 130 eP 54 07.24 -0.9  
 TPNV 3.27 72 eP 54 09.22 0.1  
 KVN 3.46 27 eP 54 12.38 0.6  
 ORV 3.73 343 eP 54 16.40 1.0  
 17 obs. associated  
 -----  
 JAN 07, 1994 03h 57m 58.10± 1.19s  
 41.768 N ± 11.3km 22.239 E ± 6.4km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.9 (THE).  
 VAY 0.51 151 iPg 58 07.40 -1.1  
 0.3s 170.00nm  
 iSg 58 14.60  
 SKO 0.63 289 ePg 58 10.00 -0.8  
 0.5s 70.00nm  
 i 58 13.00  
 iSg 58 18.50  
 i 58 20.50  
 Lg 58 25.00  
 KNT 0.78 140 iPg 58 12.50 -0.9  
 eSg 58 22.80  
 GRG 0.82 171 iPg 58 12.98 -1.0  
 eSg 58 24.72  
 FNA 1.18 214 ePg 58 20.70 0.6  
 eSg 58 35.56  
 SRS 1.21 122 ePg 58 20.76 0.2  
 eSg 58 36.08  
 THE 1.26 154 iPg 58 21.24 -0.3  
 eSg 58 36.48  
 SOH 1.27 138 ePg 58 21.32 -0.3  
 iSg 58 38.25  
 OHR 1.27 239 ePn 58 22.00 0.3  
 LIT 1.68 173 ePb 58 28.32 0.7  
 OUR 1.95 137 iPb 58 33.28 1.8  
 eSb 59 57.02  
 PAIG 2.14 149 ePn 58 35.04 0.7  
 S.D. = 1.0 on 12 of 12 obs.  
 -----  
 ? JAN 07, 1994 05h 17m 56.71±10.13s  
 19.260 N ± 65.9km 66.912 W ± 43.6km  
 DEPTH = 10.0km (geophysicist)  
 PUERTO RICO REGION (90)  
 LRS 0.96 176 P 18 15.00 -0.1  
 CLLP 1.22 165 P 18 19.20 -0.1  
 MGP 1.26 188 P 18 20.00 -0.1  
 LPR 1.37 134 P 18 21.20 -0.6  
 CPD 1.54 142 P 18 25.00 0.8  
 S.D. = 0.7 on 5 of 5 obs.  
 -----  
 % JAN 07, 1994 06h 50m 11.77± 2.64s  
 11.978 N ± 6.6km 61.912 W ± 22.7km  
 DEPTH = 109.1 ± 28.3 km  
 WINDWARD ISLANDS (95)  
 MD 3.3 (TRN).  
 GRW 0.30 54 eP 50 27.71 0.0  
 eS 50 40.41  
 TCE 1.28 173 eP 50 36.54 0.2  
 eS 50 54.12  
 TPR 1.36 125 eP 50 37.50 0.2  
 eS 50 55.22  
 TRN 1.41 159 eP 50 37.64 -0.2  
 eS 50 55.52  
 BOT 1.42 124 eP 50 37.76 -0.2  
 SVB 1.44 27 eP 50 38.41 0.2  
 eS 50 56.27  
 SVV 1.49 27 eP 50 38.72 -0.1  
 eS 50 56.48  
 TBH 1.70 151 eP 50 41.37 0.0  
 eS 51 03.20  
 S.D. = 0.2 on 8 of 8 obs.  
 -----  
 JAN 07, 1994 07h 19m 25.11± 0.72s  
 2.541 N ± 5.5km 79.786 W ± 6.7km  
 DEPTH = 25.6 ± 5.8 km  
 5.0mb (15 obs.)  
 SOUTH OF PANAMA (83)

MD 4.6 (QUI), 4.6 (UPA).  
 JAMA 2.30 191 P 20 07.36 5.2X  
 COTA 2.63 147 P 20 06.03 -1.2  
 DOMO 2.64 147 P 20 06.13 -1.3  
 PSO 2.80 119 eP 20 09.00 -0.6  
 GGP 2.95 156 P 20 10.99 -0.9  
 CAYA 3.04 144 P 20 13.52 0.4  
 VC1 3.45 156 P 20 19.92 1.0  
 BOG 6.07 70 eP 20 57.00 1.1  
 eS 21 42.00  
 UPA 6.40 2 eP 21 02.66 2.4  
 ECO 6.78 1 eP 21 04.02 -1.6  
 eS 22 17.39  
 SDV 11.07 55 eP 22 04.30 -0.9  
 NNA 14.73 169 eP 22 58.00 4.3X  
 0.9s 12.60nm 4.4mb  
 ARE 20.58 157 eP 24 07.00 1.7  
 SVB 21.21 59 eP 24 11.29 0.0  
 SLB 21.65 58 eP 24 17.24 1.3  
 LPAZ 21.97 149 iPc 24 19.80 0.1  
 LR 30 21.00  
 FDF 22.02 56 eP 24 20.30 0.7  
 MVM 22.14 56 eP 24 24.79 4.1X  
 LPB 22.19 149 P 24 22.80 1.1  
 LR 31 46.00  
 CRM 22.22 56 eP 24 23.72 2.2X  
 SIV 26.10 135 P 24 58.70 -0.2  
 UYO 34.31 338 iPc 26 10.50 -1.2  
 TUL 36.36 338 iPc 26 28.40 -0.7  
 MEO 36.54 334 iPd 26 29.80 -0.8  
 FVM 36.60 346 eP 26 29.80 -1.3  
 1.0s 20.27nm 4.9mb  
 ALQ 40.67 326 eP 27 06.09 0.8  
 0.9s 16.98nm 4.8mb  
 VAO 40.84 130 (P) 27 05.00 -1.7  
 GLD 43.65 331 eP 27 31.21 1.6  
 1.4s 25.79nm 4.8mb  
 PV08 44.51 327 eP 27 37.56 0.8  
 e 29 20.37  
 PV10 44.58 327 ePc 27 37.52 0.3  
 SRU 45.91 326 eP 27 47.40 -0.4  
 MSU 46.44 325 eP 27 52.60 0.6  
 e 29 26.90  
 RSSD 46.64 336 eP 27 53.96 0.5  
 0.8s 14.55nm 5.0mb  
 ARUT 46.71 323 ePc 27 55.11 1.1  
 DAU 47.23 327 eP 27 58.65 0.3  
 i 29 29.74  
 GSC 47.33 318 eP 27 59.77 0.9  
 BW06 48.06 331 eP 28 03.98 -0.8  
 1.3s 6.56nm 4.5mb  
 LRM 51.71 331 ePc 28 32.50 -0.1  
 ORV 52.81 320 ePc 28 41.52 0.8  
 YKA 65.18 343 P 30 03.20 -2.9  
 0.8s 4.50nm 4.6mb  
 KDS 67.57 78 iPc 30 21.50 -0.6  
 LKO 74.00 81 Pd 31 00.45 -0.6  
 0.8s 16.50nm 5.1mb  
 LIC 74.58 84 Pd 31 03.98 -0.4  
 1.0s 25.50nm 5.2mb  
 TIC 74.58 84 Pd 31 03.90 -0.5  
 1.0s 15.00nm 5.0mb  
 KIC 74.87 84 Pd 31 05.82 -0.2  
 0.9s 28.50nm 5.3mb  
 DAG 81.12 12 eP 31 32.50 -6.8X  
 ENN 85.33 39 eP 32 01.00 -0.2  
 0.9s 11.90nm 5.1mb  
 WTS 85.91 38 eP 32 04.50 0.4  
 0.9s 45.30nm 5.7mb  
 NB2 88.28 29 P 32 16.90 1.4  
 0.8s 8.30nm 5.1mb  
 HFS 89.56 30 eP 32 20.80 -0.7  
 0.4s 1.50nm 4.6mb  
 WRA 142.46 240 PKP 38 53.80 -4.6X  
 0.6s 1.50nm  
 GBA 152.29 54 PKP 39 21.00 6.8X  
 S.D. = 1.1 on 45 of 52 obs.  
 -----  
 ? JAN 07, 1994 07h 36m 04.27± 3.27s  
 19.895 S ± 15.6km 169.913 E ± 29.1km  
 DEPTH = 50.4 ± 20.9 km  
 4.6mb (4 obs.) 4.0msz (1 obs.)  
 VANUATU ISLANDS (186)  
 BKM 2.72 324 iP 36 46.30 -0.2  
 iS 37 14.50



DZM	3.90	236	iP	37	03.60	0.3	DST	0.78	64	ePg	02	36.20	-0.1	CIT	34.71	47	eP	32	36.20	1.3							
			iS	37	49.00					eSg	02	48.70		MLR	35.81	301	ePd	32	46.00	1.6							
ARMA	19.56	234	eP	40	34.60	3.6X	IZM	0.94	202	ePg	02	38.90	0.0	BOD	36.70	38	eP	32	49.80	-1.8							
	0.8s	19.00nm				4.4mb	EDC	1.08	6	ePn	02	41.50	0.2		0.7s	13.00nm			4.9mb								
WRA	33.41	264	P	42	39.70	-0.7	BNT	1.10	8	ePn	02	41.40	-0.2	KAF	39.19	328	iP	33	11.50	-0.8							
	1.0s	1.80nm				3.9mb	IZI	1.72	51	ePn	02	51.40	0.1	NUR	39.35	325	iP	33	13.20	-0.5							
ASPA	33.60	257	iPd	42	41.60	-0.5				eSg	02	52.60			0.5s	5.00nm			4.5mb								
	1.2s	14.60nm				4.7mb	S.D. = 0.2 on 5 of 5 obs.							SDF	41.49	336	eP	33	30.00	-1.2							
Z	21s	0.30um				4.0MsZ	-----							GEC2	44.09	307	P	33	52.50	-0.3							
CHTO	79.50	294	eP	48	09.00	1.4	% JAN 07, 1994 09h 06m 21.81± 0.78s								0.7s	0.94nm			3.7mb X								
LZH	83.64	312	ePd	48	29.50	0.4	26.354 S ± 6.1km 27.438 E ± 8.0km								HFS	44.55	323	eP	33	54.80	-1.4						
	1.4s	18.00nm				4.9mb	DEPTH = 5.0km (geophysicist)								0.6s	17.40nm			5.0mb								
VAY	145.01	315	ePKP	55	36.30	-1.4	REPUBLIC OF SOUTH AFRICA (584)								SZP	46.93	98	eP	34	31.00	15.4X						
KHC	145.21	332	PKP	55	37.70	-0.2	ML 2.3 (PRE).								BSF	48.78	306	iPd	34	29.00	-0.9						
	1.3s	9.50nm														0.7s	4.95nm			4.6mb							
GEC2	145.37	332	PKP	55	37.60	-0.6	PRY	0.57	177	eP	06	32.40	-0.9	HAU	49.05	306	eP	34	31.00	-0.8							
	1.0s	4.77nm													0.6s	3.45nm			4.6mb								
			e	55	47.40		KSR	0.69	315	eP	06	35.00	-0.6	LPG	49.22	303	iPd	34	33.40	-0.1							
SKO	145.44	317	ePKP	55	38.80	0.4										1.4s	33.55nm			5.2mb							
OHR	146.29	316	ePKP	55	41.00	1.0	SLR	0.98	51	eP	06	41.20	0.3	LPL	49.23	303	iPd	34	33.40	-0.1							
	S.D. = 1.0 on 11 of 12 obs.														1.0s	9.00nm			4.8mb								
-----							SEK	1.97	175	eP	06	56.50	0.2	LBF	50.82	305	iPd	34	44.60	-0.7							
* JAN 07, 1994 07h 41m 39.72± 2.03s							SWZ	2.06	246	eP	06	58.00	0.3		1.0s	12.80nm			4.9mb								
39.994 N ±11.1km 19.572 E ±16.2km							BOSA	2.88	218	eP	07	09.90	0.7	SMF	50.98	305	iPd	34	45.90	-0.6							
DEPTH = 10.0km (geophysicist)															0.8s	13.05nm			5.0mb								
GREECE-ALBANIA BORDER REGION (392)														51.12	306	iPd	34	46.80	-0.8								
ML 2.9 (TIR), 2.8 (THE).														S.D. = 0.8 on 6 of 6 obs.								0.5s	4.65nm			4.7mb	
-----							JAN 07, 1994 09h 25m 46.57± 1.08s								51.28	305	iPd	34	48.00	-0.8							
SRN							34.761 N ± 5.9km 71.211 E ± 5.3km								0.9s	11.30nm			4.8mb								
	0.35	109	iPgC	41	45.40	-1.5	DEPTH = 37.4 ± 11.8 km								52.16	305	iPd	34	55.20	-0.3							
			iSg	41	50.40		4.7mb ( 29 obs.) 4.0MsZ ( 1 obs.)								0.7s	7.30nm			4.8mb								
VLO	0.48	353	ePg	41	48.30	-1.1	PAKISTAN (710)								DAG	56.47	344	iPc	35	25.40	-1.2						
			iSg	41	57.50											0.8s	5.22nm			4.6mb							
IGT	0.75	128	ePg	41	53.92	-0.4	QUE	5.81	219	eP	27	15.50	2.7	BCAO	57.23	251	iPd	35	31.70	-1.1							
			eSg	42	05.36		KSH	6.04	38	ePn	27	16.60	0.6		0.2s	24.00nm			5.9mb X								
LSK	0.80	78	ePg	41	48.60	-6.8X		0.5s	21.00nm			5.0mb		LKO	73.80	270	P	37	20.10	0.7							
KBN	1.12	56	ePg	42	02.00	1.2	Z	20s	1.20um						0.9s	5.00nm			4.5mb								
			iSg	42	13.00				ePg	27	38.00			KIC	74.87	267	P	37	24.98	-0.6							
TIR	1.37	9	ePn	42	04.60	-0.2	NDI	7.93	138	iPc	27	42.50	0.2		0.7s	5.50nm			4.7mb								
			iSn	42	27.10				iS	29	10.00			TIC	74.94	268	P	37	25.26	-0.7							
OHR	1.46	40	ePn	42	02.80	-3.3X	FRU	8.49	17	eP	27	51.40	1.4		0.7s	5.50nm			4.7mb								
	0.5s	60.00nm						1.6s	190.00nm			5.9mb X		LIC	75.18	267	P	37	26.62	-0.7							
			iSn	42	23.10		MAIO	9.67	282	eP	28	06.00	-0.5		0.7s	7.00nm			4.8mb								
			Lg	42	27.50				eS	30	02.00			WRA	80.93	122	P	38	00.80	2.1							
FNA	1.59	60	ePb	42	05.96	-2.0	ASH	10.85	291	eP	28	28.50	6.1X		0.6s	1.20nm			4.1mb								
			eSb	42	27.12				e	30	17.50			WB2	80.94	122	iPc	37	59.80	1.0							
LACI	1.64	4	ePn	42	10.00	1.3	GKN	13.29	117	P	28	53.90	-1.5		0.5s	5.10nm			4.8mb								
LIT	2.24	86	ePn	42	18.24	0.8	DMN	13.86	117	P	29	01.40	-1.5	YKA	82.97	3	P	38	08.10	-0.5							
			eSn	42	44.96		KKN	13.89	116	P	29	01.20	-2.0		0.6s	3.20nm			4.6mb								
AGG	2.34	114	ePn	42	20.32	1.4	PKI	14.10	117	P	29	04.20	-2.0	ASPA	83.12	125	eP	38	13.10	3.0X							
GRG	2.36	65	ePn	42	20.09	0.9	GUN	14.27	115	P	29	06.50	-1.9		0.7s	6.60nm			4.8mb								
SKO	2.43	35	e(Pn)	42	20.00	-0.1	WMQ	15.62	50	P	29	24.60	-1.1	S.D. = 1.3 on 50 of 56 obs.													
			i	42	51.40			1.0s	13.00nm			4.1mb		-----													
VAY	2.64	59	ePn	42	23.00	-0.1			PP	29	34.00			& JAN 07, 1994 09h 39m 37.59s													
KNT	2.79	64	iPnd	42	25.08	-0.2			S	32	21.00			42.283 N 121.906 W													
	S.D. = 1.2 on 13 of 15 obs.								sS	32	27.50			DEPTH = 7.4km ( 32)													
-----							POO	16.33	171	eP	29	33.90	-0.9	OREGON ( 32)													
? JAN 07, 1994 08h 41m 25.34± 5.31s							LSA	17.60	101	eP	29	52.50	1.4	<SEA-P>. MD 4.0 (SEA). ML 4.1													
35.225 S ±49.6km 70.074 W ±34.6km								0.8s	7.00nm			3.8mb	(GS), 3.9 (BRK). Felt (IV) at														
DEPTH = 170.0km (geophysicist)							HYB	18.48	157	eP	30	01.40	-0.1	Chiloquin and Klamath Falls.													
CHILE-ARGENTINA BORDER REGION (127)							SHL	20.06	112	iPc	30	21.00	1.4	Felt (III) at Midland.													
MD 3.5 (SAN).									eS	33	54.00																
CACH							1.19	338	iPd	41	54.02	0.0	GRO	21.54	301	eP	30	35.00	0.6	LAB	0.12	263	P	39	40.44	0.0	
									iS	42	15.98		Z	18s	0.50um			4.0MsZ		HAMO	0.22	193	Pd	39	42.44	0.2	
PCH	1.64	347	iPd	41	58.36	0.0		N	12s	1.00um									39 46.11								
			iS	42	23.57		GBA	21.80	164	P	30	39.20	1.9						39 46.99								
LVN	1.68	319	iP	41	58.61	0.0			S	34	53.20		VRC	0.24	283	Pc	39	42.66	0.2								
			iS	42	22.36		MTA	21.82	296	iP	30	38.00	0.7						39 51.68	-0.4							
TACH	1.72	335	iP	41	59.16	0.1	SVE	23.20	345	ePd	30	51.80	1.1	LASM	0.73	160	P	39	52.15	-1.5							
			iS	42	24.70			1.1s	40.00nm			4.8mb		YBH	0.81	228	eP	39	52.15	-1.5							
FCH	1.90	355	iPd	42	01.16	-0.2		Z	12s	0.50um		4.2MsZ X							40 02.88								
			iS	42	28.98			N	12s	0.50um				BBOR	0.83	317	P	39	53.34	-0.7							
PEL	2.14	346	iP+	42	04.06	0.3	GTA	23.24	70	P	30	55.50	4.1X						40 04.66								
			iS	42	32.20			1.0s	22.00nm			4.6mb		LBFM	0.94	179	iPd	39	55.28	-0.6							
LCCH	2.14	324	iPd	42	03.53	-0.1	ARU	23.30	342	eP	30	54.00	2.3	LGBM	0.96	193	P	39	55.79	-0.5							
			iS	42	31.69			0.9s	100.00nm			5.3mb		DBO	1.29	311	P	40	01.40	-0.4							
ROCH	2.38	341	iPd	42	06.59	-0.1	Z	14s	0.50um			4.1MsZ X							40 19.37								
JACH	2.57	350	iPd	42	08.86	0.0			e	30	59.00			LBKM	1.33	206	P	40	01.27	-1.1							
			iS	42	42.07				e	31	22.00			LHCM	1.51	169	P	40	05.15	0.1							
	S.D. = 0.2 on 9 of 9 obs.						PYA	23.55	302	eP	30	55.00	0.7	HSO	1.52	325	P	40	05.38	0.2							
-----							KOD	25.07	165	eP	31	15.00	5.5X					40 26.56									
% JAN 07, 1994 09h 02m 20.98± 0.89s							CD2	27.55	89	eP	31	33.60	1.6	NCOR	1.53	21	P	40	06.38	0.9							
39.268 N ± 7.7km 27.714 E ±12.1km							ZAK	28.04	46	eP	31	37.80	1.7					40 27.38									
DEPTH = 10.0km (geophysicist)								0.7s	8.00nm			4.5mb	KOMM	1.53	230	P	40	05.21	-0.2								
TURKEY (366)							CHTO	29.28	116	ePd	31	50.00	2.4	HBO	1.59	349	Pd	40	06.78	0.5							
ML 2.8 (ISK).							XAN	31.01	80	P	32	06.20	3.4X	KRMM	1.67	244	P	40	09.75	2.2							
								0.6s	2.60nm			4.2mb	LMEM	1.76	172	eP	40	09.27	0.4								



07d 09h

WDC 1.77 196 eP 40 08.27 -0.5  
 LCFM 1.82 171 P 40 11.05 1.3  
 TCO 1.84 7 P 40 10.85 0.9  
 LDBM 1.85 177 P 40 11.28 1.2  
 LSLM 1.87 171 P 40 11.25 0.9  
 KHBM 1.90 212 P 40 13.09 2.3  
 LHKM 1.91 165 P 40 12.32 1.4  
 KRPM 1.94 235 P 40 13.76 2.4  
 MIN 1.95 173 ePc 40 12.47 0.9  
 FBO 2.08 347 P 40 13.86 0.4  
 RNO 2.11 321 P 40 15.64 1.9  
 ARC 2.15 230 eP 40 17.51 3.3

FHC 2.15 227 eP 40 14.65 0.3  
 GMD 2.26 17 P 40 17.76 1.7  
 BPO 2.37 4 P 40 18.36 0.7  
 KKPM 2.39 207 P 40 21.40 3.5  
 VIPM 2.41 22 P 40 18.61 0.4  
 KMPM 2.50 223 eP 40 19.37 0.0  
 MPOR 2.52 332 P 40 20.43 0.7  
 OGOM 2.64 175 P 40 24.13 2.9  
 OBHM 2.65 173 P 40 24.62 3.1  
 KBSM 2.69 209 P 40 24.44 2.4  
 ORV 2.74 173 eP 40 23.94 1.2

CROR 2.78 14 P 40 23.35 0.0  
 VBEM 2.79 5 P 40 27.75 4.2  
 GT2 2.88 355 P 40 27.08 2.3  
 OSUM 3.01 179 P 40 27.23 0.8  
 VFP 3.05 6 P 40 28.32 1.1  
 VTHM 3.06 18 P 40 28.82 1.6  
 VLL 3.18 3 P 40 30.37 1.3  
 VLMM 3.26 358 P 40 33.33 3.2  
 VGB 3.33 14 ePn 40 31.89 0.7  
 KMOR 3.54 342 P 40 35.60 1.5  
 MTMW 3.75 357 P 40 38.42 1.3  
 ASR 3.87 3 P 40 41.72 2.8  
 SHW 3.92 357 ePn 40 40.80 1.3  
 GLK 4.29 3 P 40 47.23 2.5

BMW 4.30 348 ePn 40 46.52 1.7  
 LMW 4.39 357 P 40 48.31 2.1  
 CMB 4.40 164 (Pn) 40 48.36 2.0  
 WFW 4.42 3 P 40 48.42 1.8  
 RSW 4.43 21 P 40 48.49 1.7  
 LON 4.47 1 ePn 40 48.67 1.4  
 WIW 4.55 23 P 40 49.35 1.0  
 GBL 4.66 21 P 40 51.59 1.7  
 RVC 4.66 359 P 40 51.45 1.4  
 LOCW 4.77 21 P 40 53.24 1.7  
 WAH2 4.78 20 P 40 53.14 1.5  
 ARN 4.94 177 eP 40 54.85 0.9  
 BONR 5.13 146 ePn 40 58.09 1.2  
 MEMM 5.14 153 (P) 41 00.26 3.5  
 GMW 5.30 354 (Pn) 41 00.81 1.8  
 HVU 6.82 91 ePg 41 40.10 19.5

MCMT 7.05 66 eP 41 24.80 0.8  
 PTI 7.06 82 ePg 41 46.55 22.5  
 LRM 7.67 59 eP 41 32.50 -0.2  
 ARUT 7.89 122 ePn 41 36.77 1.1  
 DAU 8.23 100 (Pn) 41 42.70 2.2  
 MSU 8.32 114 ePn 41 41.79 0.0  
 YKA 20.70 10 P 44 20.90 0.3

0.8s 0.80nm 3.1mb  
 77 obs. associated

? JAN 07, 1994 09h 53m 55.57± 1.06s  
 39.156 N ± 8.6km 27.506 E ± 17.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

IZM 0.78 194 ePg 54 10.80 0.0  
 eSg 54 22.50  
 DST 0.98 62 ePn 54 14.20 0.0  
 EDC 1.22 13 ePn 54 18.50 0.2  
 BNT 1.24 15 ePn 54 18.40 -0.2  
 S.D. = 0.3 on 4 of 4 obs.

? JAN 07, 1994 10h 10m 07.54± 1.06s  
 39.162 N ± 8.8km 27.543 E ± 16.9km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

IZM 0.79 196 ePg 10 23.00 0.0  
 eSg 10 34.00  
 DST 0.95 62 ePn 10 25.70 0.0

EDC 1.21 12 ePn 10 30.50 0.5  
 BNT 1.23 14 ePn 10 29.90 -0.5  
 S.D. = 0.7 on 4 of 4 obs.

& JAN 07, 1994 10h 19m 58.78s  
 62.048 N 150.206 W  
 DEPTH = 47.0km  
 2.6mb (1 obs.)  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.7 (AEIC).

CUT 0.36 355 eP 20 07.76 -0.5  
 PWA 0.43 159 P 20 09.00 0.0  
 SKT 0.63 264 eP 20 10.74 -0.8  
 SUA 0.64 204 iP 20 11.74 -0.1  
 eS 20 22.03  
 GHO 0.67 114 eP 20 11.73 -0.4  
 PLRM 0.69 131 eP 20 11.66 -0.6  
 PMR 0.69 131 eP 20 11.42 -0.9  
 eS 20 21.84

SML 0.92 104 eP 20 14.71 -0.8  
 HUR 0.97 16 eP 20 15.31 -0.9  
 eS 20 28.96

KNK 1.05 127 eP 20 16.75 -0.6  
 NCG 1.13 236 eP 20 17.49 -1.1  
 CGLM 1.14 230 eP 20 17.72 -0.9

CRP 1.22 231 eP 20 18.47 -1.4  
 SPU 1.24 226 eP 20 19.21 -0.8  
 CP2 1.25 232 eP 20 19.46 -0.9  
 CKN 1.25 230 eP 20 20.41 0.2

CKT 1.28 229 eP 20 20.09 -0.5  
 BGL 1.31 234 eP 20 20.83 -0.2  
 CKL 1.33 231 eP 20 20.85 -0.5  
 SCM 1.38 98 iP 20 21.40 -0.6

BKG 1.39 226 eP 20 21.43 -0.8  
 NKA 1.40 201 eP 20 24.24 2.0  
 CFI 1.45 126 eP 20 22.61 -0.3  
 PWL 1.49 142 eP 20 22.94 -0.7

RND 1.50 24 eP 20 22.56 -1.2  
 KTH 1.55 348 eP 20 23.59 -0.8  
 SLKM 1.55 180 eP 20 23.72 -0.6

MPA 1.62 165 eP 20 24.90 -0.4  
 DHY 1.67 51 eP 20 24.89 -1.3  
 MCK 1.79 18 eP 20 26.80 -1.0

DFR 1.89 220 eP 20 28.75 -0.5  
 TOA 1.90 87 P 20 29.10 -0.3  
 REF 1.97 219 eP 20 30.61 0.1

SEW 1.99 169 eP 20 30.45 0.0  
 RDW 2.01 220 eP 20 31.34 0.3  
 RSO 2.01 219 eP 20 31.51 0.4

RED 2.05 218 eP 20 31.72 0.2  
 VLZ 2.07 115 eP 20 30.18 -1.5  
 KLU 2.11 103 eP 20 30.93 -1.5

FID 2.22 124 eP 20 32.00 -1.8  
 TZL 2.25 88 eP 20 34.43 0.1  
 PAX 2.38 65 eP 20 35.53 -0.7

ILM 2.39 215 eP 20 36.35 0.1  
 INE 2.43 216 eP 20 35.91 -1.1  
 HIN 2.44 131 eP 20 35.45 -1.6

HOM 2.50 197 eP 20 40.18 2.4  
 CNPM 2.58 192 eP 20 38.87 -0.2  
 NEA 2.59 11 eP 20 37.52 -1.7

WRH 2.61 21 eP 20 37.67 -1.9  
 CVA 2.63 123 eP 20 39.24 -0.4  
 DDM 2.64 47 eP 20 40.81 0.8

SVW 2.76 252 eP 20 39.42 -2.2  
 HDA 2.79 30 eP 20 40.17 -1.8  
 OPT 2.82 213 eP 20 43.26 0.7

CCB 2.82 21 eP 20 40.20 -2.3  
 TTA 2.84 291 eP 20 40.47 -2.3  
 DJE 2.86 44 eP 20 44.23 1.2

PDB 2.99 222 eP 20 43.10 -1.7  
 MLY 3.00 356 eP 20 43.05 -2.0  
 MDM 3.05 16 eP 20 43.71 -2.0

FBA 3.06 20 eP 20 43.52 -2.3  
 GLB 3.10 98 eP 20 44.36 -2.1  
 IL1 3.12 27 eP 20 44.51 -2.1

ILB 3.11 27 eP 20 44.53 -2.1  
 RAGM 3.15 119 eP 20 47.66 0.5  
 GLM 3.21 22 eP 20 46.05 -1.9

DOT 3.24 58 eP 20 49.62 1.2  
 HMT 3.35 118 eP 20 50.70 0.8  
 MCNL 3.52 217 eP 20 52.39 0.1

CDD 3.56 210 eP 20 52.87 -0.1  
 TGL 3.78 107 eP 20 53.73 -2.4  
 BALM 3.90 102 eP 20 54.90 -2.9  
 BC3 4.03 72 eP 20 57.00 -2.6

IM3 4.25 340 eP 21 00.01 -2.6  
 IMA 4.31 341 eP 21 00.81 -2.9  
 BM3 5.90 22 eP 21 22.83 -3.1  
 YKA 16.45 73 P 23 43.50 -3.9  
 0.6s 0.30nm 2.6mb  
 77 obs. associated

? JAN 07, 1994 10h 46m 22.14± 1.01s  
 39.120 N ± 8.8km 27.563 E ± 16.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

IZM 0.76 198 ePg 46 37.00 0.0  
 eSg 46 48.00  
 DST 0.96 59 iPn 46 40.40 0.0  
 EDC 1.25 11 ePn 46 45.50 0.2  
 BNT 1.26 12 ePn 46 45.40 -0.2

S.D. = 0.3 on 4 of 4 obs.

JAN 07, 1994 10h 50m 36.53± 0.58s  
 2.994 S ± 4.9km 136.422 E ± 14.4km  
 DEPTH = 33.0km (normal)  
 5.1mb (10 obs.)

IRIAN JAYA REGION, INDONESIA (196)

MTN 11.10 208 eP 53 16.00 -0.1  
 0.3s 212.00nm 6.9mb X  
 eS 55 13.00

PMG 12.43 121 eP 53 42.00 8.0X  
 KNA 14.75 210 eP 54 05.00 0.4  
 eS 56 40.20

WB2 16.97 187 iPd 54 31.20 -1.9  
 eS 57 32.10  
 QIS 17.73 170 eP 54 42.30 -0.4  
 e 54 46.70

ASPA 20.70 187 iPd 55 17.90 1.3  
 0.4s 36.90nm 5.1mb  
 Z 20s 0.80um 4.1Msz

MBL 24.22 221 eP 55 52.50 1.0  
 0.4s 3.00nm 4.2mb  
 SSE 36.88 338 P 57 42.50 -1.4

TIY 46.21 333 eP 59 01.00 0.6  
 CN2 47.62 349 eP 59 10.80 -0.5  
 0.6s 5.70nm 4.8mb

MDJ 47.79 353 eP 59 13.20 0.6  
 HHC 49.19 335 P 59 23.80 0.2  
 1.0s 11.00nm 4.8mb

GTA 53.97 325 P 00 00.00 0.3  
 1.2s 5.00nm 4.4mb  
 GUN 57.49 306 P 00 25.20 -0.4

PKI 57.73 305 P 00 26.50 -0.8  
 0.8s 23.00nm 5.3mb  
 KKN 57.92 305 P 00 28.20 -0.3

0.9s 38.00nm 5.5mb  
 DMN 58.00 305 P 00 28.80 -0.2  
 GKN 58.53 305 P 00 32.70 0.0

WMQ 63.83 323 Pd 01 08.00 -0.1  
 0.9s 37.00nm 5.5mb  
 pP 01 16.40 27kmX

POO 65.16 292 iP 01 17.90 0.8  
 1.0s 15.00nm 5.0mb  
 YKA 101.34 27 Pd 04 26.40 0.9

0.7s 0.30nm 4.0mb X  
 LPB 148.96 129 ePKP 10 28.00 7.9X  
 LPAZ 149.08 129 iPKPc 10 27.50 7.0X

S.D. = 0.8 on 20 of 23 obs.

? JAN 07, 1994 11h 02m 58.39± 1.04s  
 39.199 N ± 8.5km 27.556 E ± 16.1km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

IZM 0.83 196 ePg 03 14.50 0.0  
 eSg 03 27.00  
 DST 0.92 64 ePn 03 16.10 0.0

EDC 1.17 12 ePn 03 20.50 0.3  
 BNT 1.19 14 ePn 03 20.30 -0.3  
 S.D. = 0.4 on 4 of 4 obs.

JAN 07, 1994 11h 05m 22.51± 0.15s  
 4.842 N ± 3.4km 96.402 E ± 2.9km  
 DEPTH = 173.1km (4 depth phases)



5.4mb (119 obs.)						E 13s 0.30um						BWA 62.63 133 iPd 15 31.80 1.0								
NORTHERN SUMATERA, INDONESIA (706)						MEEK 37.97 147 eP 12 25.00 -0.2						GAZ 62.73 309 eP 15 31.50 0.1								
						1.0s 43.00nm 5.1mb						SOC 62.91 317 eP 15 30.00 -2.5								
IPM	4.62	93	ePd	06 30.00	-2.0	HHC	38.35	19	Pc	12 29.40	1.1				1.0s	200.00nm	6.0mb			
			e	07 20.90																
			eS	07 56.00		KSH	39.10	335	P	12 35.00	0.4									
SNG	4.79	61	iPc	06 33.60	-0.7		1.0s	190.00nm												
	0.9s	285.71nm				BJI	39.32	24	Pc	12 38.00	1.8				1.0s	9.00nm	4.6mb			
KGM	7.45	112	iPd	07 07.20	-2.4		1.0s	200.00nm												
	0.8s	531.40nm			6.0mb				pP	13 15.00	170km									
NNT	8.37	23	iPc	07 12.60	-9.1X	WMQ	39.57	350	P	12 37.50	-0.8				KVT	64.69	313	iP	15 43.00	-1.2
PCT	10.95	26	iPc	07 56.60	1.1		1.0s	46.00nm							FAM	64.73	306	eP	15 43.50	-0.9
	1.3s	6.50nm			4.0mb X				PcP	14 43.00					CSS	65.26	306	eP	15 47.00	-0.9
NST	11.37	19	eP	08 01.50	0.5	DL2	40.91	31	iPc	12 51.00	1.8				PPCY	66.04	306	eP	15 52.00	-0.8
BDT	12.59	11	eP	08 16.80	0.1		0.8s	400.00nm			6.1mb				KAS	66.43	313	iPc	15 54.60	-0.7
	1.1s	166.40nm			5.4mb	MUN	41.19	154	eP	12 52.00	0.4				ELL	68.34	308	eP	16 14.50	7.1X
LOE	13.53	22	eP	08 29.00	0.2	KAGJ	41.66	47	P	12 55.10	-0.4				KSL	68.48	307	eP	16 06.00	-2.1
CHTO	14.11	10	ePd	08 37.00	1.0	KUMJ	42.34	45	P	13 01.10	0.1				ALT	68.62	310	iP	16 07.50	-1.5
			eS	11 14.40		FRU	42.48	336	iPc	13 02.80	0.7				EYL	68.89	312	iP	16 09.40	-1.3
LEM	16.11	136	ePd	08 59.00	-2.0		1.8s	100.00nm			5.1mb				OBN	69.10	328	iP	16 10.10	-1.4
QIZ	19.26	42	iPc	09 36.00	-0.1	WARB	42.54	138	eP	13 02.50	-0.3					1.1s	70.00nm		5.4mb	
	0.7s	70.00nm			5.2mb	COOL	42.67	148	iPd	13 03.90	0.1					e	16 35.00		97kmX	
KOD	19.51	287	eP	09 41.50	2.4		0.8s	43.00nm			5.1mb					e	25 02.00			
KKM	19.76	86	ePc	09 43.50	2.2	SHNJ	43.42	43	P	13 10.30	0.6				IZI	69.36	311	iP	16 12.80	-0.7
GBA	20.63	296	P	09 52.00	2.0	SNY	44.09	29	iPc	13 15.00	0.0				DST	69.85	310	iP	16 15.10	-1.4
			S	13 31.00			0.8s	160.00nm			5.7mb				CIN	69.92	308	eP	16 16.00	-0.8
KMI	21.06	16	Pc	09 56.00	1.5	WRA	44.69	125	P	13 19.79	-0.3				BNT	70.53	311	eP	16 19.30	-1.2
	1.2s	200.00nm			5.5mb		0.6s	27.30nm			5.0mb				EDC	70.57	311	eP	16 19.50	-1.2
HYB	21.48	307	iPc	10 00.00	1.5	WB2	44.70	125	iPc	13 19.60	-0.6				IZM	70.69	309	eP	16 21.00	-0.6
	1.0s	165.00nm			5.5mb		0.4s	18.60nm			5.0mb				CFR	71.31	316	ePc	16 24.50	-0.6
		i	10 44.50						iPp	13 52.50	146kmX				PRK	71.59	310	eP	16 24.50	-2.4
		eS	13 49.00						iPcP	15 00.20					CSY	71.69	174	iPd	16 28.20	1.3
GYA	23.63	23	iPc	10 20.00	0.7				eScP	18 37.80						0.8s	16.50nm		4.8mb	
	1.0s	190.00nm			5.6mb				eS	19 39.90					ALN	72.02	311	i(P)c	16 28.50	-0.9
Z	20s	0.49um			4.0MsZ	TKSJ	45.39	45	P	13 26.10	0.6				ISR	72.42	316	eP	16 33.00	1.3
N	14s	0.56um				YONJ	45.62	44	P	13 27.50	0.2				VRI	72.43	317	iPc	16 32.30	0.6
E	14s	0.49um				ZAK	45.75	6	iPc	13 27.70	-0.3				VAM	72.71	305	iPc	16 33.90	0.4
		S	14 22.00				1.5s	87.00nm			5.1mb				MLR	72.90	316	iPc	16 34.90	0.3
PKI	24.91	336	Pc	10 30.90	-0.7				e	15 03.20	509kmX				PVL	72.93	314	iP	16 35.00	0.4
GUN	25.03	338	Pc	10 32.30	-0.4	MAIO	46.13	318	eP	13 30.00	-1.4				RZN	73.14	312	iPc	16 36.00	-0.1
DMN	25.07	336	Pc	10 32.30	-0.6	ASPA	46.26	129	iPd	13 32.30	-0.2				OUR	73.49	311	i(P)c	16 37.50	-0.4
	0.8s	70.00nm			5.3mb		0.5s	94.20nm			5.6mb				PAIG	73.67	310	i(P)c	16 38.32	-0.7
KKN	25.16	336	Pc	10 33.10	-0.6				eScP	18 44.90					VLI	73.87	307	iPc	16 37.10	-3.1X
LSA	25.22	349	iPc	10 34.40	-0.1				eS	20 04.00					SRS	73.89	311	i(P)c	16 39.21	-1.1
	1.0s	170.00nm			5.6mb				iScS	23 09.50					SOH	74.03	311	i(P)c	16 40.00	-1.2
		pP	11 05.00	149kmX		CN2	46.48	29	iPc	13 33.80	-0.1				THE	74.30	311	i(P)c	16 41.12	-1.5
		PP	11 24.00				0.6s	120.00nm			5.6mb				KKB	74.37	312	iPc	16 42.00	-1.1
GKN	25.61	335	Pc	10 37.30	-0.5	FORT	46.58	142	iPd	13 36.10	1.2				VTS	74.38	313	iP	16 43.00	-0.3
POO	25.89	304	iPc	10 43.30	3.0X		0.7s	99.00nm			5.5mb				KNT	74.42	311	i(P)c	16 42.33	-1.0
	1.0s	40.00nm			5.0mb	WKYJ	46.61	46	P	13 35.70	0.5				LIT	74.60	310	i(P)c	16 42.98	-1.4
CD2	26.84	14	eP	10 48.00	-0.8	TSRJ	47.55	45	P	13 42.70	0.3				AGG	74.60	309	i(P)c	16 42.57	-1.9
	0.8s	230.00nm			5.9mb	IRK	47.73	7	eP	13 42.80	-0.7				VAY	74.68	311	iP	16 43.70	-1.1
BOM	26.92	303	iPd	10 56.30	6.7X		1.4s	57.00nm			5.0mb					1.0s	110.00nm		5.5mb	
		eS	15 21.30						e	14 07.50	104kmX				GRG	74.77	311	i(P)c	16 44.16	-1.2
NDI	29.89	325	iPc	11 14.50	-1.6					15 42.00					KZN	75.17	310	eP	16 45.00	-2.7
WHN	30.65	31	Pc	11 23.00	0.3	IIDJ	48.89	46	P	13 52.50	-0.3				FNA	75.52	311	i(P)c	16 47.84	-1.8
	1.2s	130.00nm			5.5mb	CIT	49.12	14	eP	13 55.00	0.7				SKO	75.60	312	iP	16 48.50	-1.5
XAN	31.29	20	iPc	11 27.00	-1.3	MDJ	49.14	31	Pc	13 54.90	0.5				VLS	75.87	308	eP	16 48.50	-3.1X
	1.0s	140.00nm			5.6mb		1.1s	79.00nm			5.2mb				UZH	75.89	319	iPc	16 52.00	0.5
LZH	31.84	11	iPc	11 32.50	-0.7	QIS	49.35	122	eP	13 56.20	-0.3					1.5s	185.00nm		5.6mb	
	1.4s	200.00nm			5.7mb	MTMJ	49.36	45	P	13 55.60	-0.8					e	17 02.00		32kmX	
		pP	12 09.00	174km		MAT	49.62	45	eP	13 58.00	-0.3				OHR	75.99	311	iP	16 50.70	-1.6
		ePP	12 46.00				1.0s	23.00nm			4.8mb					0.7s	110.00nm		5.7mb	
		PcP	14 20.50			CHJJ	49.94	46	P	14 00.00	-0.7				IGT	76.19	309	i(P)c	16 52.40	-1.0
		ScP	17 48.00			YAMJ	51.68	44	eP	14 14.20	0.3				KAF	76.50	333	iP	16 53.90	-0.7
NJ2	34.28	35	Pc	11 54.60	0.6	OFUJ	53.24	44	P	14 24.60	-0.7					0.6s	13.80nm		4.9mb	
	1.0s	120.00nm			5.5mb	BOD	54.67	12	iPc	14 32.70	-2.8				NUR	76.86	331	eP	16 56.00	-0.6
GTA	34.55	5	iPc	11 56.00	-0.5		1.1s	101.00nm			5.5mb				PSZ	77.38	318	ePc	16 59.90	0.0
	2.5s	270.00nm			5.5mb				CTA	54.88	119	P	14 37.70	0.1	BCAO	77.57	273	iPc	17 02.70	1.2
		pP	12 32.00	170km		ADE	56.12	138	eP	14 46.10	-0.2					0.2s	24.00nm		5.6mb	
		ScP	17 57.50			STK	56.40	134	iPd	14 47.70	-0.6				SDF	77.94	338	iP	17 02.30	-0.2
		PcS	18 13.00				0.7s	24.40nm			5.1mb				SRO	78.43	318	iPc	17 06.10	0.6
MBL	34.58	139	iPd	11 55.40	-1.4	YSS	57.85	36	eP	14 57.00	-1.2				OKC	78.74	320	Pc	17 08.10	0.9
SSE	35.00	39	Pd	12 00.80	0.6		1.1s	80.00nm			5.5mb					e	17 22.60		51kmX	
	1.0s	49.00nm			5.1mb				e	17 04.00	691kmX				GRI	79.18	308	P	17 11.13	1.3
	Z	16s	0.40um		4.3MsZ	MTA	58.73	317	iPc	15 03.60	-0.8					1.0s	131.10nm		5.6mb	
		pP	12 38.50	178km			1.0s	270.00nm			6.0mb				ZST	79.27	318	iPc	17 10.10	0.0
TIY	35.84	22	Pc	12 07.00	-0.3	GRO	58.83	319	iPc	15 04.00	-1.0					79.43	308	P	17 12.43	1.3
	0.7s	31.00nm			5.1mb		1.0s	220.00nm			6.0mb					0.9s	26.30nm		5.0mb	
		S	17 28.50			ARU	59.51	337	iPc	15 08.00	-1.5				VKA	79.80	318	iPc	17 13.50	0.6
TIA	36.58	29	Pc	12 13.90	0.5		1.3s	70.00nm			5.3mb					1.0s	149.00nm		5.7mb	
	0.7s	110.00nm			5.7mb				i	15 55.50	207kmX				ZAG	79.87	316	iPc	17 13.70	0.4
		ScP	18 04.40			PYA	60.85	319	iPc	15 17.00	-1.8</									



07d 11h

LJU	80.89	316	iPc	17	19.20	0.5	HAU	86.47	318	iPc	17	47.00	0.1	PPM	152.01	32	(PKP)	25	01.00	7.8X
PRU	81.08	320	iPc	17	20.00	0.5		0.7s	41.55nm				5.4mb	STV	155.26	242	PKP	24	58.30	1.3
	0.9s	40.60nm				5.2mb	WLF	86.51	319	Pc	17	47.00	0.1	LPB	160.87	231	PKP	25	05.10	1.0
	e		17	29.40	30kmX		FRF	86.52	313	iPc	17	48.00	0.8	LPZ	161.03	232	iPKPc	25	06.50	2.0
TRI	81.41	315	ePc	17	21.30	-0.1		1.0s	93.60nm				5.6mb				i	25	50.90	
BRG	81.50	321	iPd	17	22.00	0.3	MEM	86.55	320	iPc	17	47.82	0.7		S.D. = 1.0 on 250 of 262 obs.					
	1.1s	62.00nm				5.3mb		1.1s	15.80nm				4.8mb		JAN 07, 1994 11h 43m 21.06± 0.85s					
GEC2	81.57	319	P	17	22.80	0.5	ENN	86.59	320	eP	17	48.00	0.7		39.594 N ± 7.4km 29.413 E ± 7.4km					
	0.7s	24.01nm				5.0mb		1.0s	25.00nm				5.0mb		DEPTH = 10.0km (geophysicist)					
	e		17	23.80	3kmX		LMR	86.64	313	iPc	17	48.30	0.6		TURKEY (366)					
AQU	81.59	312	P	17	23.39	1.0		1.0s	47.60nm				5.3mb		ML 2.7 (ISK).					
	0.7s	115.50nm				5.7mb	LRG	86.74	313	iPc	17	49.00	0.8		DST 0.61 271 ePg 43 33.10 -0.2					
KHC	81.66	319	Pc	17	23.10	0.4		1.0s	121.20nm				5.7mb		IZI 0.74 3 iPg 43 34.80 -0.9					
	1.0s	17.50nm				4.7mb	DOU	87.48	320	Pc	17	52.80	1.2		iSg 43 45.80					
	e		17	44.40	79kmX		SNF	87.65	320	iPc	17	53.14	0.8		ePg 43 35.90 -0.1					
KBA	81.75	317	iPc	17	23.00	-0.3	LBF	88.15	317	iPc	17	55.40	0.4		eSg 43 48.90					
	0.9s	28.00nm				5.0mb		0.8s	30.20nm				5.3mb		EYL 1.13 30 ePn 43 43.00 0.8					
	i		17	26.90	12kmX		LOR	88.21	317	iPc	17	55.60	0.4		HRT 1.24 9 ePn 43 44.00 -0.2					
BHG	82.08	317	iPc	17	24.90	0.0		1.0s	49.60nm				5.4mb		EDC 1.41 303 ePn 43 47.40 0.7					
	0.8s	73.00nm				5.5mb	SMF	88.28	316	iPc	17	55.90	0.4		S.D. = 0.8 on 6 of 6 obs.					
CLL	82.12	321	iPc	17	25.10	0.2		0.8s	41.90nm				5.4mb		JAN 07, 1994 12h 57m 15.50± 1.56s					
	1.5s	71.00nm				5.2mb	SSF	88.47	317	iPc	17	57.00	0.6		32.967 S ± 11.8km 71.407 W ± 13.4km					
FVI	82.12	316	P	17	25.37	0.4		0.8s	14.90nm				5.0mb		DEPTH = 50.0km (geophysicist)					
	0.8s	44.40nm				5.3mb	AVF	88.60	317	iPc	17	57.50	0.5		NEAR COAST OF CENTRAL CHILE (135)					
WET	82.12	319	iPc	17	25.60	0.6		1.3s	70.40nm				5.5mb		MD 3.5 (SAN).					
	1.0s	73.00nm				5.4mb	BGF	88.97	316	iPc	17	59.80	1.0		ROCH 0.33 91 iP+ 57 25.55 0.3					
HFS	82.19	330	eP	17	24.70	-0.4		1.3s	107.20nm				5.7mb		iS 57 32.73					
	0.4s	6.90nm				4.8mb	HYF	89.03	317	eP	18	00.10	1.0		LCCH 0.52 195 iP+ 57 27.26 0.1					
VVI	82.36	316	P	17	26.97	0.6	MAF	89.19	316	iPc	18	00.80	0.9		iS 57 36.50					
	1.1s	51.90nm				5.2mb		0.8s	25.80nm				5.3mb		iS 57 37.50					
SFI	82.74	314	P	17	30.03	1.8	TCF	89.43	316	iPc	18	02.10	1.1		JACH 0.74 68 iP+ 57 29.88 -0.1					
	1.1s	230.00nm				5.9mb		1.2s	33.90nm				5.2mb		iS 57 40.48					
HOF	82.80	320	iPc	17	29.10	0.6	CAF	89.69	315	iPc	18	03.40	1.2		TACH 0.79 150 iPd 57 30.33 -0.2					
PGD	82.84	313	P	17	30.59	1.6		0.9s	33.60nm				5.3mb		iS 57 41.51					
	1.1s	110.60nm				5.5mb	LSF	89.91	316	iPc	18	03.90	0.7		LNV 0.99 180 iP 57 32.74 -0.5					
CTI	82.90	316	P	17	30.10	0.9		1.0s	46.20nm				5.4mb		PCH 0.99 131 iPd 57 33.22 -0.2					
	0.9s	124.40nm				5.7mb	RJF	90.03	315	iPc	18	05.20	1.4		iS 57 46.14					
WTTA	82.92	317	iPc	17	29.10	-0.3		0.9s	28.15nm				5.3mb		FCH 1.00 111 iP+ 57 33.58 -0.2					
	0.8s	41.20nm				5.3mb	LPO	90.34	315	iPc	18	06.60	1.4		iS 57 46.74					
	i		17	33.00	12kmX			0.8s	56.15nm				5.6mb		CACH 1.33 150 iP 57 38.92 0.8					
WATA	82.96	317	iPc	17	29.00	-0.5	LFF	90.62	315	iPc	18	08.00	1.6		iS 57 56.89					
MOX	82.97	320	iPc	17	30.00	0.6		1.1s	86.70nm				5.7mb		S.D. = 0.4 on 9 of 9 obs.					
	1.4s	44.00nm				5.0mb	LDF	90.71	319	iPc	18	07.70	0.9		JAN 07, 1994 12h 57m 22.99± 0.84s					
FUR	83.17	318	iPc	17	30.70	0.3		0.8s	54.55nm				5.7mb		40.233 N ± 5.5km 19.747 E ± 7.7km					
	0.9s	53.00nm				5.3mb	BRW	90.79	18	iP	18	07.34	0.6		DEPTH = 10.0km (geophysicist)					
SQTA	83.21	317	iPc	17	30.50	-0.3	DAG	90.92	348	iPd	18	06.20	-1.1		ALBANIA (391)					
	0.6s	32.70nm				5.3mb		0.7s	11.64nm				5.1mb		ML 2.9 (THE).					
GRF	83.22	319	iPc	17	31.80	1.2	FLN	90.93	319	iPc	18	08.70	0.9		VLO 0.30 321 iPg 57 29.50 0.2					
	1.1s	80.00nm				5.4mb		1.0s	82.80nm				5.8mb		SRN 0.40 151 iPg 57 30.30 -0.9					
MOTA	83.28	317	iPc	17	30.80	-0.4									iSg 57 36.80					
OGA	83.33	316	iPc	17	31.60	0.1	MFF	91.01	317	iPc	18	09.20	1.0		IGT 0.83 147 ePg 57 38.76 -0.3					
	0.7s	31.00nm				5.2mb		1.0s	95.20nm				5.8mb		eSg 57 51.32					
SAL	83.68	315	P	17	34.84	1.8	GRR	91.23	319	iPc	18	10.40	1.2		KBN 0.88 64 ePg 57 39.00 -1.0					
	0.9s	368.40nm				6.2mb		1.0s	53.80nm				5.6mb		TIR 1.12 5 ePn 57 44.60 0.7					
MDI	84.25	315	P	17	36.02	0.2	LPF	91.40	318	iPc	18	11.20	1.2		iSn 58 23.60					
	1.5s	88.00nm				5.3mb		0.9s	53.25nm				5.6mb		OHR 1.19 42 iPn 57 44.20 -1.0					
MUD	84.47	326	iPd	17	36.70	0.0	EKA	91.48	326	Pd	18	12.00	1.8		0.5s 110.00nm					
	0.7s	32.00nm				5.2mb		0.7s	8.30nm				4.9mb		i 58 00.20					
VAI	84.91	315	P	17	39.11	0.0	IMA	93.55	23	iP	18	20.16	0.4		i 58 02.50					
	1.0s	85.70nm				5.5mb		0.7s	6.26nm				4.9mb		Lg 58 05.00					
PCP	85.11	314	P	17	40.21	-0.1	YKA	108.80	15	Pdiff	19	28.30	0.4		FNA 1.36 66 iPbd 57 47.14 -0.9					
FIN	85.36	314	P	17	41.76	0.2		0.8s	0.40nm				4.7mb		eSb 58 07.20					
ORX	85.47	315	P	17	41.03	-1.1	YKA	108.80	15	PKP	23	49.20	17.0X		LACI 1.40 359 ePn 57 48.40 -0.1					
								1.0s	1.50nm						LIT 2.11 93 ePn 58 00.28 1.5					
ROB	85.60	314	P	17	42.63	-0.1	LRM	123.39	24	ePKP	24	01.20	0.3		eSn 58 27.72					
IMI	85.60	314	P	17	42.91	0.1	CMB	125.36	35	ePKP	24	05.06	0.3		GRG 2.15 69 ePn 58 00.32 1.0					
CDF	85.83	318	iPc	17	43.70	-0.1	PTI	125.82	26	ePKP	24	06.10	0.4		eSn 58 28.00					
	1.1s	27.35nm				5.0mb	HVU	126.52	27	ePKP	24	07.84	0.8		SKO 2.16 36 ePn 57 58.50 -1.0					
ENR	85.93	314	P	17	43.68	-0.7	BW06	127.08	24	ePKP	24	07.61	-0.6		i 58 30.50					
SBF	85.93	314	iPc	17	44.90	0.5	DUG	127.76	28	ePKP	24	10.27	0.8		AGG 2.33 120 ePn 58 02.72 0.7					
	0.8s	91.60nm				5.7mb	RSSD	127.90	19	ePKP	24	09.35	-0.3		VAY 2.40 62 ePn 58 07.00 4.0X					
WTS	85.97	322	ePc	17	45.00	0.8	EMUT	128.98	27	ePKP	24	12.76	0.9		SOH 2.81 77 ePn 58 10.08 1.2					
	0.9s	77.40nm				5.5mb	MSU	129.38	29	ePKP	24	13.70	1.0		PAIG 3.03 95 ePn 58 11.76 -0.1					
							SRU	129.68	27	ePKP	24	13.34	0.2		S.D. = 1.0 on 14 of 15 obs.					
STV	86.00	314	P	17	44.55	-0.2									JAN 07, 1994 13h 27m 55.08± 0.82s					
RSP	86.00	315	P	17	43.96	-0.8	PV08	130.96	26	ePKP	24	16.91	1.1		42.543 N ± 8.3km 24.122 E ± 10.2km					
BHB	86.01	315	P	17	43.23	-1.5	TUC	134.91	33	ePKP	24	25.30	2.1X		DEPTH = 10.0km (geophysicist)					
WIT	86.02	323	eP	17	47.00	2.5	TUL	137.88	15	iPKPd	24	23.70	-4.9X							
LSD	86.06	315	P	17	45.65	0.5	MIAR	139.71	13	ePKP	24	32.35	0.4							
PZZ	86.14	314	P	17	43.50	-2.0	OXF	140.48	8	ePKP	24	31.47	-1.8							
BSF	86.19	318	iPc	17	45.40	-0.2	LTX	140.93	28	ePKP	24	34.40	0.0							
	0.8s	12.35nm				4.8mb	JSC	141.03	357	ePKP	24	34.07	-0.2							
LPG	86.34	315	iPc	17	47.20	0.6	PRM	141.27	358	ePKP	24	32.44	-2.3X							
	0.9s	92.70nm				5.6mb	BAO	143.42	250	ePKP	24	37.50	-1.6							
RRL	86.35	315	P	17	46.52	-0.1		i				24	40.20							
LPL	86.35	315	iPc	17	47.20	0.6		i				24	44.70							
	0.9s	112.35nm				5.7mb	BDFB	143.44	250	ePKP	24	37.59	-1.5							
BNI	86.42	315	P	17</																



BULGARIA (359)					SOUTHERN ITALY (390)				
ML 3.2 (THE).					ML 4.1 (TTG), 4.0 (THE), 4.0 (TIR).				
SRS	1.48	196	ePb	28 21.26 -0.5	LCI	0.48	67	P	30 23.48 1.5
			eSb	28 43.28	ORI	0.71	263	P	30 24.46 -1.3
KNT	1.66	214	ePb	28 23.64 -0.7	BRT	0.74	350	P	30 23.67 -2.6
			iSb	28 47.24	MGR	1.39	270	P	30 35.31 -0.9
VAY	1.68	224	iPn	28 24.30 -0.4	GRI	1.52	209	P	30 39.63 1.6
SOH	1.81	199	ePb	28 26.48 -0.2	SGO	1.63	285	P	30 39.06 -0.5
			eSb	28 51.60	VLO	1.66	78	iPn	30 44.30 4.3X
GRG	2.04	220	iPn	28 31.36 1.4				iSn	31 05.80
			eSn	28 58.00	SRN	2.04	97	iPnd	30 51.30 5.7X
SKO	2.07	255	e(Pn)	28 33.00 2.7X				iSn	31 17.30
THE	2.10	205	iPn	28 31.28 0.6	TIR	2.24	57	ePn	30 47.80 -0.7
			iSn	28 59.76				iSn	31 27.50
ALN	2.19	138	ePn	28 32.48 0.5	ULC	2.30	37	iPnd	30 50.24 0.9
			eSn	29 02.48				iSn	31 22.75
OUR	2.21	183	ePn	28 32.12 -0.2	SOI	2.31	207	P	30 50.16 0.7
			eSn	29 02.64	LACI	2.31	49	ePn	30 52.50 3.0X
PAIG	2.63	187	iPn	28 37.80 -0.6				iSn	31 35.00
			eSn	29 14.44	IGT	2.36	104	iPn	30 51.29 1.1
VRI	3.82	28	eP	28 55.00 -0.1				eSn	31 20.14
S.D. = 0.7 on 10 of 11 obs.					BDV	2.40	27	iPnc	30 51.84 1.1
& JAN 07, 1994 13h 33m 22.53s								iSn	31 25.28
32.326 N 115.220 W					HCY	2.45	20	iPnc	30 52.48 1.1
DEPTH = 6.0km (geophysicist)								iSn	31 26.53
CALIF.-BAJA CALIF. BORDER REGION( 45)					SDA	2.49	40	iPnd	30 58.80 6.8X
<PAS-P>. ML 2.8 (PAS).					KBN	2.65	79	iPnd	30 51.30 -3.1X
GLA	0.80	25	eP	33 36.14 -2.3				iSn	31 26.50
PLM	1.72	307	eP	33 50.34 -3.0	TTG	2.69	31	iPnd	30 55.53 0.7
PEC	2.26	314	(P)	33 59.04 -2.0				iSn	31 32.01
GSC	3.25	336	(Pn)	34 12.16 -2.9	OHR	2.78	69	iPn	30 56.50 0.3
4 obs. associated						1.0s	330.00nm		
? JAN 07, 1994 13h 52m 48.77± 0.93s								i	31 02.50
39.642 N ± 7.9km 29.456 E ± 8.7km								i	31 07.00
DEPTH = 10.0km (geophysicist)								i	31 25.70
TURKEY (366)								i	31 31.80
ML 2.7 (ISK).								i	31 44.50
DST	0.64	267	ePg	53 01.60 0.0				LR	31 56.70
			eSg	53 13.10	BRY	2.89	17	iPnd	30 58.47 0.7
IZI	0.69	1	iPg	53 02.70 0.2				iSn	31 37.04
			iSg	53 12.70	NKY	2.93	24	iPnd	30 59.30 1.0
ALT	0.78	139	ePg	53 04.00 0.0				iSn	31 38.39
			eSg	53 15.00	SDI	3.11	301	P	31 00.97 0.1
EYL	1.07	30	ePn	53 08.80 -0.2	FNA	3.12	77	iPnd	31 01.29 0.2
EDC	1.41	300	ePn	53 48.50 34.0X				iSn	31 36.78
S.D. = 0.2 on 4 of 5 obs.					PVY	3.13	38	iPnc	31 01.83 0.6
% JAN 07, 1994 14h 02m 26.57± 1.34s								iSn	31 42.94
44.822 N ± 4.9km 6.793 E ± 12.0km					VLS	3.18	127	ePn	31 02.50 0.6
DEPTH = 5.0km (geophysicist)					IVA	3.32	34	iPnc	31 04.51 0.7
FRANCE (538)								iSn	31 47.63
ML 2.1 (GEN).					KZN	3.37	86	ePn	31 03.50 -1.1
RRL	0.10	356	P	02 29.05 0.2	PLE	3.52	25	iPnc	31 07.21 0.4
			S	02 30.29				iSn	31 52.75
BHB	0.34	86	P	02 33.63 0.3	SKO	3.58	58	ePn	31 06.50 -1.0
			S	02 38.85				i	31 10.00
PZZ	0.39	145	P	02 34.68 0.3				i	31 16.30
			S	02 40.54				i	31 39.00
RSP	0.47	45	P	02 36.12 0.2				i	32 10.00
LSD	0.69	22	P	02 39.99 -0.3	MEU	3.59	213	P	31 07.69 -0.1
			S	02 48.73	GRG	3.92	76	ePn	31 11.78 -0.5
STV	0.69	146	P	02 40.56 0.2				eSn	31 54.54
ENR	0.75	143	P	02 51.04 9.6X	LIT	3.93	89	iPn	31 13.78 1.4
ROB	0.93	124	P	02 44.09 -0.8				eSn	31 57.22
S.D. = 0.5 on 7 of 8 obs.					AGG	3.99	105	iPn	31 15.50 2.1
& JAN 07, 1994 15h 07m 07.25s								iSn	31 59.74
42.277 N 121.914 W					VAY	4.12	72	iPn	31 14.00 -1.2
DEPTH = 7.5km								i	31 27.20
OREGON ( 32)					THE	4.30	82	ePn	31 17.86 0.2
<SEA-P>. MD 2.8 (SEA). ML 2.8 (GS).								iSn	32 04.02
HAMO	0.21	192	Pd	07 11.97 0.2	KNT	4.33	75	iPnd	31 16.97 -1.1
			S	07 15.52				eSn	32 04.46
VRC	0.23	285	Pc	07 12.27 0.2	SOH	4.61	80	ePnd	31 21.18 -1.1
			S	07 16.26				eSn	32 11.66
BBOR	0.83	317	P	07 22.67 -1.0	SRS	4.83	76	ePn	31 23.82 -1.5
LBFM	0.93	179	eP	07 24.71 -0.7				eSn	32 15.70
DBO	1.29	311	P	07 31.16 -0.3	PAIG	4.85	91	iPnd	31 24.46 -1.0
HSO	1.52	326	P	07 35.29 0.4				iSn	32 16.34
					OUR	5.06	86	iPnc	31 28.26 -0.2
					VLI	5.55	126	ePn	31 36.20 0.8
					PTJ	5.84	350	e(Pn)	31 36.00 -3.5X
								e(Sn)	32 38.90
					TRI	6.15	336	e(Pn)	31 39.70 -4.1X
								e(Sn)	32 46.80
					RDO	6.29	78	ePn	31 44.00 -1.8
					VOY	6.41	338	ePn	31 43.20 -4.3X



07d 18h

ALN 6.65 81 eSn 32 50.80  
 VAM 7.19 129 ePn 31 48.98 -2.0  
 KBA 7.52 338 i(Pn) 32 06.00 2.9X  
 i 33 20.40  
 i 33 49.50  
 KHC 9.38 345 eP 32 31.00 2.2  
 e 32 54.50  
 e 34 11.50  
 e 35 06.50  
 S.D. = 1.2 on 40 of 49 obs.

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JAN 07, 1994 18h 32m 23.27± 0.72s  
 19.212 N ± 4.6km 121.131 E ± 5.3km  
 DEPTH = 38.3 ± 8.3 km  
 4.6mb (21 obs.) 4.9MsZ (2 obs.)  
 PHILIPPINE ISLANDS REGION (248)  
 Felt (II RF) at Pasuquin.

PIP 1.01 209 iPc 32 41.00 -0.1  
 iS 32 51.00  
 CVP 1.64 156 iPc 32 51.40 1.4  
 iS 33 11.00  
 SZP 1.77 201 ePc 32 52.00 0.0  
 BCP 2.82 190 eP 33 09.00 1.8  
 eS 33 46.80  
 BAG 2.83 191 ePc+ 33 07.00 -0.4  
 iS 33 45.00  
 QCP 4.55 181 eP 33 27.00 -4.5X  
 QVP 4.56 182 eP 33 34.20 2.4X  
 eS 34 25.00  
 TGY 5.08 182 iPd 33 44.00 4.9X  
 GQP 5.43 166 ePc 33 44.00 0.2  
 eS 34 43.00  
 QZH 6.17 338 eP 33 52.40 -1.9  
 HKC 7.20 296 iP 34 06.00 -2.8X  
 MCO 7.66 294 eP 34 12.20 -3.1  
 GZH 8.23 299 Pc 34 19.90 -3.2X  
 PPR 9.66 194 ePd 34 53.50 10.5X  
 QIZ 10.67 271 eP 34 52.80 -4.0X  
 N 16s 1.66um  
 E 18s 1.77um  
 S 36 47.20  
 DAV 12.80 160 eP 35 34.00 8.5X  
 WHN 12.85 333 eP 35 24.00 -2.0  
 Z 16s 2.37um  
 E 14s 1.55um  
 GYA 15.15 301 P 35 56.00 -0.5  
 1.2s 49.00nm 4.6mb  
 Z 14s 2.63um  
 N 14s 1.71um  
 E 14s 1.46um  
 S 38 40.00  
 KUMJ 15.87 31 eP 36 06.70 1.2  
 TIA 17.30 349 eP 36 28.00 4.5X  
 KMI 18.01 292 Pd 36 33.00 0.3  
 1.5s 70.00nm 4.6mb  
 Z 15s 2.90um  
 N 12s 1.00um  
 E 12s 1.50um  
 pP 36 44.00  
 sP 36 48.00  
 XAN 18.34 326 P 36 37.50 1.0  
 1.2s 13.00nm 4.0mb  
 Z 15s 1.40um 4.1MsZ  
 pP 36 46.50  
 LOE 18.51 268 eP 36 39.00 0.4  
 TRKSJ 18.68 35 P 36 38.70 -1.8  
 YONJ 19.30 32 eP 36 50.80 2.9X  
 CD2 19.55 310 eP 36 51.00 0.1  
 0.6s 38.00nm 4.9mb  
 Z 16s 2.51um 5.1MsZ  
 E 14s 2.24um  
 WKYJ 19.72 38 P 36 53.90 1.2  
 TIY 19.94 339 eP 36 56.10 1.2  
 Z 17s 2.39um  
 N 16s 1.68um  
 TSRJ 20.89 36 P 37 05.90 1.2  
 CHTO 20.98 273 eP 37 06.00 0.3  
 BDT 21.11 268 eP 37 06.80 -0.2  
 BJI 21.19 349 eP 37 08.50 0.8  
 1.4s 15.00nm 4.2mb  
 Z 16s 1.17um 4.4MsZ  
 N 16s 1.11um  
 eP 37 17.50 33kmX  
 eS 41 02.00  
 eS 41 16.00

NNT 21.59 255 eP 37 13.60 1.7  
 IIDJ 21.96 39 P 37 16.90 1.3  
 SNY 22.64 5 Pc 37 22.60 0.5  
 Z 15s 0.70um 4.2MsZ  
 S 41 26.00  
 LZH 22.68 321 Pd 37 24.20 1.4  
 2.0s 60.00nm 4.7mb  
 Z 16s 1.56um 4.5MsZ  
 N 15s 0.90um  
 pP 37 30.00 21kmX  
 PP 37 53.50  
 sS 41 37.00  
 MAT 22.87 37 (P) 37 24.00 -0.5  
 1.3s 19.23nm 4.4mb  
 eS 41 28.00  
 CHJJ 23.00 40 P 37 25.40 -0.3  
 HHC 23.07 341 P 37 29.20 2.7  
 1.4s 24.00nm 4.5mb  
 Z 18s 2.42um 4.7MsZ  
 N 16s 1.09um  
 E 13s 0.47um  
 pP 37 37.00 28kmX  
 PP 38 04.00  
 BTO 23.35 338 eP 37 32.00 2.8X  
 N 13s 0.55um  
 E 13s 0.60um  
 eS 37 43.00  
 IPM 24.42 236 ePc 37 40.00 0.3  
 CN2 24.78 7 eP 37 43.00 0.1  
 0.5s 5.80nm 4.4mb  
 Z 16s 0.65um 4.2MsZ  
 N 12s 0.33um  
 E 12s 0.47um  
 eS 42 04.00  
 OFUJ 26.60 38 eP 37 59.20 -0.7  
 GTA 27.27 322 eP 38 10.00 3.8X  
 1.5s 6.00nm 4.0mb  
 pP 38 19.50 34kmX  
 SHL 27.74 289 eP 38 11.00 0.4  
 eS 42 52.00  
 LSA 29.14 297 eP 38 27.00 3.4X  
 GUN 33.36 292 P 39 01.40 0.8  
 PKI 33.73 291 P 39 04.60 0.8  
 KKN 33.87 291 P 39 05.20 0.3  
 1.0s 14.00nm 4.8mb  
 DMN 34.00 291 P 39 06.60 0.5  
 1.0s 23.00nm 5.1mb  
 GKN 34.46 292 P 39 10.00 0.1  
 0.9s 13.00nm 4.9mb  
 WB2 41.01 161 iPd 40 02.30 -2.3  
 0.6s 12.90nm 4.8mb  
 YAK 43.18 6 eP 40 21.00 -0.8  
 KSH 43.70 307 eP 40 30.00 3.5X  
 1.0s 20.00nm 4.8mb  
 Z 20s 1.97um 5.0MsZ  
 N 14s 1.07um  
 E 14s 1.20um  
 eP 42 12.00  
 ASPA 44.40 163 iPd 40 30.80 -1.4  
 0.4s 18.60nm 5.3mb  
 WARB 45.44 173 eP 40 38.50 -1.9  
 QUE 50.02 294 eP 41 24.50 8.0X  
 MAIO 56.26 301 eP 42 10.00 7.4X  
 IMA 70.67 26 eP 43 36.37 -0.6  
 0.9s 2.84nm 4.3mb  
 VRI 79.44 315 eP 44 37.00 9.7X  
 MLR 80.07 315 eP 44 30.00 -0.9  
 DAG 81.27 351 iPd 44 35.20 -1.2  
 0.6s 6.00nm 4.8mb  
 HFS 81.87 331 eP 44 38.50 -1.3  
 0.5s 1.60nm 4.3mb  
 VAY 83.73 311 eP 44 49.30 -0.5  
 BRG 85.63 323 e(P) 45 08.20 9.1X  
 PRU 85.66 322 eP 45 09.00 9.7X  
 e 45 25.50  
 GEC2 86.64 321 P 45 03.20 -1.1  
 0.7s 0.65nm 4.0mb  
 PcP 45 17.10  
 YKA 87.55 23 P 45 08.50 0.2  
 1.0s 12.20nm 5.1mb  
 LPAZ 170.71 73 PKP 52 30.80 1.1  
 LR 20 48.00  
 LPB 170.82 75 ePKP 52 32.00 2.5X  
 SIV 176.17 34 PKP 52 31.30 0.5  
 S.D. = 1.2 on 51 of 71 obs.

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\* JAN 07, 1994 18h 34m 09.33± 1.55s

32.767 S ± 10.5km 69.870 W ± 11.6km  
 DEPTH = 134.5 ± 20.7 km  
 MENDOZA PROVINCE, ARGENTINA (139)  
 MD 3.7 (SAN).

JACH 0.62 278 iP 34 29.34 -0.6  
 iS 34 43.92  
 FCH 0.66 212 iP+ 34 30.66 0.1  
 iS 34 45.82  
 iS 34 46.11  
 PEL 0.78 241 iP+ 34 30.82 -0.3  
 iS 34 32.57  
 SAN 0.95 224 iP+ 34 32.57 0.0  
 iS 34 49.45  
 ROCH 0.98 258 iP 34 32.58 -0.5  
 iS 34 49.41  
 PCH 1.01 212 iP+ 34 33.43 0.3  
 iS 34 51.58  
 TACH 1.26 225 iPd 34 35.68 0.2  
 iS 34 54.66  
 RTCV 1.45 52 iPd 34 37.00 -0.5  
 S 34 57.00  
 CACH 1.48 204 iPd 34 39.33 1.3  
 iS 35 01.04  
 RTCB 1.57 36 ePd 34 39.00 0.1  
 S 35 00.80  
 ZON 1.58 40 eP 34 40.00 0.9  
 eS 34 59.00  
 LCCH 1.59 243 iP+ 34 38.67 -0.4  
 iS 35 01.72  
 LNV 1.75 227 iPd 34 40.44 -0.5  
 RTLL 1.86 40 ePd 34 42.40 0.0  
 S 35 06.40  
 RTRS 2.61 8 iPd 34 53.00 1.4  
 S 35 25.00  
 RTPR 3.78 50 e(P) 35 05.50 -1.4  
 S.D. = 0.8 on 16 of 16 obs.

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JAN 07, 1994 19h 23m 53.34± 0.17s  
 0.591 S ± 3.3km 98.601 E ± 3.2km  
 DEPTH = 29.7km (26 depth phases)  
 5.6mb (78 obs.) 5.3MsZ (26 obs.)  
 SOUTHERN SUMATERA, INDONESIA (274)  
 Mw 5.6 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 27S, 42C  
 Centroid Location:  
 Origin Time 19:23:59.8 0.4  
 Lat 0.67S 0.04 Lon 98.41E 0.04  
 Dep 30.0 BDY Half-duration 1.7  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 1.65 0.07 Mtt=-1.34 0.07  
 Mff=-0.31 0.08 Mrt= 1.76 0.23  
 Mrf=-1.60 0.18 Mtf= 0.67 0.09  
 Principal Axes:  
 T Val= 2.93 Plg=61 Azm= 51  
 N -0.07 7 307  
 P -2.87 27 213  
 Best Double Couple: Mo=2.9\*10\*\*17  
 NP1: Strike=285 Dip=19 Slip= 67  
 NP2: 129 73 98

KGM 5.38 61 iPc 25 16.10 2.4  
 i 25 55.50  
 iS 26 48.00  
 IPM 5.68 25 ePc 25 19.50 1.6  
 eS 26 32.20  
 SNG 7.97 15 iPc 25 50.60 0.4  
 1.3s 846.15nm 6.7mb X  
 eS 27 23.20  
 e 28 04.00  
 LEM 10.92 125 ePd 26 29.00 -1.9  
 1.5s 138.89nm 6.0mb  
 Z 16s 9.76um  
 eS 29 45.00  
 eLR 31 16.00  
 NNT 13.14 5 eP 27 01.80 1.1  
 PCT 15.43 10 iPd 27 31.40 0.8  
 1.0s 6.10nm 3.8mb X  
 NST 16.23 5 eP 27 40.50 -0.4  
 BDT 17.73 1 eP 27 59.90 0.2  
 1.1s 185.60nm 5.1mb  
 LOE 18.15 10 eP 28 05.00 0.0  
 KKM 18.78 69 ePc 28 16.00 3.1X  
 0.7s 414.90nm 5.8mb  
 CHTO 19.29 1 ePc 28 18.00 -0.9  
 1.7s 358.99nm 5.4mb



		eS	31	54.80			2.0s	860.00nm	6.3mb			PP	33	55.00					
TSM	19.86	76 ePd	28	25.00	-0.1	Z	19s	8.27um	5.5MsZ			ScP	37	40.00					
	0.6s	311.80nm			5.8mb	N	15s	4.83um				iS	38	43.00					
QIZ	22.41	29 Pc	28	50.00	-1.0			pP	31 12.00	36km		isS	38	56.00					
	N	13s						sP	31 16.50			SS	41	56.00					
		eS	32	56.00				PP	32 27.00			eScS	42	02.00					
FPR	22.53	62 ePd	28	52.00	-0.3			PcP	33 23.00		WMQ	45.28	349 iPc	32	11.40	1.2			
KOD	23.62	298 eP	29	06.00	2.8			S	36 43.00			1.6s	670.00nm			6.3mb			
		eS	33	21.00				sS	37 00.00		Z	20s	3.48um			5.3MsZ			
GBA	25.27	305 Pc	29	21.00	2.2			eSS	39 10.00		N	14s	5.25um						
KMI	25.87	9 iPd	29	26.50	1.8			ScS	41 13.00				pP	32	20.80	31km			
	1.2s	370.00nm			5.9mb	NJ2	37.70	29 Pc	31 08.00	-0.1			sP	32	23.40				
	Z	20s			5.4MsZ		1.0s	26.00nm		5.0mb			PP	33	58.00				
	N	13s					Z	14s	4.70um	5.4MsZX			S	38	51.20				
	E	11s					N	13s	8.58um				sS	39	06.00				
		pP	29	38.00	45kmX		E	12s	1.91um				ScS	42	05.00				
		eS	33	53.00				38.12	32 Pc	31 10.00	-1.6		SS	42	09.80				
		sS	34	10.00				0.9s	78.00nm	5.5mb		SHNJ	46.07	38 P	32	16.90	0.5		
		SS	35	02.00				Z	20s	11.70um	5.7MsZ		MDG	47.33	97 eP	32	26.20	-0.6	
		PcS	36	30.00				N	15s	11.10um			TKSJ	47.84	41 P	32	31.20	0.7	
TGY	26.50	56 iPc	29	31.00	0.7			E	15s	5.30um			SNY	47.88	25 iPc	32	29.90	-0.8	
HYB	26.65	313 ePc	29	31.50	-0.1					sP	31 25.00				1.6s	190.00nm	5.9mb		
CTB	26.68	73 ePd	29	34.00	2.0					PP	32 44.00			Z	18s	5.51um	5.6MsZ		
HKC	27.35	33 eP	29	38.00	0.0					S	37 03.00			N	14s	1.76um			
MAP	27.48	66 ePc	29	39.00	-0.2									E	15s	1.36um			
BAG	27.49	51 ePc+	29	38.50	-1.0	GTA	39.82	1 iPc	31 26.50	0.6									
	1.3s	196.15nm			5.6mb		2.0s	420.00nm		5.8mb									
CGP	27.51	70 eP	29	37.00	-2.5		Z	18s	9.70um	5.7MsZ									
BCP	27.52	51 eP	29	40.00	0.3		N	15s	4.28um										
GZH	27.56	30 eP	29	42.00	2.1					sP	31 36.00		YONJ	48.23	39 P	32	33.30	-0.2	
	Z	18s			5.3MsZ					PP	32 56.00			FRU	48.31	336 iPc	32	35.00	1.0
	N	17s								ScS	41 27.00				2.4s	640.00nm	6.2mb		
	E	15s				WRA	39.91	121 P	31 25.80	-1.0				Z	20s	3.50um	5.3MsZ		
		PP	30	25.00			0.8s	48.90nm		5.3mb				N	20s	3.00um			
DAV	27.97	74 ePc+	29	44.00	0.3														
GYA	27.99	16 iPc	29	44.00	0.1	WB2	39.92	121 iPd	31 25.50	-1.3									
	1.2s	730.00nm			6.3mb		0.7s	101.10nm		5.7mb									
	Z	16s			5.6MsZX			ipP	31 36.00	36km		LAT	48.65	98 eP	32	35.20	-1.9		
	N	14s				TIY	40.20	17 iPc	31 29.50	0.5			WKYJ	49.00	41 P	32	39.30	-0.2	
	E	14s					1.4s	74.00nm		5.2mb			PMG	49.10	102 eP	32	40.00	-0.5	
							Z	16s	8.80um	5.7MsZX			CN2	50.29	25 iPc	32	48.50	-0.7	
MBL	29.11	136 eP	29	54.20	0.3		N	14s	5.30um						1.0s	91.00nm	5.7mb		
CVP	29.21	50 eP	29	55.00	0.2					pP	31 42.50	49kmX			Z	15s	3.84um	5.5MsZX	
PKI	30.74	337 Pc	30	08.80	0.1					PP	33 10.00			N	15s	3.30um			
GUN	30.86	338 Pc	30	10.40	0.6									E	15s	2.75um			
POO	30.87	309 eP	30	10.70	1.1	TIA	40.47	23 Pc	31 30.60	-0.5									
DMN	30.89	336 Pc	30	10.30	0.3		0.7s	35.00nm		5.2mb									
LSA	30.95	347 iPc	30	11.80	1.1		Z	16s	6.80um	5.6MsZX									
	0.8s	40.00nm			5.3mb		N	15s	3.04um										
	Z	22s			5.7MsZ		E	15s	3.05um										
	E	18s				ASPA	41.21	126 iPc	31 37.10	-0.3									
		sS	35	32.00			1.1s	75.00nm		5.3mb									
KKN	30.98	337 Pc	30	11.00	0.3					eS	37 47.60			Z	18s	2.83um	5.3MsZ		
GKN	31.43	336 Pc	30	15.10	0.5									N	18s	13.70um			
CD2	31.71	8 iPc	30	16.60	-0.2									E	18s	2.83um			
	1.0s	270.00nm			6.1mb	BTO	42.29	13 iPc	31 47.00	0.9									
	Z	16s			5.6MsZX		1.0s	89.00nm		5.4mb									
	N	14s					N	15s	6.95um										
		sP	30	29.00			E	14s	3.89um										
BOM	31.88	309 iPd	30	19.00	0.6					pP	31 56.00	30km							
		eS	35	28.20						PP	33 34.00								
QZH	31.92	36 eP	30	16.00	-2.7	HHC	42.90	14 iPc	31 52.60	1.5									
	Z	18s			5.6MsZ		1.4s	190.00nm		5.6mb									
	E	18s					Z	17s	10.80um	5.8MsZX									
		S	35	28.00			N	16s	7.66um										
WHN	34.40	24 P	30	40.00	-0.1		E	12s	1.18um										
	1.5s	82.00nm			5.4mb					sP	32 05.00								
	Z	16s			5.4MsZX					PP	33 38.00								
	N	14s								eP	31 52.50	0.7							
	E	14s								e	38 06.00								
MTN	34.46	112 eP	30	38.00	-2.9X					e	41 22.40								
		e	30	44.50	22km														
MUN	35.37	154 eP	30	50.00	1.5														
	Z	20s			5.3MsZ														
	N	20s																	
	E	20s																	
NDI	35.59	327 iPc	30	50.20	-0.2														
XAN	35.79	15 iPc	30	51.70	-0.3														
	1.0s	260.00nm			6.1mb														
	Z	15s			5.7MsZX														
	N	14s																	
	E	14s																	
		pP	31	01.00	31km														
NWAO	36.64	153 eP	31	00.00	0.9														
	Z	20s			5.2MsZ														
LZH	36.82	7 iPc	31	01.50	0.7														
				</															



KHC	87.18	319	eP	38	05.50		
	1.5s		17.50nm	36	38.00	-0.1	
			e			5.1mb	
			e	36	47.40	29km	
CLL	87.70	321	eP	37	35.50		
			e	38	13.00		
			eP	36	40.00	-0.4	
			e	36	50.00	31km	
HFS	87.96	330	ePKP	36	41.40	-0.1	
	1.2s		76.50nm			5.9mb	
	Z	19s	0.71um			5.1MsZ	
			LR	15	15.00		
NVL	88.38	199	eP	36	45.00	1.7	
	2.0s		80.00nm			5.7mb	
	Z	17s	1.00um			5.3MsZ	
	N	17s	0.90um				
	E	16s	1.00um				
			ePP	40	12.00		
			ePSP	41	50.00		
			ePPP	42	20.00		
			eS	47	20.00		
			ePS	48	26.00		
			eSS	53	06.00		
			eSSS	56	50.00		
MOX	88.53	321	eP	36	44.80	0.3	
	2.3s		115.00nm			5.8mb	
	Z	22s	0.70um			5.0MsZ	
			e	36	54.70	31km	
GRF	88.74	320	e(P)	36	46.60	1.1	
	1.9s		85.00nm			5.7mb	
			e	36	55.30	27km	
			eP	36	57.30	-0.4	
CDF	91.32	318	eP	36	59.70	-0.1	
	1.2s		9.80nm			5.1mb	
	LPG	91.72	315	eP	36	59.70	-0.1
		0.9s	10.95nm			5.3mb	
LPL	91.73	315	eP	36	59.70	-0.1	
	0.7s		7.05nm			5.2mb	
	FRF	91.82	313	eP	37	00.00	0.0
		0.9s	16.85nm			5.5mb	
HAU	91.95	318	eP	37	00.10	-0.4	
	1.1s		25.90nm			5.6mb	
	LBF	93.59	317	eP	37	08.00	-0.1
		1.2s	16.65nm			5.3mb	
LOR	93.66	317	eP	37	08.20	-0.1	
	1.1s		22.45nm			5.5mb	
	Z	23s	0.50um			4.9MsZ	
			eP	37	08.40	-0.2	
SMF	93.70	317	eP	37	09.60	0.1	
	1.1s		16.85nm			5.4mb	
	SSF	93.91	317	eP	37	09.60	0.1
		1.1s	17.10nm			5.4mb	
AVF	94.03	317	eP	37	09.60	-0.4	
	1.2s		12.50nm			5.2mb	
	BGF	94.39	316	eP	37	11.80	0.1
		1.1s	23.20nm			5.5mb	
BRW	95.24	18	eP	37	15.36	0.3	
	FLN	96.44	319	eP	37	21.00	0.0
		1.1s	13.65nm			5.3mb	
	Z	22s	0.80um			5.2MsZ	
DAG	96.65	348	iPd	37	20.80	-0.7	
	0.8s		8.21nm			5.3mb	
	IMA	97.67	23	eP	37	26.89	0.4
		0.6s	2.83nm			5.0mb	
YKA	113.42	16	PKP	42	28.30	-1.5	
	0.6s		0.50nm				
	LRM	127.33	27	ePKP	42	57.50	0.1
	CMB	128.32	39	ePKP	42	59.67	0.4
BONR	129.67	38	ePKP	43	03.40	1.3	
	DAU	131.32	32	ePKP	43	05.52	0.5
			eSKP	46	27.92		
	DAU	131.97	31	ePKP	43	06.78	0.3
RSSD	132.21	22	ePKP	43	06.30	-0.3	
			eSKP	46	30.76		
	EMUT	132.64	31	ePKP	43	08.96	1.3
	MSU	132.87	33	ePKP	43	08.92	0.8
			eSKP	46	34.00		
	SRU	133.32	31	ePKP	43	09.54	0.7
	PV09	134.49	31	ePKP	43	12.91	1.6
	PV10	134.63	31	ePKP	43	11.84	0.3
			eSKP	46	38.56		



07d 19h

CEH 144.81 357 ePKP 43 28.48 -1.1  
 OXF 145.43 12 ePKP 43 30.07 -0.6  
 MYNC 145.60 4 ePKP 43 30.69 -0.3  
 CFA 145.63 200 e(PKP) 43 31.30 0.1  
 LHS 146.28 359 ePKP 43 32.83 0.8  
 JSC 146.49 360 ePKP 43 33.40 1.0  
 PRM 146.67 1 ePKP 43 33.27 0.6  
 GOGA 147.30 3 ePKP 43 35.40 1.7  
 MOCB 153.38 214 PKP 43 52.60 8.8X  
 SIV 154.03 230 PKP 43 44.30 0.0  
 LPB 158.51 217 ePKP 43 48.00 -2.5X  
 Z 16s 1.35um 5.9MszX  
 LR 38 22.00  
 LPAZ 158.72 217 PKP 43 52.00 1.0  
 LR 38 25.00  
 S.D. = 1.0 on 190 of 206 obs.

\* JAN 07, 1994 19h 29m 09.91± 0.82s  
 6.659 S ± 9.3km 130.654 E ±17.0km  
 DEPTH = 33.0km (normal)  
 5.3mb ( 4 obs.)  
 BANDA SEA (280)

KNA 9.22 191 eP 31 24.20 0.5  
 0.3s 78.00nm 6.5mb X  
 eS 32 59.50  
 WB2 13.68 165 eP 32 22.20 -1.9  
 eS 34 45.50  
 QIS 16.32 149 eP 32 59.00 0.7  
 eS 35 48.70  
 ASPA 17.20 170 eP 33 10.20 0.8  
 0.5s 63.20nm 5.0mb  
 iS 36 09.90  
 MBL 17.82 215 eP 33 17.00 -0.1  
 eS 36 21.00  
 GUN 55.22 311 P 38 42.90 0.2  
 PKI 55.40 310 P 38 43.90 -0.1  
 0.5s 16.00nm 5.3mb  
 KKN 55.61 310 P 38 45.30 -0.1  
 0.4s 14.00nm 5.3mb  
 DMN 55.65 310 P 38 45.80 0.1  
 0.6s 24.00nm 5.4mb  
 GKN 56.21 310 P 38 49.50 -0.1  
 YKA 107.16 26 Pdiff 43 14.50 -10.2X  
 1.5s 9.50nm  
 MOCB 147.98 150 PKP 48 57.60 5.8X  
 LPAZ 150.58 141 PKP 49 04.20 8.1X  
 S.D. = 0.8 on 10 of 13 obs.

JAN 07, 1994 20h 11m 35.61± 1.25s  
 43.838 N ± 4.1km 127.943 W ±10.6km  
 DEPTH = 10.0km (geophysicist)  
 3.2mb ( 1 obs.)  
 OFF COAST OF OREGON ( 30)

DBO 3.50 100 P 12 29.84 -1.3  
 HSO 3.53 93 P 12 30.58 -1.2  
 KMOR 3.65 59 P 12 32.72 -0.6  
 FBO 3.90 81 P 12 36.73 -0.2  
 NLO 3.90 53 P 12 36.82 -0.1  
 BBOR 3.95 102 P 12 36.64 -1.1  
 SSOR 4.06 74 P 12 39.67 0.4  
 WPO 4.06 63 P 12 39.68 0.5  
 HBO 4.07 88 P 12 38.99 -0.4  
 PGO 4.24 66 P 12 42.45 0.7  
 BMW 4.25 50 eP 12 41.09 -0.8  
 GT2 4.27 70 P 12 42.41 0.3  
 RVW 4.35 56 P 12 43.36 0.1  
 VRC 4.45 108 P 12 44.05 -0.6  
 LVP 4.52 58 P 12 45.97 0.3  
 VLMM 4.54 66 P 12 46.44 0.4  
 BPO 4.57 78 P 12 46.40 -0.1  
 LAB 4.59 108 P 12 45.88 -0.9  
 TCO 4.59 84 P 12 46.42 -0.4  
 FL2 4.61 57 P 12 47.58 0.5  
 MTMW 4.62 60 P 12 47.46 0.3  
 TDH 4.63 70 P 12 47.92 0.5  
 ERK 4.67 56 P 12 47.72 -0.2  
 SHW 4.68 58 eP 12 48.65 0.5  
 HSR 4.70 58 P 12 49.20 0.7  
 VBEM 4.71 73 P 12 48.94 0.4  
 REMW 4.72 58 P 12 49.31 0.6  
 YEL 4.72 58 P 12 49.43 0.7  
 ESD 4.74 58 P 12 49.88 1.0  
 CDFW 4.76 59 P 12 49.74 0.5  
 APM 4.84 65 P 12 50.56 0.2  
 VFP 4.86 70 P 12 50.74 0.1

LMW 4.89 53 P 12 51.02 0.0  
 GULW 4.97 63 P 12 52.69 0.6  
 ASR 5.06 61 P 12 53.81 0.4  
 CROR 5.11 75 P 12 53.50 -0.6  
 HDW 5.12 40 P 12 54.10 -0.1  
 GMW 5.18 42 eP 12 54.44 -0.5  
 LON 5.21 54 eP 12 55.31 -0.3  
 RVC 5.23 51 P 12 55.96 0.2  
 REMR 5.23 53 P 12 56.01 0.1  
 GLK 5.24 56 P 12 56.59 0.6  
 VIPM 5.31 80 P 12 56.11 -0.9  
 RCS 5.33 53 P 12 57.19 -0.2  
 WPW 5.34 55 P 12 57.90 0.4  
 VGB 5.38 69 eP 12 57.64 -0.2  
 FMW 5.39 53 P 12 58.10 -0.1  
 GSM 5.48 50 P 12 59.35 0.0  
 GL2 5.48 65 P 12 59.27 -0.2  
 RMW 5.62 48 eP 13 00.54 -0.8  
 JBO 6.01 72 P 13 06.33 -0.3  
 JCW 6.04 42 P 13 07.39 0.3  
 TBM 6.14 55 P 13 09.24 0.6  
 RPW 6.42 42 P 13 12.05 -0.5  
 ORV 6.45 129 eP 13 13.69 0.8  
 ARN 8.11 141 (P) 13 38.26 2.1  
 YKA 20.25 18 P 16 11.80 -1.6  
 0.9s 1.10nm 3.2mb  
 S.D. = 0.7 on 57 of 57 obs.

\* JAN 07, 1994 20h 47m 57.49± 1.01s  
 43.021 N ± 8.4km 18.814 E ± 6.9km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 1.6 (TTG).

BRY 0.23 239 iPgD 48 02.82 0.3  
 iSg 48 06.64  
 NKY 0.25 147 iPgD 48 03.32 0.5  
 iSg 48 06.99  
 PLE 0.52 54 iPgD 48 08.06 -0.1  
 iSg 48 15.56  
 HCY 0.62 202 iPgC 48 09.55 -0.4  
 iSg 48 18.52  
 TTG 0.68 151 iPgD 48 10.58 -0.3  
 iSg 48 20.79  
 IVA 0.81 100 iPgC 48 13.29 0.0  
 iSg 48 25.06  
 S.D. = 0.4 on 6 of 6 obs.

\* JAN 07, 1994 21h 40m 35.85± 1.87s  
 41.879 N ±14.8km 0.282 E ± 8.2km  
 DEPTH = 10.0km (geophysicist)  
 SPAIN (377)  
 ML 2.9 (STR), 2.8 (LDG). mbLg  
 2.6 (MDD).

EGRA 0.55 306 eP 40 45.84 -1.0  
 eS 40 51.20  
 ENSF 0.93 2 P 40 54.46 0.8  
 EROQ 1.06 175 eP 41 03.42 7.6X  
 eS 41 21.10  
 SALF 1.11 37 P 40 54.63 -2.1  
 PAND 1.14 55 P 40 54.65 -2.7X  
 EPF 1.15 2 Pn 40 58.60 1.2  
 Pg 41 01.50  
 Sn 41 12.60  
 Sg 41 17.50  
 GRBF 1.34 44 P 40 58.73 -1.8  
 VDCF 1.70 65 P 41 05.14 -0.6  
 ETER 1.96 77 eP 41 10.34 0.9  
 eS 41 32.40  
 MTHF 1.98 57 P 41 10.43 0.7  
 PERF 2.02 72 P 41 10.92 0.6  
 LPO 2.88 13 Pn 41 22.60 0.0  
 Sn 41 54.40  
 LFF 3.08 6 Pn 41 25.30 0.0  
 Sn 41 57.40  
 CAF 3.31 22 Pn 41 29.20 0.4  
 Sn 42 05.90  
 RJF 3.54 14 Pn 41 32.60 0.6  
 Sn 42 10.40  
 TCF 4.62 17 Pn 41 47.60 0.2  
 BGF 5.03 21 Pn 41 53.30 0.2  
 S.D. = 1.1 on 15 of 17 obs.

JAN 07, 1994 21h 48m 23.65± 1.54s  
 5.924 S ± 6.4km 145.914 E ± 9.1km  
 DEPTH = 29.2 ± 11.7 km

4.8mb ( 11 obs.) 3.8Msz ( 1 obs.)  
 EASTERN NEW GUINEA REG., P.N.G. (207)  
 ML 5.0 (PMG).

MDG 0.68 349 eP 48 36.70 -0.3  
 LAT 1.31 124 eP 48 46.50 0.5  
 WWKK 3.23 315 eP 49 17.00 3.4X  
 PMG 3.67 160 eP 49 31.00 11.1X  
 eS 50 30.00  
 WB2 17.90 218 iPd 52 32.50 0.2  
 0.8s 16.40nm 4.2mb  
 eS 58 03.50  
 ASPA 21.09 212 eP 53 07.60 -0.7  
 1.2s 12.90nm 4.2mb  
 Z 22s 0.40um 3.8Msz  
 KMI 52.10 308 eP 57 32.20 -1.7  
 CHTO 52.40 299 eP 57 36.10 0.1  
 XAN 52.94 321 P 57 40.00 0.2  
 1.0s 3.60nm 4.3mb  
 CD2 54.45 315 eP 57 51.00 0.1  
 LZH 57.45 320 eP 58 12.50 -0.1  
 2.0s 20.00nm 4.8mb  
 GTA 62.00 321 eP 58 47.50 3.7X  
 GUN 66.92 304 P 59 17.20 0.9  
 0.7s 22.00nm 5.4mb  
 PKI 67.20 303 P 59 18.40 0.4  
 0.8s 13.00nm 5.1mb  
 KKN 67.38 303 P 59 19.80 0.7  
 0.8s 24.00nm 5.4mb  
 DMN 67.46 303 P 59 20.20 0.6  
 0.9s 46.00nm 5.6mb  
 GKN 67.99 303 P 59 23.40 0.6  
 0.7s 15.00nm 5.2mb  
 HYB 70.42 291 eP 59 37.50 -0.2  
 GBA 70.68 287 P 59 40.00 0.8  
 WMQ 72.03 320 P 59 47.00 -0.1  
 1.2s 7.50nm 4.6mb  
 pP 59 55.50 27kmX  
 YKA 99.61 28 P 02 09.20 3.8X  
 0.6s 0.40nm 4.1mb  
 KHC 121.15 325 ePKP 07 31.00 15.6X  
 1.0s 5.40nm  
 e 08 08.00  
 e 08 31.40  
 LPB 139.63 124 PKP 07 45.00 -6.9X  
 LPAZ 139.73 124 PKP 07 46.10 -6.3X  
 SIV 145.54 130 PKP 08 01.60 -0.1  
 KIC 150.82 272 PKP 08 09.42 -0.7  
 1.0s 32.50nm  
 TIC 151.10 273 PKP 08 09.92 -0.6  
 0.9s 28.00nm  
 LIC 151.10 272 PKP 08 10.02 -0.5  
 1.0s 37.50nm  
 LKO 151.54 279 PKP 08 01.62 -9.6X  
 0.9s 6.00nm  
 S.D. = 0.7 on 21 of 29 obs.

\* JAN 07, 1994 22h 07m 21.00± 1.66s  
 40.278 N ± 8.3km 20.416 E ±17.3km  
 DEPTH = 5.0km (geophysicist)  
 GREECE-ALBANIA BORDER REGION (392)  
 ML 2.6 (THE).

IGT 0.75 185 ePg 07 35.40 -0.5  
 eSg 07 45.76  
 OHR 0.88 19 ePn 07 39.20 0.8  
 FNA 0.89 55 iPgD 07 36.88 -1.7  
 eSg 07 49.72  
 LIT 1.60 96 ePb 07 50.68 0.7  
 eSb 08 12.20  
 GRG 1.66 65 ePb 07 50.12 -0.7  
 AGG 1.94 130 ePn 07 55.66 0.7  
 KNT 2.08 64 ePn 07 57.90 0.9  
 S.D. = 1.2 on 7 of 7 obs.

? JAN 08, 1994 00h 25m 33.42±14.91s  
 34.824 S ±98.5km 71.948 W ±71.7km  
 DEPTH = 60.0km (geophysicist)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.5 (SAN).

LNW 0.97 27 iP+ 25 51.54 0.3  
 iS 26 03.29  
 CACH 1.32 58 iPd 25 56.12 0.1  
 iS 26 11.18  
 LCCH 1.38 13 iP 25 56.62 -0.2  
 TACH 1.44 36 iP 25 57.49 -0.1



08d 00h

iS 26 12.73  
 PCH 1.69 45 iP 26 01.22 0.1  
 iS 26 18.55  
 PEL 1.98 32 iP+ 26 05.51 0.4  
 iS 26 27.50  
 ROCH 2.01 23 iP+ 26 05.82 0.1  
 FCH 2.03 43 iP 26 05.84 -0.3  
 iS 26 28.38  
 JACH 2.42 28 iP 26 11.06 -0.3  
 S.D. = 0.3 on 9 of 9 obs.  
 -----  
 % JAN 08, 1994 00h 47m 18.07± 0.59s  
 26.370 S ± 5.9km 27.363 E ± 6.2km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.8 (PRE).  
 KSR 0.65 320 eP 47 31.00 -0.2  
 S 47 39.50  
 SLR 1.04 53 eP 47 38.00 -0.3  
 S 47 55.00  
 SEK 1.96 173 iPd 47 52.00 -0.5  
 S 48 16.80  
 SWZ 1.99 246 eP 47 53.20 0.3  
 S 48 17.80  
 BFT 2.51 75 eP 48 00.90 0.5  
 S 48 28.50  
 BOSA 2.83 217 eP 48 05.00 0.3  
 BLF 2.92 201 eP 48 06.00 -0.2  
 S 48 43.00  
 S.D. = 0.5 on 7 of 7 obs.  
 -----  
 JAN 08, 1994 00h 51m 07.47± 0.50s  
 5.869 S ± 7.2km 145.829 E ± 10.5km  
 DEPTH = 10.0km (geophysicist)  
 5.0mb ( 9 obs.)  
 EASTERN NEW GUINEA REG., P.N.G. (207)  
 MDG 0.62 355 ePc 51 20.70 0.8  
 LAT 1.41 124 eP 51 32.50 -0.6  
 MNDI 2.18 262 eP 51 51.00 6.5X  
 eS 52 26.00  
 WWKK 3.13 315 eP 52 02.50 4.7X  
 PMG 3.75 160 eP 52 07.00 0.3  
 eS 53 14.00  
 WB2 17.89 218 iPd 55 19.00 0.8  
 0.9s 27.40nm 4.4mb  
 eS 00 20.30  
 ASPA 21.09 212 eP 55 53.40 -1.2  
 0.9s 17.00nm 4.4mb  
 Z 22s 0.50um 3.9Msz  
 STK 26.18 188 eP 56 45.30 1.3  
 1.1s 6.00nm 4.2mb  
 NST 50.05 296 eP 00 05.50 0.8  
 CHTO 52.30 299 eP 00 22.80 1.0  
 GUN 66.82 304 P 02 02.00 -0.4  
 0.9s 37.00nm 5.6mb  
 PKI 67.10 303 P 02 02.70 -1.4  
 0.9s 13.00nm 5.1mb  
 KKN 67.28 303 P 02 04.00 -1.1  
 0.8s 23.00nm 5.4mb  
 DMN 67.36 303 P 02 04.80 -0.9  
 1.0s 62.00nm 5.8mb  
 GKN 67.89 303 P 02 07.60 -1.3  
 1.2s 57.00nm 5.6mb  
 HYB 70.33 291 eP 02 25.30 1.4  
 YKA 99.60 28 P 04 52.90 0.8  
 0.9s 0.60nm 4.2mb  
 GEC2 121.14 325 PKP 10 04.40 2.1X  
 1.4s 1.99nm  
 e 10 16.20  
 LPB 139.73 124 PKP 10 34.00 -5.0X  
 LPBZ 139.83 124 PKP 10 31.70 -7.7X  
 SIV 145.64 130 PKP 10 47.70 -1.1  
 RSTA 146.39 155 ePKP 10 50.70 0.9  
 PPD 147.58 149 ePKP 10 54.80 3.0X  
 KIC 150.74 273 PKP 11 02.58 5.7X  
 1.1s 40.50nm  
 TIC 151.01 273 PKP 11 03.04 5.7X  
 0.9s 27.50nm  
 LIC 151.02 272 PKP 11 03.12 5.8X  
 1.0s 33.00nm  
 LKO 151.45 279 PKP 11 04.16 6.2X  
 0.9s 37.00nm  
 S.D. = 1.1 on 17 of 27 obs.  
 -----  
 ? JAN 08, 1994 01h 24m 45.08± 4.18s

30.198 N ± 16.8km 50.329 E ± 50.9km  
 DEPTH = 33.0km (normal)  
 NORTHERN IRAN (348)  
 MJMA 6.21 227 eP 26 15.67 -1.2  
 eS 27 30.00  
 RYD 6.38 212 eP 26 19.00 -0.3  
 QASM 7.26 237 eP 26 31.33 -0.3  
 eS 27 58.50  
 UQSK 8.30 240 eP 26 46.00 -0.2  
 AFIF 8.80 228 eP 26 55.00 2.0  
 MLR 24.44 315 eP 30 02.00 0.0  
 S.D. = 1.4 on 6 of 6 obs.  
 -----  
 ? JAN 08, 1994 02h 03m 51.27± 1.05s  
 37.979 N ± 12.3km 71.188 E ± 10.2km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 6 obs.)  
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)  
 QUE 8.53 206 eP 05 55.60 0.0  
 eS 07 16.60  
 MAIO 9.49 263 ePn 06 55.00 46.2X  
 eSn 08 27.00  
 GKN 15.03 128 P 07 23.40 0.4  
 0.6s 21.00nm 4.6mb  
 KKN 15.58 127 P 07 30.10 -0.2  
 0.6s 36.00nm 4.7mb  
 DMN 15.60 127 P 07 30.60 0.0  
 0.6s 24.00nm 4.6mb  
 PKI 15.82 127 P 07 33.00 -0.4  
 0.6s 31.00nm 4.6mb  
 GUN 15.88 125 P 07 34.50 0.2  
 0.6s 22.00nm 4.5mb  
 HYB 21.48 160 eP 08 30.00 -9.2X  
 YKA 79.77 3 P 15 57.00 0.0  
 0.6s 0.90nm 3.9mb  
 S.D. = 0.3 on 7 of 9 obs.  
 -----  
 & JAN 08, 1994 02h 55m 29.59s  
 42.265 N 121.902 W  
 DEPTH = 7.5km  
 OREGON ( 32)  
 <SEA-P>. MD 3.8 (SEA). ML 3.6  
 (GS), 3.6 (BRK).  
 LAB 0.12 271 Pc 55 32.58 0.1  
 HAMO 0.20 195 Pd 55 34.08 0.1  
 S 55 37.68  
 VRC 0.24 287 Pc 55 34.86 0.2  
 LASM 0.71 160 P 55 43.02 -0.9  
 LMFM 0.80 194 P 55 44.64 -0.9  
 YBH 0.80 229 ePd 55 43.75 -1.7  
 eS 55 54.65  
 BBOR 0.85 318 Pd 55 45.18 -1.1  
 LBFM 0.92 179 iPd 55 46.70 -0.8  
 LGBM 0.94 193 P 55 47.29 -0.7  
 DBO 1.31 311 P 55 53.63 -0.4  
 LBKM 1.31 206 P 55 52.34 -1.8  
 LHCM 1.49 169 P 55 56.50 -0.3  
 KOMM 1.52 230 P 55 53.29 -4.0  
 HSO 1.53 326 P 55 57.31 -0.1  
 NCOR 1.54 21 Pd 55 58.50 0.8  
 HBO 1.61 349 Pd 55 59.01 0.5  
 KRMM 1.67 244 P 56 02.27 2.8  
 LMEM 1.74 172 eP 56 00.46 -0.1  
 WDC 1.75 196 eP 55 59.68 -0.8  
 LCFM 1.80 171 P 56 01.47 0.0  
 LSLM 1.85 171 P 56 03.05 1.0  
 TCO 1.85 7 P 56 02.35 0.2  
 LHKM 1.89 165 P 56 03.87 1.2  
 MIN 1.93 173 eP 56 03.63 0.4  
 KRPM 1.94 236 P 56 07.09 3.9  
 FBO 2.10 347 P 56 05.98 0.3  
 RNO 2.13 321 P 56 07.62 1.6  
 FHC 2.14 228 eP 56 05.79 -0.4  
 GMO 2.28 17 P 56 10.30 2.0  
 KKPM 2.38 208 P 56 13.31 3.6  
 BPO 2.39 4 P 56 12.03 2.1  
 VIPM 2.43 22 P 56 10.67 0.2  
 KMPM 2.49 223 (P) 56 08.98 -2.2  
 OGOM 2.62 175 P 56 15.68 2.7  
 ORV 2.72 173 eP 56 15.81 1.3  
 CROR 2.80 13 P 56 16.04 0.4  
 KRKM 2.87 200 P 56 23.45 6.8  
 GT2 2.90 355 P 56 17.85 0.8  
 TDH 3.02 1 P 56 22.58 3.7

VFP 3.07 6 P 56 21.23 1.8  
 VTHM 3.07 18 P 56 20.75 1.3  
 VLL 3.20 3 P 56 23.40 2.1  
 VGB 3.35 14 ePn 56 23.07 -0.3  
 eS 57 15.00  
 KMOR 3.56 342 P 56 27.81 1.5  
 MTMW 3.77 357 P 56 29.99 0.6  
 GL2 3.77 12 P 56 31.03 1.6  
 CDFW 3.85 358 P 56 32.18 1.7  
 GLK 4.30 3 P 56 39.43 2.4  
 KVN 4.32 137 eP 56 38.13 0.8  
 eS 57 45.37  
 CMB 4.38 164 (Pn) 56 39.18 1.1  
 WPW 4.44 3 P 56 41.47 2.6  
 RSW 4.45 21 P 56 40.57 1.6  
 LON 4.48 1 eP 56 39.52 0.0  
 WIW 4.57 23 P 56 41.98 1.4  
 RCS 4.61 1 P 56 43.12 1.6  
 MDW 4.61 19 P 56 42.83 1.6  
 FMW 4.67 2 P 56 44.45 2.2  
 GBL 4.67 21 P 56 43.63 1.5  
 RVC 4.68 359 P 56 43.80 1.5  
 LOCW 4.79 21 P 56 45.26 1.5  
 WAH2 4.79 20 P 56 45.21 1.4  
 CRF 4.90 21 P 56 46.41 1.1  
 GSM 4.94 1 P 56 48.23 2.2  
 BONR 5.11 146 ePn 56 49.92 1.3  
 MEMM 5.13 153 eP 56 50.18 1.7  
 MMFM 5.15 154 (P) 56 51.22 2.1  
 RMW 5.19 1 (P) 56 50.94 1.4  
 TNP 5.51 138 (Pn) 56 59.90 5.7  
 1.5s 7.76nm 4.1mb X  
 HVU 6.81 91 ePg 57 28.54 16.0  
 MCMT 7.06 66 eP 57 14.70 -1.3  
 PTI 7.06 82 ePg 57 37.63 21.6  
 LRM 7.68 59 eP 57 24.00 -0.7  
 YKA 20.72 10 P 00 11.10 -1.6  
 0.7s 0.70nm 3.1mb  
 73 obs. associated  
 -----  
 \* JAN 08, 1994 03h 05m 34.26± 1.73s  
 14.544 N ± 16.4km 93.154 W ± 9.4km  
 DEPTH = 57.8 ± 11.9 km  
 4.6mb ( 4 obs.)  
 NEAR COAST OF CHIAPAS, MEXICO ( 69)  
 TFX 0.94 67 iP 05 51.00 -0.5  
 iS 06 07.00  
 SCX 2.24 13 iP 06 11.50 2.0  
 iS 06 43.00  
 OXX 4.26 307 iP 06 37.50 -0.9  
 (S) 07 31.50  
 PPM 6.91 311 iP 07 15.00 -0.7  
 UNM 7.48 310 (P) 07 56.00 32.5X  
 CRX 7.90 309 (P) 07 31.00 1.7  
 MRX 9.24 305 (P) 07 46.00 -1.5  
 LTX 17.64 328 eP 09 38.28 0.6  
 UYO 19.57 357 iPc 09 59.20 -1.1  
 MIAR 19.92 359 eP 10 01.45 -2.5  
 1.0s 18.38nm 4.4mb  
 MEO 20.74 347 iPd 10 11.90 -0.5  
 TUL 21.41 354 iPc 10 21.00 1.8  
 ACO 22.70 347 iPd 10 33.10 1.1  
 TUC 23.90 321 eP 10 42.58 -1.2  
 0.9s 9.75nm 4.3mb  
 PV08 27.58 333 (P) 11 19.46 1.2  
 PV10 27.58 332 eP 11 18.18 -0.1  
 ARUT 29.32 326 eP 11 34.94 1.1  
 BONR 32.25 321 eP 11 57.62 -2.1  
 KVN 32.83 323 eP 11 57.81 -6.9X  
 LRM 35.16 336 eP 12 25.40 0.6  
 YKA 50.25 347 P 14 25.10 -1.2  
 0.7s 7.90nm 4.9mb  
 HPO 59.64 284 P 15 37.48 2.4  
 LKO 85.31 81 Pd 18 06.40 -0.5  
 0.8s 8.50nm 4.9mb  
 KIC 86.90 84 P 18 14.90 0.2  
 WRA 134.44 256 PKP 24 48.80 0.4  
 0.6s 0.40nm  
 BDT 146.21 339 ePKP 25 09.00 -0.5  
 0.8s 26.00nm  
 GBA 150.52 19 PKP 25 21.00 4.7X  
 S.D. = 1.4 on 24 of 27 obs.  
 -----  
 JAN 08, 1994 03h 27m 17.55± 0.30s  
 0.225 S ± 4.8km 125.833 E ± 7.0km  
 DEPTH = 33.0km (normal)



08d 03h

4.8mb ( 18 obs.) 4.2Msz ( 1 obs.)				CAF 0.91 334 Pg 04 26.60 0.2				1.597 N ± 9.5km 128.986 E ±14.4km			
SOUTHERN MOLUCCA SEA (269)				LPO 1.18 300 Pn 04 31.60 0.6				DEPTH = 93.6 ± 15.8 km			
				Pg 04 31.60				4.7mb ( 13 obs.)			
				Pg 04 34.50				HALMAHERA, INDONESIA (267)			
				Pg 04 54.50							
CTB	7.55 348 ePd	29 11.00	2.8	RJF 1.43 327 Pn 04 33.60 -1.4				DAV 6.43 328 eP 19 31.50 -1.9			
BIP	8.40 3 ePc	29 19.70	-0.4	Pg 04 36.70				CTB 7.33 320 ePd 19 48.00 2.2			
CGP	8.70 353 eP	29 25.00	0.9	Pg 04 58.50				KKM 13.48 289 ePd 21 08.50 0.1			
TSM	9.13 300 eP	29 31.00	0.9	Pn 04 43.00 0.0				WB2 22.04 166 iPd 22 47.00 -0.8			
KKM	11.44 303 ePd	30 06.00	4.1X	Pg 04 49.10				1.2s 8.00nm 3.9mb			
MTN	13.59 157 eP	30 30.50	0.0	Pg 05 20.60				ASPA 25.56 170 eP 23 21.30 -0.3			
0.6s 71.00nm 5.7mb				Pg 04 44.70 -0.1				0.8s 12.80nm 4.5mb			
BAG	17.32 343 eP	31 20.00	1.2	MAF 2.11 359 Pg 04 50.40 3.2X				CHTO 34.05 302 eP 24 39.00 1.9			
WB2	21.30 157 iPc	32 02.50	-1.3	Pg 05 22.30				KMI 34.47 315 eP 24 41.00 0.1			
0.7s 37.80nm 4.9mb				Pg 04 50.30 0.6				STK 35.38 161 eP 24 48.30 0.1			
MBL	21.62 195 eP	32 07.00	0.0	Pg 05 21.30				0.7s 5.50nm 4.6mb			
LAT	22.07 107 eP	32 08.00	-3.5X	Pg 04 52.20 -0.7				MAT 35.80 13 eP 24 51.00 -0.7			
PMG	23.10 114 eP	32 22.00	0.3	Pg 05 23.70				XAN 37.33 332 P 25 09.00 4.3X			
QIS	24.29 147 eP	32 33.70	0.5	Pg 04 54.40 0.8				1.0s 8.90nm 4.6mb			
ASPA	24.58 162 iPd	32 37.00	1.0	Pg 05 28.20				CD2 37.69 323 eP 25 07.00 -0.7			
0.8s 22.60nm 4.8mb				Pg 05 08.70 8.9X				ARMA 38.46 148 eP 25 15.40 1.1			
eS 36 53.10				Pg 05 52.20				0.7s 6.00nm 4.6mb			
IPM	25.24 281 ePd	32 42.00	-0.4	S.D. = 0.9 on 8 of 10 obs.				BJI 40.00 345 eP 25 26.50 -0.2			
BDT	31.62 305 eP	33 37.50	-2.4	JAN 08, 1994 04h 21m 07.66± 0.90s				LZH 41.48 329 eP 25 39.00 -0.1			
0.9s 15.10nm 4.9mb				34.812 N ± 5.9km 4.343 W ± 6.9km				1.4s 18.00nm 4.7mb			
CHTO	32.48 307 eP	33 46.40	-1.1	DEPTH = 90.9 ± 24.2 km				LSA 45.53 312 eP 26 12.60 0.3			
KUMJ	32.92 8 eP	33 50.50	-0.6	MOROCO (395)				GTA 46.08 328 eP 26 15.50 -0.6			
STK	34.83 156 iPd	34 07.80	0.1	MD 2.9 (RBA).				1.0s 4.00nm 4.2mb			
1.3s 7.00nm 4.4mb				NKM 1.08 306 iPg 21 30.00 1.4				GUN 48.80 307 P 26 37.10 -0.7			
TKSJ	34.89 12 P	34 07.70	-0.4	eSg 21 45.50				0.8s 40.00nm 5.4mb			
WKYJ	35.47 14 P	34 12.70	-0.4	i 21 46.50				PKI 49.04 306 P 26 40.00 0.4			
YONJ	35.94 11 P	34 17.10	0.0	i 21 47.50				0.7s 12.00nm 5.0mb			
TIA	37.15 348 eP	34 26.30	-0.8	i 21 29.79 -0.7				DMN 49.30 306 P 26 41.10 -0.4			
XAN	37.60 337 P	34 29.50	-1.5	eS 21 44.70				0.6s 15.00nm 5.1mb			
0.6s 6.50nm 4.7mb				IFR 1.45 207 iPg 21 32.50 -0.8				HYB 51.97 291 eP 27 00.50 -1.2			
pP 34 34.50 17kmX				iSg 21 47.00				WMQ 55.75 325 P 27 28.80 -0.3			
MAT	38.34 16 eP	34 35.00	-2.2	i 21 50.00				0.8s 5.80nm 4.7mb			
0.7s 4.11nm 4.4mb				EGUA 2.11 17 iPd 21 40.58 -1.4				YAK 60.27 0 eP 28 01.90 1.8			
eS 40 50.00				eS 22 03.80				0.7s 21.00nm 5.4mb			
ARMA	38.77 143 eP	34 41.30	0.3	EPRU 2.27 342 eP 21 44.00 -0.1				S.D. = 1.1 on 21 of 22 obs.			
TIY	39.73 343 Pc	34 47.80	-1.0	eS 22 09.00				% JAN 08, 1994 05h 48m 22.30± 0.94s			
BJI	41.03 349 eP	34 59.00	-0.4	eP 21 48.70 0.9				42.987 N ± 7.6km 18.738 E ± 5.8km			
1.0s 7.00nm 4.3mb				eS 22 14.20				DEPTH = 10.0km (geophysicist)			
LZH	41.51 333 eP	35 04.00	0.4	eS 22 19.20				NORTHWESTERN BALKAN REGION (383)			
2.0s 30.00nm 4.7mb				eS 21 53.00 -0.5				ML 1.7 (TTG).			
Z	18s 0.30um 4.2Msz			eSn 23 04.00				BRY 0.17 239 iPgd 48 26.57 0.4			
SNY	41.91 357 iPc	35 06.80	0.3	i 22 26.00				iSg 48 29.37			
1.0s 61.00nm 5.3mb				EHOR 3.09 347 eP 21 54.77 -0.5				NKY 0.26 132 iPgd 48 28.37 0.5			
HHC	42.89 344 eP	35 14.40	-0.4	eS 22 28.00				iSg 48 33.08			
CN2	43.83 360 eP	35 21.00	-1.2	EHUE 3.31 25 eP 21 59.00 0.6				HCY 0.57 198 iPgd 48 33.48 -0.3			
0.8s 7.10nm 4.5mb				EBAN 3.38 7 eP 21 58.93 -0.3				iSg 48 42.38			
LSA	44.48 315 P	35 30.00	1.8	EVAL 3.38 326 eP 22 17.84 -0.4				PLE 0.59 54 iPgc 48 34.05 -0.3			
0.8s 7.00nm 4.6mb				TIO 4.59 213 iPn 22 17.00 0.9				iSg 48 43.02			
MDJ	44.77 4 eP	35 30.00	0.2	i 23 04.00				TTG 0.68 145 iPgc 48 35.32 -0.4			
0.9s 31.00nm 5.2mb				i 23 06.00				iSg 48 46.11			
GUN	47.42 309 P	35 51.40	-0.1	i 23 07.50				BDV 0.71 175 iPgd 48 36.01 -0.2			
0.6s 31.00nm 5.5mb				S.D. = 0.9 on 14 of 14 obs.				IVA 0.86 97 iPgc 48 38.95 0.0			
PKI	47.62 309 P	35 53.00	-0.1	% JAN 08, 1994 04h 53m 47.17± 2.13s				iSg 48 52.29			
KKN	47.83 309 P	35 55.00	0.4	36.754 N ± 20.2km 2.921 W ± 8.0km				PVY 0.99 113 iPgd 48 41.41 0.2			
DMN	47.88 309 P	35 55.00	0.0	DEPTH = 10.0km (geophysicist)				iSg 48 56.35			
GKN	48.43 309 P	35 59.30	0.1	STRAIT OF GIBRALTAR (385)				S.D. = 0.4 on 8 of 8 obs.			
HYB	49.72 293 eP	36 05.00	-4.0X	EGUA 0.52 279 iPc 53 56.94 -0.8				JAN 08, 1994 06h 04m 11.75± 1.04s			
WMQ	55.49 327 P	36 50.90	-0.8	ENIJ 0.61 69 iPc 53 59.07 -0.5				36.006 N ± 8.2km 70.712 E ± 6.1km			
pP 37 01.40 35kmX				ECOG 0.73 316 iPc 54 00.25 -1.4				DEPTH = 97.8 ± 11.3 km			
YAK	62.15 2 iPd	37 37.40	-0.2	ELOJ 1.06 292 eP 54 08.89 1.6				4.8mb ( 18 obs.)			
0.8s 130.00nm 6.1mb X				EHUE 1.09 14 eP 54 07.05 -0.7				HINDU KUSH REGION, AFGHANISTAN (718)			
e(S) 46 06.00				EBAN 1.57 334 eP 54 14.83 -0.3							
MAIO	71.22 309 eP	38 38.00	2.2	EVIA 1.91 10 eP 54 21.66 1.5							
SDN	80.94 34 eP	39 30.40	0.4	S.D. = 1.4 on 7 of 7 obs.							
SVW	84.66 29 eP	39 50.50	1.4	* JAN 08, 1994 05h 17m 59.61± 1.69s							
0.7s 14.20nm 5.3mb											
TTA	84.81 27 eP	39 51.03	1.2								
0.6s 3.86nm 4.8mb											
KDC	85.74 32 eP	39 55.10	0.7								
IMA	86.34 24 eP	39 57.89	0.4								
0.6s 4.42nm 4.9mb											
SLKM	87.20 30 eP	40 00.76	-0.9								
FBA	88.66 25 eP	40 08.90	0.4								
OBN	89.74 325 (P)	40 13.00	-0.8								
YKA	103.45 25 Pdiff	41 15.30	-0.6								
0.8s 0.70nm 4.5mb											
LPZ	158.57 141 PKP	47 28.50	14.0X								
S.D. = 1.0 on 48 of 52 obs.											
% JAN 08, 1994 04h 04m 09.01± 1.55s											
44.112 N ± 11.6km 2.625 E ± 12.3km											
DEPTH = 10.0km (geophysicist)											
FRANCE (538)											
ML 2.6 (LDG).											



S	10	19.60		PEC	0.87	206	ePnd	07	10.22	-1.4	eS	13	03.76							
GUN	15.18	118	P	07	41.40	-1.0	SSK	0.94	241	ePnc	07	11.71	-1.3	MLY	3.00	23	eP	13	00.97	-1.2
POO	17.62	170	eP	08	18.00	5.5X	WSHM	1.16	326	P	07	15.21	-1.4	MPA	3.00	23	eP	12	35.58	-1.2
			eS	11	46.00		PLM	1.32	186	ePnd	07	18.54	-0.9	NCG	3.00	23	eP	12	26.54	-1.2
LSA	18.27	104	iPd	08	22.40	1.6	SNDC	1.40	290	P	07	20.55	-0.2				eS	12	38.22	
	0.8s		60.00nm			4.9mb	TOW	1.43	323	P	07	20.26	-0.9	NCT	3.00	23	eP	12	38.20	-1.2
HYB	19.78	157	ePd	08	40.50	3.8X	WBSM	1.46	307	P	07	20.82	-0.9	NKA	3.00	23	eP	12	32.26	-1.2
	0.8s		53.60nm			4.9mb	RCWM	1.49	329	P	07	20.73	-1.3	OPT	3.00	23	eP	12	50.12	-1.2
			eS	12	12.50		NMC	1.53	320	P	07	23.76	1.2	PAX	3.00	23	eP	12	54.17	-1.2
GRO	20.56	299	eP	08	45.00	0.5	VPEM	1.57	325	P	07	22.02	-1.2	PLRM	3.00	23	eP	12	27.22	-1.2
	1.0s		160.00nm			5.3mb	BMTC	1.63	287	P	07	22.78	-1.2				eS	12	39.60	
MTA	20.93	294	iPc	08	50.40	2.3	WJPM	1.64	297	P	07	22.88	-1.3	PMR	3.00	23	ePc	12	26.91	-1.2
	0.8s		60.00nm			5.0mb	WCHM	1.65	317	P	07	23.29	-1.2				eS	12	38.84	
SVE	21.89	345	ePd	08	57.50	-0.1	ARVC	1.81	285	P	07	25.59	-0.9	PWA	3.00	23	P	12	23.70	-1.2
	1.1s		60.00nm			4.8mb	FTC	1.82	277	P	07	25.79	-0.9	PWL	3.00	23	eP	12	35.80	-1.2
ARU	21.99	342	eP	08	59.00	0.4	WASM	1.86	306	P	07	25.79	-1.6				eS	12	55.19	
	1.2s		80.00nm			4.9mb	WOFM	1.86	298	P	07	28.32	0.9	RDW	3.00	23	eP	12	38.66	-1.2
			e	09	35.50		PLEC	1.97	279	P	07	32.56	3.6	RED	3.00	23	eP	12	39.02	-1.2
			i	09	37.50		WLHM	1.98	319	P	07	28.29	-1.0				eS	13	00.53	
			e	13	00.00		ABL	2.08	276	ePn	07	28.75	-2.0	REF	3.00	23	eP	12	38.13	-1.2
GBA	23.11	163	P	09	16.00	6.2X				Sg	07	32.39					eS	12	58.01	
KOD	26.38	165	eP	09	04.00	-37.0X	RYS	2.19	270	P	07	32.02	-0.2	RND	3.00	23	eP	12	42.86	-1.2
CD2	27.95	91	P	10	00.20	5.3X	MARC	2.20	279	P	07	30.57	-1.6	RS2	3.00	23	eP	12	38.70	-1.2
OBN	30.14	320	eP	10	14.00	-0.1	TPNV	2.30	9	ePn	07	32.27	-1.6	RSO	3.00	23	eP	12	38.58	-1.2
	1.2s		18.00nm			4.7mb				Pg	07	37.20		SCM	3.00	23	eP	12	38.37	-1.2
CHTO	30.20	117	eP	10	17.20	2.2	BCH	2.83	281	ePn	07	38.81	-2.5	SEW	3.00	23	eP	12	40.05	-1.2
MLR	34.8																			



08d 10h

PCH 1.43 134 iP+ 02 12.63 0.2  
 iS 02 29.80  
 CACH 1.77 147 iP+ 02 18.34 1.1  
 iS 02 39.78  
 S.D. = 0.6 on 9 of 9 obs.

& JAN 08, 1994 10h 16m 14.49s  
 34.674 N 116.706 W  
 DEPTH = 3.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS).

GSC 0.63 353 eP 16 26.41 -0.7  
 PEC 0.87 206 eP 16 30.50 -1.3  
 SSK 0.94 241 iPc 16 31.90 -1.2  
 eS 16 44.54  
 PLM 1.32 186 eP 16 38.73 -1.0  
 ABL 2.08 276 eP 16 48.91 -2.0  
 GLA 2.25 135 eP 16 48.83 -4.4  
 TPNV 2.30 9 ePn 16 52.27 -1.8  
 BCH 2.82 281 eP 16 59.89 -1.5  
 TNP 3.43 353 (Pn) 17 07.95 -2.1  
 ePg 17 17.49  
 BONR 3.52 339 (Pn) 17 11.69 0.3  
 ePg 17 20.22  
 10 obs. associated

% JAN 08, 1994 10h 38m 06.26± 0.85s  
 39.623 N ± 7.6km 29.499 E ± 7.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

DST 0.67 269 ePg 38 19.50 -0.2  
 eSg 38 29.70  
 IZI 0.71 358 iPg 38 19.80 -0.6  
 iSg 38 30.30  
 ALT 0.74 140 ePg 38 20.90 0.1  
 eSg 38 32.90  
 EYL 1.07 28 ePn 38 26.30 -0.2  
 EDC 1.45 300 ePn 38 32.00 -0.5  
 CTT 1.73 332 ePn 38 37.80 1.3  
 S.D. = 0.9 on 6 of 6 obs.

& JAN 08, 1994 11h 19m 59.48s  
 63.670 N 149.070 W  
 DEPTH = 113.5km  
 CENTRAL ALASKA (1)  
 <AEIC>.

BC3 0.91 28 eP 20 49.36 -0.4  
 BGL 0.91 28 eP 20 44.49 -0.4  
 BKG 0.91 28 eP 20 46.60 -0.4  
 BM3 0.91 28 eP 21 00.87 -0.4  
 BWN 0.91 28 eP 20 16.86 -0.4  
 CCB 0.91 28 iP 20 22.05 -0.4  
 eS 20 39.19  
 CFI 0.91 28 eP 20 39.38 -0.4  
 CGLM 0.91 28 eP 20 41.72 -0.4  
 CKN 0.91 28 eP 20 44.78 -0.4  
 CNPM 0.91 28 eP 21 02.20 -0.4  
 CP2 0.91 28 eP 20 42.52 -0.4  
 CRP 0.91 28 eP 20 41.88 -0.4  
 CUT 0.91 28 eP 20 24.80 -0.4  
 eS 20 44.59  
 DDM 0.91 28 eP 20 26.06 -0.4  
 DFR 0.91 28 eP 20 52.72 -0.4  
 DHY 0.91 28 eP 20 21.02 -0.4  
 DJE 0.91 28 eP 20 27.52 -0.4  
 DOT 0.91 28 eP 20 35.51 -0.4  
 FBA 0.91 28 ePd 20 24.35 -0.4  
 GH0 0.91 28 eP 20 31.42 -0.4  
 GLB 0.91 28 eP 20 50.58 -0.4  
 GLM 0.91 28 eP 20 26.48 -0.4  
 eS 20 47.11  
 HDA 0.91 28 eP 20 22.85 -0.4  
 HIN 0.91 28 eP 20 51.68 -0.4  
 HUR 0.91 28 eP 20 18.33 -0.4  
 eS 20 32.79  
 IL1 0.91 28 iP 20 25.79 -0.4  
 eS 20 45.89  
 ILB 0.91 28 iP 20 25.77 -0.4  
 ILIM 0.91 28 eP 20 58.75 -0.4  
 IMA 0.91 28 eP 20 46.06 -0.4  
 KLU 0.91 28 eP 20 40.87 -0.4  
 KNK 0.91 28 eP 20 36.07 -0.4  
 KTH 0.91 28 iP 20 19.28 -0.4

LTI 0.91 28 eS 20 34.53  
 MCK 0.91 28 eP 20 53.89 -0.4  
 eS 20 15.08 -0.4  
 eS 20 27.26  
 MDM 0.91 28 eP 20 24.67 -0.4  
 MLY 0.91 28 eP 20 26.73 -0.4  
 MPA 0.91 28 eP 20 47.55 -0.4  
 NCG 0.91 28 eP 20 40.84 -0.4  
 NEA 0.91 28 eP 20 19.65 -0.4  
 eS 20 34.83  
 PAX 0.91 28 eP 20 30.66 -0.4  
 PLRM 0.91 28 eP 20 33.88 -0.4  
 PWA 0.91 28 P 20 33.90 -0.4  
 PWL 0.91 28 eP 20 42.97 -0.4  
 RDW 0.91 28 eP 20 57.15 -0.4  
 RND 0.91 28 eP 20 15.42 -0.4  
 SCM 0.91 28 eP 20 34.22 -0.4  
 SEW 0.91 28 eP 20 53.03 -0.4  
 SKT 0.91 28 eP 20 32.37 -0.4  
 SLKM 0.91 28 eP 20 48.48 -0.4  
 SML 0.91 28 eP 20 31.06 -0.4  
 SPU 0.91 28 eP 20 43.30 -0.4  
 SUA 0.91 28 eP 20 37.59 -0.4  
 SWW 0.91 28 P 20 57.80 -0.4  
 TOA 0.91 28 P 20 34.00 -0.4  
 TRF 0.91 28 iP 20 17.47 -0.4  
 eS 20 31.46  
 TTA 0.91 28 eP 20 48.42 -0.4  
 VLZ 0.91 28 eP 20 42.63 -0.4  
 WRH 0.91 28 eP 20 19.98 -0.4  
 58 obs. associated

JAN 08, 1994 12h 00m 24.33± 0.60s  
 38.852 N ± 5.5km 27.806 E ± 8.3km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.1 (ISK).

IZM 0.62 223 ePg 00 37.20 0.3  
 eSg 00 46.70  
 DST 0.99 40 ePg 00 43.20 0.1  
 eSg 00 57.10  
 CIN 1.27 170 ePg 00 47.50 -0.4  
 iSg 01 05.50  
 EDC 1.49 2 iPn 00 51.00 -0.2  
 ALT 1.81 83 ePn 00 56.00 0.1  
 IZI 1.96 40 iPn 00 58.00 -0.1  
 CTT 2.34 12 ePn 01 03.20 -0.3  
 EYL 2.49 46 ePn 01 06.00 0.3  
 S.D. = 0.3 on 8 of 8 obs.

? JAN 08, 1994 12h 23m 16.94± 6.96s  
 36.486 N ± 60.0km 2.833 W ± 10.5km  
 DEPTH = 5.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)

EGUA 0.68 301 iPc 23 30.70 0.1  
 eS 23 38.60  
 ENIJ 0.70 46 iPc 23 30.80 -0.1  
 eS 23 39.00  
 ECOG 0.98 324 iPc 23 35.69 -0.5  
 eS 23 47.00  
 ELOJ 1.25 302 eP 23 40.51 -0.1  
 eS 23 57.90  
 EBAN 1.84 336 eP 23 50.19 0.7  
 eS 24 13.20  
 EVIA 2.17 7 eP 23 57.05 2.8X  
 eS 24 22.80  
 S.D. = 0.6 on 5 of 6 obs.

? JAN 08, 1994 12h 30m 20.48± 0.94s  
 39.685 N ± 8.2km 29.354 E ± 8.7km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.57 262 ePg 30 32.10 0.1  
 eSg 30 41.60  
 IZI 0.66 8 ePg 30 33.20 -0.4  
 eSg 30 43.20  
 ALT 0.86 137 ePg 30 37.00 -0.1  
 EYL 1.07 35 ePn 30 41.20 0.4  
 S.D. = 0.6 on 4 of 4 obs.

? JAN 08, 1994 12h 31m 34.59± 0.96s  
 39.677 N ± 8.3km 29.406 E ± 9.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.5 (ISK).

DST 0.60 263 ePg 31 47.00 0.2  
 eSg 31 56.60  
 IZI 0.66 4 ePg 31 47.20 -0.6  
 eSg 31 57.20  
 ALT 0.83 138 ePg 31 50.50 -0.2  
 EYL 1.06 33 ePn 31 55.20 0.6  
 S.D. = 0.9 on 4 of 4 obs.

\* JAN 08, 1994 13h 02m 11.52± 2.04s  
 4.206 S ± 10.4km 148.063 E ± 26.9km  
 DEPTH = 93.1 ± 22.3 km  
 3.9mb (1 obs.)  
 BISMARCK SEA (203)

MDG 2.50 245 eP 02 52.00 0.9  
 LAT 2.66 203 iPd 02 53.10 -0.2  
 MNDI 4.79 246 eP 03 22.00 -1.0  
 PMG 5.24 190 eP 03 40.00 11.0X  
 eS 04 30.00  
 GUA 17.91 350 eP 06 16.80 0.7  
 GUMO 17.96 350 eP 06 16.40 -0.3  
 eS 07 06.90  
 PJG 17.96 350 eP 06 16.30 -0.5  
 WB2 20.57 219 eP 06 45.30 0.2  
 0.5s 3.20nm 3.9mb  
 MRX 110.93 71 (Pdiffer) 55.00 18.2X  
 UNM 112.85 71 (Pdiffer) 50.00 4.2X  
 LPAZ 138.82 121 PKP 21 51.90 21.5X  
 i 24 45.40  
 S.D. = 0.9 on 7 of 11 obs.

? JAN 08, 1994 13h 29m 08.81± 2.78s  
 41.041 N ± 24.6km 28.375 E ± 17.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

CTT 0.11 21 iPg 29 11.90 0.2  
 ISK 0.52 87 iPg 29 19.10 -0.2  
 iSg 29 26.10  
 DMK 0.91 329 ePn 29 26.10 -0.1  
 HRT 1.00 102 ePn 29 28.00 0.1  
 S.D. = 0.3 on 4 of 4 obs.

% JAN 08, 1994 13h 53m 31.60± 0.98s  
 39.603 N ± 8.5km 29.416 E ± 9.2km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

DST 0.61 271 ePg 53 43.00 -0.9  
 IZI 0.73 3 iPg 53 45.60 -0.5  
 iSg 53 56.10  
 ALT 0.77 135 ePg 53 47.00 0.3  
 eSg 53 58.00  
 EYL 1.12 30 iPn 53 51.60 -1.0  
 ISK 1.49 350 ePn 53 59.00 0.7  
 CTT 1.72 334 ePn 54 03.10 1.4  
 S.D. = 1.3 on 6 of 6 obs.

JAN 08, 1994 13h 54m 11.20± 0.52s  
 38.902 N ± 4.7km 23.242 E ± 5.2km  
 DEPTH = 10.0km (geophysicist)  
 3.2mb (1 obs.)

GREECE (364)  
 ML 3.6 (THE), 3.4 (ATH).

AGG 0.72 280 iPg 54 23.24 -2.2  
 eSg 54 34.32  
 ATH 1.00 158 iPg 54 31.00 0.9  
 PAIG 1.08 18 iPg 54 31.92 0.5  
 eSg 54 47.92  
 LIT 1.33 334 ePb 54 35.21 -0.5  
 eSb 54 52.06  
 OUR 1.54 22 iPbd 54 38.73 0.0  
 eSb 55 00.60  
 THE 1.74 353 ePb 54 42.08 0.5  
 iSb 55 04.70  
 KZN 1.80 321 ePn 54 43.60 1.0  
 SOH 1.92 3 iPbc 54 44.16 -0.1  
 iSb 55 09.62  
 GRG 2.15 343 iPnc 54 47.36 -0.3  
 eSn 55 13.80  
 VLI 2.19 186 ePn 54 47.50 -0.7



08d 13h

VLS 2.20 252 ePn 54 50.20 1.8  
 SRS 2.23 7 iPnc 54 48.52 -0.2  
 KNT 2.27 353 ePn 54 49.20 -0.1  
 IGT 2.35 286 ePn 54 49.36 -1.0  
 FNA 2.36 323 iPnc 54 50.32 -0.4  
 PRK 2.38 81 ePn 54 51.00 0.1  
 LSK 2.39 302 ePn 54 52.50 1.4  
 VAY 2.47 348 iPn 54 53.00 0.9  
 KBN 2.56 313 ePn 54 58.00 4.6X  
 SRN 2.69 292 ePn 55 03.80 8.5X  
 RDO 2.85 37 ePn 54 56.50 -1.0  
 OHR 2.90 320 iPn 55 02.30 4.1X  
 ALN 2.94 46 ePnc 54 58.52 -0.2  
 SKO 3.36 336 ePn 55 06.20 1.4

TIR 3.56 314 e(Pn) 55 16.50 8.9X  
 YKA 73.42 341 P 05 43.20 -1.7  
 0.4s 0.10nm 3.2mb  
 S.D. = 1.1 on 22 of 26 obs.

JAN 08, 1994 14h 00m 08.59± 0.55s  
 38.898 N ± 5.0km 23.248 E ± 5.4km  
 DEPTH = 10.0km (geophysicist)  
 3.1mb ( 1 obs.)

GREECE (364)  
 ML 3.6 (ATH), 3.6 (THE).

AGG 0.73 280 iPgc 00 20.46 -2.4  
 ATH 1.00 158 iPg 00 28.00 0.6  
 PAIG 1.08 18 iPgc 00 29.46 0.6  
 LIT 1.34 334 iPbc 00 32.66 -0.6  
 OUR 1.54 21 iPbd 00 36.30 0.2  
 THE 1.75 353 ePb 00 39.04 0.0  
 KZN 1.81 321 iPb 00 40.80 0.7  
 SOH 1.92 2 iPbc 00 41.72 0.0  
 GRG 2.16 343 iPnc 00 44.88 -0.2  
 VLI 2.19 187 iPn 00 45.50 -0.1  
 VLS 2.21 252 iPn 00 45.50 -0.3  
 SRS 2.23 7 ePn 00 46.00 -0.2  
 KNT 2.28 353 iPnc 00 46.68 -0.1  
 IGT 2.35 287 iPn 00 49.70 1.8  
 FNA 2.37 323 ePn 00 48.04 -0.1  
 PRK 2.38 81 iPn 00 48.80 0.6  
 LSK 2.40 302 ePn 00 50.40 1.8  
 VAY 2.48 348 iPn 00 49.70 0.1  
 KBN 2.56 313 ePn 00 55.00 4.1X  
 SRN 2.70 292 ePn 01 00.70 7.9X  
 RDO 2.85 37 iPn 00 53.00 -1.9  
 OHR 2.90 320 ePn 00 49.70 -6.0X

1.2s 190.00nm  
 i 01 03.60  
 i 01 29.50  
 i 01 42.70  
 Lg 01 58.50

ALN 2.94 46 ePn 00 55.40 -0.7  
 SKO 3.37 336 ePn 01 07.50 5.2X

TIR 3.57 314 ePn 01 12.00 6.9X  
 VAM 3.57 167 ePb 01 09.00 3.9X  
 MLR 6.89 16 ePc 01 54.00 1.9  
 YKA 73.43 341 P 11 40.80 -1.5  
 0.5s 0.10nm 3.1mb  
 S.D. = 1.1 on 22 of 28 obs.

? JAN 08, 1994 14h 09m 36.85± 4.80s  
 38.790 N ± 40.6km 23.166 E ± 20.5km  
 DEPTH = 10.0km (geophysicist)

GREECE (364)  
 ML 2.5 (THE).

AGG 0.69 290 ePg 09 50.18 -0.4  
 PAIG 1.20 19 ePb 09 59.34 0.1

LIT 1.41 338 ePb 10 02.54 0.0  
 OUR 1.67 22 ePb 10 05.94 -0.2  
 SOH 2.03 4 ePn 10 12.10 0.5  
 IGT 2.32 289 ePn 10 16.14 0.4  
 SRS 2.35 8 iPn 10 15.70 -0.4  
 eSn 10 47.14  
 S.D. = 0.4 on 7 of 7 obs.

% JAN 08, 1994 14h 17m 44.65± 0.71s  
 41.166 N ± 9.9km 28.492 E ± 5.7km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

CTT 0.05 248 iPg 17 46.10 0.0  
 ISK 0.44 103 iPg 17 53.60 0.1  
 DMK 0.86 320 ePg 18 01.60 0.0  
 HRT 0.95 111 ePg 18 03.00 -0.3  
 IZI 1.11 138 ePg 18 06.10 0.0  
 EYL 1.40 115 ePn 18 11.10 0.2  
 S.D. = 0.2 on 6 of 6 obs.

JAN 08, 1994 15h 07m 02.32± 0.93s  
 26.851 S ± 9.0km 26.523 E ± 8.5km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.5 (PRE).

BFS 0.24 102 iPc 07 07.30 0.1  
 PRY 0.85 95 eP 07 17.50 -1.8  
 KSR 1.04 19 eP 07 23.50 1.0  
 SWZ 1.12 253 eP 07 28.30 4.4X  
 SEK 1.76 147 eP 07 35.60 1.7  
 SLR 1.93 55 iPd 07 37.00 0.7  
 BOSA 2.01 209 eP 07 42.10 4.8X  
 BLF 2.27 187 eP 07 42.90 1.7  
 NWL 3.17 107 eP 07 53.70 -0.3  
 BFT 3.37 71 eP 07 56.00 -0.9  
 PKA 4.35 229 eP 08 28.30 17.6X  
 SUR 7.42 221 eP 08 15.00 -39.1X  
 CER 9.01 222 eP 09 15.00 -1.1  
 BLE 9.78 222 eP 09 25.50 -1.1  
 S.D. = 1.4 on 10 of 14 obs.

JAN 08, 1994 15h 20m 56.77± 0.55s  
 32.983 S ± 11.7km 69.871 W ± 10.6km  
 DEPTH = 120.0km (geophysicist)  
 MENDOZA PROVINCE, ARGENTINA (139)  
 MD 3.7 (SAN).

JACH 0.68 296 iP 21 15.74 -0.6  
 PEL 0.70 257 iPd 21 16.42 0.0  
 SAN 0.81 234 iPd 21 17.73 0.4  
 PCH 0.83 220 iPd 21 18.43 0.8  
 ROCH 0.96 270 iP+ 21 18.51 -0.4  
 TACH 1.12 233 iP 21 20.61 0.3  
 LCCH 1.51 251 iPd 21 24.32 -0.3  
 RTCV 1.59 46 iPd 21 26.00 0.3  
 S 21 46.00

LNV 1.61 233 iP 21 25.37 -0.5  
 RTCB 1.75 32 eP 21 28.00 0.4  
 ZON 1.75 36 eP 21 28.40 0.7  
 CFA 1.95 46 ePc 21 30.00 -0.1  
 RTLL 2.03 36 eP 21 31.50 0.3  
 RTRS 2.83 7 iPd 21 42.00 0.6  
 S 22 15.00  
 RTPR 3.92 48 iPd 21 54.10 -2.0  
 S.D. = 0.8 on 15 of 15 obs.

% JAN 08, 1994 16h 04m 51.64± 0.67s  
 26.363 S ± 6.0km 27.349 E ± 6.8km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.6 (PRE).

PRY 0.57 169 eP 05 02.10 -1.1  
 KSR 0.64 321 eP 05 04.00 -0.5  
 SLR 1.05 54 eP 05 11.40 -0.5  
 SEK 1.97 173 eP 05 26.60 0.5  
 SWZ 1.99 245 eP 05 27.00 0.6  
 BFT 2.52 75 eP 05 35.00 0.9  
 BOSA 2.82 217 eP 05 38.30 0.1  
 S 06 10.50  
 S.D. = 0.9 on 7 of 7 obs.

? JAN 08, 1994 18h 22m 44.20± 23.15s  
 20.252 N ± 161.km 70.729 W ± 122.km  
 DEPTH = 33.0km (normal)  
 DOMINICAN REPUBLIC REGION ( 88)

MGP 4.10 122 P 23 46.70 0.5  
 LRS 4.15 117 P 23 46.90 0.0  
 PORP 4.44 119 P 23 51.80 0.7  
 CLLP 4.48 118 P 23 52.00 0.4  
 LPR 4.98 112 P 23 58.20 -0.5  
 CPD 5.05 115 P 23 59.00 -0.8  
 CANV 9.34 168 eP 25 01.10 1.4  
 MORO 9.61 166 eP 25 03.20 -0.3  
 OLLA 10.85 159 eP 25 18.90 -1.6  
 S.D. = 1.0 on 9 of 9 obs.

? JAN 08, 1994 19h 18m 16.49± 1.29s  
 6.441 N ± 21.6km 126.845 E ± 30.0km  
 DEPTH = 290.5 ± 13.8 km  
 4.5mb ( 2 obs.)  
 MINDANAO, PHILIPPINE ISLANDS (259)

BIP 1.87 342 iP 19 02.00 0.3  
 CTB 2.73 286 eP 19 09.00 -0.3  
 CGP 2.92 313 eP 19 15.00 3.8X  
 WRA 27.23 164 P 23 14.10 -22.3X  
 0.8s 0.10nm  
 WB2 27.24 164 iPc 23 35.30 -1.1  
 0.7s 9.40nm 4.4mb  
 WARB 32.43 180 eP 24 23.00 1.2  
 MEEK 33.84 193 iPd 24 33.90 0.1  
 0.4s 8.00nm 4.6mb  
 GUN 44.28 304 P 26 00.00 -0.1  
 S.D. = 1.2 on 6 of 8 obs.

% JAN 08, 1994 19h 25m 21.72± 0.55s  
 26.896 S ± 5.8km 26.692 E ± 4.9km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.3 (PRE).

BFS 0.08 92 iPc 25 23.90 0.2  
 PRY 0.70 93 eP 25 24.20 -0.2  
 KSR 1.04 10 eP 25 35.50 -0.2  
 SWZ 1.25 257 eP 25 42.00 0.0  
 SEK 1.65 150 eP 25 45.30 -0.2  
 S 26 01.20  
 S 25 51.80 0.3



08d 19h

SLR	1.84	51	iPd	S	26 11.30	0.4	TIR	1.22	3	iPnc	45 07.90	3.2X	FVI	8.23	324	P	46 43.33	-0.7	
			S	25 54.70			OHR	1.26	38	iPn	45 05.70	0.3	KBA	8.37	328	i(Pn)	46 52.30	6.1X	
BOSA	2.05	213	eP	S	26 17.00			0.6s	1150.00nm					0.5s	5.10nm		5.0mb X		
BLF	2.25	191	eP	S	25 57.90	-0.6				i	45 08.40				i	48 15.50			
			S	26 21.70						i	45 25.40		CTI	8.38	318	P	46 44.15	-2.3	
BFT	3.24	69	eP	S	25 59.70	-0.4				Lg	45 29.50		WTTA	9.25	323	iPnc	46 56.60	-1.8	
			S	26 26.70			FNA	1.39	61	iPbc	45 08.02	0.6		0.5s	7.10nm		5.3mb X		
SUR	7.49	222	eP	S	26 14.00	-45.4X	LCI	1.41	279	eSb	45 25.68				i(Sg)	48 35.70			
CER	9.08	223	eP	S	26 58.00		LACI	1.51	358	iPnd	45 07.98	0.4	KHC	10.02	336	ePn	47 06.00	-2.9X	
			S	27 48.00						iSn	45 11.00	2.0			e	48 08.00			
			S	27 31.00	-5.5X					eSn	45 33.00				e	48 56.50			
			S	29 09.00		KZN	1.54	83	ePn	45 10.60	1.1	BRG	11.49	341	iPg	47 15.10	-13.9X		
S.D. = 0.5	on	9	of	11	obs.					eSn	45 35.70				iSg	47 34.80			
* JAN 08, 1994 19h 46m 44.36± 0.56s						ULC	1.88	348	iPnc	45 15.35	1.0	DOU	14.61	318	iP	48 03.90	-6.4X		
51.140 N ±11.9km 176.014 E ± 7.5km						SDA	1.94	354	ePn	45 41.44	0.9	HFS	20.39	351	eP	49 18.70	-2.5		
DEPTH = 33.0km (normal)						VLS	2.05	162	ePn	45 16.00	0.1		0.4s	1.60nm		3.7mb			
3.9mb ( 3 obs.)						LIT	2.08	90	iPbc	45 47.50	0.1	NUR	20.63	7	eP	49 20.00	-3.7X		
RAT ISLANDS, ALEUTIAN ISLANDS ( 6)										ePn	45 16.90	1.1	KAF	22.37	8	eP	49 40.50	-0.8	
										eSb	45 18.50			S.D. = 1.4	on	54	of	63	obs.
											45 44.28								
SMY	1.98	324	eP	S	47 15.11	-1.1	BRT	2.10	292	P	45 19.37	1.8		JAN 08, 1994 20h 46m 03.57± 0.63s					
			S	47 39.80		GRG	2.17	67	iPbd	45 19.92	1.3		51.563 N ± 6.0km 1.093 W ± 6.4km						
ADK	4.62	78	eP	(S)	47 53.56	-0.1				iSb	45 47.32			DEPTH = 10.0km (geophysicist)					
			(S)	48 44.09		SKO	2.23	34	iPnc	45 21.00	1.5		UNITED KINGDOM (533)						
CRP	20.19	48	eP		51 18.71	-0.1		0.5s	260.00nm				ML 2.6 (LDG), 2.2 (BGS).						
YKA	37.74	45	P		53 58.50	0.3				iPg	45 24.20		HAE	1.02	298	ePnc	46 22.90	0.0	
			0.4s	0.60nm	3.8mb					i	45 35.50		HGH	1.07	275	ePnc	46 24.00	0.3	
GUN	68.88	288	P		57 48.60	0.4				iSn	45 47.00		KUF	1.14	22	ePn	46 25.20	0.3	
KKN	69.33	289	P		57 51.40	0.7				iSg	45 52.50		CWF	1.18	354	ePn	46 25.70	0.1	
PKI	69.41	289	P		57 51.80	0.4	AGG	2.26	118	Lg	45 59.00	1.8			eSn	46 40.60			
GKN	69.55	289	P		57 52.60	0.6				iPnd	45 21.78		HTR	1.45	292	ePn	46 29.40	-0.4	
DMN	69.57	289	P		57 52.80	0.6				eSn	45 48.44		HCG	1.76	297	ePn	46 34.00	-0.3	
WB2	79.66	219	iPd		58 48.90	-1.0	BDV	2.27	342	iPnc	45 20.41	0.4	FLN	2.83	172	Pg	46 59.10	9.4X	
			0.8s	2.20nm	4.2mb					iSn	45 49.84				Sg	47 30.60			
WRA	79.67	219	P		58 49.30	-0.6	TTG	2.33	351	iPnc	45 21.81	0.9	LDF	3.04	168	Pn	46 53.40	0.9	
			0.6s	0.70nm	3.8mb					iSn	45 52.50				Pg	47 01.40			
S.D. = 0.7	on	11	of	11	obs.	VAY	2.44	60	iPn	45 23.30	0.9			Sg	47 35.90				
							0.8s	270.00nm				GRR	3.18	177	Pg	47 04.40	9.8X		
* JAN 08, 1994 20h 15m 07.42± 0.70s										iSn	46 02.00				Sn	47 27.00			
5.888 S ± 9.1km 145.906 E ±12.3km						PVY	2.47	3	Lg	46 06.50	1.8			Sg	47 41.20				
DEPTH = 33.0km (normal)										iPnc	45 24.82		LOR	5.38	141	Pn	47 24.90	-0.9	
3.9mb ( 2 obs.)						THE	2.49	77	ePn	45 23.80	0.7		S.D. = 0.6	on	8	of	10	obs.	
EASTERN NEW GUINEA REG., P.N.G. (207)										eSn	45 53.56			JAN 08, 1994 21h 16m 44.57± 1.59s					
MDG	0.65	349	iPc		15 18.70	-1.4	HCY	2.51	338	iPnc	45 23.23	-0.2		3.232 N ± 8.5km 96.072 E ± 8.9km					
LAT	1.33	125	eP		15 30.00	0.1				iSn	45 54.81			DEPTH = 64.5 ± 13.6 km					
MNDI	2.25	263	eP		15 48.00	4.7X	KNT	2.59	65	iPnc	45 26.28	1.6		4.5mb ( 10 obs.)					
WWKK	3.20	315	eP		16 01.00	4.4X				eSn	45 56.64			NORTHERN SUMATERA, INDONESIA (706)					
WB2	17.93	218	iPd		19 15.50	-0.5	IVA	2.75	2	iPnc	45 28.61	1.7	IPM	5.12	75	ePd	18 00.30	-0.3	
			0.7s	4.60nm	3.7mb					iSn	46 04.02			0.7s	62.50nm		5.0mb		
ASPA	21.12	212	eP		19 51.00	-0.8	NKY	2.75	348	iPnc	45 27.47	0.5	SNG	5.99	49	eP	18 13.40	0.7	
			1.1s	8.30nm	4.0mb					iSn	46 02.26				eS	20 36.00			
			e	20 06.10		SOH	2.82	75	iPnd	45 28.78	0.9	KGM	7.34	99	eP	18 31.50	0.0		
GUN	66.90	304	P		25 59.80	0.4				eSn	46 01.48		NNT	9.98	21	eP	19 07.70	0.0	
KKN	67.35	303	P		26 02.80	0.7	BRY	2.92	342	iPnc	45 29.25	-0.1	CHTO	15.74	10	eP	20 23.60	-0.2	
DMN	67.44	303	P		26 03.60	0.9				iSn	46 05.55	0.1	GBA	21.10	300	P	21 25.20	-0.7	
GKN	67.96	303	P		26 06.40	0.5	PAIG	3.01	93	iPnd	45 30.56				S	25 05.20			
KIC	150.81	272	PKP		35 00.73	7.5X	PLE	3.21	355	eSn	46 05.92	1.1	HYB	22.23	311	eP	21 37.50	0.2	
			0.7s	12.50nm						iPnc	45 34.58	0.5	KMI	22.69	16	eP	21 43.40	1.4	
TIC	151.09	273	PKP		35 00.85	7.1X	OUR	3.23	85	iPnc	46 14.40		GYA	25.23	23	P	22 06.40	0.1	
LIC	151.10	272	PKP		35 01.35	7.7X				eSn	46 11.08			1.0s	11.00nm		4.3mb		
			0.6s	3.50nm		MGR	3.23	272	P	45 36.13	2.4			pP	22 17.00	40kmX			
LKO	151.53	279	PKP		35 02.19	7.8X	SGO	3.44	279	P	45 38.36	1.8	PKI	26.26	338	P	22 16.20	0.2	
			0.9s	8.50nm		SOI	3.54	236	P	45 47.15	9.1X		0.6s	13.00nm		4.6mb			
S.D. = 1.0	on	8	of	14	obs.	ATH	3.75	124	ePb	45 49.00	8.0X	GUN	26.40	339	P	22 16.80	-0.5		
						HVAR	3.94	322	iPn	45 43.00	-0.7	DMN	26.41	338	P	22 17.70	0.4		
JAN 08, 1994 20h 44m 42.24± 0.42s										iSn	46 27.60		KKN	26.51	338	P	22 18.60	0.4	
40.126 N ± 4.4km 19.772 E ± 3.7km						VLI	4.21	143	ePn	45 47.50	-0.1		0.8s	23.00nm		4.8mb			
DEPTH = 12.5 ± 2.9 km						RDO	4.50	75	ePn	45 50.70	-1.0	LSA	26.73	350	eP	22 20.60	0.1		
3.7mb ( 1 obs.)						SDI	4.78	291	P	45 58.79	3.0X	GKN	26.94	337	P	22 21.60	-0.5		
ALBANIA (391)						ALN	4.84	79	ePn	45 55.84	-0.7	CD2	28.47	14	eP	22 34.60	-1.1		
MD 3.9 (ATH), ML 3.8 (TTG), 3.7 (ROM), 3.7 (THE), 3.5 (TIR).						ASS	6.09	301	P	46 15.59	1.4	XAN	32.91	20	P	23 13.20	-1.7		
SRN	0.30	144	iPgc		44 47.60	-1.1	ARV	6.11	306	P	46 14.51	0.0	GTA	36.17	5	eP	23 41.50	-1.3	
			iSg		44 53.10		PTJ	6.41	335	iPn	46 17.20	-1.6		1.0s	4.00nm		4.3mb		
VLO	0.40	328	iPg		44 51.60	1.0	RIY	6.55	325	ePn	46 18.80	-1.8	TIY	37.45	22	eP	23 55.00	1.5	
			iSg		45 01.20					iSn	47 32.10			Z	17s	0.96um		4.7MsZ	
KEK	0.41	177	ePb		44 50.50	-0.3	CRE	6.80	303	P	46 26.09	1.8		N	16s	0.48um			
LSK	0.64	88	iPg		44 52.40	-2.4	MLR	7.02	38										



08d 21h

0.6s	6.80nm	4.6mb	MGP	2.63	266	P	29	00.10	-0.4	COE	53.37	303	eP	37	30.65	0.7					
ASP	45.52	128	eP	24	59.90	0.1	BPA	2.64	116	ePd	28	59.50	-1.1	e	37	41.25					
0.7s	5.00nm	4.5mb	PAG	3.35	130	ePd	29	10.88	0.6	ORV	53.45	306	eP	37	30.53	0.1					
MAIO	47.10	319	eP	25	22.00	9.8X	DOG	3.39	130	ePd	29	11.34	0.5	NTYM	54.24	304	eP	37	36.27	0.0	
CN2	48.04	29	eP	25	19.00	-0.3	SFG	3.58	123	ePd	29	12.38	-1.0	KMPM	55.53	307	eP	37	46.25	0.5	
YAK	63.80	17	eP	27	11.40	-0.6	DEG	3.66	121	eP	29	12.83	-1.7	YKA	56.13	335	P	37	47.50	-2.1	
MLR	73.83	316	eP	28	24.00	9.7X	MGG	3.68	128	ePd	29	15.43	0.6	LKO	57.48	90	Pc	37	59.79	-0.1	
KAF	77.77	333	eP	28	36.70	0.6	DPMT	4.08	136	eP	29	20.75	0.5	0.5s	37.00nm	5.7mb					
SPC	78.31	319	eP	28	51.00	11.4X	FDF	4.62	138	iPc	29	27.62	-0.2	TIC	58.83	93	Pc	38	08.94	-0.4	
ZST	80.24	318	eP	29	00.80	11.0X	S	30	20.60		0.9s	42.00nm	5.5mb	0.6s	5.80nm	4.8mb					
GEC2	82.55	319	P	29	04.00	2.0	CRM	4.76	136	iPc	29	29.57	0.0	LPF	58.86	44	eP	38	08.80	-0.2	
1.5s	3.38nm	4.1mb	BIM	4.84	139	ePc	29	31.21	0.5	0.8s	13.15nm	5.1mb	LIC	58.95	94	Pc	38	09.80	-0.3		
e	29	14.30	MVM	4.92	137	iPc	29	32.04	0.2	0.6s	28.00nm	5.6mb	GRR	59.03	44	eP	38	10.10	0.0		
e	29	22.20	SLB	5.40	144	eP	29	39.50	1.0	0.5s	38.00nm	5.8mb	KIC	59.18	93	Pc	38	11.62	-0.1		
S.D. = 0.9	on	29	of	33	obs.		SVV	5.72	148	eP	29	43.10	0.1	MFF	59.31	46	eP	38	11.70	-0.4	
& JAN 08, 1994	21h	28m	19.31s				SVB	5.75	148	eP	29	44.00	0.7	FLN	59.33	44	eP	38	12.10	-0.1	
63.163 N	150.556 W						TCE	7.89	161	eP	30	13.50	0.9	EPF	59.37	50	eP	38	13.30	0.6	
DEPTH = 119.1km							TRN	8.05	159	eP	30	16.23	1.5	0.9s	7.70nm	4.8mb					
CENTRAL ALASKA							LLAV	8.06	198	eP	30	14.20	-0.9	LDF	59.54	44	eP	38	13.60	-0.1	
<AEIC>.							MORO	8.26	208	eP	30	16.40	-1.4	LPO	60.08	49	eP	38	17.50	0.1	
													RJF	60.36	48	eP	38	19.10	-0.2		
TRF	0.31	23	iP	28	36.30	1.4	0.9s	77.72nm	5.1mb				0.8s	13.15nm	5.1mb						
KTH	0.42	337	iP	28	36.68	-0.4	0.6s	33.33nm	5.3mb				CAF	60.72	48	eP	38	22.00	0.2		
HUR	0.46	114	eP	28	36.51	-0.7	TUL	32.89	309	iPc	34	45.00	-0.2	0.9s	8.50nm	4.8mb					
CUT	0.77	170	eP	28	38.99	-0.4	OCO	34.01	307	iPc	34	55.50	0.7	TCF	60.90	47	eP	38	22.90	-0.2	
RND	0.81	72	eP	28	39.24	-0.6	SIV	34.15	174	P	34	55.50	-0.6	0.7s	6.15nm	4.7mb					
MCK	0.93	51	eP	28	40.39	-0.5	LPZ	34.49	186	iPc	34	58.90	-0.9	AVF	61.72	46	eP	38	28.10	-0.4	
BWN	1.12	25	eP	28	42.70	-0.1	MEO	34.60	305	iPc	34	58.50	-1.4	SSF	61.84	46	eP	38	28.90	-0.4	
SKT	1.27	201	eP	28	43.84	-0.6	LPB	34.73	186	iPc	35	02.00	0.4	SMF	62.05	46	eP	38	30.30	-0.4	
DHY	1.45	92	eP	28	46.54	-0.1	1.1s	273.42nm	6.1mb X				0.7s	3.75nm	4.5mb						
PWA	1.55	168	P	28	46.70	-0.9	ARE	35.18	192	eP	35	04.50	-0.7	LOR	62.09	46	eP	38	30.40	-0.6	
GHO	1.59	151	eP	28	47.67	-0.5	ACO	35.70	308	iPd	35	09.40	0.2	0.4s	2.25nm	4.5mb					
SML	1.71	142	iP	28	48.61	-1.0	BDFB	37.29	153	iPc	35	23.20	0.4	LBF	62.16	46	eP	38	30.80	-0.7	
SUA	1.71	183	eP	28	49.17	-0.5	BAO	37.30	153	iPd	35	23.30	0.4	DAG	62.89	11	eP	38	25.00	-10.8X	
WRH	1.71	39	eP	28	48.68	-0.9	LTX	37.49	295	(P)	35	23.26	-1.2	0.5s	2.11nm						
PLRM	1.71	157	eP	28	48.17	-1.4	MOCB	39.25	182	P	35	37.50	-2.0	HAU	63.81	45	eP	38	42.50	0.2	
PMR	1.71	157	eP	28	48.38	-1.2	PPD	41.98	162	iPc	36	01.10	-0.4	LMR	63.89	50	eP	38	42.60	-0.3	
NCG	1.92	204	eP	28	51.62	-0.6	PV08	43.44	307	eP	36	14.14	0.5	1.0s	8.80nm	4.6mb					
CCB	1.92	38	eP	28	50.54	-1.6	PV10	43.69	307	eP	36	15.56	0.0	FRF	63.99	50	eP	38	43.40	-0.1	
CGLM	1.98	201	eP	28	53.10	0.0	PV09	43.79	307	(P)	36	16.95	0.5	LPL	64.04	48	eP	38	44.50	0.4	
KNK	2.01	150	eP	28	52.34	-1.0	TUC	43.96	298	eP	36	19.72	2.2	0.6s	4.05nm	4.5mb					
HDA	2.03	50	eP	28	52.65	-0.9	SRU	44.99	307	eP	36	25.35	-0.5	LPG	64.05	48	eP	38	44.70	0.5	
CRP	2.05	202	P	28	53.50	-0.4	RSTA	45.15	160	eP	36	25.90	-1.0	0.6s	3.05nm	4.4mb					
CP2	2.06	203	eP	28	54.03	-0.2	BW06	45.31	313	iPd	36	28.19	-0.2	BSF	64.10	45	eP	38	44.50	0.2	
MDM	2.07	29	eP	28	53.00	-1.1	DAU	45.86	309	eP	36	33.42	0.5	CDF	64.44	44	eP	38	45.90	-0.5	
CKN	2.09	202	eP	28	54.73	0.4	MSU	46.11	306	iPd	36	35.59	0.8	GRB2	67.33	44	eP	39	04.70	-0.1	
BGL	2.09	205	eP	28	54.26	-0.2	ARUT	46.95	305	eP	36	41.66	0.3	0.9s	14.00nm	4.9mb					
CKT	2.12	202	eP	28	54.53	-0.2	DUG	46.97	308	iPd	36	41.64	0.2	CLL	68.12	41	iP	39	08.80	-0.8	
FBA	2.13	34	(P)	28	52.81	-2.0	1.0s	11.70nm	4.7mb				e	39	31.00						
BKG	2.25	202	eP	28	55.55	-0.9	PTI	47.32	312	(P)	36	44.38	0.2	KHC	68.59	44	eP	39	11.50	-1.1	
ILB	2.29	43	eP	28	55.68	-1.2	HVU	47.32	310	iPc	36	44.08	-0.1	1.0s	3.50nm	4.2mb					
IL1	2.29	43	eP	28	55.65	-1.2	GLA	47.43	298	eP	36	46.01	1.0	e	39	37.50					
TOA	2.29	116	P	28	56.50	-0.4	LRM	48.25	316	eP	36	51.90	0.5	GEC2	68.69	44	P	39	12.60	-0.7	
PAX	2.32	92	eP	28	56.81	-0.6	TPNV	49.03	303	eP	36	58.66	1.2	0.5s	1.66nm	4.1mb					
CFI	2.38	145	eP	28	57.04	-1.0	0.9s	23.79nm	5.1mb				e	39	17.10						
NKA	2.45	188	eP	29	02.08	3.1	PLM	49.15	299	iPd	36	59.60	1.1	e	39	39.00					
TTA	2.50	267	P	28	58.40	-1.3	PEC	49.44	299	eP	37	01.59	1.1	PRU	69.16	43	P	39	11.00	-5.1X	
FWL	2.54	155	eP	28	58.68	-1.5	CFA	49.68	184	ePd	37	01.00	-1.2	e	39	42.50					
SLKM	2.67	176	eP	29	01.18	-0.7	KDS	50.44	89	iP	37	08.50	0.3	FBA	70.90	333	eP	39	25.70	-0.6	
KLU	2.74	126	eP	29	01.02	-1.8	BONR	50.78	304	(P)	37	12.31	1.4	0.7s	6.69nm	4.6mb					
BC3	3.99	87	eP	29	17.52	-2.0	ABL	51.21	300	ePc	37	14.79	0.6	IMA	73.25	335	eP	39	39.71	-0.7	
40 obs. associated							BCH	51.94	301	iPd	37	20.32	0.7	0.5s	2.97nm	4.4mb					
JAN 08, 1994	22h	28m	18.91±	0.26s			NEW	52.02	318	iPc	37	19.15	-0.8	NUR	73.84	31	eP	39	44.20	0.6	
18.221 N ± 2.9km	64.335 W ± 2.1km						0.7s	20.28nm	5.2mb				KAF	74.38	29	iP	39	46.90	0.1		
DEPTH = 103.5 ± 3.0 km							4.8mb (30 obs.)						SVW	74.85	330	(P)	39	47.09	-2.5		
VIRGIN ISLANDS													MLR	77.43	46	ePd	40	06.50	2.0		
Felt on St. Thomas. Also felt on													OBN	81.33	35	iPd	40	26.20	1.2		
St. Martin, Leeward Islands.													1.0s	18.00nm	4.8mb						
LPR	1.46	274	P	28	44.80	-0.5	TPNV	49.03	303	eP	36	58.66	1.2	e	40	50.00					
CPD	1.51	263	P	28	46.00	0.1	PLM	49.15	299	iPd	36	59.60	1.1	GKN	125.10	34	PKP	47	10.00	0.6	
SKI	1.76	120	eP	28	48.97	0.0	PEC	49.44	299	eP	37	01.59	1.1	0.6s	13.00nm						
NEV	2.00	122	iPd	28	52.22	0.1	CFA	49.68	184	ePd	37	01.00	-1.2	KKN	125.61	33	PKP	47	10.80	0.2	
CLLP	2.14	267	P	28	54.00	0.1	KDS	50.44	89	iP	37	08.50	0.3	0.6s	10.00nm						
APR	2.29	272	P	28	55.60	-0.3	BONR	50.78	304	(P)	37	12.31	1.4	DMN	125.67	34	PKP	47	11.00	0.3	
LRS	2.39	276	P	28	56.90	-0.4	ABL	51.21	300	ePc	37	14.79	0.6	GUN	125.83	33	PKP	47	11.60	0.4	
MGH	2.51	126	eP	28	59.30	0.3	BCH	51.94	301	iPd	37	20.32	0.7	PKI	125.86	33	PKP	47	11.00	-0.2	
S	29	15.60					NEW	52.02	318	iPc	37	19.15	-0.8	NNT	145.59</						



08d 22h

0.3s 14.00nm  
STK 152.94 235 ePKP 48 05.70 7.4X  
1.0s 4.50nm  
S.D. = 0.8 on 124 of 130 obs.

JAN 08, 1994 22h 48m 07.03± 0.51s  
37.135 N ± 4.4km 3.803 W ± 4.8km  
DEPTH = 16.4 ± 5.8 km  
SPAIN (377)  
mbLg 3.6 (MDD). MD 3.5 (RBA).  
Felt (IV) in the Alhama de  
Granada area.

ECOG 0.24 53 iPc 48 14.31 1.7  
ELOJ 0.28 273 iPc 48 11.91 -1.4  
EGUA 0.36 148 iPc 48 14.46 -0.1  
EMAL 0.62 234 iPc 48 17.12 -2.0  
EPRU 1.16 262 eP 48 28.71 0.5  
EHUE 1.18 54 iPc 48 32.66 4.0X  
ENIJ 1.29 97 iPc 48 32.99 2.7X  
LIJA 1.31 260 iP 48 32.60 2.0  
EHOR 1.34 301 iPc 48 31.45 0.5  
EJIF 1.50 243 eP 48 33.06 -0.2  
ALJ 1.52 253 iP 48 38.30 4.7X  
MOMI 1.74 243 iP 48 39.50 2.7X  
GIBL 1.75 261 iP 48 40.60 3.7X  
EVIA 1.82 34 iPc 48 40.42 2.4X  
PLAT 1.87 238 iP 48 40.70 2.1  
RANB 1.94 256 iP 48 43.80 4.2X  
EMEL 1.95 159 eP 48 39.51 -0.3  
CNIL 1.96 248 iP 48 44.40 4.5X  
CPS 1.96 227 eP 48 45.50 5.6X  
EALH 2.03 68 eP 48 44.76 3.8X  
NKM 2.13 218 ePn 48 41.00 -1.3  
BIT 2.15 227 iP 48 44.50 1.9  
TOU 2.17 179 eP 48 44.00 1.1  
EVAL 2.39 282 eP 48 45.43 -0.6  
PAB 2.45 350 ePn 48 49.00 2.1  
TSY 2.48 226 iP 48 50.00 2.7X  
ACU 3.02 62 eP 48 58.71 3.7X  
FIG 3.22 271 eP 48 57.50 -0.4  
ECHE 3.31 41 eP 49 01.39 2.1  
FAR 3.34 269 eP 48 59.00 -0.5  
EPLA 3.43 329 eP 49 01.96 1.2  
GUD 3.51 356 eP 49 03.42 1.3  
IFR 3.77 197 iPn 49 05.00 -0.9  
MOE 3.86 292 eP 49 06.40 -0.5  
ETOR 3.92 20 eP 49 08.97 1.1  
MTE 4.38 319 iPc 49 14.20 -0.2  
LIS 4.51 292 eP 49 12.00 -4.2X

MVO 4.74 329 iPd 49 19.50 0.0  
AVE 4.84 219 iPn 49 20.50 -0.3  
EROQ 4.93 40 eP 49 23.76 1.6  
EPF 6.69 27 Pn 49 47.60 0.6  
TIO 6.82 206 iPn 49 46.50 -2.5X  
LPO 8.43 25 Pn 50 10.90 -0.4  
CAF 8.95 28 Pn 50 18.10 -0.4  
LSF 9.94 22 Pn 50 30.10 -2.0  
TCF 10.19 24 Pn 50 34.00 -1.5  
BGF 10.64 26 Pn 50 39.90 -1.7  
AVF 11.01 27 Pn 50 44.80 -2.0  
SMF 11.07 28 Pn 50 46.50 -1.1  
PGF 11.23 57 Pn 50 53.30 3.5X  
SSF 11.30 26 Pn 50 48.90 -1.8  
S.D. = 1.4 on 36 of 51 obs.  
\* JAN 08, 1994 23h 49m 44.42± 0.91s  
30.350 N ±10.6km 138.542 E ±11.6km  
DEPTH = 447.6 ± 11.8 km  
3.9mb ( 6 obs.)  
SOUTH OF HONSHU, JAPAN (211)  
CHJJ 5.70 4 eP 51 16.80 0.4  
MAT 6.18 358 eP 51 21.00 -0.5  
CHTO 37.62 262 eP 56 20.90 0.2  
GUN 45.73 281 P 57 26.40 0.5  
PKI 46.22 280 P 57 29.40 -0.3  
KKN 46.27 281 P 57 30.00 0.0  
DMN 46.47 281 P 57 31.40 -0.1  
GKN 46.76 281 P 57 33.60 0.0  
WB2 50.16 185 iPc 57 58.80 -0.3  
WRA 50.16 185 P 57 59.30 0.2  
YKA 70.80 28 P 00 15.90 0.3  
HFS 79.16 335 eP 01 01.80 -0.4  
S.D. = 0.4 on 12 of 12 obs.  
\* JAN 09, 1994 01h 53m 49.23s  
42.283 N 121.949 W  
DEPTH = 6.5km  
OREGON ( 32)  
<SEA-P>. MD 3.2 (SEA). ML 3.2  
(GS), 3.3 (BRK). Felt at Klamath  
Falls.  
LAB 0.09 260 Pc 53 51.75 0.2  
VRC 0.21 285 Pc 53 53.92 0.4  
HAMO 0.21 184 Pd 53 53.86 0.1  
LASM 0.74 158 P 54 02.85 -1.1  
YBH 0.79 226 eP 54 03.28 -1.7  
BBOR 0.81 318 Pc 54 04.21 -1.2  
LMPM 0.81 191 P 54 04.49 -0.9  
LBFM 0.94 177 eP 54 06.58 -1.0  
LGBM 0.95 191 P 54 07.03 -0.9  
DBO 1.27 312 P 54 12.54 -0.6  
LBKM 1.31 204 P 54 12.02 -1.9  
HSO 1.50 326 Pd 54 16.03 -0.7  
KOMM 1.51 229 P 54 15.55 -1.3  
LHCM 1.51 167 P 54 16.62 -0.3  
NCOR 1.54 22 Pd 54 17.61 0.2  
HBO 1.58 350 Pd 54 18.03 0.1  
KRMM 1.65 243 P 54 20.87 2.0  
WDC 1.76 195 eP 54 19.67 -0.7  
LMEM 1.77 171 eP 54 20.80 0.1

TCO 1.84 8 Pd 54 21.70 -0.1  
LDBM 1.85 176 P 54 22.55 0.7  
KHBH 1.88 211 P 54 24.10 1.8  
KRPM 1.92 235 P 54 24.81 2.1  
MIN 1.95 172 eP 54 23.85 0.5  
FBO 2.08 347 P 54 24.78 -0.3  
RNO 2.09 322 P 54 26.64 1.4  
FHC 2.13 227 eP 54 25.89 0.1  
LCMM 2.16 171 P 54 31.30 4.9  
KBRM 2.16 225 P 54 30.37 4.1  
KPPM 2.21 209 P 54 29.10 2.0  
GMO 2.27 18 P 54 29.17 1.2  
VIPM 2.43 23 P 54 30.04 -0.1  
KMPM 2.48 222 (P) 54 30.38 -0.4  
SSOR 2.60 352 P 54 32.31 -0.2  
KSMR 2.68 219 P 54 33.56 -0.2  
KIPM 2.73 206 P 54 39.34 4.9  
ORV 2.75 173 (P) 54 36.22 1.6  
VBEM 2.79 5 P 54 38.50 3.2  
GT2 2.88 355 P 54 37.15 0.6  
TDH 3.01 2 P 54 41.61 3.2  
VFP 3.05 6 P 54 43.30 4.3  
AARM 3.08 167 P 54 37.22 -2.2  
VLL 3.19 3 P 54 44.04 3.2  
VGB 3.34 14 (P) 54 45.20 2.2  
KMOR 3.53 342 P 54 46.95 1.2  
MTMW 3.75 357 P 54 49.52 0.7  
ASR 3.88 4 P 54 53.30 2.6  
SHW 3.91 357 (P) 55 00.90 9.7  
CMB 4.41 164 (P) 54 57.88 -0.3  
LON 4.47 1 eP 55 00.11 1.1  
RMW 5.18 1 (P) 55 10.38 1.3  
YKA 20.71 10 P 58 30.50 -1.9  
0.5s 0.20nm 2.7mb  
52 obs. associated

\* JAN 09, 1994 02h 56m 57.59± 1.51s  
10.926 S ±22.0km 116.151 E ±11.2km  
DEPTH = 33.0km (normal)  
5.1mb ( 10 obs.)

SOUTH OF SUMBAWA, INDONESIA (291)

KKM 16.86 0 ePd 00 53.50 0.6  
IPM 21.54 315 ePd 01 46.00 -0.3  
BDT 32.72 329 eP 03 29.00 -0.5  
CHTO 34.08 330 eP 03 41.40 0.1  
GYA 38.29 346 iPd 04 17.80 0.8  
CD2 43.26 344 iPd 04 58.00 0.1  
XAN 45.24 352 P 05 12.80 -0.9  
GBA 45.49 301 P 05 16.00 0.1  
LSA 47.03 330 iPc 05 29.00 0.5  
GUN 48.47 323 P 05 39.60 -0.1  
PKI 48.50 323 P 05 39.00 -0.8  
DMN 48.71 322 P 05 41.20 -0.2  
KKN 48.74 323 P 05 41.10 -0.4  
CHJJ 51.45 24 eP 06 01.60 -0.3  
MTMJ 51.47 22 eP 06 01.90 -0.2  
MAT 51.58 23 iPc 06 02.00 -0.9  
KAKJ 52.06 25 eP 06 07.20 0.7  
WMQ 60.33 337 P 07 06.30 0.6  
MAIO 71.03 314 eP 08 16.00 1.4  
S.D. = 0.7 on 20 of 20 obs.

? JAN 09, 1994 02h 57m 17.24± 5.00s  
11.934 S ±45.0km 116.760 E ±29.5km  
DEPTH = 33.0km (normal)  
4.4mb ( 3 obs.)

SOUTH OF SUMBAWA, INDONESIA (291)

MBL 9.64 163 eP 59 36.10 -0.6  
MEEK 14.73 173 iPc 00 44.80 -0.3  
WARB 16.96 148 eP 01 15.00 1.3



09d 03h

MRWA	17.21	182	eS	04 30.50	
			eP	01 15.00	-1.8
BAL	18.58	180	eS	04 27.00	
			eP	01 34.00	0.2
WB2	18.68	117	eS	05 03.00	
			eP	01 33.70	-1.4
	0.4s	3.90nm		4.0mb	
			i	02 46.60	
			eS	05 07.50	
COOL	19.29	169	eP	01 44.00	1.7
			eS	05 16.00	
KLB	19.59	177	eP	01 46.50	0.9
			eS	05 28.50	
MUN	19.96	181	eP	01 54.50	5.0X
			eS	05 34.50	
ASPA	20.04	128	iPc	01 51.20	0.7
	0.7s	14.60nm		4.4mb	
			eS	05 42.00	
NWAO	20.90	179	eP	01 58.90	-0.4
			eS	05 54.90	
					S.D. = 1.3 on 10 of 11 obs.
-----					
& JAN 09, 1994 03h 45m 55.28s					
42.279 N 121.917 W					
DEPTH = 7.5km					
OREGON (32)					
<SEA-P>. MD 2.9 (SEA). ML 3.2 (GS).					
LAB	0.11	264	P	45 58.06	0.0
HAMO	0.21	191	Pd	46 00.02	0.1
			S	46 03.62	
VRC	0.23	285	Pc	46 00.26	0.2
			S	46 04.26	
LASM	0.73	159	P	46 09.00	-0.9
LMPM	0.81	193	P	46 10.60	-0.8
BBOR	0.83	317	Pd	46 10.53	-1.1
LBFM	0.93	179	iPd	46 12.75	-0.7
LGBM	0.96	193	P	46 13.18	-0.7
DBO	1.29	311	P	46 19.09	-0.4
LBKM	1.32	205	P	46 18.63	-1.4
NCOR	1.53	22	P	46 24.10	0.9
HBO	1.59	349	P	46 24.44	0.4
LMEM	1.76	171	eP	46 27.40	0.9
FHC	2.14	227	(P)	46 29.36	-2.5
ORV	2.74	173	(P)	46 41.30	0.9
					15 obs. associated
-----					
? JAN 09, 1994 04h 22m 53.68± 2.58s					
11.013 N ±11.8km 61.961 W ±35.6km					
DEPTH = 33.0km (normal)					
WINDWARD ISLANDS (95)					
MD 2.8 (TRN).					
TCE	0.37	147	eP	23 02.57	0.1
			eS	23 13.45	
TRN	0.66	123	eP	23 06.52	0.0
			eS	23 19.95	
TPP	0.85	144	eP	23 09.13	-0.1
			eS	23 22.50	
TBH	1.02	121	eP	23 11.73	0.0
			eS	23 30.96	
GRW	1.18	14	eP	23 13.97	0.0
			eS	23 33.15	
					S.D. = 0.1 on 5 of 5 obs.
-----					
? JAN 09, 1994 04h 42m 30.03± 8.48s					
42.489 N ±67.5km 0.682 E ±22.2km					
DEPTH = 10.0km (geophysicist)					
PYRENEES (378)					
SALF	0.46	54	Pg	42 38.93	-0.5
EPF	0.60	335	Pg	42 41.30	-0.8
			Sg	42 48.00	
LESF	0.70	39	Pg	42 50.24	6.4X
GRBF	0.72	61	Pg	42 43.84	-0.5
LSFF	1.01	63	Pg	42 49.54	0.4
LPO	2.22	9	Pg	43 08.90	1.4
			Sg	43 35.70	
					S.D. = 1.3 on 5 of 6 obs.
-----					
* JAN 09, 1994 05h 06m 02.69± 0.76s					
24.413 S ± 6.7km 67.088 W ±12.9km					
DEPTH = 181.2 ± 10.7 km					
3.9mb ( 1 obs.)					
CHILE-ARGENTINA BORDER REGION (127)					

MOCB	3.42	23	P	06 59.00	1.5
RTPR	5.89	175	eP	07 28.80	-0.2
CFA	7.24	188	e(P)	07 46.60	-0.3
LPB	7.90	353	P	07 56.00	0.0
			S	09 28.00	
LPBZ	8.14	353	Pc	07 58.80	-0.6
			S	09 24.40	
ARE	8.92	332	e(P)	08 14.00	4.7X
			eS	09 43.50	
STV	10.10	35	P	08 23.00	-1.5
RSTA	16.43	95	eP	09 45.30	0.8
BAO	19.94	68	eP	10 22.50	-0.1
LIC	67.64	72	P	16 42.00	-0.4
KIC	67.96	72	P	16 44.00	-0.3
YKA	94.48	340	P	19 03.90	1.2
	0.5s	0.40nm		3.9mb	
					S.D. = 1.0 on 11 of 12 obs.
-----					
JAN 09, 1994 05h 28m 12.22± 0.29s					
44.515 N ± 2.1km 7.287 E ± 3.3km					
DEPTH = 11.6 ± 3.1 km					
NORTHERN ITALY (545)					
ML 2.8 (GEN), 2.7 (LDG).					
PZZ	0.13	266	Pc	28 16.00	0.3
			S	28 17.88	
STV	0.27	174	P	28 18.45	0.3
			S	28 22.19	
BHB	0.33	357	Pd	28 19.25	0.2
			S	28 23.46	
ROB	0.47	118	P	28 22.40	0.5
			S	28 29.09	
TOUF	0.50	183	Pg	28 22.43	-0.1
AUTN	0.53	169	Pg	28 22.77	-0.3
RRL	0.54	319	Pc	28 23.06	-0.2
			S	28 30.51	
SAOF	0.56	160	Pg	28 23.32	-0.3
			Sg	28 30.99	
MVIF	0.63	189	Pg	28 24.53	-0.2
			Sg	28 33.16	
AURF	0.63	177	Pg	28 24.51	-0.2
			Sg	28 33.39	
RSP	0.64	358	P	28 24.07	-0.8
			S	28 32.21	
SBF	0.66	171	Pg	28 25.50	0.2
			Sg	28 34.20	
FIN	0.73	115	P	28 26.37	0.0
			S	28 36.10	
IMI	0.74	144	P	28 26.64	-0.1
			S	28 36.65	
CALN	0.81	201	Pg	28 27.97	0.0
PCP	0.90	88	Pc	28 30.06	0.7
			S	28 42.28	
LSD	0.95	354	P	28 30.74	0.5
			S	28 43.33	
LPG	1.05	339	Pg	28 32.30	0.2
			Sg	28 45.80	
FRF	1.06	206	Pg	28 32.30	0.3
			Sg	28 45.70	
LPL	1.08	339	Pg	28 33.00	0.5
			Sg	28 45.60	
LRG	1.25	213	Pg	28 36.20	0.8
			Sg	28 51.80	
LMR	1.31	206	Pg	28 36.60	0.3
			Sg	28 53.40	
PGF	2.33	147	Pn	28 49.60	-1.5
			Sn	29 15.00	
BGF	3.73	305	Pn	29 09.90	-1.0
					S.D. = 0.6 on 24 of 24 obs.
-----					
JAN 09, 1994 06h 49m 17.64± 0.92s					
45.590 N ± 8.0km 3.624 E ± 9.9km					
DEPTH = 10.0km (geophysicist)					
FRANCE (538)					
ML 1.8 (LDG).					
COLF	0.09	145	Pg	49 20.06	-0.2
MAF	0.97	311	Pg	49 36.00	-0.1
			Sg	49 49.40	
SMF	1.07	8	Pg	49 37.00	-0.7
			Sg	49 50.70	
BGF	1.11	331	Pg	49 37.90	-0.6
			Sg	49 53.70	
TCF	1.21	306	Pg	49 40.60	0.4
			Sg	49 56.70	
AVF	1.22	351	Pg	49 39.70	-0.6
			Sg	49 55.80	

SSF	1.47	357	Pg	49 44.60	0.4
			Sg	50 03.70	
LOR	1.69	5	Pg	49 48.70	1.4
			Sg	50 09.80	
					S.D. = 0.8 on 8 of 8 obs.
-----					
? JAN 09, 1994 07h 27m 21.42± 3.82s					
33.406 N ±75.8km 137.305 E ±34.6km					
DEPTH = 400.0km (geophysicist)					
NEAR S. COAST OF HONSHU, JAPAN (230)					
WKYJ	1.64	300	P	28 15.40	-0.4
TSRJ	2.39	333	P	28 20.00	-0.3
TKSJ	2.78	283	P	28 23.60	0.4
CHJJ	2.98	27	P	28 25.70	0.8
			eS	29 12.10	
KAKJ	3.66	39	P	28 30.20	-0.5
			S	29 18.80	
					S.D. = 0.8 on 5 of 5 obs.
-----					
? JAN 09, 1994 07h 31m 05.67± 0.94s					
39.707 N ± 8.0km 29.440 E ± 9.1km					
DEPTH = 10.0km (geophysicist)					
TURKEY (366)					
ML 2.5 (ISK).					
IZI	0.63	2	iPg	31 18.90	0.5
			eSg	31 29.40	
DST	0.64	261	ePg	31 18.30	-0.2
			eSg	31 28.70	
ALT	0.83	141	ePg	31 22.00	0.2
EYL	1.02	32	ePn	31 24.50	-0.5
					S.D. = 0.8 on 4 of 4 obs.
-----					
? JAN 09, 1994 07h 58m 07.09± 1.06s					
40.253 N ±13.0km 28.731 E ± 8.2km					
DEPTH = 10.0km (geophysicist)					
TURKEY (366)					
ML 2.6 (ISK).					
IZI	0.57	81	iPg	58 19.90	1.1
			eSg	58 29.40	
DST	0.65	187	ePg	58 20.00	-0.1
			eSg	58 29.70	
EDC	0.67	278	ePg	58 20.50	0.1
EYL	1.13	74	ePn	58 27.30	-1.1
					S.D. = 1.6 on 4 of 4 obs.
-----					
JAN 09, 1994 08h 37m 56.10± 0.81s					
39.421 N ± 9.3km 26.141 E ± 7.2km					
DEPTH = 5.0km (geophysicist)					
TURKEY (366)					
ML 3.1 (THE).					
IZM	1.35	139	ePn	38 20.40	-1.0
ALN	1.48	357	ePb	38 24.56	1.2
			eSb	38 46.12	
EDC	1.62	55	ePn	38 26.00	0.7
OUR	1.90	299	iPb	38 29.69	0.3
			eSb	38 51.88	
DST	1.93	84	iPn	38 31.00	1.0
PAIG	1.97	286	iPbd	38 30.06	-0.3
			eSb	38 55.72	
KDZ	2.29	346	iP	38 34.00	-1.2
CIN	2.37	139	ePn	38 42.80	6.5X
			iSg	39 13.80	
RZN	2.51	335	iP	38 37.00	-1.4
SRS	2.58	312	iPn	38 40.61	1.3
IZI	2.72	69	ePn	38 45.00	3.6X
MMB	2.84	320	eP	38 49.00	6.0X
HRT	3.04	62	eP	38 49.00	3.1X
JMB	3.06	6	eP	38 53.00	7.0X
GRG	3.25	299	ePn	38 50.04	1.3
VAY	3.32	306	ePn	38 57.50	7.7X
KKB	3.37	317	eP	38 53.00	2.5X
PGB	3.46	335	eP	38 51.00	-0



09d 08h

DST 0.97 61 ePn 57 03.70 0.1  
 EDC 1.23 12 ePn 57 08.00 0.0  
 IZI 1.92 51 ePn 57 18.00 -0.2  
 S.D. = 0.2 on 4 of 4 obs.

\* JAN 09, 1994 09h 25m 29.63± 1.02s  
 2.773 N ±19.7km 96.342 E ±12.5km  
 DEPTH = 33.0km (normal)  
 4.4mb ( 4 obs.)

NORTHERN SUMATERA, INDONESIA (706)

IPM 5.01 69 ePc 26 45.40 0.9  
 0.4s 25.10nm 5.0mb  
 SNG 6.10 44 eP 27 04.50 4.5X  
 GBA 21.56 301 P 30 18.00 -0.5  
 HYB 22.73 311 eP 30 31.50 1.3  
 BJI 41.22 23 eP 33 11.50 -1.5  
 1.2s 8.00nm 4.3mb  
 WRA 43.60 123 P 33 33.00 0.2  
 0.8s 0.70nm 3.5mb  
 WB2 43.61 123 iPd 33 32.40 -0.4  
 0.3s 2.60nm 4.5mb  
 i 33 39.50  
 S.D. = 1.3 on 6 of 7 obs.

? JAN 09, 1994 09h 30m 46.88± 1.25s  
 39.202 N ±10.5km 27.503 E ±17.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.8 (ISK).

IZM 0.82 193 ePg 31 02.90 0.0  
 eSg 31 15.40  
 DST 0.96 65 ePn 31 05.60 0.4  
 EDC 1.18 14 ePn 31 09.00 0.2  
 IZI 1.89 53 ePn 31 19.00 -0.6  
 S.D. = 0.8 on 4 of 4 obs.

% JAN 09, 1994 09h 37m 32.69± 1.10s  
 32.951 S ± 9.5km 71.092 W ± 9.2km  
 DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

MD 3.6 (SAN).

ROCH 0.07 107 iP+ 37 38.90 0.2  
 iS 37 42.94  
 PEL 0.39 119 iP+ 37 41.72 0.0  
 iS 37 47.92  
 JACH 0.50 58 iP 37 43.37 0.0  
 iS 37 50.94  
 LCCH 0.66 217 iPd 37 45.36 -0.2  
 iS 37 54.10  
 TACH 0.71 170 iP 37 45.90 -0.4  
 iS 37 55.25  
 FCH 0.77 119 iP+ 37 47.19 -0.2  
 iS 37 57.39  
 PCH 0.82 144 iP+ 37 47.52 -0.5  
 iS 37 58.24  
 LNV 1.04 195 iPd 37 50.84 -0.1  
 iS 38 03.88  
 CACH 1.23 161 iPd 37 54.91 1.1  
 iS 38 11.55  
 S.D. = 0.5 on 9 of 9 obs.

? JAN 09, 1994 11h 30m 45.79± 6.42s  
 35.264 S ±58.6km 71.041 W ±15.0km  
 DEPTH = 100.3 ± 12.6 km

CENTRAL CHILE (136)

MD 4.0 (SAN).

CACH 1.20 18 iPd 31 09.12 0.2  
 iS 31 25.30  
 LNV 1.34 347 iPd 31 10.21 -0.2  
 iS 31 26.72  
 TACH 1.61 3 iPd 31 13.52 -0.3  
 iS 31 32.21  
 PCH 1.70 15 iP 31 15.08 0.1  
 iS 31 36.02  
 SAN 1.83 10 iP 31 16.83 0.1  
 LCCH 1.84 346 iP+ 31 16.17 -0.6  
 iS 31 37.97  
 FCH 2.03 18 iP+ 31 19.76 0.2  
 iS 31 44.98  
 PEL 2.14 8 iP+ 31 20.78 0.1  
 iS 31 45.65  
 ROCH 2.29 1 iP 31 22.57 -0.3  
 iS 31 49.18

IHA 2.29 347 e(P) 31 24.00 1.3  
 i(S) 31 48.90  
 JACH 2.60 8 iPd 31 26.64 -0.4  
 iS 31 56.15  
 CFA 4.33 33 e(P) 31 50.80 0.1  
 LPB 18.84 9 P 35 05.00 4.0X  
 LPAZ 19.08 9 P 35 03.70 -0.1  
 S.D. = 0.5 on 13 of 14 obs.

JAN 09, 1994 11h 39m 47.98± 1.00s  
 41.985 N ± 8.3km 19.213 E ± 7.0km  
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 2.5 (TTG).

ULC 0.04 129 iPgC 39 48.82 -1.2  
 iSg 39 49.97  
 BDV 0.41 316 iPgC 39 56.61 0.2  
 iSg 40 03.61  
 TTG 0.45 5 iPgC 39 56.97 -0.1  
 iSg 40 04.26  
 HCY 0.70 311 iPgD 40 01.64 -0.2  
 iSg 40 13.05  
 PVY 0.83 43 iPgC 40 03.29 -0.8  
 iSg 40 15.76  
 NKY 0.84 349 iPgC 40 04.23 -0.1  
 iSg 40 17.72  
 IVA 1.02 30 iPgC 40 07.11 -0.2  
 iSg 40 22.55  
 BRY 1.04 332 iPgC 40 07.79 0.1  
 iSg 40 24.26  
 PLE 1.35 6 iPgC 40 13.47 0.6  
 iSg 40 34.26  
 SKO 1.66 90 ePn 40 19.00 1.7  
 S.D. = 0.9 on 10 of 10 obs.

JAN 09, 1994 12h 04m 08.84± 0.53s  
 36.277 N ± 8.9km 71.089 E ± 8.9km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 7 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

QUE 6.99 211 eP 05 51.50 -0.2  
 eS 08 05.00  
 NDI 9.17 144 eP 06 23.00 1.2  
 eS 08 23.00  
 GKN 14.12 122 P 07 29.30 0.5  
 0.8s 36.00nm 5.1mb  
 DMN 14.69 122 P 07 36.60 0.2  
 KKN 14.70 121 P 07 36.40 0.0  
 0.6s 29.00nm 4.9mb  
 PKI 14.93 122 P 07 39.40 -0.1  
 0.6s 32.00nm 4.8mb  
 GUN 15.04 119 P 07 41.20 0.2  
 HYB 19.92 159 eP 08 39.00 -1.7  
 GBA 23.28 164 P 09 16.00 1.5  
 KAF 37.85 327 eP 11 24.40 0.5  
 NUR 38.05 324 eP 11 26.50 1.0  
 HFS 43.29 322 eP 12 08.80 0.1  
 0.4s 4.30nm 4.6mb  
 YKA 81.47 3 P 16 22.80 -0.8  
 0.5s 0.60nm 3.9mb  
 WRA 81.81 122 P 16 25.00 -1.1  
 0.6s 0.70nm 3.9mb  
 WB2 81.82 122 iPd 16 24.70 -1.4  
 0.4s 2.50nm 4.6mb  
 S.D. = 1.0 on 15 of 15 obs.

% JAN 09, 1994 12h 28m 58.31± 3.47s  
 39.623 N ±26.2km 29.555 E ±19.3km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

DST 0.72 269 ePg 29 12.40 -0.1  
 eSg 29 21.50  
 IZI 0.72 355 iPg 29 12.20 -0.3  
 eSg 29 20.70  
 EYL 1.05 26 ePn 29 18.20 0.0  
 EDC 1.49 300 ePn 29 25.00 -0.1  
 CTT 1.75 331 iPn 29 29.20 0.3  
 S.D. = 0.3 on 5 of 5 obs.

\* JAN 09, 1994 12h 29m 12.72± 2.41s  
 14.297 N ±25.6km 93.856 W ± 9.8km  
 DEPTH = 47.3 ± 13.9 km  
 4.7mb ( 3 obs.)

NEAR COAST OF CHIAPAS, MEXICO ( 69)

TPX 1.66 68 iP 29 39.00 -0.8  
 iS 29 59.00  
 SCX 2.70 26 iP 29 55.50 0.9  
 iS 30 27.00  
 OXX 3.91 315 iP 30 12.00 -0.1  
 PFM 6.59 317 iP 30 50.00 0.0  
 UNM 7.15 315 (P) 31 03.00 5.4X  
 MRX 8.84 308 iP 31 21.00 0.2  
 TUL 21.59 356 iPc 34 01.50 1.0  
 ACO 22.80 349 iPc 34 11.00 -1.5  
 LRM 35.12 337 eP 36 04.30 0.3  
 YKA 50.34 348 P 38 05.50 -1.1  
 0.7s 6.00nm 4.7mb  
 DAG 72.77 13 iPd 40 46.50 8.9X  
 0.7s 6.85nm 4.7mb  
 LKO 86.02 81 P 41 51.19 1.0  
 0.7s 4.00nm 4.8mb  
 WRA 133.72 256 PKP 48 32.30 5.4X  
 0.6s 0.30nm  
 GBA 150.97 18 PKP 49 04.00 7.2X  
 S.D. = 1.1 on 10 of 14 obs.

& JAN 09, 1994 12h 30m 06.55s

59.577 N 139.105 W

DEPTH = 15.9km

SOUTHEASTERN ALASKA ( 19)

<AEIC>. ML 3.0 (AEIC).

PNL 0.17 302 iP 30 10.99 -0.1  
 YKU 0.32 266 P 30 12.80 -0.6  
 S 30 18.10  
 BCPM 0.46 325 eP 30 14.97 -0.9  
 eS 30 21.04  
 PCA 0.78 312 eP 30 19.60 -1.8  
 CHX 1.13 296 eP 30 25.60 -1.7  
 YAH 1.54 302 eP 30 32.43 -1.2  
 CTGM 1.78 322 eP 30 35.79 -1.2  
 eS 30 58.20  
 CYK 1.78 288 eP 30 35.99 -0.8  
 eS 30 57.42  
 SNH 1.98 289 eP 30 38.10 -1.7  
 eS 31 02.29  
 BALM 2.18 314 eP 30 41.31 -1.4  
 eS 31 06.84  
 TGL 2.21 304 eP 30 41.66 -1.5  
 HMT 2.70 289 eP 30 47.78 -2.4  
 RAGM 2.92 289 eP 30 51.90 -1.2  
 GLB 2.99 311 eP 30 52.43 -1.7  
 eS 31 26.90  
 SIT 3.22 140 eP 30 54.68 -2.7  
 CVA 3.47 289 eP 30 57.58 -3.3  
 HIN 3.81 286 eP 31 04.10 -1.7  
 KLU 3.88 303 eP 31 06.02 -0.8  
 VLZ 3.91 297 eP 31 05.95 -1.3  
 TOA 4.29 309 eP 31 10.59 -2.1  
 PMR 5.34 297 (P) 31 26.46 -1.0  
 SLKM 5.65 284 (P) 31 27.79 -4.1  
 22 obs. associated

\* JAN 09, 1994 12h 39m 22.26± 1.20s

46.095 N ±13.8km 12.477 E ± 9.8km

DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.3 (VIE).

TRI 0.98 113 e(Pg) 39 39.90 -0.9  
 e(Sg) 39 52.70  
 VOY 0.99 93 ePnd 39 40.20 -0.9  
 eSn 39 53.90  
 e 39 55.00  
 KBA 1.15 31 iPgC 39 44.10 0.2  
 i 39 45.20  
 iSg 40 02.00  
 OGA 1.27 308 ePg 39 45.90 0.0  
 WTTA 1.30 334 iPgC 39 46.00 -0.5  
 i 39 46.70  
 iSg 39 47.60  
 WATA 1.39 334 iPgD 39 48.70 0.9  
 iSg 40 11.20  
 SQTA 1.42 323 iPgC 39 47.70 -0.6  
 iSg 40 09.90  
 VBY 2.03 106 e(Pn) 39 58.70 1.8  
 S.D. = 1.1 on 8 of 8 obs.



\* JAN 09, 1994 12h 43m 38.32± 0.81s  
16.913 S ±14.9km 69.590 W ± 9.7km  
DEPTH = 169.5 ± 6.7 km  
4.9mb ( 6 obs.)  
PERU-BOLIVIA BORDER REGION (118)

LPB 1.48 75 iPd 44 11.90 1.9  
LPAZ 1.53 66 iPc 44 11.90 1.1  
ARE 1.88 284 iP 44 12.00 -2.0  
MOCB 5.71 140 P 45 03.30 0.7  
SIV 8.22 85 P 45 33.80 -1.9  
RSTA 20.69 115 eP 48 04.10 -2.5  
BAO 20.77 90 eP 48 06.60 -1.0  
i 48 08.00  
i 48 10.00  
i 48 12.50  
i 48 33.50

CACB 22.08 106 iPd 48 20.70 0.2  
CDCB 23.80 102 iPd 48 37.80 0.8  
KDS 63.81 66 iPc 53 54.50 -0.4  
LIC 67.81 76 Pc 54 19.99 -0.4  
0.9s 34.00nm 5.1mb  
TIC 67.97 75 P 54 21.08 -0.3  
1.2s 27.50nm 4.9mb  
KIC 68.13 76 Pc 54 22.04 -0.3  
0.5s 31.50nm 5.4mb  
LKO 68.51 72 Pc 54 24.28 -0.5  
0.6s 21.00nm 5.1mb

NVL 71.33 160 (P) 54 42.00 1.1  
YKA 86.67 341 P 56 04.60 1.1  
0.8s 4.50nm 4.4mb  
GEC2 98.23 42 P 56 57.90 0.6  
0.7s 0.68nm 4.2mb  
WB2 136.47 214 iPKPc 02 42.50 0.0  
0.6s 3.70nm  
WRA 136.48 214 PKP 02 43.00 0.5  
0.6s 1.20nm

GBA 148.04 91 PKP 03 03.90 1.3  
HYB 149.57 84 ePKP 03 10.50 5.5X  
GKN 153.81 61 PKP 03 00.00 -11.1X  
S.D. = 1.3 on 20 of 22 obs.

JAN 09, 1994 12h 48m 32.52± 0.36s  
38.835 N ± 3.4km 27.906 E ± 2.9km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 3.7 (ISK).

IZM 0.67 229 ePg 48 45.70 -0.1  
eSg 48 55.70  
DST 0.95 36 iPn 48 49.60 -1.1  
CIN 1.24 173 iPg 48 55.00 -0.6  
iSg 49 09.00  
KHL 1.37 111 iPn 48 58.40 0.7  
EDC 1.51 359 iPn 49 00.00 0.4  
ALT 1.73 82 ePn 49 03.00 0.1  
IZI 1.93 38 iPn 49 06.40 0.7  
GBZT 2.28 31 ePn 49 15.00 4.2X  
iSg 49 45.90

CTT 2.34 10 ePn 49 10.70 -1.0  
GPA 2.36 51 iPn 49 12.50 0.6  
ISK 2.40 21 ePn 49 12.20 -0.2  
HRT 2.40 34 ePn 49 12.20 -0.4  
ITU 2.42 20 iPnd 49 18.00 5.2X  
iSg 49 51.00

EYL 2.45 44 ePn 49 13.20 -0.1  
ALN 2.51 326 iPd 49 14.26 0.3  
eS 49 52.26  
DMK 2.99 358 iPn 49 20.40 -0.3  
OUR 3.38 298 iPc 49 26.62 0.2  
KDZ 3.40 327 iP 49 27.00 0.4  
PAIG 3.45 290 iPc 49 27.66 0.3  
DIM 3.69 331 iP 49 30.00 -0.7  
RZN 3.75 320 iP 49 32.00 0.1  
JMB 3.77 345 eP 49 34.00 2.1  
SRS 4.02 306 iPd 49 35.26 -0.2  
PLD 4.08 324 iP 49 36.00 -0.2  
MMB 4.22 312 iP 49 38.00 -0.3  
LIT 4.38 288 eP 49 40.30 -0.3  
PGB 4.67 324 iP 49 44.00 -0.8  
GRG 4.73 298 iP 49 46.66 1.0  
KKB 4.77 311 iP 49 46.00 -0.2  
PVL 4.79 337 iP 49 46.00 -0.4  
VTS 5.18 318 eP 49 52.00 0.0  
MLR 6.81 348 eP 50 15.00 0.0

VRI 7.08 353 eP 50 19.00 0.3  
S.D. = 0.7 on 31 of 33 obs.

% JAN 09, 1994 13h 09m 32.30± 0.83s  
16.561 N ± 6.2km 120.736 E ± 17.7km  
DEPTH = 10.0km (geophysicist)  
LUZON, PHILIPPINE ISLANDS (249)

SZP 1.02 345 iPc 09 51.20 -0.4  
CVP 1.54 42 iPd 09 59.70 -0.1  
PIP 1.76 356 iPd 10 03.50 0.5  
QVP 1.94 172 eP 10 04.50 -1.2  
PGP 3.05 176 ePc 10 22.50 1.0  
GQP 3.11 148 eP 10 22.50 0.1  
eS 11 02.00

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

JAN 09, 1994 13h 57m 26.65± 0.86s  
25.829 N ± 5.4km 124.014 E ± 9.1km  
DEPTH = 228.6 ± 8.1 km  
4.4mb ( 13 obs.)  
NORTHEAST OF TAIWAN (245)

SSE 5.81 335 eP 58 52.50 0.0  
CVP 8.34 195 eP 59 25.00 -0.2  
TIY 15.39 323 eP 00 59.80 6.1X  
XAN 15.42 306 P 01 00.00 5.9X  
1.0s 22.00nm 4.5mb  
pp 01 05.50  
BJI 15.61 337 eP 00 57.00 0.7  
1.0s 6.00nm 4.0mb  
HHC 18.21 328 eP 01 25.10 0.0  
0.9s 20.00nm 4.6mb  
BTO 18.78 325 eP 01 30.70 -0.4  
KMI 19.22 273 eP 01 36.00 0.2  
1.0s 10.00nm 4.3mb  
LZH 20.06 305 Pd 01 44.00 -0.1  
1.0s 22.00nm 4.6mb

GTA 24.38 310 eP 02 24.50 -1.1  
1.0s 10.00nm 4.3mb  
GUN 33.99 282 P 03 51.40 0.3  
PKI 34.44 282 P 03 54.40 -0.5  
WMQ 34.45 311 eP 03 44.40 -10.1X  
KKK 34.53 282 P 03 55.40 -0.1  
0.8s 31.00nm 5.0mb  
DMN 34.70 282 P 03 57.00 0.0  
0.8s 21.00nm 4.8mb  
GKN 35.08 283 P 03 59.80 -0.2  
0.6s 16.00nm 4.8mb

HYB 42.91 268 eP 05 05.00 0.3  
GBA 45.28 264 P 05 24.00 0.5  
WB2 46.59 167 iPd 05 33.60 -0.1  
0.5s 4.60nm 4.1mb  
MAIO 55.35 298 eP 06 40.00 0.8  
KAF 71.00 330 iP 08 20.50 -0.4  
0.3s 0.90nm 4.0mb  
HFS 77.38 331 eP 08 56.70 -0.7  
0.5s 2.10nm 4.2mb  
YKA 80.45 24 P 09 14.10 0.3  
0.8s 0.50nm 3.3mb X  
GEC2 83.19 321 P 09 29.00 0.6  
1.1s 2.20nm 3.8mb

S.D. = 0.5 on 21 of 24 obs.

? JAN 09, 1994 14h 29m 54.59± 3.94s  
40.793 N ± 21.6km 30.153 E ± 27.2km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

EYL 0.23 179 ePg 29 59.10 -0.4  
HRT 0.37 275 ePg 30 01.20 -1.0  
IZI 0.69 229 iPg 30 09.10 0.8  
eSg 30 21.80  
CTT 1.35 286 iPn 30 20.10 0.7  
S.D. = 1.5 on 4 of 4 obs.

? JAN 09, 1994 14h 32m 47.35± 0.92s  
39.664 N ± 7.9km 29.441 E ± 8.8km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

DST 0.63 265 ePg 33 00.00 -0.1  
eSg 33 10.40  
IZI 0.67 2 iPg 33 01.00 0.2

eSg 33 10.60  
ALT 0.80 139 ePg 33 03.00 0.1  
eSg 33 15.10  
EYL 1.06 31 ePn 33 07.10 -0.2  
S.D. = 0.3 on 4 of 4 obs.

? JAN 09, 1994 14h 36m 39.61± 0.95s  
39.658 N ± 8.0km 29.458 E ± 9.0km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

DST 0.64 266 ePg 36 52.40 -0.1  
eSg 37 03.40  
IZI 0.68 1 iPg 36 53.60 0.5  
eSg 37 04.10  
ALT 0.79 140 ePg 36 55.10 0.1  
eSg 37 07.10  
EYL 1.05 30 ePn 36 59.10 -0.5  
S.D. = 0.7 on 4 of 4 obs.

% JAN 09, 1994 14h 47m 18.00± 0.99s  
39.699 N ± 8.3km 29.505 E ± 10.2km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

IZI 0.64 358 iPg 47 29.00 -1.8  
DST 0.68 262 ePg 47 31.00 -0.6  
eSg 47 41.50  
ALT 0.80 144 ePg 47 33.60 0.1  
EYL 1.00 30 ePn 47 37.10 0.1  
ISK 1.41 346 ePn 47 44.60 1.0  
CTT 1.66 331 iPn 47 48.60 1.3  
S.D. = 1.5 on 6 of 6 obs.

? JAN 09, 1994 15h 13m 17.08± 2.54s  
7.106 S ± 14.1km 156.013 E ± 14.5km  
DEPTH = 256.2 ± 22.0 km  
4.8mb ( 7 obs.)  
SOLOMON ISLANDS (193)

PMG 9.06 255 eP 15 25.00 0.4  
DZM 17.96 147 iPc 17 10.60 -0.7  
ARMA 23.55 190 iPd 18 07.20 0.9  
0.7s 10.00nm 4.4mb  
WB2 24.58 237 iPd 18 15.40 -0.4  
0.5s 19.00nm 4.9mb  
ASPA 26.87 230 iPc 18 35.50 -1.0  
0.3s 14.10nm 5.0mb  
e 18 40.50

FORT 35.21 224 eP 19 50.00 1.1  
MBL 37.65 244 eP 20 08.90 -0.6  
GUN 76.04 301 P 24 38.80 0.1  
0.5s 9.00nm 4.8mb  
PKI 76.35 300 P 24 40.00 -0.4  
KKN 76.52 301 P 24 40.80 -0.4  
0.6s 8.00nm 4.6mb  
DMN 76.62 300 P 24 42.00 0.2  
0.6s 11.00nm 4.8mb  
GKN 77.12 301 P 24 44.40 0.0  
0.6s 13.00nm 4.8mb  
GEC2 127.67 329 PKP 31 54.50 0.9  
0.4s 0.67nm

S.D. = 0.8 on 13 of 13 obs.

& JAN 09, 1994 15h 27m 30.97s  
42.276 N 121.934 W  
DEPTH = 4.9km  
OREGON (32)  
<SEA-P>. MD 2.7 (SEA). ML 3.1 (GS).

LAB 0.10 265 Pc 27 33.51 0.3  
HAMO 0.21 188 P 27 35.50 0.2  
S 27 38.97  
VRC 0.22 286 Pc 27 35.70 0.3  
S 27 39.29

LASM 0.73 158 P 27 44.52 -1.0  
LMPM 0.81 192 P 27 46.31 -0.9  
LBFM 0.93 178 eP 27 48.25 -1.1  
eS 28 01.96  
LGBM 0.95 192 P 27 48.77 -1.0  
DBO 1.28 312 P 27 54.51 -0.7  
S 28 12.45  
LBKM 1.31 205 P 27 54.38 -1.4  
HSO 1.51 326 P 27 58.42 -0.4



09d 15h

KOMM 1.51 229 P 27 57.36 -1.5  
 NCOR 1.54 22 P 27 59.12 -0.2  
 HBO 1.59 350 P 27 59.83 -0.2  
 LMEM 1.76 171 eP 28 02.41 -0.1  
 TCO 1.85 7 P 28 04.00 0.2  
 FBO 2.09 347 P 28 07.81 0.7  
 RNO 2.10 322 P 28 08.42 1.1  
 FHC 2.13 227 (P) 28 06.54 -1.2  
 GMO 2.28 18 P 28 11.28 1.3  
 BPO 2.38 4 P 28 12.72 1.2  
 VIPM 2.43 23 P 28 13.39 1.3  
 KMPM 2.48 222 (P) 28 09.60 -3.2  
 ORV 2.74 173 (P) 28 18.04 1.6  
 VGB 3.34 14 (P) 28 24.00 -1.0

24 obs. associated

% JAN 09, 1994 16h 01m 36.14± 1.54s  
 36.660 N ±15.3km 2.823 W ± 6.8km  
 DEPTH = 5.0km (geophysicist)

STRAIT OF GIBRALTAR (385)  
 mbLg 3.1 (MDD).

ENIJ 0.58 58 iPc 01 47.65 -0.2  
 EGUA 0.62 286 iPc 01 47.07 -1.5  
 ECOG 0.86 316 iPc 01 52.30 -0.9  
 EHUE 1.17 9 iPd 01 59.33 0.9  
 ELOJ 1.17 295 iPc 01 58.58 0.0  
 EALH 1.64 43 iPd 02 04.55 -1.1  
 EPRU 1.96 280 eP 02 10.85 0.5  
 EVIA 1.99 7 iPc 02 13.28 2.4X  
 EJIF 2.14 265 eP 02 14.00 1.0  
 EHOR 2.26 302 iPd 02 14.44 -0.2  
 PAB 3.12 338 ePn 02 28.50 1.5  
 i(Sg) 03 24.00

S.D. = 1.1 on 10 of 11 obs.

\* JAN 09, 1994 16h 13m 31.03± 0.78s  
 30.704 N ±10.4km 138.188 E ±18.5km  
 DEPTH = 33.0km (normal)  
 4.8mb ( 9 obs.)  
 SOUTH OF HONSHU, JAPAN (211)

MAT 5.82 0 (P) 14 57.00 -0.4  
 0.7s 12.33nm 4.6mb  
 GUN 45.36 280 P 21 47.50 -1.1  
 0.3s 13.00nm 5.3mb  
 PKI 45.86 280 P 21 51.60 -0.9  
 0.4s 9.00nm 5.0mb  
 KKN 45.91 280 P 21 53.80 1.1  
 0.4s 21.00nm 5.4mb  
 DMN 46.11 280 P 21 55.30 1.0  
 GKN 46.39 281 P 22 01.50 5.1X  
 0.4s 7.00nm 5.0mb  
 WB2 50.49 185 iPd 22 26.90 -1.1  
 0.3s 2.30nm 4.7mb  
 WRA 50.49 185 P 22 27.60 -0.4  
 0.5s 0.90nm 4.0mb  
 ASPA 54.22 185 iPd 22 56.60 0.8  
 0.5s 6.00nm 4.9mb  
 YKA 70.63 28 P 24 30.70 -14.1X  
 0.7s 0.40nm  
 KAF 72.70 333 eP 24 58.80 1.6  
 NUR 74.26 332 eP 25 06.20 0.9  
 HFS 78.71 335 eP 25 29.40 -1.0  
 0.4s 0.70nm 4.0mb  
 LPAZ 152.01 65 PKP 33 19.90 1.0  
 LPB 152.18 66 ePKP 33 22.00 3.1X  
 S.D. = 1.2 on 12 of 15 obs.

JAN 09, 1994 16h 18m 22.35± 0.86s  
 32.417 S ± 6.6km 71.034 W ±10.3km  
 DEPTH = 70.0km (geophysicist)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 4.0 (SAN).

JACH 0.46 125 iP+ 18 34.63 -0.4  
 is 18 45.16  
 ROCH 0.55 178 iPd 18 36.16 0.0

PEL 0.78 158 iP+ 18 38.58 0.1  
 is 18 51.76  
 SAN 1.08 163 eP 18 42.29 0.1  
 is 18 58.13  
 FCH 1.10 146 iP+ 18 42.85 0.1  
 is 18 59.88  
 LCCH 1.15 203 eP 18 43.15 0.2  
 TACH 1.24 176 iP+ 18 44.25 0.1  
 is 19 02.14  
 PCH 1.28 160 iP+ 18 44.74 -0.1  
 is 19 02.18  
 LNV 1.57 192 iP+ 18 48.12 -0.5  
 CACH 1.73 168 iP+ 18 51.37 0.3  
 is 19 15.09  
 RTCB 2.11 65 e(P) 18 56.00 -0.3  
 S 19 22.00  
 RTCV 2.19 76 eP 18 57.00 -0.3  
 S 19 24.50  
 RTLL 2.44 64 e(P) 19 02.00 1.3  
 S 19 29.00  
 CFA 2.51 72 e(P) 19 01.00 -0.7  
 RTRS 2.61 31 eP 19 03.00 -0.1  
 S.D. = 0.5 on 15 of 15 obs.

% JAN 09, 1994 17h 01m 31.97± 1.83s  
 29.536 S ± 9.2km 30.299 E ±17.0km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.7 (PRE).

NWL 1.83 350 eP 02 03.60 -0.9  
 S 02 29.20  
 SEK 2.64 297 eP 02 16.60 0.5  
 S 02 45.20  
 PRY 3.60 316 eP 02 29.90 0.2  
 S 03 14.20  
 BLF 3.61 276 eP 02 27.60 -2.3  
 S 03 04.70  
 BFT 3.84 357 eP 02 33.00 -0.3  
 S 03 17.00  
 BFS 4.06 309 eP 02 36.60 0.3  
 S 03 24.20  
 SLR 4.19 334 eP 02 39.10 1.1  
 BOSA 4.37 281 eP 02 33.60 -6.9X  
 S 03 20.70  
 KSR 4.74 320 eP 02 46.00 0.0  
 S 03 30.50  
 GRM 4.93 219 eP 02 48.90 0.4  
 S 03 41.40  
 SWZ 4.97 297 eP 02 49.90 0.7  
 S 03 46.20  
 CIR 8.56 8 iPn 03 18.00 -21.6X  
 isn 04 50.00  
 isg 05 40.00  
 SUR 8.63 248 eP 03 41.00 0.4  
 S 06 17.00  
 WIN 13.74 297 eP 04 46.00 -4.0X  
 S 07 26.00  
 S.D. = 1.0 on 11 of 14 obs.

? JAN 09, 1994 17h 39m 50.36± 0.96s  
 8.774 N ±34.4km 77.175 W ± 6.9km  
 DEPTH = 10.0km (geophysicist)  
 4.0mb ( 1 obs.)

PANAMA-COLOMBIA BORDER REGION ( 82)

UPA 2.34 275 iP 40 28.77 -0.7  
 is 41 00.38  
 ECO 2.56 283 iP 40 33.31 0.7  
 eS 41 01.10  
 DVD 5.23 267 eP 41 24.32 13.9X  
 eS 42 27.57  
 BRU 5.32 271 eP 41 15.79 3.5X  
 SDV 6.47 89 ePn 41 27.60 -0.6  
 eSn 42 38.90  
 TOV 7.36 82 eP 41 41.10 0.6  
 eS 43 04.00  
 CEOS 8.74 88 eP 41 55.40 -4.5X  
 YKA 60.09 341 P 49 59.50 -0.4  
 0.5s 0.70nm 4.0mb  
 WRA 147.58 247 PKP 59 35.00 0.3  
 0.5s 0.60nm  
 S.D. = 0.8 on 6 of 9 obs.

JAN 09, 1994 17h 50m 37.44± 0.65s  
 51.052 N ± 6.4km 5.879 E ± 4.7km

DEPTH = 30.5 ± 5.2 km  
 THE NETHERLANDS (540)  
 ML 2.2 (BNS).

ENN 0.29 174 iPg 50 44.53 -0.2  
 0.3s 8.50nm  
 eSg 50 49.50  
 MEM 0.45 170 iPc 50 47.40 0.3  
 is 50 54.81  
 KLL 0.49 146 ePg 50 47.60 -0.2  
 eSg 50 56.30  
 STB 0.76 127 ePg 50 52.40 0.5  
 0.4s 48.00nm  
 isg 51 02.30  
 BNS 0.82 96 iPg 50 52.20 -0.6  
 1.4s 119.00nm  
 isg 51 02.40  
 WTS 1.11 31 e(Pg) 50 57.00 0.1  
 0.5s 44.40nm  
 eSg 51 08.80  
 SNF 1.15 243 iPc 50 59.22 1.8  
 DOU 1.26 221 iPd 51 01.30 2.3  
 is 51 19.60  
 CDF 2.79 161 Pn 51 21.90 0.8  
 Pg 51 30.00  
 Sg 52 07.20  
 HAU 3.06 174 Pn 51 25.20 0.3  
 Pg 51 35.50  
 Sg 52 13.20  
 BSF 3.28 169 Pn 51 28.30 0.3  
 Sg 52 20.50  
 LOR 4.01 200 Pn 51 38.40 0.0  
 Pg 51 53.50  
 Sg 52 44.20  
 LBF 4.26 198 Pn 51 41.50 -0.4  
 Sg 52 51.50  
 SSF 4.29 202 Pn 51 41.80 -0.4  
 Sg 52 53.50  
 AVF 4.58 202 Pn 51 45.80 -0.6  
 LDF 4.60 240 Pn 51 46.50 -0.1  
 Sn 52 36.10  
 SMF 4.61 198 Pn 51 46.50 -0.4  
 FLN 4.71 243 Pn 51 47.80 -0.3  
 Sn 52 40.10  
 BGF 4.92 205 Pn 51 50.50 -0.7  
 Sg 53 13.40  
 GRR 5.12 241 Pn 51 53.40 -0.6  
 Sn 52 49.20  
 TCF 5.35 208 Pn 51 56.30 -1.0  
 LPF 5.42 239 Pn 51 57.40 -0.9  
 S.D. = 0.9 on 22 of 22 obs.

JAN 09, 1994 18h 13m 45.40± 0.75s  
 40.669 N ± 7.5km 29.920 E ± 6.3km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

EYL 0.21 120 ePg 13 50.00 0.0  
 eSg 13 53.00  
 HRT 0.24 309 iPg 13 51.00 0.4  
 GBZT 0.38 289 ePg 13 52.20 -1.0  
 isg 13 57.60  
 IZI 0.48 226 iPg 13 55.00 -0.1  
 isg 14 02.00  
 GPA 0.48 142 ePg 13 55.00 -0.2  
 eSg 14 03.30  
 ISK 0.76 302 iPg 14 00.00 -0.3  
 CTT 1.23 293 iPn 14 09.00 0.8  
 DST 1.45 223 ePn 14 12.20 0.5  
 S.D. = 0.6 on 8 of 8 obs.

JAN 09, 1994 18h 15m 06.50± 0.68s  
 40.673 N ± 6.9km 29.898 E ± 5.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).

EYL 0.22 118 iPg 15 11.50 0.1  
 GBZT 0.36 289 ePg 15 13.30 -0.7  
 isg 15 18.70  
 IZI 0.47 224 iPg 15 15.70 -0.3  
 isg 15 22.50  
 GPA 0.50 141 iPg 15 16.30 -0.3  
 ISK 0.75 302 iPg 15 21.00 -0.1  
 isg 15 31.00  
 ITU 0.80 303 iPg 15 22.00 0.0



09d 18h

CTT 1.21 294 iSg 15 33.00  
DST 1.44 223 ePn 15 33.20 0.5  
EDC 1.59 259 ePn 15 35.00 0.3  
S.D. = 0.4 on 9 of 9 obs.

JAN 09, 1994 18h 29m 41.79± 1.04s  
1.344 N ± 4.6km 127.136 E ± 9.8km  
DEPTH = 117.7 ± 12.0 km  
5.0mb ( 10 obs.)

HALMAHERA, INDONESIA (267)

BIP 6.89 353 eP 31 21.50 -0.3  
eS 32 32.00  
MTN 14.64 164 eP 33 04.50 0.1  
0.3s 81.00nm 5.5mb  
KNA 17.06 175 eP 33 35.20 0.6  
WB2 22.31 162 iPd 34 30.60 0.2  
0.3s 74.60nm 5.5mb  
i 34 37.50

ASPA 25.72 166 iPc 35 02.10 -0.8  
0.3s 16.90nm 5.1mb  
eS 39 29.90  
iScP 41 07.10

IPM 26.27 278 ePc 35 08.10 0.0  
MRWA 32.21 198 eP 36 00.50 -0.2  
CHTO 32.64 304 eP 36 04.90 0.2

BAL 33.29 197 eP 36 10.00 -0.2  
MUN 34.72 196 eP 36 22.00 -0.4  
NWAO 35.35 194 eP 36 28.00 0.3

STK 35.77 159 eP 36 30.90 -0.4  
0.5s 10.00nm 4.9mb  
XAN 36.72 334 iPd 36 38.80 -0.5  
0.7s 9.90nm 4.8mb  
pP 36 45.50 23kmX

TIY 38.64 341 eP 36 55.60 0.2  
ARMA 39.27 146 iPd 37 01.50 0.7  
0.4s 19.00nm 5.2mb

BJI 39.79 347 eP 37 04.00 -0.7  
1.0s 6.00nm 4.3mb  
LZH 40.76 331 eP 37 14.00 1.0  
1.5s 21.00nm 4.7mb  
sP 37 19.50

GUN 47.47 308 P 38 07.50 0.3  
0.5s 19.00nm 5.1mb  
PKI 47.70 307 P 38 08.80 -0.2

KKN 47.89 307 P 38 10.50 0.1  
DMN 47.95 307 P 38 11.20 0.3  
GKN 48.50 307 P 38 15.30 0.4

HYB 50.33 292 eP 38 29.00 0.1  
GBA 50.64 286 Pd 38 30.40 -0.8  
0.5s 4.00nm 4.6mb

POO 54.94 292 eP 39 07.00 3.8X  
S.D. = 0.5 on 24 of 25 obs.

? JAN 09, 1994 18h 36m 36.35± 1.25s  
40.665 N ± 12.5km 29.900 E ± 7.7km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.5 (ISK).

EYL 0.22 117 ePg 36 41.20 0.0  
IZI 0.46 225 iPg 36 46.00 0.2  
iSg 36 53.00

CTT 1.21 294 ePn 36 59.00 0.0  
DST 1.44 223 ePn 37 02.20 -0.3  
S.D. = 0.4 on 4 of 4 obs.

JAN 09, 1994 19h 03m 13.18± 0.30s  
42.278 N ± 2.7km 121.929 W ± 3.6km  
DEPTH = 5.0km (geophysicist)

3.9mb ( 1 obs.)  
OREGON ( 32)  
ML 4.2 (GS), 4.1 (BRK). Felt (V)  
at Klamath Falls, (IV) at  
Midland and (III) at Medford.  
Also felt (III) at Dorris,  
California.

LASM 0.73 159 P 03 27.03 -0.7  
YBH 0.80 227 ePc 03 27.66 -1.6  
eS 03 38.41

LMPM 0.81 192 P 03 28.62 -0.9  
LBFM 0.93 178 iPd 03 30.67 -0.9  
LGBM 0.95 192 P 03 31.20 -0.8

LBKM 1.31 205 P 03 36.88 -1.2  
LHCM 1.50 168 P 03 40.75 -0.2

KOMM 1.52 229 P 03 39.52 -1.6  
WDC 1.76 195 eP 03 43.55 -0.9  
LMEM 1.76 171 eP 03 44.21 -0.5  
LCFM 1.82 170 P 03 46.54 0.9

LDBM 1.85 177 P 03 46.22 0.3  
LSLM 1.87 171 P 03 47.15 1.0  
KHBM 1.89 211 P 03 47.82 1.3

LHKM 1.91 165 P 03 47.63 0.8  
KRPM 1.93 235 P 03 50.30 3.3X  
MIN 1.95 173 eP 03 48.02 0.6  
eS 04 14.40

KHMM 1.95 225 P 03 48.20 0.8  
ARC 2.13 230 eP 03 52.86 3.0X  
eS 04 21.06

FHC 2.14 227 eP 03 50.52 0.5  
LCMM 2.15 172 P 03 52.84 2.4X  
KBRM 2.17 225 P 03 50.95 0.4

KPPM 2.21 210 P 03 51.18 -0.1  
KCRM 2.33 218 P 03 54.95 2.0X  
KMPM 2.49 222 eP 03 55.01 0.0  
eS 04 39.12

GAS 2.69 193 P 03 59.27 1.3  
KJUM 2.71 222 P 03 58.34 0.1  
ORV 2.74 173 eP 03 59.61 1.0

VGB 3.34 14 ePn 04 07.38 0.2  
eS 04 57.10  
SHW 3.92 357 ePn 04 15.60 0.1

HMR 4.12 179 (P) 04 30.47 12.3X  
BMW 4.30 348 ePn 04 22.40 1.6X  
KVN 4.34 137 (P) 04 22.51 0.9

CMB 4.40 164 ePn 04 23.09 0.9  
LON 4.47 1 eP 04 24.24 1.0  
ARN 4.93 176 (P) 04 30.82 1.0

BONR 5.14 146 (Pn) 04 33.94 1.1  
MEMM 5.15 153 eP 04 36.96 4.2X  
MMPM 5.17 153 (P) 04 32.27 -1.1

RMW 5.18 1 (Pn) 04 34.49 1.2  
GMW 5.30 354 ePn 04 35.18 0.2  
MTUM 5.56 151 (P) 04 42.53 3.7X

DPW 6.18 24 eP 04 46.20 -1.2  
HVV 6.83 91 ePg 05 12.91 16.2X  
MCMT 7.07 66 eP 05 01.40 1.3

PTI 7.08 82 P 05 21.10 20.9X  
DUG 7.18 104 (Pn) 05 01.96 0.4  
HBMT 7.58 59 eP 05 06.90 -0.3

LRM 7.69 59 eP 05 07.90 -0.9  
BGMT 7.74 64 eP 05 11.40 1.9X  
ARUT 7.91 122 ePn 05 10.47 -1.2

MSU 8.34 114 ePn 05 17.70 -0.1  
PV09 10.46 107 (P) 05 46.46 -0.8  
eSg 08 48.37

PV10 10.58 107 (P) 05 47.79 -1.0  
YKA 20.71 10 P 07 55.00 -1.6  
0.8s 5.30nm 3.9mb

S.D. = 0.9 on 44 of 55 obs.

& JAN 09, 1994 19h 06m 05.44s  
42.265 N 121.907 W  
DEPTH = 0.3km

OREGON ( 32)  
<SEA-P>. MD 2.9 (SEA). ML 3.0  
(GS).

LAB 0.12 271 P 06 08.78 1.0  
VRC 0.24 287 P 06 11.26 1.0  
LASM 0.71 160 P 06 20.36 0.8

BBOR 0.84 318 P 06 21.92 -0.4  
LBFM 0.92 179 eP 06 24.00 0.3  
eS 06 36.72

LGBM 0.94 193 P 06 24.06 -0.2  
DBO 1.30 311 P 06 30.13 -0.4  
LBKM 1.31 206 P 06 29.55 -1.1

KOMM 1.52 230 P 06 33.18 -0.8  
HSO 1.53 326 P 06 33.93 -0.2  
NCOR 1.54 21 P 06 34.95 0.5

HBO 1.61 349 P 06 35.37 0.1  
LMEM 1.74 172 eP 06 37.36 0.1  
WDC 1.75 196 eP 06 36.59 -0.6

RNO 2.12 321 P 06 43.95 1.2  
FHC 2.14 228 (P) 06 40.44 -2.4  
BPO 2.39 4 P 06 49.06 2.4

ORV 2.72 173 (P) 06 51.70 0.5  
18 obs. associated

JAN 09, 1994 19h 43m 11.84± 0.80s  
41.741 N ± 7.6km 19.540 E ± 6.2km  
DEPTH = 5.0km (geophysicist)

ALBANIA (391)  
ML 2.5 (TTG).

ULC 0.31 316 iPg 43 18.26 0.1  
iSg 43 23.76

TTG 0.72 343 iPg 43 25.71 -0.5  
iSg 43 37.15

BDV 0.76 316 iPg 43 26.77 -0.3  
iSg 43 38.74

PVY 0.91 21 iPg 43 29.12 -0.7  
iSg 43 42.83

HCY 1.05 313 iPg 43 32.09 0.0  
iSg 43 48.32

OHR 1.14 123 ePn 43 32.80 -0.8  
NKY 1.14 340 iPg 43 33.74 0.0  
iSg 43 51.35

IVA 1.16 13 iPg 43 33.79 -0.3  
iSg 43 51.17

BRY 1.37 328 iPg 43 37.97 0.2  
iSg 43 59.00

SKO 1.44 80 iPn 43 39.30 0.7  
PLE 1.59 356 iPnc 43 41.94 1.1  
iSn 44 05.70

VAY 2.31 99 ePn 43 51.60 0.4  
S.D. = 0.6 on 12 of 12 obs.

JAN 09, 1994 19h 47m 18.00± 0.57s  
40.673 N ± 5.5km 29.916 E ± 5.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.4 (ISK).

EYL 0.21 120 ePg 47 22.70 0.0  
HRT 0.24 308 iPg 47 23.00 -0.2

GBZT 0.38 288 ePg 47 25.00 -0.7  
iSg 47 30.40

IZI 0.48 225 iPg 47 27.70 0.0  
eSg 47 33.70

GPA 0.49 142 iPg 47 27.40 -0.5  
ISK 0.76 301 iPg 47 32.50 -0.3  
iSg 47 42.20

ITU 0.81 303 iPg 47 33.50 -0.2  
iSg 47 50.00

CTT 1.22 293 iPg 47 40.90 0.2  
DST 1.45 223 iPn 47 44.20 -0.1

EDC 1.60 259 iPn 47 46.00 -0.4  
ALT 1.62 175 ePn 47 47.30 0.5

DMK 1.99 306 ePn 47 53.00 0.9  
KGT 2.00 265 ePn 47 53.00 0.8

ALN 2.95 276 iP 48 13.10 7.4X  
CIN 3.38 205 eP 48 23.00 11.1X

S.D. = 0.5 on 13 of 15 obs.

JAN 09, 1994 20h 19m 23.95± 0.75s  
40.699 N ± 8.3km 29.933 E ± 7.0km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 3.4 (ISK).

EYL 0.22 128 iPg 19 28.90 0.5  
HRT 0.24 302 iPg 19 29.00 0.2

GBZT 0.38 284 ePg 19 31.20 -0.4  
iSg 19 36.50

GPA 0.50 145 iPg 19 33.10 -0.9  
ISK 0.76 299 iPg 19 38.90 -0.2  
iSg 19 48.90

CTT 1.22 292 iPg 19 46.90 -0.3  
DST 1.48 223 iPn 19 52.10 0.8

EDC 1.62 258 iPn 19 53.00 -0.2  
ALT 1.65 175 ePn 19 53.80 0.1

DMK 1.99 305 ePn 19 59.00 0.4  
KGT 2.02 264 iPn 19 59.00 0.0

ALN 2.96 275 iP 20 17.70 5.3X  
CIN 3.41 205 eP 20 28.80 9.9X  
S.D. = 0.5 on 11 of 13 obs.

? JAN 09, 1994 20h 40m 34.60± 2.20s  
1.445 N ± 29.6km 128.579 E ± 54.6km  
DEPTH = 88.1 ± 28.6 km  
4.4mb ( 4 obs.)

HALMAHERA, INDONESIA (267)

DAV 6.36 332 eP 42 07.50 0.0



16.88	231	eP	32	53.00	-2.2
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SLKM	33.26	48 eP	35	33.23	-1.3
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JCW	52.80	57 P	38	12.04	-0.3
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09d 21h

BMW	53.04	59	ePc	38	14.26	0.1	TPMT	60.54	55	iPc	39	08.20	0.5	LEM	68.68	231	e(P)d	40	16.00	15.4X
SVE	53.21	317	iPd	38	13.10	-2.1	GDH	60.78	11	iPd	39	07.30	-1.3	GRO	69.26	312	eP	40	03.00	-0.6
	1.1s	140.00nm			5.9mb			1.0s	200.00nm			6.2mb		TUC	69.47	64	ePc	40	06.10	0.9
		e		39	17.00	297kmX			e		39	43.00	150kmX		1.0s	29.22nm			5.2mb	
RMW	53.28	57	ePc	38	15.94	0.0	MMPM	60.92	65	eP	39	10.43	0.0			ePP	40	06.21		
CHTO	53.43	257	iPd	38	17.45	0.2	MEMM	60.93	65	ePc	39	10.76	0.7	PYA	70.02	314	iP	40	07.00	-1.3
FMW	53.66	58	P	38	18.71	-0.2	NDI	60.97	281	iPd	39	09.50	-1.0	ALQ	70.15	60	iPc	40	09.48	0.0
LON	53.68	58	ePc	38	18.50	-0.4	BONR	61.13	64	iPc	39	11.84	0.0		0.9s	30.73nm			5.2mb	
FRU	53.72	296	iP	38	18.00	-1.2	MRCM	61.19	65	eP	39	12.28	0.1			ePcP	40	25.96	203kmX	
	1.4s	290.00nm			6.1mb		SNG	61.19	246	eP	39	13.30	1.3			e	40	57.50		
		i		38	35.00	66km	PHAM	61.24	67	eP	39	12.07	-0.2	POO	70.21	276	iPc	40	15.70	5.8X
SHW	53.76	59	eP	38	20.29	0.7	MTUM	61.36	65	ePc	39	13.16	-0.2		1.0s	370.00nm			6.3mb	
MDG	54.05	191	eP	38	21.00	-0.7	PTI	61.36	57	iPc	39	14.15	0.9			iS	49	21.70		
ASR	54.15	59	P	38	22.19	-0.2			e		39	30.49	61km	WB5	70.39	200	iPc	40	09.60	-1.1
WTV	54.18	56	P	38	21.63	-0.9	TNP	61.69	64	ePc	39	15.45	-0.1			i	40	14.50		
EBG	54.29	57	P	38	22.93	-0.4		0.8s	78.47nm			5.9mb				iP	40	26.70	63km	
ARU	54.37	317	iPd	38	22.70	-1.0	HVU	61.85	58	ePc	39	16.66	0.2	WB2	70.45	200	iPd	40	10.10	-1.0
	0.6s	180.00nm			6.3mb		KAF	62.26	335	iP	39	16.50	-2.2		0.7s	47.40nm			5.5mb	
		e		38	37.00	53kmX		0.7s	61.40nm			5.8mb				iP	40	27.20	63km	
		e		38	48.00		ABL	62.61	68	ePc	39	21.12	-0.5	MTA	70.92	312	iPc+	40	14.20	0.5
		e		39	27.00		DUG	62.88	59	iPc	39	23.37	0.1		0.8s	90.00nm			5.8mb	
SSOR	54.41	60	P	38	24.23	-0.1		1.0s	109.17nm			5.9mb				e	42	49.00		
SAW	54.48	56	P	38	23.85	-0.9	BW06	62.98	55	iPc	39	23.99	0.0	DZM	71.04	168	iPc	40	15.00	0.3
BDT	54.54	255	eP	38	20.00	-5.3X		1.1s	123.77nm			5.9mb		BSD	71.34	337	iPc	40	15.70	-0.3
VBEM	54.79	60	P	38	26.98	-0.2	IPM	63.00	244	ePd	39	24.50	0.4		0.8s	115.00nm			5.9mb	
KSH	54.89	292	Pc	38	27.40	-0.6	TPNV	63.02	64	ePc	39	23.95	-0.3	GBA	71.37	270	Pd	40	16.00	-0.8
	1.5s	340.00nm			6.2mb			0.8s	46.14nm			5.6mb		MUD	71.51	341	iPd	40	16.50	-0.5
PCT	54.91	251	ePc	38	29.00	0.9	MOS	63.54	326	eP	39	22.00	-5.2X		1.2s	186.00nm			5.9mb	
WAH2	54.94	57	P	38	27.36	-0.7			e		39	43.00	82kmX			i	40	22.00	18kmX	
DAG	54.95	358	iPc	38	24.80	-2.9X	DAU	63.62	58	iPc	39	28.73	0.4	SOC	71.93	316	eP	40	19.00	-0.8
	0.6s	18.00nm			5.3mb		KGM	63.70	240	eP	39	29.50	0.7			e	40	42.00	88kmX	
		iP		39	00.80	156kmX	GSC	63.78	66	iPc	39	28.77	-0.5	ANN	72.01	318	eP	40	19.00	-1.2
		iS		39	29.50				e		39	43.47	53kmX		2.0s	180.00nm			5.7mb	
DBO	54.97	62	P	38	28.52	0.1	SSK	63.97	67	ePc	39	29.59	-1.0	TAB	72.86	308	iPc	40	26.70	1.1
NST	54.98	253	eP	38	28.50	-0.1	NUR	64.04	335	iP	39	28.40	-2.0	ACO	72.93	54	iPc	40	25.30	-0.5
VGB	54.99	59	iPc	38	28.23	-0.2		0.5s	50.80nm			5.7mb		KIS	73.79	325	iP+	40	30.00	-0.5
DPW	55.04	55	iPc	38	28.19	-0.7	ARUT	64.12	62	ePc	39	31.38	-0.1			eS	49	49.00		
CROR	55.18	59	P	38	29.77	-0.1			eP		39	47.91	61km			e	50	36.00		
LAT	55.30	189	ePc	38	30.50	-0.4	EMUT	64.27	58	ePc	39	32.50	0.0	KOD	73.81	267	eP	40	32.00	0.5
NEW	55.40	54	ePd	38	30.79	-0.6	MSU	64.37	60	iPc	39	33.41	0.2	ASPA	74.15	200	iPc	40	33.10	0.2
	1.1s	72.05nm			5.6mb		OBN	64.40	326	iPd	39	30.50	-2.3		0.7s	30.40nm			5.3mb	
JBO	55.55	58	P	38	31.68	-0.8		1.0s	53.00nm			5.5mb		EDI	74.30	347	iPc	40	33.90	0.5
VIPM	55.67	60	P	38	33.14	-0.4			i		39	55.00	97kmX		1.0s	271.00nm			6.1mb	
GUN	55.78	275	P	38	33.80	-1.0			eP		48	12.00		WMOK	74.59	55	iPc	40	35.33	-0.2
FHC	55.92	65	eP	38	36.20	1.0			eS						0.8s	55.95nm			5.5mb	
	0.9s	102.19nm			5.9mb		PEC	64.51	67	iPc	39	32.86	-1.1			eP	40	54.32	70km	
KEV	56.02	341	eP	38	34.31	-1.2		1.0s	106.78nm			5.8mb		MEO	74.66	55	iPd	40	35.40	-0.5
YBH	56.12	63	ePc	38	37.46	0.8	SRU	64.91	59	iPc	39	36.56	-0.1	OCO	74.71	54	iPc	40	37.70	1.6
	1.1s	110.00nm			5.8mb		RSSD	65.00	51	iPc	39	36.90	-0.3	UZH	74.80	329	iPc	40	36.00	-0.4
LNOR	56.18	57	P	38	36.17	-0.9		1.1s	247.57nm			6.1mb			1.1s	70.00nm			5.5mb	
KKN	56.26	275	P	38	37.10	-1.0	PLM	65.06	67	ePc	39	36.88	-0.8			i	40	48.00	40kmX	
PKI	56.32	275	P	38	37.40	-1.2	AKU	66.03	357	iP	39	43.10	0.1			i	40	51.00		
DMN	56.49	275	P	38	39.30	-0.5		1.0s	64.00nm			5.5mb				e	41	00.00		
GKN	56.54	276	P	38	39.20	-0.8	PV09	66.12	59	iPc	39	44.37	-0.1	EKA	74.87	347	Pc	40	36.95	0.3
LBPM	56.84	63	iPc	38	42.37	0.3	MOL	66.21	344	eP	39	42.44	-1.8		0.5s	110.90nm			6.0mb	
WDC	56.92	64	iPc	38	42.45	0.1	PV10	66.26	59	iPc	39	45.49	0.1	ESK	74.89	347	iPc	40	37.05	0.2
	0.9s	44.89nm			5.6mb		PV08	66.34	58	iPc	39	45.76	-0.2	FNO	74.95	54	iPd	40	37.00	-0.5
LMEM	57.53	64	eP	38	47.08	0.2	UPP	66.46	338	iP	39	44.20	-1.7	SPC	75.00	331	eP	40	36.60	-1.2
MIN	57.63	64	ePc	38	46.90	-0.6	GLA	66.51	66	iPc	39	46.58	-0.2	OKC	75.10	332	P	40	38.50	0.4
	1.1s	70.00nm			5.7mb		QUE	66.53	289	eP	39	46.50	-0.6			e	40	45.40	22kmX	
SDF	57.99	339	eP	38	48.00	-1.5	MAIO	66.85	299	iPd	39	48.70	-0.2	DPC	75.16	334	ePd	40	37.72	-0.8
PMG	58.00	189	ePc	38	48.65	-1.3			eS		48	40.00			1.2s	177.37nm			5.9mb	
ORV	58.18	65	ePc	38	50.43	-0.8	NB2	66.89	342	P	39	46.50	-2.2	CLL	75.26	336	iPd	40	38.10	-0.9
	1.0s	70.00nm			5.7mb			0.6s	25.30nm			5.4mb			1.1s	290.00nm			6.1mb	
BKS	58.80	67	ePc	38	54.96	-0.5	NRA0	67.09	341	P	39	48.00	-1.9			iP	41	14.30	146kmX	
	1.1s	90.00nm			5.8mb		NRE0	67.09	341	P	39	52.50	2.6	TUL	75.30	52	iPd	40	39.40	-0.1
FFC	58.82	41	ePc	38	55.42	0.0			PP		42	03.00		BRG	75.40	335	iP	40	39.00	-0.8
	1.0s	121.41nm			6.0mb				S		48	35.90			1.0s	100.00nm			5.7mb	
		e		39	00.68	15kmX			SS		53	24.20				i	40	40.00	3kmX	
HMR	58.89	66	eP	38	56.02	0.5	HFS	67.15	340	eP	39	49.30	-1.0			i	40	46.70		
HRY	59.18	53	iPc	38	58.50	0.3		0.4s	47.70nm			5.8mb		WIT	75.44	340	eP	40	41.50	1.6
BUT	59.23	54	ePc	38	59.20	0.5	Z	17s	0.40um			4.7MsZ		VRI	75.56	325	ePc	40	41.50	0.7
HBMT	59.35	54	iPc	38	59.50	-0.1			LR		05	59.00		KVT	75.58	317	eP	40	42.00	1.0
LRM	59.42	54	iPc	39	00.00	0.0	GOL	67.38	55	ePc	39	52.68	0.2	CFR	75.58	324	eP	40	39.00	-1.9
MHC	59.50	67	ePc	39	00.04	-0.5		0.8s	25.50nm			5.2mb		LTX	75.84	62	iPc	40	42.54	-0.3
	1.6s	150.00nm			5.9mb		GLD	67.43	55	iPc	39	53.34	0.7	CCM	75.97	48	P	40	42.69	-0.6
COE	59.54	67	ePc	39	00.55	-0.1		1.2s	59.37nm			5.4mb			1.0s	56.70nm			5.5mb	
ARN	59.56	67	ePc	39	00.40	-0.4	HYB	67.89	272	iPd	39	55.00	-0.6	PRU	76.03	335	Pd	40	42.90	-0.5
CMB	59.82	66	ePc	39	02.15	-0.5		1.0s												



09d 21h

ISR	76.25	325	iPc	40	46.00	1.3	WATA	79.27	335	iPd	41	01.80	0.4	TTG	81.25	328	iPd	41	11.24	-0.6
FVM	76.43	47	iPc	40	45.52	-0.3			i	41	02.50	2kmX	LOR	81.27	340	iPd	41	12.20	0.3	
	0.9s	50.58nm			5.5mb		PTJ	79.27	332	iPd	41	00.50	-0.9		0.9s	348.55nm			6.3mb	
HOF	76.47	336	eP	40	45.70	-0.2	WTTA	79.32	335	iPd	41	02.30	0.5	Z	22s	0.73um			5.0Msz	
	0.7s	100.00nm			5.9mb			0.7s	449.00nm			6.5mb	OUR	81.32	324	i(P)d	41	11.97	-0.2	
ACTO	76.54	37	P	40	46.03	-0.3			i	41	03.00	2kmX	PRK	81.33	322	eP	41	12.00	-0.3	
CMP	76.70	326	ePc	40	49.00	1.7	ZAG	79.34	332	iPd	41	01.50	-0.1	TPT	81.37	124	iPc	41	13.10	0.4
PSN	76.82	323	iPc	40	49.00	1.1	PGB	79.35	325	iPc	41	02.00	0.2		1.0s	185.60nm			6.0mb	
ZST	76.87	332	eP	40	48.00	-0.1	WLS	79.38	338	P	41	02.15	0.2	VAI	81.38	337	P	41	12.67	0.3
WLVO	76.94	36	P	40	48.20	-0.3	MOTA	79.39	336	iPd	41	02.40	0.3		0.9s	553.30nm			6.5mb	
TYNO	77.04	38	P	40	48.72	-0.4			i	41	03.00	2kmX	GRG	81.39	325	i(P)d	41	12.42	-0.2	
BNS	77.05	339	ePc	40	48.40	-0.6	CDF	79.40	338	iPd	41	02.20	0.1	MMK	81.42	337	P	41	13.93	0.9
	0.9s	140.00nm			5.9mb			0.9s	237.20nm			6.1mb	FAM	81.43	314	eP	41	15.00	2.1	
		id	40	49.20	3kmX		SQTA	79.48	336	iPd	41	03.10	0.6	THE	81.46	325	i(P)d	41	11.64	-1.3
VKA	77.05	333	iPd	40	49.60	0.5		0.9s	334.00nm			6.3mb	NAV	81.46	42	eP	41	13.29	0.2	
	1.8s	269.00nm			5.9mb				i	41	03.60	2kmX	HCY	81.50	329	iPd	41	11.98	-1.2	
		i	41	20.20	121kmX		PLD	79.52	324	iPc	41	03.00	0.3	LBF	81.51	340	iPd	41	13.30	0.1
KHC	77.08	335	Pd	40	49.50	0.2	LIBD	79.56	338	P	41	03.25	0.5		0.8s	134.30nm			5.9mb	
	1.0s	171.00nm			6.0mb		LJU	79.58	333	ePd	41	02.30	-0.7	BHL	81.51	313	Pd	41	11.00	-2.5
Z	20s	1.60um			5.3Msz				e	41	10.40	26kmX			S	51	26.00			
		e	41	10.50	79kmX		FVI	79.60	334	P	41	02.69	-0.3	BDV	81.53	328	iPd	41	12.36	-1.0
GRF	77.21	337	eP	40	50.50	0.5		0.5s	90.60nm			6.0mb	DIX	81.53	338	P	41	14.72	1.1	
		e	40	51.20	2kmX		ECH	79.61	338	P	41	03.25	0.1	HYF	81.54	341	iPd	41	14.10	0.8
STCO	77.23	37	P	40	49.41	-0.7	KDZ	79.63	324	iP	41	04.00	0.7	HVAR	81.55	330	iP	41	11.70	-1.6
WET	77.26	335	iPd	40	50.70	0.4	OKF	79.67	49	eP	41	03.70	0.1	SSF	81.55	340	iPd	41	13.70	0.4
	1.2s	472.00nm			6.3mb				epP	41	21.91	66km	LPF	81.55	344	iPd	41	13.90	0.6	
GEC2	77.30	335	Pd	40	50.20	-0.4	VTS	79.68	326	iPd	41	04.00	0.3		1.1s	362.40nm			6.2mb	
	0.6s	65.60nm			5.8mb		SLE	79.69	337	P	41	03.61	0.0	VAH	81.57	124	iPc	41	14.20	0.4
		PcP	40	55.50			FEL	79.71	338	P	41	03.79	0.0		0.9s	68.10nm			5.6mb	
DLF	77.33	348	iPd	40	50.80	0.3	EDC	79.75	321	iP	41	04.00	0.1	EMS	81.67	338	P	41	15.02	0.8
	0.7s	635.00nm			6.7mb		VOY	79.78	333	iPd	41	03.20	-1.0	ULC	81.67	328	iPd	41	12.91	-1.1
UYO	77.34	52	iPc	40	45.30	-5.6X			e	41	05.00	6kmX	RUV	81.67	124	iPc	41	14.70	0.4	
DCN	77.38	349	iPd	40	51.10	0.3	VBY	79.84	332	iPd	41	04.10	-0.2		1.3s	265.00nm			6.0mb	
	0.8s	296.00nm			6.3mb		ALT	79.87	319	iP	41	04.40	-0.4	BLA	81.71	41	eP	41	14.36	0.0
TNS	77.43	338	iPc	40	51.80	0.6	VITF	79.89	339	P	41	04.89	0.3		1.0s	25.36nm			5.1mb	
		ePcPd	41	04.10			MOF	79.95	338	P	41	05.00	-0.1	CSS	81.77	315	eP	41	14.50	-0.2
BNN	77.44	315	iP	40	52.30	0.7	ZLA	79.98	337	P	41	05.48	0.3	MYNC	81.79	45	eP	41	15.09	0.3
MIAR	77.51	52	ePc	40	51.84	0.0	HAU	80.00	339	iPd	41	05.30	0.1		0.9s	33.65nm			5.3mb	
	0.9s	64.40nm			5.6mb			1.0s	220.00nm			6.0mb	PAIG	81.79	324	i(P)d	41	14.17	-0.5	
		ePcP	40	57.17	69km		Z	25s	1.08um			5.1MszX	LACI	81.79	327	iPd	41	14.50	-0.1	
		e	41	10.72		RDO	80.01	323	eP	41	05.50	0.2	ORK	81.80	337	P	41	15.13	0.3	
		e	41	25.93		ALN	80.02	323	i(P)d	41	05.46	0.1	ORO	81.81	337	P	41	14.81	0.0	
		e	41	32.76		DST	80.05	321	eP	41	05.00	-0.6		0.9s	157.10nm			6.0mb		
		ePP	43	52.19		BSF	80.06	339	iPd	41	05.50	-0.1	AVF	81.84	340	iPd	41	15.40	0.6	
		e	45	45.28			1.0s	176.00nm				5.9mb		0.8s	285.85nm			6.3mb		
ENN	77.52	340	ePd	40	51.50	-0.1	TRI	80.11	333	eP	41	04.50	-1.3	OHR	81.86	327	iPd	41	14.80	-0.3
	1.0s	380.00nm			6.3mb	BBS	80.22	338	P	41	06.87	0.5		0.9s	400.00nm			6.4mb		
ELC	77.57	47	iPd	40	52.09	0.0	OSS	80.26	336	P	41	07.42	0.6	SMF	81.86	340	iPd	41	15.50	0.5
MEM	77.65	340	iPc	40	52.82	0.6	RIY	80.26	333	iPd	41	05.50	-1.0		1.0s	382.40nm			6.3mb	
	0.9s	132.00nm			5.9mb	VVI	80.26	334	P	41	06.11	-0.5	ELL	81.87	318	iP	41	23.50	8.2X	
UZD	77.82	331	eP	40	52.30	-1.0		0.8s	167.50nm			6.0mb	CVL	81.91	40	eP	41	13.69	-1.6	
UCC	77.83	341	P	40	54.00	0.7	MMB	80.34	325	iPd	41	08.00	0.9	FNA	81.93	326	i(P)d	41	14.80	-0.7
LST	77.92	48	eP	40	54.60	0.6	KKB	80.35	325	iPd	41	07.00	-0.1	CIN	81.96	320	iPd	41	16.00	0.4
CBM	77.99	28	eP	40	53.95	-0.3	LLS	80.39	337	P	41	08.02	0.5	TIR	81.99	327	iPd	41	16.10	0.4
	0.8s	24.55nm			5.2mb	PLE	80.41	329	iPd	41	07.74	0.2	LIT	82.10	325	i(P)d	41	15.21	-1.1	
YSNY	78.10	37	eP	40	54.82	-0.2	CTI	80.42	335	P	41	07.90	0.3	RSL	82.10	338	P	41	17.39	1.0
	0.8s	59.76nm			5.6mb		0.8s	152.20nm				6.0mb	RSM	82.12	333	P	41	17.54	1.2	
		epP	41	12.14	63km	LOMF	80.50	338	P	41	08.39	0.5		1.1s	910.80nm			6.7mb		
SNF	78.12	341	iPc	40	55.40	0.5	VDL	80.62	336	P	41	09.60	0.8	BGF	82.17	341	iPd	41	17.10	0.5
GAZ	78.14	313	eP	40	55.30	0.1	IVA	80.64	328	iPd	41	08.74	0.0		0.7s	126.10nm			6.0mb	
PVL	78.33	325	iPc	40	58.00	1.8	KHL	80.73	319	iP	41	09.00	-0.3	LSD	82.18	337	P	41	18.24	1.3
ECP	78.40	348	iPc	40	57.00	0.6	FLN	80.75	344	iPd	41	09.20	0.1	KZN	82.19	325	eP	41	16.40	-0.5
DOU	78.44	341	Pc	40	57.10	0.4		0.9s	276.50nm			6.2mb	BOB	82.21	336	P	41	17.82	0.9	
	0.8s	160.00nm			6.0mb	Z	25s	0.50um				4.8MszX		0.8s	205.70nm			6.1mb		
JMB	78.48	323	iPc	40	57.00	0.0	SRS	80.80	325	i(P)d	41	09.25	-0.3	LPL	82.23	338	iPd	41	18.50	1.3
WLF	78.50	340	iPc	40	57.70	0.7	STK	80.83	191	eP	41	09.40	-0.2		0.8s	382.55nm			6.4mb	
	1.2s	38.80nm			5.2mb		2.6s	3.80nm				3.9mb X	LPG	82.25	338	iPd	41	18.60	1.2	
BHG	78.55	335	eP	40	58.20	0.8	LDF	80.84	343	iPd	41	09.70	0.1		0.8s	383.65nm			6.4mb	
	0.7s	220.00nm			6.2mb		0.9s	212.30nm				6.1mb	KBN	82.29	326	iPd	41	15.00	-2.3	
ARMA	78.58	183	iPc	40	58.10	0.4	PVY	80.86	328	iPd	41	09.67	-0.3	PPCY	82.30	315	eP	41	16.70	-0.7
	0.9s	62.00nm			5.6mb	SKO	80.87	327	iPd	41	10.00	0.1	AFR	82.31	127	iPc	41	17.80	0.3	
FUR	78.59	336	iPd	40	57.80	0.2		1.2s	280.00nm			6.1mb		0.8s	104.50nm			5.9mb		
	0.9s	316.00nm			6.3mb	NKY	81.01	329	iPd	41	09.86	-0.8	ARV	82.37	333	P	41	18.19	0.5	
HRT	78.59	321	iP	40	58.00	0.2	VAY	81.01	325	iPc	41	10.70	0.1		0.9s	438.50nm			6.4mb	
EYL	78.60	320	iP	40	57.90	0.0		0.8s	360.00nm			6.4mb	FORT	82.38	203	eP	41	19.00	1.4	
GBZT	78.72	321	eP	40	57.80	-0.5	KNT	81.03	325	i(P)d	41	10.78	0.1		0.8s	70.00nm			5.7mb	
LANF	78.74	338	P	40	58.64	0.3	BRY	81.09	329	iPd	41	10.09	-1.1	PGD	82.39	334	P	41	19.27	1.3
CTT	78.84	322	iP	40	58.90	-0.1	TMA	81.13	337	P	41									



	1.2s	231.50nm		6.0mb			0.8s	308.60nm		6.4mb			LR	33	29.00		
KSL	82.54	318 eP	41	18.40	-0.2	FRF	84.08	337 iPd	41	26.80	0.4	LPB	132.92	62 PKP	48	13.00	1.2
BDI	82.54	335 P	41	18.56	-0.1		1.3s	359.60nm		6.2mb		SEK	134.77	277 ePKP	48	23.00	8.2X
	0.8s	93.00nm			5.8mb	DHLJ	84.13	311 Pc	41	27.74	0.9		0.7s	16.00nm			
CRE	82.55	334 P	41	19.48	0.8	LFF	84.16	342 iPd	41	27.90	1.1	BLF	136.23	277 ePKP	48	03.00	-14.5X
	0.7s	98.80nm			5.9mb		0.8s	210.10nm			6.2mb	BOSA	136.42	278 ePKP	48	08.20	-9.4X
MAF	82.55	341 iPd	41	19.60	1.0	LRG	84.25	337 iPd	41	28.10	0.9		e	50	50.10		
	0.9s	571.30nm			6.5mb		0.9s	458.65nm			6.5mb	SIV	136.47	54 PKP	48	04.30	-13.8X
PLDF	82.55	340 P	41	19.79	1.1	Z	24s	0.85um			5.0MsZx	WIN	137.52	292 ePKP	48	08.00	-12.2X
TCF	82.56	341 iPd	41	19.40	0.7	ADE	84.26	193 iPd	41	28.20	1.0	MOCB	138.04	64 PKP	48	19.20	-2.3
	0.9s	280.40nm			6.2mb	SGO	84.27	330 P	41	27.30	0.0	SPA	138.29	180 ePKPc	48	08.40	-11.8X
AGO	82.59	340 P	41	19.95	1.2		1.1s	106.00nm			5.8mb		0.9s	45.45nm			
PCP	82.67	336 P	41	19.29	0.0	LPO	84.31	341 iPd	41	28.50	0.9	BDFB	142.39	37 ePKP	48	23.96	-5.0X
BNI	82.68	338 P	41	20.64	1.2		0.8s	140.75nm			6.1mb	BAO	142.40	37 ePKP	48	24.20	-4.8X
	0.8s	169.30nm			6.1mb	ORI	84.33	329 P	41	28.64	0.9		i	48	31.80		
BWA	82.71	185 iPc	41	20.00	0.7		0.7s	2975.00nm			7.4mb X		i	48	49.00		
BHB	82.73	337 P	41	18.65	-0.9	LMR	84.33	337 iPd	41	28.30	0.7	SYO	142.91	213 ePKPd	48	23.50	-4.6X
MJMA	82.73	301 iPd	41	19.30	-0.6		1.0s	510.40nm			6.5mb	PEL	143.10	82 ePKP	48	25.00	-4.7X
LSF	82.75	341 iPd	41	20.30	0.7	PGF	84.39	335 iPd	41	28.30	0.2	CER	143.49	278 iPKP	48	17.00	-13.3X
	1.0s	472.00nm			6.4mb		0.8s	96.70nm			5.9mb		0.6s	66.00nm			
MFF	82.75	343 iPd	41	20.40	0.8	UQSK	84.43	303 iPd	41	29.40	0.8	CFA	143.74	78 ePKPd	48	27.10	-3.7X
	0.8s	238.55nm			6.2mb	COOL	84.46	208 eP	41	27.50	-0.8	RSTA	149.85	46 ePKP	48	45.90	5.1X
LSK	82.77	326 iPd	41	19.60	-0.3	VLS	84.50	325 eP	41	28.00	-0.6	NVL	151.60	205 iPKPc	48	48.00	6.0X
RRL	82.78	338 P	41	21.21	1.2	MGR	84.56	330 P	41	28.19	-0.7		1.0s	52.00nm			
TVO	82.79	127 iPc	41	20.30	0.2		0.9s	263.20nm			6.3mb		e	49	09.00		
	1.0s	178.40nm			6.0mb	MRWA	84.68	213 eP	41	29.50	0.1		S.D. = 0.8	on 504 of 535 obs.			
RYD	82.84	299 iPd	41	20.00	-0.5	VLI	84.85	323 eP	41	28.70	-1.7	? JAN 09, 1994	21h 42m 57.62± 2.37s				
ASS	82.84	333 P	41	20.61	0.4	SGS	85.02	44 epd	41	32.29	1.0		38.419 N ±25.1km	2			



			e	26	32.60	
			e	26	38.50	
			e	26	47.40	
LPG	17.91	313	eP	26	42.40	1.5
	0.5s		1.45nm			3.4mb
LPL	17.93	313	eP	26	42.70	1.6
	0.4s		1.70nm			3.6mb
BSF	19.18	319	eP	26	54.70	-1.3
	0.5s		3.05nm			3.8mb
CDF	19.29	321	eP	26	56.20	-0.8
	0.6s		2.80nm			3.7mb
HAU	19.53	319	eP	26	58.50	-1.1
	0.5s		4.80nm			4.0mb
SMF	20.24	313	eP	27	05.90	-1.1
	0.6s		2.25nm			3.7mb
LBF	20.32	314	eP	27	06.90	-1.0
	0.6s		6.05nm			4.1mb
SSF	20.64	314	eP	27	10.60	-0.5
	0.7s		5.75nm			4.0mb
DOU	21.71	322	Pc	27	22.70	0.9
OBN	21.92	17	eP	27	25.50	1.7
	1.0s		18.00nm			4.4mb
			e	27	37.00	
KAF	27.53	1	eP	28	15.10	-1.8
NSD	30.87	355	eP	28	44.80	-1.9
	0.2s		1.10nm			4.2mb
GKN	50.42	80	P	31	29.00	1.0
DMN	50.95	81	P	31	33.00	0.8
KKN	51.02	80	P	31	33.20	0.5
PKI	51.21	80	P	31	34.90	0.6
GUN	51.46	80	P	31	37.10	0.9
KMI	66.25	75	eP	33	05.00	-13.7X
WB2	116.33	97	ePKP	41	08.80	-4.3X
	0.9s		3.70nm			
S.D. = 1.3 on 28 of 35 obs.						
<hr/>						
& JAN 09, 1994 23h 00m 58.93s						
33.988 N 118.504 W						
DEPTH = 2.6km						
SOUTHERN CALIFORNIA (43)						
<PAS-P>. ML 3.7 (PAS), 3.7 (GS).						
Felt (V) at Santa Monica and						
Venice; (IV) at Culver City;						
(III) at Hawthorne. Also felt in						
the western part of Los Angeles.						
<hr/>						
SSK	0.71	72	eP	01	12.17	-0.9
FTC	0.94	340	P	01	16.00	-1.6
RYS	0.96	313	P	01	16.70	-1.3
ABL	1.04	326	eP	01	17.39	-2.1
PLEC	1.08	335	P	01	19.15	-0.9
PEC	1.12	95	eP	01	19.16	-1.5
SNDC	1.16	8	P	01	20.67	-0.8
ARVC	1.17	347	P	01	20.06	-1.4
MARC	1.22	326	P	01	21.01	-1.4
WJPM	1.42	1	P	01	24.57	-1.2
PLM	1.51	114	eP	01	24.77	-2.4
WOFM	1.55	354	P	01	26.73	-1.0
WBSM	1.57	11	P	01	27.54	-0.5
CRGC	1.61	322	P	01	27.48	-0.9
SCCM	1.67	305	P	01	28.51	-0.8
WORM	1.72	7	P	01	29.37	-0.6
BCH	1.77	313	eP	01	28.85	-1.9
TOW	1.92	18	P	01	32.12	-0.7
GSC	1.92	46	eP	01	31.68	-1.3
WCHM	1.92	10	P	01	31.89	-1.3
VPEN	2.04	16	P	01	34.06	-0.7
WLHM	2.17	4	P	01	36.09	-0.6
PHAM	2					

SRU	8.21	49	(P)	03	01.49	-0.5
EMUT	8.47	44	P	03	08.07	2.4
DAU	8.63	40	P	03	10.40	2.3
PV09	8.80	57	P	03	10.84	0.4
PV10	8.81	58	P	03	12.34	1.8
PV08	9.18	57	P	03	16.98	1.3
47 obs. associated						
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JAN 09, 1994 23h 03m 17.87± 0.33s						
36.172 N ± 5.5km 69.435 E ± 5.2km						
DEPTH = 33.0km (normal)						
4.6mb ( 23 obs.)						
HINDU KUSH REGION, AFGHANISTAN (718)						
KSH	6.13	56	Pn	04	50.50	1.8
	0.2s	120.00nm				6.2mb X
	Z	12s	1.83um			
			Pg	05	02.00	
QUE	6.32	200	eP	04	52.00	0.6
			eS	06	11.00	
			e	07	45.50	
FRU	7.76	29	eP	05	11.00	-0.4
			eS	06	39.00	
MAIO	8.03	274	iPd	05	12.00	-3.3X
	0.9s	36.23nm				5.5mb
			eS	06	40.00	
ASH	9.04	285	eP	05	24.50	-4.5X
	0.5s	120.00nm				6.3mb X
			S	07	04.00	
NDI	9.95	136	iPc	05	39.00	-2.6
			iS	07	25.00	
GKN	15.23	118	P	06	47.70	-4.6X
DMN	15.80	118	P	06	55.00	-4.7X
KKN	15.82	117	P	06	55.00	-4.9X
WMQ	15.92	56	P	07	01.20	0.1
	Z	16s	0.36um			
			pP	07	05.00	
PKI	16.04	118	P	06	58.00	-4.9X
GUN	16.18	116	P	06	59.80	-4.9X
BOM	17.47	169	eP	07	21.00	0.4
POO	18.00	166	eP	07	32.70	5.5X
TAB	18.52	283	eP	07	34.00	0.4
LSA	19.32	103	Pd	07	44.40	0.8
	0.6s	11.00nm				4.3mb
HYB	20.36	154	eP	07	53.00	-1.3
	1.0s	65.00nm				4.9mb
SVE	21.48	347	ePd	08	07.00	1.6
	Z	12s	1.00um			4.4MsZx
	N	12s	0.60um			
	E	12s	0.50um			
ARU	21.52	343	eP	08	07.00	1.1
PYA	21.59	299	eP	08	05.00	-1.7
GBA	23.59	160	P	08	27.60	1.0
			S	12	57.60	
GTA	24.17	73	eP	08	33.20	1.0
	1.4s	11.00nm				4.2mb
	Z	12s	0.60um			4.3MsZx
KOD	26.83	162	eP	08	58.00	0.5
ZAK	28.16	49	eP	09	06.70	-2.2
	0.7s	6.00nm				4.4mb
			e	10	05.50	
CD2	28.99	90	eP	09	16.50	-0.2
OBN	29.35	321	eP	09	20.00	0.4
			e	10	20.00	
KMI	30.56	102	eP	09	33.00	2.1
	1.4s	50.00nm				5.1mb
			pP	09	38.00	17kmX
CHTO	31.20	116	eP	09	43.00	6.7X
BTO	31.92	70	eP	09	22.80	-19.8X
XAN	32.22	82	P	09	45.00	-0.3
	1.0s	63.00nm				5.5mb
	Z	10s	0.64um			4.6MsZx
MLR	33.84	300	eP	10	01.00	1.7
CIT	34.84	49	eP	10	08.00	0.2
BOD	36.50	39	iPd	10	20.30	-1.3
	1.1s	13.00nm				4.7mb
KAF	37.22	328	eP	10	27.60	0.0
NUR	37.36	325	iP	10	28.60	-0.2
	0.4s	5.20nm				4.7mb
GEC2	42.09	305	P	11	08.80	0.5
	0.6s	0.60nm				3.5mb X
	</					



09d 23h

BSF 46.78 305 eP 11 45.60 -0.4  
0.9s 11.95nm 4.9mb  
HAU 47.05 305 eP 11 46.80 -1.2  
0.8s 3.35nm 4.4mb  
LPG 47.24 302 eP 11 51.30 1.4  
0.9s 5.55nm 4.6mb  
LPL 47.25 302 eP 11 51.80 1.9  
0.8s 3.75nm 4.4mb  
SMF 48.99 304 eP 12 02.60 -0.5  
1.0s 19.60nm 5.1mb  
AVF 49.28 304 eP 12 04.80 -0.5  
0.8s 8.20nm 4.8mb  
DAG 54.71 344 iPc 12 44.70 -1.0  
0.8s 8.21nm 4.8mb  
BCAO 56.36 248 ePd 13 02.00 3.6X  
1.0s 10.00nm 4.8mb  
IMA 72.81 17 eP 14 44.50 -0.3  
0.9s 2.50nm 4.2mb  
FBA 75.13 15 eP 14 57.48 -0.5  
0.8s 3.30nm 4.4mb  
YKA 81.62 2 P 15 32.70 -0.7  
0.9s 1.90nm 4.1mb  
WRA 82.90 121 P 15 48.30 7.5X  
0.7s 0.80nm 3.9mb  
S.D. = 1.2 on 39 of 51 obs.

\* JAN 09, 1994 23h 04m 57.52± 0.81s  
25.944 N ± 9.5km 125.098 E ± 12.7km  
DEPTH = 33.0km (normal)  
4.3mb ( 8 obs.)

## SOUTHWESTERN RYUKYU ISLANDS (246)

SSE 6.18 327 Pn 06 22.50 -6.3X  
pP 06 26.00  
NJ2 8.18 320 eP 06 55.00 -1.8  
Z 12s 0.62um  
WHN 10.52 298 eP 07 29.00 -0.2  
eS 09 28.50  
SNY 15.89 356 Pc 08 45.00 4.7X  
TIY 15.90 321 eP 08 41.00 0.5  
Z 14s 0.84um  
sP 08 53.00  
BJI 15.91 334 eP 08 45.50 5.0X  
1.3s 10.00nm 3.8mb  
Z 16s 0.58um 3.8msz  
XAN 16.16 304 P 08 45.00 1.2  
1.0s 63.00nm 4.7mb  
Z 10s 0.64um 3.9msz  
pP 08 49.00  
CN2 17.82 1 P 09 04.90 0.4  
1.0s 11.00nm 3.9mb  
HHC 18.64 326 P 09 13.70 -1.0  
1.2s 41.00nm 4.5mb  
Z 15s 0.83um  
MDJ 18.98 10 eP 09 19.00 0.2  
LZH 20.79 304 eP 09 39.50 0.9  
1.8s 41.00nm 4.5mb  
E 10s 0.26um  
sP 09 44.00  
WRA 46.49 168 P 13 23.50 0.0  
0.7s 2.40nm 4.3mb  
WB2 46.49 168 iPd 13 23.10 -0.4  
0.8s 5.90nm 4.6mb  
YKA 79.95 24 P 17 00.10 -4.4X  
0.9s 1.20nm 3.9mb  
S.D. = 1.0 on 10 of 14 obs.

\* JAN 09, 1994 23h 05m 02.38± 2.09s  
38.365 N ± 14.2km 26.952 E ± 17.4km  
DEPTH = 10.0km (geophysicist)  
AEGEAN SEA (365)  
ML 3.2 (ISK).

IZM 0.25 82 ePg 05 07.50 -0.2  
eSg 05 12.80  
CIN 1.18 130 iPd 05 23.50 -0.9  
DST 1.80 46 iPn 05 34.20 0.5  
KHL 2.02 90 ePn 05 38.50 1.5  
EDC 2.10 19 ePn 05 37.00 -1.0  
KGT 2.10 7 iPn 05 36.80 -1.2  
ALN 2.62 345 iP 05 46.80 1.3  
S.D. = 1.4 on 7 of 7 obs.

\* JAN 09, 1994 23h 22m 48.25s  
62.096 N 150.896 W  
DEPTH = 68.4km  
2.9mb ( 1 obs.)

CENTRAL ALASKA ( 1)  
<AEIC>. ML 3.2 (AEIC), 3.4 (PMR).

NCG 0.92 221 iPd 23 05.10 -0.9  
CGLM 0.95 214 iPd 23 05.49 -0.9  
PLRM 0.98 120 eP 23 05.70 -0.9  
CKN 1.07 216 iPd 23 07.31 -0.6  
SPU 1.07 212 iPd 23 06.95 -1.0  
CKT 1.09 215 iPd 23 07.34 -0.9  
BGL 1.10 221 iPd 23 07.71 -0.6  
BKG 1.22 213 iPd 23 08.95 -0.9  
eS 23 25.90  
KNK 1.35 120 ePc 23 10.69 -0.9  
NKA 1.37 187 eP 23 12.97 1.2  
TRF 1.39 11 iPd 23 11.12 -1.1  
KTH 1.46 360 iPd 23 12.25 -0.9  
RND 1.62 35 ePd 23 13.75 -1.5  
eS 23 34.31  
DFR 1.74 211 ePd 23 15.75 -1.2  
PWL 1.75 134 eP 23 15.18 -1.8  
CFI 1.75 120 eP 23 15.45 -1.5  
MPA 1.77 155 eP 23 15.90 -1.4  
NCT 1.83 213 ePd 23 17.27 -0.9  
REF 1.83 209 ePd 23 17.36 -1.0  
RDW 1.86 211 ePd 23 17.85 -0.9  
RS2 1.87 210 ePd 23 17.89 -0.9  
RSO 1.87 210 eP 23 17.87 -1.0  
MCK 1.87 28 eP 23 17.46 -1.2  
DHY 1.90 57 ePd 23 18.04 -1.2  
RED 1.91 209 eP 23 18.28 -1.0  
SEW 2.12 160 eP 23 22.30 0.2  
BWN 2.18 17 ePd 23 21.63 -1.3  
ILIM 2.26 207 eP 23 22.64 -1.4  
INE 2.30 208 eP 23 22.85 -1.9  
VLZ 2.39 112 eP 23 23.85 -1.9  
eS 23 52.23  
HOM 2.47 189 eP 23 25.55 -1.5  
TZL 2.58 89 eP 23 27.31 -1.1  
CNPM 2.58 184 eP 23 27.19 -1.4  
NEA 2.62 17 eP 23 26.76 -2.3  
MTU 2.64 142 eP 23 29.35 0.0  
PAX 2.66 68 ePd 23 28.46 -1.3  
WRH 2.70 27 eP 23 28.12 -2.1  
OPT 2.70 206 eP 23 29.36 -0.9  
HIN 2.72 127 eP 23 28.31 -2.2  
PDB 2.82 216 eP 23 30.30 -1.6  
DDM 2.86 51 eP 23 31.08 -1.4  
CCB 2.91 27 ePd 23 30.89 -2.3  
HDA 2.92 36 ePd 23 31.40 -2.0  
CVA 2.93 120 eP 23 30.86 -2.5  
MLY 2.95 1 ePd 23 31.70 -2.0  
eS 24 04.24  
DJE 3.07 48 eP 23 35.30 0.0  
MDM 3.11 21 ePd 23 33.79 -2.2  
ILI 3.23 32 ePd 23 35.36 -2.3  
ILB 3.23 32 ePd 23 35.39 -2.3  
eS 24 11.56  
GLM 3.30 27 ePd 23 36.35 -2.3  
MCNL 3.38 212 eP 23 37.88 -1.8  
GLB 3.43 98 eP 23 37.95 -2.5  
eS 24 16.07  
CDD 3.45 204 eP 23 39.47 -1.3  
SYI 3.58 193 eP 23 40.03 -2.4  
HMT 3.66 116 eP 23 42.32 -1.4  
TMW 3.84 68 eP 23 43.65 -2.5  
TGL 4.10 106 eP 23 47.31 -2.7  
PRP 4.18 32 eP 23 48.91 -2.2  
BC3 4.32 73 ePd 23 50.27 -2.8  
CTGM 4.72 100 eP 23 56.17 -2.5  
BM3 5.98 24 eP 24 12.63 -3.6  
YKA 16.74 73 P 26 35.10 -4.3  
0.8s 0.70nm 2.9mb  
62 obs. associated

\* JAN 09, 1994 23h 29m 05.26± 2.26s  
38.346 N ± 12.0km 27.017 E ± 19.5km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 3.0 (ISK).

IZM 0.20 75 ePg 29 09.80 0.1  
eSg 29 14.00  
CIN 1.13 131 eP 29 26.30 -0.1  
DST 1.78 44 ePn 29 36.40 0.1  
EDC 2.10 18 ePn 29 40.00 -0.9  
KGT 2.11 6 ePn 29 41.80 0.7

S.D. = 0.8 on 5 of 5 obs.

? JAN 09, 1994 23h 36m 30.94± 0.87s  
37.012 N ± 9.4km 35.956 E ± 8.2km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)

ADAT 0.48 276 ePn 36 40.10 -0.7  
eSg 37 04.30  
GAZ 1.02 81 iPn 36 50.80 0.6  
BNN 1.83 358 iPn 37 02.40 -0.4  
FAM 2.56 219 eP 37 13.50 0.4  
CSS 2.95 227 eP 37 20.00 1.3  
BHL 3.11 185 Pn 37 19.00 -2.0  
Sn 38 08.00  
PPCY 3.62 235 eP 37 29.00 0.8  
KVT 4.06 1 eP 37 44.00 9.5X  
ELL 4.86 269 eP 37 55.50 9.6X  
S.D. = 1.4 on 7 of 9 obs.

JAN 10, 1994 01h 01m 10.39± 0.46s  
41.831 N ± 4.9km 2.951 E ± 2.8km  
DEPTH = 25.8 ± 3.0 km

SPAIN (377)  
ML 3.5 (LDG). mbLg 3.3 (MDD).  
Felt (III) in the Vidreras area.

ETER 0.48 351 eP 01 19.79 -0.4  
eS 01 28.00  
PERF 0.66 355 Pg 01 23.12 -0.1  
VDFC 0.87 330 Pg 01 26.93 0.0  
TRGS 0.99 313 Pg 01 28.19 -0.6  
MTHF 1.15 345 Pg 01 31.96 1.1  
PAND 1.25 304 Pg 01 32.83 0.4  
LSFF 1.36 326 Pg 01 35.06 1.2  
GRBF 1.46 314 Pg 01 36.41 1.1  
SALF 1.60 306 Pg 01 38.81 1.4  
LESF 1.72 315 Pg 01 40.63 1.6  
ESEL 2.06 181 eP 01 43.59 -0.4  
EROQ 2.16 243 eP 01 44.61 -0.8  
eS 02 10.30

ENSF 2.17 298 Pn 01 45.81 0.1  
EPF 2.27 303 Pn 01 47.90 0.8  
Pg 01 53.70  
Sn 02 12.90

EGRA 2.46 280 eP 01 43.38 -6.3X  
eS 02 08.80

LRG 2.99 56 Pn 01 57.90 0.7  
Sn 02 32.40

LMR 3.03 59 Pn 01 58.10 0.4  
Sn 02 33.00

LPO 3.13 336 Pn 01 59.80 0.7  
Sn 02 33.60

CAF 3.16 349 Pn 01 59.30 -0.3  
Sg 02 49.00

FRF 3.23 56 Pn 02 00.90 0.4  
Sn 02 38.60

CALN 3.48 55 Pn 02 04.33 0.1  
LFF 3.50 333 Pn 02 04.80 0.4

Sg 02 59.50  
ELIZ 3.57 293 eP 02 05.55 0.1  
eS 02 46.00

RJF 3.63 344 Pn 02 05.70 -0.5  
Sn 02 44.60

Sg 03 03.50  
MVIF 3.71 55 Pn 02 08.07 0.5

REVF 3.77 58 Pn 02 08.47 0.2  
AURF 3.82 56 Pn 02 08.96 0.0

TOUF 3.84 54 Pn 02 09.60 0.3  
SBF 3.87 57 Pn 02 09.80 0.1

Sn 02 54.00  
AUTN 3.94 55 Pn 02 11.01 0.2

SAOF 4.01 56 Pn 02 12.19 0.5  
ECRI 4.13 283 eP 02 12.81 -0.6

eS 02 59.70  
MAF 4.40 357 Pn 02 17.00 -0.1

Sg 03 28.60  
TCF 4.49 353 Pn 02 17.60 -0.9

Sn 03 05.60  
LSF 4.54 347 Pn 02 18.10 -1.0

Sn 03 06.10  
Sg 03 32.70

PGF 4.55 79 Pn 02 17.80 -1.7  
Sn 03 06.60

LPG 4.59 36 Pn 02 21.60 1.5



10d 01h

LPL 4.59 35 Pn 02 21.40 1.2  
 BGF 4.73 359 Pn 02 21.10 -0.7  
     Sg 03 37.60  
 SMF 4.86 7 Pn 02 22.90 -0.7  
 AVF 4.97 3 Pn 02 24.40 -0.8  
     Sg 03 45.70  
 SSF 5.24 4 Pn 02 28.10 -1.0  
     Sg 03 53.80  
 MFF 5.26 336 Pn 02 29.10 -0.3  
     Pg 02 48.20  
     Sn 03 24.50  
     Sg 03 53.70  
 LOR 5.48 6 Pn 02 31.20 -1.2  
     Sg 04 02.20  
 LPF 6.82 337 Pn 02 50.80 -0.4  
     Sn 04 01.30  
 FLN 7.34 342 Pn 02 56.20 -2.4  
 S.D. = 0.9 on 45 of 46 obs.

JAN 10, 1994 01h 36m 23.38± 3.66s  
 34.247 S ±20.5km 70.083 W ±18.1km  
 DEPTH = 5.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.9 (SAN).

CACH 0.45 287 iPd 36 32.69 0.3  
     iS 36 39.12  
 PCH 0.72 330 iPd 36 37.82 0.0  
     iS 36 48.56  
 TACH 0.92 310 iPd 36 41.42 -0.1  
     iS 36 54.72  
 FCH 0.93 349 iPd 36 41.53 -0.4  
     iS 36 55.39  
 LNV 1.14 284 iPd 36 44.83 -0.3  
     iS 37 00.74  
 PEL 1.21 335 iPd 36 46.56 0.2  
     iS 37 03.53  
 LCCH 1.46 301 iP 36 50.51 0.2  
     eS 37 09.26  
 ROCH 1.49 328 eP 36 50.62 -0.4  
     iS 37 11.46  
 JACH 1.62 345 eP 36 53.33 0.6  
     eS 37 15.62  
 S.D. = 0.4 on 9 of 9 obs.

? JAN 10, 1994 01h 37m 34.95± 5.24s  
 38.811 N ±31.9km 19.324 E ±31.9km  
 DEPTH = 5.0km (geophysicist)  
 IONIAN SEA (399)  
 ML 2.9 (THE).

IGT 1.07 47 iPg 37 55.41 -0.1  
     iSg 38 09.76  
 SRN 1.19 26 ePn 38 00.90 3.3X  
 VLO 1.66 5 ePn 38 05.10 0.3  
 LSK 1.66 36 ePn 38 06.10 1.2  
 KBN 2.13 31 ePn 38 12.00 0.2  
 AGG 2.35 84 iBpd 38 15.56 0.6  
     eSb 38 40.08  
 FNA 2.53 38 iPn 38 21.36 4.0X  
 OHR 2.56 26 ePn 38 16.20 -1.7  
 LIT 2.77 61 ePn 38 22.04 1.2  
     eSn 38 51.32  
 GRG 3.19 47 ePn 38 29.80 3.0X  
 PAIG 3.56 70 ePn 38 29.92 -2.0  
 KNT 3.61 48 ePn 38 32.96 0.2  
 S.D. = 1.3 on 9 of 12 obs.

? JAN 10, 1994 01h 43m 24.14± 1.15s  
 45.541 N ± 6.6km 14.427 E ±20.6km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 MD 2.0 (LJU).

CEY 0.20 360 ePg 43 29.10 0.6  
     eSg 43 32.20  
 RIY 0.20 188 iPg 43 28.50 0.0  
     iSg 43 32.00  
 LJU 0.51 8 e(Pg) 43 34.00 -0.4  
     i 43 41.20  
     iSg 43 41.70  
 VOY 0.62 323 ePg 43 36.50 -0.1  
     iSg 43 44.50  
 S.D. = 0.7 on 4 of 4 obs.

JAN 10, 1994 04h 09m 37.35± 1.48s  
 16.839 N ±11.3km 61.348 W ±11.1km

DEPTH = 10.0km (geophysicist)  
 LEEWARD ISLANDS (92)  
 ML 3.1 (FDF). MD 3.2 (TRN).  
 SEG 0.46 199 eP 09 53.70 7.0X  
 BPA 0.53 293 eP 09 48.22 0.2  
     S 09 56.10  
 DEG 0.59 152 iPc 09 49.31 0.0  
     S 09 58.21  
 SFG 0.60 166 eP 09 49.80 0.3  
 MBET 0.79 263 eP 09 52.95 0.3  
     eS 10 01.61  
 MGH 0.84 262 ePd 09 53.65 0.1  
 PAG 0.87 202 eP 09 53.69 -0.4  
     S 10 06.47  
 MGG 0.92 178 eP 09 54.82 0.0  
 SKI 1.42 290 eP 10 02.80 -0.4  
     eS 10 19.73  
 S.D. = 0.3 on 8 of 9 obs.

? JAN 10, 1994 04h 12m 43.62± 1.20s  
 18.016 N ±14.9km 66.766 W ± 8.7km  
 DEPTH = 33.0km (normal)  
 PUERTO RICO REGION (90)

CLLP 0.19 70 P 12 53.40 3.3X  
 LRS 0.29 345 P 12 52.00 0.8  
     S 13 06.00  
 MGP 0.31 268 P 12 51.20 -0.3  
 APR 0.44 5 P 12 52.80 -0.4  
     S 13 06.13  
 CPD 0.81 88 P 12 59.30 0.7  
 LPR 0.90 71 P 12 59.20 -0.8  
     S 13 17.40  
 S.D. = 1.0 on 5 of 6 obs.

& JAN 10, 1994 06h 12m 03.80s  
 33.993 N 118.492 W  
 DEPTH = 2.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).  
 Felt (IV) at Santa Monica and  
 Venice; (III) at Torrance. Also  
 felt at Hawthorne, Inglewood and  
 in the western part of Los  
 Angeles.

SSK 0.70 72 (P) 12 16.93 -0.8  
 FTC 0.94 339 P 12 20.84 -1.6  
 RYS 0.96 313 P 12 21.53 -1.4  
 ABL 1.05 325 eP 12 22.21 -2.2  
 PEC 1.11 95 iPnc 12 24.02 -1.3  
     eS 12 39.97  
 LPC 1.13 297 P 12 24.04 -1.7  
 BMT 1.14 356 P 12 24.38 -1.6  
 ARVC 1.17 346 P 12 25.02 -1.2  
 MARC 1.23 325 P 12 25.89 -1.4  
 TEJ 1.24 353 P 12 25.09 -2.5  
 TMB 1.39 322 P 12 29.50 -0.7  
 WJPM 1.41 0 P 12 29.56 -1.0  
 PLM 1.50 115 iPnd 12 29.92 -2.0  
     eS 12 52.11  
 WOFM 1.55 353 P 12 31.46 -1.1  
 WBSM 1.57 11 P 12 32.30 -0.5  
 SCCM 1.68 305 P 12 33.62 -0.7  
 WSHM 1.83 26 P 12 34.90 -1.6  
 GSC 1.91 46 eP 12 36.37 -1.3  
 TOW 1.91 18 P 12 36.95 -0.7  
 WLHM 2.16 4 P 12 40.75 -0.8  
 GLA 3.20 106 (P) 12 54.11 -2.0  
 MTUM 3.35 359 (P) 12 57.90 -0.5  
 TPNV 3.47 31 (P) 12 59.02 -1.0  
 MEMM 3.68 354 (P) 13 00.72 -2.2  
 BONR 3.96 2 (P) 13 04.48 -2.6  
 ARUT 5.58 46 eP 13 29.80 -0.2  
 MSU 6.81 47 (P) 13 47.13 -0.2  
 27 obs. associated

\* JAN 10, 1994 06h 49m 01.80± 1.16s  
 21.115 N ± 9.5km 122.058 E ±26.4km  
 DEPTH = 33.0km (normal)  
 4.1mb ( 8 obs.)

TAIWAN REGION (243)  
 CVP 3.40 184 ePc 49 55.00 1.2  
     eS 50 40.00  
 BAG 4.88 197 eP 50 15.10 0.1

XAN 17.34 321 P 53 01.40 -1.5  
     1.0s 3.60nm 3.5mb  
 TIY 18.52 335 eP 53 18.80 1.2  
     N 10s 0.21um  
 CD2 19.10 304 eP 53 23.70 -0.9  
 HHC 21.60 338 eP 53 51.20 0.2  
     0.8s 9.00nm 4.2mb  
 LZH 21.81 317 Pc 53 54.50 1.3  
     1.6s 25.00nm 4.4mb  
 GTA 26.37 319 eP 54 37.00 0.0  
     1.5s 6.00nm 4.0mb  
 WRA 42.54 163 P 56 54.50 -1.6  
     0.7s 2.70nm 4.1mb  
 WB2 42.54 163 eP 56 52.80 -3.4X  
     1.1s 2.20nm 3.8mb  
     i 56 58.50  
 GBA 43.13 268 P 57 05.00 3.9X  
 ASPA 45.98 165 iPd 57 28.20 4.4X  
     0.5s 3.10nm 4.5mb  
 GEC2 85.72 321 PKP 01 39.10 0.2  
     1.1s 1.87nm 4.2mb  
 S.D. = 1.2 on 10 of 13 obs.

JAN 10, 1994 06h 55m 35.66± 0.71s  
 42.350 N ± 5.6km 19.470 E ± 5.0km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 1.8 (TTG).

TTG 0.17 297 iPg 55 40.71 1.1  
     iSg 55 44.90  
 ULC 0.42 203 iPg 55 44.23 0.0  
     iSg 55 51.08  
 PVY 0.45 56 iPg 55 45.03 0.2  
     iSg 55 52.55  
 BDV 0.48 262 iPg 55 45.26 -0.2  
     iSg 55 53.06  
 NKY 0.58 323 iPg 55 47.06 -0.4  
     iSg 55 56.35  
 IVA 0.61 31 iPg 55 47.80 -0.2  
     iSg 55 57.58  
 HCY 0.73 278 iPg 55 49.62 -0.3  
     iSg 56 00.77  
 BRY 0.88 309 iPg 55 52.37 -0.3  
     iSg 56 05.67  
 PLE 0.98 357 iPg 55 54.34 0.0  
     iSg 56 09.27  
 S.D. = 0.5 on 9 of 9 obs.

? JAN 10, 1994 07h 44m 46.72± 1.24s  
 22.664 S ±45.0km 179.743 E ±28.3km  
 DEPTH = 600.0km (geophysicist)  
 4.5mb ( 6 obs.)  
 SOUTH OF FIJI ISLANDS (171)

DZM 12.32 270 iPc 47 32.30 3.6  
 ARMA 26.26 247 iPd 49 38.20 0.3  
     0.4s 3.00nm 4.3mb  
 CNB 29.29 238 iPc 50 04.90 0.9  
 TOO 32.94 235 iPd 50 35.40 0.7  
     0.7s 34.00nm 5.1mb  
 STK 34.98 246 eP 50 52.00 0.3  
     0.5s 3.10nm 4.2mb  
 ASPA 42.02 259 iPc 51 47.50 -1.2  
     0.4s 13.10nm 4.8mb  
     eS 57 28.90  
 WB2 42.26 265 iPd 51 48.60 -2.0  
     0.3s 12.00nm 4.9mb  
     eS 57 33.10  
 WRA 42.27 265 P 51 48.80 -1.9  
     0.6s 4.50nm 4.2mb  
 WARB 48.20 255 eP 52 34.50 -1.7  
 HFS 141.29 349 ePKP 02 57.70 -13.3X  
     0.4s 1.40nm  
 CLL 149.61 343 iPKPc 03 24.50 -0.4  
     0.9s 18.00nm  
     i 03 31.40  
 BRG 149.74 342 iPKP 03 25.00 -0.1  
     0.6s 20.00nm  
 PRU 150.35 341 ePKP 03 26.00 0.0  
 KHC 151.40 341 ePKP 03 28.50 0.8  
     e 03 40.00  
 GEC2 151.62 340 PKP 03 28.80 0.7  
     0.9s 1.93nm  
     e 03 40.10  
 S.D. = 1.6 on 14 of 15 obs.



10d 07h

\* JAN 10, 1994 07h 51m 25.76± 0.80s  
0.730 S ± 8.9km 98.500 E ±11.8km  
DEPTH = 30.1km ( 5 depth phases)  
5.0mb ( 21 obs.) 4.7MsZ ( 1 obs.)  
SOUTHERN SUMATERA, INDONESIA (274)

KGM 5.54 60 ePc 52 49.00 0.7  
0.7s 96.60nm 5.5mb

IPM 5.85 26 ePc 52 52.90 0.2  
1.0s 149.60nm 5.6mb

SNG 8.13 15 eP 53 23.90 -0.9

NST 16.38 6 eP 55 17.50 2.3

BDT 17.87 2 eP 55 32.00 -1.9

0.6s 21.40nm 4.5mb

KKM 18.92 69 eP 55 49.00 2.0

0.7s 130.30nm 5.3mb

CHTO 19.43 1 eP 55 50.60 -2.2

TSM 19.99 75 ePd 55 57.80 -1.0

GBA 25.27 305 P 56 42.00 -9.2X

KMI 26.03 9 eP 57 00.00 1.6

0.8s 40.00nm 5.1mb

GYA 28.15 16 iPc 57 17.40 -0.3

1.0s 71.00nm 5.3mb

Z 16s 0.59um 4.3MsZ

LSA 31.06 348 Pc 57 44.40 0.4

0.8s 15.00nm 4.9mb

XAN 35.94 15 Pc 58 24.70 -1.0

0.6s 48.00nm 5.6mb

Z 15s 0.58um 4.5MsZ

LZH 36.96 7 P 58 33.50 30km

1.0s 64.00nm 5.4mb

pP 58 41.50 23km

sP 58 44.80

NJ2 37.87 29 Pc 58 41.80 0.0

SSE 38.29 32 Pc 58 45.00 -0.4

0.8s 13.00nm 4.8mb

Z 20s 1.10um 4.7MsZ

WRA 39.93 121 P 58 58.80 -0.4

0.6s 11.90nm 4.8mb

WB2 39.94 121 iPd 58 58.30 -1.0

0.6s 34.40nm 5.3mb

i 59 08.40 35km

i 01 05.20

GTA 39.96 2 eP 58 59.80 0.4

1.0s 6.00nm 4.3mb

TIY 40.36 17 eP 59 00.50 -2.1

Z 14s 0.48um 4.5MsZ

ASPA 41.20 126 iPc 59 09.80 0.1

0.6s 13.50nm 4.9mb

BTO 42.45 13 eP 59 20.50 0.7

HHC 43.06 15 P 59 26.00 1.3

0.8s 11.00nm 4.6mb

BJI 43.67 20 eP 59 30.00 0.5

1.2s 15.00nm 4.7mb

WMQ 45.40 349 iPd 59 45.00 1.5

PP 01 30.60

CN2 50.46 25 P 00 21.10 -1.7

0.6s 11.00nm 5.0mb

STK 51.11 132 eP 00 28.60 0.6

0.8s 6.80nm 4.6mb

YAK 66.91 15 iPc 02 16.50 -0.6

1.0s 55.00nm 5.6mb

GEC2 87.11 319 P 04 10.40 0.2

1.2s 2.47nm 4.3mb

e 04 20.20 31km

HFS 88.03 330 eP 04 15.10 0.9

0.4s 1.00nm 4.4mb

S.D. = 1.2 on 29 of 30 obs.

? JAN 10, 1994 09h 00m 53.43± 5.60s

35.080 S ±51.9km 71.128 W ±19.7km

DEPTH = 110.0km (geophysicist)

CENTRAL CHILE (136)

MD 4.1 (SAN).

CACH 1.05 25 iPd 01 15.67 0.0

iS 01 32.52

LNV 1.15 348 iPd 01 16.61 0.2

iS 01 33.75

TACH 1.43 6 iPd 01 19.71 -0.1

iS 01 39.10

PCH 1.54 19 iPd 01 21.22 0.0

iS 01 42.25

LCCH 1.64 347 eP 01 22.01 -0.3

FCH 1.88 22 iP+ 01 43.16  
iS 01 25.63 -0.1  
PEL 1.97 11 iPd 01 26.65 0.1  
iS 01 51.68  
ROCH 2.10 3 iP+ 01 28.98 0.5  
eS 01 55.15  
JACH 2.43 11 iP+ 01 32.40 -0.3  
iS 02 01.51

S.D. = 0.3 on 9 of 9 obs.

? JAN 10, 1994 09h 45m 30.61±10.19s

39.039 N ±67.9km 30.296 E ±63.3km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.8 (ISK).

ALT 0.15 277 iPc 45 33.30 -0.8

eSg 45 36.50

DST 1.41 294 ePn 45 57.00 0.6

IZI 1.44 334 ePn 45 56.40 -0.5

EYL 1.53 356 ePn 45 58.30 0.2

S.D. = 1.1 on 4 of 4 obs.

\* JAN 10, 1994 10h 05m 12.51± 3.49s

33.415 S ± 7.4km 72.234 W ±25.9km

DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)

MD 4.1 (SAN).

LCCH 0.56 96 iP+ 05 24.00 0.2

iS 05 32.10

IHA 0.63 52 iPc 05 25.60 0.4

iS 05 35.20

LNV 0.87 128 iP+ 05 29.24 0.0

iS 05 41.38

TACH 1.11 103 iPd 05 32.96 -0.4

iS 05 48.32

ROCH 1.12 67 iPd 05 33.47 -0.1

iS 05 48.74

SAN 1.32 92 iP+ 05 36.63 -0.2

iS 05 53.62

PEL 1.33 79 iPd 05 37.11 0.1

iS 05 54.76

PCH 1.45 99 iPd 05 38.70 -0.2

CACH 1.53 118 iPd 05 40.34 0.3

JACH 1.56 63 iPd 05 39.84 -0.6

iS 06 01.51

FCH 1.63 87 iP+ 05 41.95 0.3

eS 06 03.77

S.D. = 0.4 on 11 of 11 obs.

? JAN 10, 1994 10h 08m 12.49± 0.97s

39.105 N ± 8.1km 72.510 E ±14.5km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

IZM 0.73 195 ePg 08 26.90 0.0

eSg 08 38.40

DST 1.00 60 iPn 08 31.50 0.0

EDC 1.27 12 ePn 08 36.00 -0.1

KGT 1.35 353 iPn 08 37.40 0.0

GBZT 2.24 41 ePg 09 01.10 10.9X

iSg 09 02.10

S.D. = 0.1 on 4 of 5 obs.

? JAN 10, 1994 10h 08m 20.98± 6.18s

33.449 S ±12.1km 72.133 W ±51.2km

DEPTH = 33.0km (normal)

OFF COAST OF CENTRAL CHILE (134)

MD 3.9 (SAN).

LCCH 0.47 93 iP+ 08 29.80 -1.4

iS 08 38.01

LNV 0.79 130 iP+ 08 35.06 -0.5

iS 08 47.46

TACH 1.02 102 iPd 08 38.78 -0.2

iS 08 54.37

ROCH 1.05 63 eP 08 39.30 -0.4

PEL 1.25 76 iPd 08 42.98 0.7

iS 09 01.07

PCH 1.36 98 iPd 08 44.47 0.5

CACH 1.44 118 iPd 08 45.78 0.7

iS 09 07.08

JACH 1.50 60 eP 08 45.72 -0.3

FCH 1.55 86 iP+ 08 47.75 0.9

S.D. = 0.9 on 9 of 9 obs.

% JAN 10, 1994 10h 12m 28.99± 0.60s

26.425 S ± 5.3km 27.471 E ± 8.0km

DEPTH = 10.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

mbLg 3.0 (BUL). ML 2.9 (PRE).

PRY 0.50 180 eP 12 39.20 0.0

S 12 47.10

KSR 0.76 317 eP 12 43.50 -0.5

S 12 54.00

KSR 0.76 317 eP 13 31.00 47.0X

S 13 41.00

BFS 0.77 232 eP 12 44.90 0.7

S 12 55.30

SLR 1.00 47 iPd 12 48.00 -0.1

S 13 01.00

SLR 1.00 47 eP 13 26.00 37.9X

SEK 1.90 176 eP 13 13.00 11.2X

S 13 37.50

BFT 2.43 73 eP 13 15.50 6.0X

S 13 45.50

BOSA 2.84 219 eP 13 19.30 4.1X

BOSA 2.84 219 eP 13 19.60 4.4X

S 13 55.10

BLF 2.90 203 eP 13 15.60 -0.7

S 13 55.60

BLF 2.90 203 eP 13 18.70 2.4X

BUL 6.34 10 iPn 14 05.30 0.4

iSn 15 10.30

iSg 15 44.00

CIR 6.57 36 iPn 14 08.20 0.1

iSn 15 22.50

iSg 15 52.10

SUR 8.30 223 eP 14 23.00 -9.5X

S.D. = 0.6 on 7 of 15 obs.

\* JAN 10, 1994 10h 14m 27.72± 3.44s

33.420 S ± 7.3km 72.226 W ±25.6km

DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)

MD 4.2 (SAN).

LCCH 0.55 96 iP+ 14 39.13 0.2

iS 14 47.62

IHA 0.63 51 iPc 14 40.80 0.5

iS 14 50.40

LNV 0.86 128 iP+ 14 44.40 0.1

iS 14 56.42

TACH 1.10 103 iP+ 14 48.01 -0.4

iS 15 03.77

ROCH 1.11 67 iPd 14 48.66 -0.1

iS 15 04.74

SAN 1.31 92 iP+ 14 51.69 -0.3

iS 15 08.90

PEL 1.32 78 iP+ 14 52.19 0.1

iS 15 10.13

PCH 1.44 98 iPd 14 54.16 0.2

CACH 1.52 118 iPd 14 55.23 0.1

iS 15 17.72

JACH 1.56 62 iPd 14 54.99 -0.6

iS 15 16.84

FCH 1.62 87 iPd 14 56.87 0.1

iS 15 20.28

CFA 3.82 63 e(P) 15 32.50 4.6X

S.D. = 0.3 on 11 of 12 obs.

\* JAN 10, 1994 10h 17m 53.13± 3.49s

33.415 S ± 7.4km 72.227 W ±25.9km

DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)

MD 3.9 (SAN).

LCCH 0.55 96 iP+ 18 04.61 0.3

iS 18 12.64

IHA 0.63 52 eP 18 06.



10d 10h

CACH 1.53 118 iP+ 18 20.92 0.3  
 JACH 1.56 62 iPd 18 20.38 -0.6  
 FCH 1.62 87 eP 18 22.35 0.2  
 S.D. = 0.4 on 11 of 11 obs.

% JAN 10, 1994 10h 18m 30.85± 0.68s  
 44.558 N ± 5.4km 7.486 E ± 6.8km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 2.0 (GEN).

PZZ 0.28 259 P 18 37.14 0.3  
 BHB 0.33 331 P 18 38.23 0.6  
 STV 0.33 200 P 18 37.50 -0.3  
 ENR 0.33 188 P 18 37.96 0.1  
 ROB 0.38 134 P 18 40.07 1.4  
 RSP 0.62 345 P 18 42.54 -0.8  
 FIN 0.62 124 P 18 43.09 -0.3  
 IMI 0.71 156 P 18 43.82 -1.1  
 S.D. = 0.9 on 8 of 8 obs.

? JAN 10, 1994 10h 22m 35.43± 3.51s  
 23.130 S ± 24.2km 173.734 W ± 46.6km  
 DEPTH = 33.0km (normal)  
 5.2mb ( 4 obs.)

TONGA ISLANDS REGION (174)

RAO 7.16 211 P 24 21.50 1.0  
 BKM 17.74 285 iPc 26 49.00 7.4X  
 DZM 18.33 269 iPc 26 49.10 0.1  
 TOO 37.71 238 eP 29 47.30 -2.5  
 STK 40.34 248 eP 30 09.80 -1.9  
 ASPA 47.83 258 iPd 31 13.40 1.2  
 WB2 48.19 263 iPd 31 15.60 0.6  
 WRA 48.20 263 P 31 15.90 0.8  
 FORT 51.95 248 eP 31 43.20 -0.4  
 COOL 57.83 247 eP 32 26.00 -0.3  
 KLB 60.56 246 eP 32 46.00 0.8  
 MBL 61.07 258 eP 32 51.40 2.6X  
 BAL 61.64 247 eP 32 53.20 0.7  
 HFS 142.66 354 ePKP 42 31.20 24.8X  
 CLL 151.39 351 i(PKP) 42 55.70 35.0X  
 S.D. = 1.4 on 11 of 15 obs.

& JAN 10, 1994 10h 31m 24.66s  
 59.375 N 153.287 W  
 DEPTH = 110.7km

SOUTHERN ALASKA ( 2)  
 <AEIC>. Double event.

AUE 0.05 250 iPd 31 39.40 0.9  
 AUP 0.07 260 eP 31 39.15 0.5  
 AGU 0.08 259 ePd 31 39.61 0.9  
 AUH 0.08 262 iPd 31 39.54 0.9  
 AUI 0.08 241 iPd 31 39.31 0.8  
 AUW 0.09 267 iPd 31 39.51 0.9  
 OPT 0.28 6 ePd 31 39.94 0.8  
 CDD 0.48 202 eP 31 40.72 -1.0  
 MCNL 0.57 251 iPd 31 41.48 -0.8  
 PDB 0.62 312 iPd 31 41.90 -0.8  
 INE 0.70 9 ePd 31 42.55 -1.0  
 ILIM 0.73 13 ePd 31 42.57 -1.1  
 XLV 0.80 84 eP 31 43.41 -0.9  
 HOM 0.88 71 ePd 31 44.42 -0.6  
 SYI 0.90 148 ePc 31 43.94 -1.2  
 CNPM 1.06 81 ePd 31 45.87 -1.0

RED 1.08 14 iPd 31 46.15 -1.0  
 RS2 1.12 14 iPd 31 46.87 -0.9  
 RDW 1.14 12 iPd 31 46.95 -0.9  
 REF 1.16 15 ePd 31 47.12 -1.0  
 NCT 1.20 8 ePd 31 47.57 -1.0  
 DFR 1.26 14 iPd 31 48.26 -0.9  
 BRLK 1.28 71 eP 31 48.20 -1.2

KDC 1.68 165 eP 31 51.11 -3.0  
 NKA 1.71 36 eP 31 55.36 0.9  
 BKG 1.78 16 iPd 31 54.51 -0.9  
 CKL 1.89 14 eP 31 56.11 -0.7  
 CKT 1.91 16 ePd 31 56.11 -1.0  
 SPU 1.91 18 ePd 31 56.04 -1.1  
 SLKM 1.92 52 eP 31 55.70 -1.4  
 CKN 1.94 16 eP 31 56.59 -0.8  
 BGL 1.95 13 ePd 31 56.88 -0.7  
 CP2 1.97 15 eP 31 56.78 -1.2  
 CRP 1.98 16 eP 31 56.47 -1.6  
 CGLM 2.04 18 ePd 31 57.79 -1.0  
 SEW 2.08 68 eP 31 57.88 -1.2  
 SVW 2.09 327 eP 31 57.79 -1.6  
 NCG 2.11 15 eP 31 58.86 -0.9  
 MPA 2.27 59 eP 32 00.47 -1.2  
 SUA 2.45 30 ePd 32 03.29 -0.8  
 SKT 2.75 18 ePc 32 06.88 -1.2

PWA 2.84 35 P 32 08.30 -0.9  
 FWL 2.89 57 ePd 32 08.00 -2.0  
 MTU 2.92 75 ePc 32 08.70 -1.7  
 PLRM 3.03 41 eP 32 10.01 -1.7  
 PMR 3.03 41 eP 32 09.72 -2.0  
 KNK 3.15 47 eP 32 11.35 -2.1

GHO 3.23 40 eP 32 12.58 -2.0  
 CFI 3.29 54 eP 32 13.27 -2.0  
 CUT 3.38 25 eP 32 15.23 -1.2  
 SML 3.45 43 eP 32 15.56 -2.0  
 HIN 3.57 70 eP 32 17.08 -2.1  
 TTA 3.80 341 eP 32 19.76 -2.6  
 VLZ 3.89 60 eP 32 21.35 -2.0  
 CVA 3.97 70 eP 32 22.20 -2.3  
 KLU 4.22 57 eP 32 25.86 -2.2  
 TRF 4.34 18 eP 32 28.45 -1.3  
 TOA 4.44 49 P 32 29.80 -1.2  
 KAIM 4.54 79 eP 32 30.73 -1.5  
 HMT 4.65 74 eP 32 31.71 -2.2  
 DHY 4.69 35 eP 32 31.99 -2.5  
 TZL 4.70 52 eP 32 33.27 -1.2  
 GLE 5.13 62 eP 32 38.39 -2.2  
 PAX 5.23 43 eP 32 40.28 -1.6  
 SNH 5.34 77 eP 32 41.41 -2.0  
 TGL 5.42 71 eP 32 41.95 -2.5  
 BALM 5.71 68 eP 32 45.81 -2.6  
 YAH 5.90 75 eP 32 49.40 -1.8  
 CTGM 6.18 70 eP 32 52.88 -2.1  
 IL1 6.19 26 eP 32 52.48 -2.5  
 BC3 6.67 51 eP 32 59.80 -1.8  
 71 obs. associated

? JAN 10, 1994 10h 47m 03.07± 1.02s  
 39.108 N ± 7.9km 27.495 E ± 14.7km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.7 (ISK).

IZM 0.73 194 ePg 47 17.40 -0.1  
 DST 1.01 60 ePn 47 22.40 0.2  
 EDC 1.27 13 ePn 47 26.00 -0.6  
 KGT 1.35 354 iPn 47 28.40 0.5  
 S.D. = 0.8 on 4 of 4 obs.

% JAN 10, 1994 10h 58m 12.20± 1.55s  
 32.602 S ± 16.0km 70.788 W ± 12.7km  
 DEPTH = 70.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.6 (SAN).

JACH 0.18 116 iPd 58 23.04 0.0  
 ROCH 0.41 207 iPd 58 24.54 -0.1  
 PEL 0.55 171 iPd 58 25.61 -0.1

FCH 0.84 150 iS 58 35.71  
 PCH 1.04 167 eP 58 31.13 -0.5  
 TACH 1.06 187 iP+ 58 31.23 -0.5

LCCH 1.09 217 iPd 58 32.53 0.4  
 LNV 1.45 201 iPd 58 36.57 -0.2

CACH 1.52 174 iP 58 38.77 0.8  
 S.D. = 0.5 on 9 of 9 obs.

JAN 10, 1994 11h 32m 04.58± 0.80s  
 39.228 N ± 8.5km 22.078 E ± 6.2km  
 DEPTH = 80.0km (geophysicist)

GREECE (364)

AGG 0.28 136 iPg 32 17.24 0.3  
 LIT 0.93 20 iPg 32 23.46 0.4  
 IGT 1.39 283 iPbc 32 28.52 -0.3

PAIG 1.42 60 iPb 32 28.88 -0.4  
 THE 1.56 26 iPbd 32 30.98 -0.1  
 FNA 1.65 341 iPb 32 32.73 0.5

GRG 1.74 8 ePb 32 33.48 -0.1  
 OUR 1.84 52 ePb 32 34.84 0.1  
 KNT 2.03 18 ePn 32 37.68 0.2

OHR 2.12 333 ePn 32 38.50 -0.2  
 SRS 2.22 31 iPn 32 39.57 -0.4  
 S.D. = 0.3 on 11 of 11 obs.

? JAN 10, 1994 11h 35m 10.64± 7.91s  
 10.853 N ± 25.8km 65.974 W ± 57.6km  
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF VENEZUELA ( 97)

LLAV 0.90 245 eP 35 28.20 0.2  
 CAR 1.00 250 eP 35 29.00 -0.6  
 OLLA 1.16 225 iP 35 32.50 0.0

GUAC 1.43 243 eP 35 38.70 1.9  
 MORO 2.30 271 eP 36 18.10 28.8X  
 CANV 2.81 274 eP 35 56.20 -0.3

CEOS 2.95 232 eP 35 57.20 -1.2  
 S.D. = 1.4 on 6 of 7 obs.

% JAN 10, 1994 11h 39m 05.76± 0.81s  
 39.702 N ± 7.3km 29.502 E ± 7.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.6 (ISK).

IZI 0.63 358 iPg 39 18.30 -0.2  
 DST 0.68 262 ePg 39 19.00 -0.3  
 ALT 0.80 144 ePg 39 21.40 0.0

EYL 1.00 30 ePn 39 24.80 0.0  
 EDC 1.41 298 ePn 39 32.00 0.5  
 S.D. = 0.5 on 5 of 5 obs.

% JAN 10, 1994 12h 57m 57.97± 0.69s  
 40.234 N ± 8.4km 29.245 E ± 5.1km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.7 (ISK).

IZI 0.20 59 iPg 58 02.30 -0.2  
 EYL 0.77 64 ePg 58 13.20 0.1  
 EDC 1.06 277 ePn 58 18.00 0.0

CTT 1.10 326 iPn 58 18.80 0.1  
 ALT 1.35 150 ePn 58 23.00 0.1



10d 12h

KGT 1.50 279 ePn 58 24.80 -0.1  
S.D. = 0.1 on 6 of 6 obs.

& JAN 10, 1994 13h 07m 11.16s  
35.556 N 120.816 W  
DEPTH = 4.8km  
CENTRAL CALIFORNIA (39)  
<GM-P>. MD 2.9 (GM). ML 2.9  
(BRK), 2.8 (PAS), 2.8 (GS). Felt  
(III) at Paso Robles.

PANM 0.24 342 P 07 16.31 0.4  
WKR 0.36 44 P 07 18.82 0.5  
PHAM 0.44 50 eP 07 19.85 -0.1  
PSTM 0.45 34 P 07 20.04 -0.1  
PMRM 0.52 64 P 07 21.59 -0.1  
PSMM 0.54 19 P 07 22.15 0.1  
PRI 0.60 12 iPd 07 23.15 0.0  
PJLM 0.60 333 P 07 22.96 -0.2  
BCH 0.70 122 eP 07 24.42 -0.8

LRC 0.71 345 P 07 24.86 -0.6  
BTW 0.76 353 P 07 25.86 -0.6  
PKEM 0.76 49 eP 07 27.20 0.7  
PARM 0.79 29 P 07 28.28 1.3  
PHBM 0.91 41 P 07 30.29 1.2  
CRGC 0.95 109 P 07 29.65 -0.1  
EKH 1.14 345 P 07 32.93 -0.1  
BSRM 1.25 333 P 07 33.29 -1.5  
BSLM 1.29 341 P 07 35.32 -0.2  
SAO 1.31 337 eP 07 34.05 -1.8  
HJSM 1.32 343 P 07 35.29 -0.7  
CSR 1.53 336 P 07 37.61 -1.6  
HGMW 1.61 335 P 07 38.52 -1.8  
JBZM 1.66 332 P 07 39.93 -1.1  
FRI 1.69 32 iPd 07 40.28 -1.2  
JSTM 1.83 335 P 07 41.90 -1.6  
COE 1.83 338 eP 07 42.34 -1.2  
ARN 1.88 342 eP 07 42.45 -1.9  
CMB 2.50 8 eP 07 52.42 -0.8  
MMPM 2.50 35 eP 07 53.42 -0.1  
MTUM 2.55 45 (P) 07 54.19 0.1  
BHPR 2.56 47 P 07 54.47 0.2  
MEMM 2.59 35 eP 07 54.83 0.4  
SSK 2.90 117 eP 07 57.05 -2.0  
BONR 3.13 39 eP 08 02.62 0.2  
TPNV 3.94 68 ePn 08 12.93 -0.9

35 obs. associated

% JAN 10, 1994 13h 50m 43.29± 0.76s  
39.661 N ± 7.1km 29.478 E ± 6.7km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

DST 0.66 265 ePg 50 56.20 -0.3  
eSg 51 07.00  
IZI 0.67 360 iPg 50 56.30 -0.4  
ALT 0.78 141 ePg 50 58.50 0.0  
eSg 51 11.00  
EYL 1.04 30 iPg 51 03.30 0.3  
EDC 1.42 299 ePn 51 09.00 -0.1  
KGT 1.85 296 iPn 51 15.80 0.5

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

JAN 10, 1994 14h 22m 17.06± 0.57s  
40.952 N ± 5.9km 20.812 E ± 5.2km  
DEPTH = 10.0km (geophysicist)  
GREECE-ALBANIA BORDER REGION (392)  
ML 2.7 (THE), 2.5 (SKO).

OHR 0.16 356 iPg 22 21.00 0.2  
0.4s 250.00nm  
iSg 22 25.80  
FNA 0.46 111 iPg 22 24.72 -1.7  
eSg 22 31.76  
LSK 0.82 191 ePn 22 31.70 -1.2  
TIR 0.82 299 ePn 22 30.20 -2.7  
iSn 22 53.00  
LACI 1.08 310 ePn 22 39.80 2.5  
VLO 1.11 245 ePn 22 38.00 0.1  
SKO 1.12 25 ePn 22 37.00 -1.1  
i 22 40.00

GRG 1.20 89 iPg 22 39.04 -0.5  
eSg 22 55.44  
VAY 1.38 74 ePn 22 42.40 0.1  
IGT 1.46 195 iPbd 22 44.68 1.2

LIT 1.54 123 iSb 23 06.04  
eSb 23 07.08  
KNT 1.59 82 iPbc 22 45.36 0.0  
eSb 23 08.08  
SRS 2.11 85 ePn 22 54.04 1.2  
AGG 2.25 148 iPnd 22 55.04 0.1  
eSn 23 23.92  
PAIG 2.42 114 ePn 22 57.48 0.3  
OUR 2.49 103 ePn 22 59.20 1.0

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

JAN 10, 1994 14h 25m 37.58± 0.96s  
13.704 N ± 4.8km 91.293 W ± 4.3km  
DEPTH = 27.4 ± 6.3 km  
5.1mb (30 obs.)

NEAR COAST OF GUATEMALA (71)

TPX 1.52 322 iP 26 01.87 -1.3  
iS 26 18.00  
SCX 3.28 337 iP 26 33.20 4.9X  
(S) 27 17.63  
OXX 6.22 303 iP 27 10.11 -0.1  
(S) 28 17.12

LVVM 7.77 321 (P) 27 26.26 -5.5X  
PPM 8.83 308 iP 27 46.12 -0.8  
iS 29 19.14

UNM 9.41 308 (P) 27 56.00 1.3  
CRX 9.84 306 (P) 28 01.00 0.3  
MRX 11.20 304 iP 28 19.03 0.0

LTX 19.32 326 eP 30 02.55 -1.2  
UYO 20.57 353 iPc 30 15.80 -1.2  
OXF 20.79 4 eP 30 18.68 -0.4

SDV 20.81 101 eP 30 20.50 0.8  
MIAR 20.85 355 eP 30 19.33 -0.5  
1.3s 122.31nm 5.2mb

GOGA 20.87 19 eP 30 20.91 0.9  
1.0s 64.89nm 5.0mb  
TOV 21.40 98 eP 30 31.60 6.0X

MEO 22.00 344 iPd 30 29.40 -2.0  
WMOK 22.01 343 eP 30 30.64 -0.9  
0.8s 51.72nm 5.0mb

FNO 22.16 347 iPc 30 33.00 0.0  
MYNC 22.24 16 eP 30 33.21 -0.6  
0.9s 64.65nm 5.1mb

JSC 22.41 22 eP 30 36.24 0.8  
OCO 22.43 347 iPc 30 37.00 1.3  
TUL 22.48 350 iPd 30 34.90 -1.2

LHS 22.76 23 (P) 30 39.99 1.1  
LST 22.77 3 eP 30 38.07 -0.9  
ELC 23.56 4 eP 30 46.56 0.0

ACO 23.95 344 iPd 30 50.80 0.3  
FVM 24.19 2 eP 30 52.10 -0.7  
1.2s 82.80nm 5.2mb

CEH 24.67 24 eP 30 58.23 0.8  
1.2s 79.67nm 5.2mb  
ALQ 25.20 330 eP 31 03.43 0.7

0.7s 27.73nm 5.0mb  
NAV 25.31 20 eP 31 03.92 0.3  
TUC 25.70 319 eP 31 08.07 0.7

0.9s 35.97nm 5.0mb  
CVL 26.74 23 eP 31 17.40 0.7  
CBN 27.35 24 eP 31 08.00 -14.3X

e 31 22.00  
GOL 28.71 337 eP 31 34.89 0.0  
0.8s 21.00nm 4.9mb

GLA 28.82 316 eP 31 35.74 0.0  
PV08 29.16 331 eP 31 39.38 0.3  
PV10 29.18 331 eP 31 38.86 -0.3

PV09 29.32 331 eP 31 40.68 0.2  
PLM 30.39 314 eP 31 49.86 -0.1  
SRU 30.48 330 eP 31 50.66 0.0

YSNY 30.72 19 eP 31 52.21 -0.4  
0.9s 45.96nm 5.3mb  
MSU 30.87 327 eP 31 54.57 0.4

PEC 30.90 315 eP 31 54.02 -0.2  
1.4s 43.55nm 5.1mb  
ARUT 31.04 325 eP 31 56.18 0.6

EMUT 31.16 330 eP 31 56.58 -0.2  
GSC 31.47 318 eP 32 00.01 0.7  
DAU 31.84 330 eP 32 03.20 0.4

TPNV 32.14 321 eP 32 05.21 0.0  
0.9s 19.91nm 5.0mb  
RSSD 32.22 343 eP 32 05.19 -0.7

0.8s 10.29nm 4.8mb  
DUG 32.45 328 eP 32 07.80 -0.1  
1.2s 31.58nm 5.1mb

BW06 32.98 335 eP 32 12.12 -0.5  
0.7s 8.10nm 4.8mb  
TNP 33.45 321 (P) 32 17.38 0.7  
0.8s 13.17nm 4.9mb  
HVU 33.63 330 eP 32 18.47 0.4

BONR 34.04 320 eP 32 22.15 0.2  
PHAM 34.19 315 (P) 32 23.09 0.2  
KVN 34.60 322 eP 32 26.56 0.0  
CMB 35.41 318 eP 32 33.15 -0.2

1.0s 13.14nm 4.8mb  
ARN 35.77 317 eP 32 36.10 -0.3  
LRM 36.67 335 eP 32 44.50 0.4

ORV 37.00 320 eP 32 46.77 0.1  
LPAZ 37.58 142 P 32 52.70 0.3  
LBFM 38.30 322 eP 32 58.03 0.2

KMPM 39.14 319 eP 33 05.44 0.7  
FHC 39.27 320 eP 33 05.73 0.0  
1.0s 103.32nm 5.5mb

VIPM 39.58 327 P 33 08.87 0.4  
JBO 39.82 328 P 33 10.50 0.3  
CROR 40.09 327 P 33 14.26 1.7

VGB 40.34 328 eP 33 14.84 0.3  
VBEM 40.46 327 P 33 17.24 1.6  
NEW 40.56 333 eP 33 15.97 -0.3

0.9s 27.57nm 5.0mb  
WAH2 40.58 330 P 33 17.24 0.8  
DPW 40.75 332 eP 33 17.72 -0.1

RNO 40.93 324 P 33 21.11 1.7  
SAW 41.18 331 P 33 21.70 0.3  
EBG 41.18 329 P 33 22.42 1.0

ASR 41.19 328 P 33 22.62 1.1  
WTV 41.44 331 P 33 24.36 0.8  
LON 41.70 328 eP 33 25.45 -0.2

KMOR 41.86 326 P 33 29.26 2.2  
SIV 41.99 134 P 33 28.60 0.3  
RMW 42.18 329 eP 33 29.60 0.0

BMW 42.25 327 eP 33 30.32 0.1  
GMW 42.73 329 eP 33 33.48 -0.6  
JCW 42.74 330 P 33 33.59 -0.5

ONR 42.80 327 P 33 36.56 2.0  
MOCB 42.91 144 P 33 37.20 0.9  
MCW 43.51 330 eP 33 39.63 -0.8

STW 43.57 329 P 33 42.51 1.7  
YKA 51.47 346 P 34 40.80 -1.6  
1.0s 48.00nm 5.4mb

BALM 59.80 334 eP 35 42.15 -0.5  
KLU 61.55 334 eP 35 53.99 -0.5  
TOA 61.92 334 eP 35 57.10 0.1

RUW 62.47 245 eP 36 01.10 -0.1  
TPT 62.59 245 eP 35 59.80 -2.2  
VAH 62.71 245 eP 35 59.50 -3.3X

PMO 62.85 245 eP 35 58.60 -5.1X  
PMR 62.99 333 eP 36 03.39 -0.6  
1.2s 116.29nm 5.9mb

PMS 63.05 333 eP 36 03.40 -1.1  
SLKM 63.08 332 eP 36 03.89 -0.8  
KDC 63.27 328 eP 36 05.36 -0.5

0.8s 23.55nm 5.4mb  
FBA 63.79 337 eP 36 08.16 -1.1  
1.1s 34.87nm 5.4mb

CRP 64.23 332 eP 36 11.26 -1.1  
CP2 64.27 332 eP 36 11.96 -0.7  
SVW 65.78 331 eP 36 21.32 -0.9

0.6s 36.06nm 5.7mb  
TTA 66.47 333 eP 36 25.52 -1.1  
1.3s 64.79nm 5.6mb

IMA 66.50 337 eP 36 25.57 -1.3  
1.3s 13.21nm 4.9mb  
ANM 70.89 334 eP 36 53.37 -0.5

DAG 72.76 13 iPd 37 03.20 -1.7  
0.4s 12.71nm 5.3mb  
ADK 76.52 321 eP 37 27.16 0.3

0.8s 55.17nm 5.6mb  
EKA 77.80 36 P 37 34.00 0.1  
1.0s 10.10nm 4.8mb

LKO 83.65 82 P 38 05.63 -0.1  
1.2s 22.00nm 5.2mb  
TIC 84.85 84 P 38 11.60 -0.1

LIC 84.93 85 P 38 12.00 -0.1  
KIC 85.18 85 P 38 10.40 -3.0X  
WMQ 122.75 1 ePKP 44 33.80 1.0

TIY 124.21 337 ePKP 44 35.00 -0.8  
LZH 128.45 344 ePKP 44 42.50 -1.7  
STK 128.51 240 ePKP 44 43.90 -0.3

1.0s 4.30nm  
XAN 128.77 338 PKP 44 44.50 -0.2  
WB2 135.98 255 ePKP 44 57.50 -1.2



PEL	19.75	183	iP+	57	42.40	-0.8
BMG	20.60	350	iPd	57	54.00	2.9X
BDFB	20.88	99	eP	57	53.67	0.0
	0.8s	936	20nm			6.5mb
BAO	20.90	99	Pd	57	53.80	0.0
RIFB	22.05	111	ePc	58	02.80	-1.4
			i	58	04.10	
			e	58	17.50	
			e	58	46.50	
			i	59	12.90	
			i	01	22.30	
SDV	22.11	357	iPd	58	05.00	0.1
CEOS	22.25	3	iP	58	06.70	0.7
RSTA	22.31	123	eP	58	03.50	-2.9X
TOV	22.98	359	iPd	58	13.00	0.4
			iPP	58	13.40	
CACB	23.17	114	ePc	58	13.00	-1.4
			i	58	14.40	
			e	59	20.40	
			iS	01	40.30	
			e	02	05.70	
			e	08	08.00	
			e	11	42.00	
OLLA	23.35	7	iP	58	16.70	0.7
VAO	23.39	117	eP	58	15.00	-1.3
GUAC	23.48	5	iP	58	18.20	1.1
LLAV	23.80	6	iP	58	20.50	0.5
CAR	23.82	6	iPc	58	20.00	-0.2
LPA	23.87	156	iPc+	58	19.00	-1.3
	1.0s	*****nm				7.6mb X
			esP	00	56.00	
			iS	01	50.80	
			eScS	08	12.00	
MORO	24.08	3	iP	58	22.60	0.2
CANV	24.23	1	iP	58	24.30	0.7
UPA	24.33	335	iPd	58	26.09	1.6
PARB	24.67	117	ePc	58	26.40	-1.2
			e	58	27.30	
			e	59	29.60	
			iS	02	03.90	
			e	04	25.20	
TFP	24.81	19	eP	58	32.89	4.2X
TCE	25.07	18	eP	58	32.89	1.9
TBH	25.09	20	eP	58	33.66	2.5
TRN	25.13	19	eP	58	33.20	1.7
SVB	27.66	17	eP	58	53.68	0.1
SVV	27.71	17	eP	58	54.50	0.4
SLB	28.24	17	eP	58	58.81	0.1
SLW	28.46	18	eP	59	00.91	0.3
MVM	28.98	17	ePc	59	04.22	-0.8
DSVT	29.49	16	eP	59	09.43	0.1
DPMT	29.51	16	eP	59	09.03	-0.5
MGG	30.16	16	eP	59	12.78	-2.3
PAG	30.17	15	eP	59	13.46	-1.8
DEG	30.61	16	eP	59	16.01	-2.9X
MBET	30.74	14	eP	59	21.18	1.2
NEV	31.03	13	eP	59	20.66	-1.7
BFA	31.11	14	eP	59	20.08	-3.0X
SKI	31.19	12	eP	59	23.87	0.2
MGP	31.23	4	iP	59	24.00	0.0
PNP	31.32	5	P	59	24.10	-0.7
			PP	01	05.00	
			PcP	01	59.80	
PORP	31.32	5	iP	59	24.40	-0.4
CLLP	31.35	5	iP	59	24.60	-0.4
CFD	31.37	6	iP	59	24.30	-1.0
SJG	31.42	6	iPd	59	25.09	-0.6
			epPd	01	02.09	
			PP	01	09.10	
			esPc	02	10.95	
LRS	31.54	5	iP	59	26.00	-0.6
CSB	31.59	6	P	59	27.30	0.2
			PP	01	10.10	
LPR	31.64	6	iP	59	26.70	-0.9
APR	31.70	5	P	59	27.50	-0.5
			PP	01	08.80	
			PcP	01	59.00	
HBFB	47.18	34				



CEH	49.80	350	iPd	01	49.99	-1.4	PV08	63.33	326	P	03	24.10	-0.1	Z	19s	3.90um	5.7Msz				
	0.8s	903.39nm			6.4mb	PV10		63.40	326	P	03	23.70	-0.9		(pP)	06	03.63	581kmX			
			ePcP	02	58.85			PV09	63.54	326	P	03	25.40		-0.1	eS	12	28.30			
			iPd	03	36.60	576kmX		PFO	64.68	318	iPd	03	33.09		0.5	eSKS	13	05.30			
MYNC	50.12	344	iPd	01	52.35	-1.4	SRU	64.73	326	P	03	32.70	-0.2	MCMT	69.99	329	iPd	04	05.50	0.8	
	0.7s	852.26nm			6.4mb	ePcP		03	59.24						eP	06	06.20	590kmX			
			ePcP	03	00.55			iPd	05	30.29	584kmX					iPd	04	05.86	0.5		
			ePd	03	40.61	587kmX		PLM	64.80	317	P	03	33.50		0.1	eP	06	04.10	574kmX		
OXF	51.23	339	P	01	59.40	-2.4	TBT	65.00	49	ePd	03	33.75	-0.7	ARN	70.24	318	P	04	06.90	0.9	
BLA	51.33	349	P	02	01.90	-0.7	ADH	65.05	35	eP	03	40.50	5.9X	COE	70.27	318	P	04	07.10	0.9	
NAV	51.50	348	P	02	03.10	-0.7	MSU	65.24	324	P	03	36.40	0.3		MHC	70.30	318	ePd	04	06.19	-0.3
FMSA	51.51	177	iPc	02	02.75	-0.7	RSSD	65.29	333	P	03	36.10	-0.2		1.1s	1670.00nm		6.5mb			
		ePcP	03	03.01		PEC	65.32	317	P	03	36.70	0.2	Z		20s	5.00um		5.8Msz			
CVL	51.74	351	P	02	04.70	-0.8		1.4s	1604.28nm				6.3mb			eP	06	07.19	591kmX		
	51.81	352	iPd	02	05.10	-0.8	PDA	65.33	37	eP	03	37.00	0.6			eS	07	08.19			
	1.0s	875.00nm			6.1mb	FAC	65.36	37	eP	03	38.50	2.0			eS	12	35.19				
			e	02	49.00		EMUT	65.39	326	P	03	37.20	0.2			eS	16	03.19			
MIAR	52.85	335	iPd	02	12.09	-1.4		pP	05	35.00	586kmX					eSKS	17	39.19			
	0.5s	751.89nm			6.4mb	CML	65.42	37	eP	03	38.25	1.3	LRM	70.49	330	iPd	04	07.81	0.2		
		ePcP	03	05.39		LFA	65.46	37	eP	03	38.55	1.3			eP	06	18.40	655kmX			
LST	53.16	340	P	02	14.10	-1.5	ARUT	65.49	323	P	03	38.20	0.6	HBMT	70.55	329	iPd	04	08.27	0.3	
ELC	53.68	340	P	02	17.20	-2.1		pP	05	37.00	592kmX					eP	06	16.20	636kmX		
LTX	53.77	322	P	02	18.70	-1.5	SDCA	65.57	37	e(P)	03	39.00	1.1	BUT	70.69	330	iPd	04	09.20	0.6	
GMTN	54.12	356	iP	02	21.20	-1.1	SSK	65.87	317	P	03	40.40	0.4	STAN	70.69	318	iPd	04	09.59	1.0	
PAL	54.22	356	P	02	21.70	-1.3	GSC	65.96	319	P	03	40.90	0.5		1.3s	3710.00nm		6.8mb			
GPD	54.28	355	P	02	22.40	-1.0		pP	05	39.60	590kmX					eP	06	11.49	596kmX		
TBR	54.38	356	P	02	28.40	4.3X	DAU	66.05	326	P	03	41.50	0.3			eS	07	00.09			
CRNY	54.51	356	P	02	23.60	-1.3		pP	05	38.80	580kmX			HRY	70.83	331	iPd				



JBO	74.10	326	Pd	04	29.23	1.3	EHOR	78.72	47	iPd	04	53.63	0.6	0.7s	963.10nm	6.6mb						
CROR	74.45	325	Pd	04	31.40	1.5	STS	78.90	41	P	04	54.36	0.5	CAF	86.68	42	iPd	05	32.10	-0.5		
NEW	74.49	329	iPd	04	29.70	-0.3	MVO	79.05	43	iPd	04	57.00	2.2	0.1s	4.20nm	5.1mb X						
	1.3s	520.95nm				5.9mb	EPLA	79.17	44	P	04	56.27	0.9	LDF	86.75	38	iPd	05	32.00	-0.8		
		ed	04	31.03			EMEL	79.30	50	P	04	57.08	1.0	LSF	86.84	41	iPd	05	32.60	-0.7		
		epPd	06	32.86	592kmX		ELUQ	79.31	47	P	04	57.52	1.3	TCF	87.29	41	iPd	05	34.60	-0.9		
		esPc	07	33.78			EGUA	79.50	48	iPc	04	57.30	0.2	MAF	87.49	41	iPd	05	35.70	-0.7		
NVL	74.62	160	iPc	04	30.00	-0.4	ECOG	79.69	48	P	04	58.86	0.6	AKU	87.53	19	iP	05	37.50	1.4		
	1.0s	1000.00nm				6.3mb	EBAN	79.91	47	iPd	04	59.97	0.7	1.2s	1375.00nm	6.6mb						
		ipP	06	37.00	616kmX		EMON	79.95	41	P	05	00.08	0.7	i		07	52.80					
		ePP	07	24.00			PAB	80.12	45	iPd	05	00.77	0.3	LBL	87.57	42	P	05	36.80	-0.1		
		ePPP	09	14.00					epPd	07	09.22	610kmX	PYM	87.60	42	P	05	36.57	-0.5			
		iS	13	19.00					ic	08	07.16		GRM	87.72	124	eP	05	37.50	-0.4			
		ePS	13	56.00					i(S)	14	20.60		0.7s	350.00nm	6.3mb							
		esS	16	48.00			ENIJ	80.54	48	iPd	05	01.99	-0.6	Z	20s	14.00um	6.4Msz					
		eSS	18	10.00			EHUE	80.61	48	iPd	05	02.84	-0.2	i		07	53.50					
		eSSS	21	10.00			GUD	80.74	44	P	05	04.46	0.8	AGO	87.80	42	P	05	37.24	-0.6		
		e	24	48.00			EVIA	81.03	47	P	05	05.96	0.8	BGF	87.80	41	iPd	05	37.10	-0.7		
DBO	74.64	322	Pd	04	31.91	0.9	BLE	81.13	123	iPd	05	05.00	-0.6	BOSA	87.90	119	ePd	05	38.10	-0.6		
VGB	74.66	325	P	04	32.00	1.0		0.9s	350.00nm			5.9mb		ipPc	07	46.89	596kmX					
WAH2	74.77	327	Pd	04	32.46	0.9		e	07	16.00			HYF	87.93	40	iPd	05	37.90	-0.5			
DPW	74.78	328	Pd	04	32.27	0.6	EALH	81.48	48	P	05	06.98	-0.3	EKA	87.96	32	Pc	05	38.20	-0.1		
VBEM	74.83	325	Pd	04	33.40	1.3	CER	81.76	122	iPc	04	56.50	-12.4X	1.0s	426.10nm	6.2mb						
RUV	75.16	258	iPd	04	35.50	1.2		1.2s	820.00nm				COLF	87.97	42	P	05	38.54	-0.1			
	1.5s	1345.50nm				6.2mb		i	07	08.50		PLDF	88.08	42	P	05	38.96	-0.3				
SSOR	75.21	324	Pd	04	34.58	0.4	WIN	81.85	111	iPd	05	12.20	2.4	AVF	88.21	41	iPd	05	38.70	-1.0		
SAW	75.29	328	Pd	04	34.86	0.4		1.2s	1240.00nm			6.3mb	SSF	88.41	41	iPd	05	39.40	-1.2			
TZC	75.29	51	iP	04	36.00	1.3	Z	18s	24.40um			6.6Msz	0.9s	720.70nm	6.5mb							
VAH	75.39	258	iPd	04	36.80	1.3		i	07	26.50			BLF	88.43	119	iPc	05	40.50	-0.9			
	1.3s	1005.10nm				6.2mb	ETOR	82.26	45	iPd	05	12.35	1.1	0.8s	360.00nm	6.3mb						
RNO	75.40	323	Pd	04	36.37	1.2	ACU	82.47	48	P	05	12.46	0.2	e	07	50.70						
EBG	75.41	327	Pd	04	36.40	1.3	ECHE	82.51	46	P	05	13.19	0.7	SSB	88.44	43	P	05	40.83	0.0		
TPT	75.42	258	iPd	04	37.20	1.5	VAL	82.62	32	iP	05	12.90	0.3	SMF	88.47	41	iPd	05	40.20	-0.7		
	1.2s	1294.80nm				6.3mb		1.0s	25.00nm			4.7mb X	SIT	88.55	330	ePd	05	41.60	0.7			
COR	75.53	323	iPd	04	37.07	1.3	ECRI	82.71	43	P	05	14.31	0.9	1.1s	700.50nm	6.5mb						
WTV	75.57	327	Pd	04	36.65	0.6	POF	83.06	118	iPc	05	15.50	0.1	LBF	88.68	41	iPd	05	40.70	-1.2		
PMO	75.68	258	iPd	04	38.50	1.3		1.0s	640.00nm			6.1mb	0.6s	305.90nm	6.4mb							
	1.1s	840.00nm				6.2mb	GDH	83.14	6	iPd	05	14.00	-0.9	LOR	88.71	41	iPd	05	40.80	-1.2		
KIB	75.81	51	iP	04	39.50	1.9		2.0s	2964.71nm			6.5mb	1.0s	800.00nm	6.6mb							
SHW	75.88	325	P	04	38.40	0.5		i	08	36.00			LBTB	88.92	115	iPd	05	43.43	-0.2			
LON	75.98	326	P	04	38.40	0.1		i	14	36.00			0.9s	312.23nm	6.2mb							
TNF	76.34	51	iP	04	43.00	2.5		i	19	20.00			(pP)	07	53.21	600kmX						
RMW	76.41	326	P	04	40.30	-0.4		i	34	02.00			LRG	89.04	45	iPd	05	43.50	0.0			
LIS	76.44	44	iPd	04	42.00	1.1	YKA	83.36	341	P	05	16.20	0.1	1.0s	1235.20nm	6.8mb						
INMG	76.48	44	iPc	04	43.00	1.9		0.7s	999.00nm			6.5mb	LMR	89.11	45	iPd	05	43.70	-0.2			
TVO	76.48	255	iPd	04	43.00	1.4	ELIZ	83.60	43	P	05	18.37	0.6	FRF	89.27	45	iPd	05	44.40	-0.2		
	1.4s	1526.50nm				6.3mb	BOH	83.92	43	P	05	19.99	0.5	0.7s	478.00nm	6.5mb						
FIG	76.57	46	iPc	04	43.00	1.3	ELYF	83.96	43	P	05	19.41	-0.2	CALN	89.50	45	P	05	45.97	0.1		
BMW	76.60	325	P	04	41.90	0.2	EROQ	83.97	46	P	05	20.13	0.5	MVIF	89.73	45	P	05	46.95	0.0		
PPN	76.70	255	iPd	04	44.10	1.4	EGRA	84.01	44	P	05	22.44	2.7	DOMF	89.74	38	P	05	45.36	-1.2		
	0.9s	297.50nm				5.7mb	ISSF	84.03	43	P	05	20.53	0.5	RRL	89.81	44	P	05	47.50	0.1		
SPA	76.75	180	iPc	04	42.10	-0.3	MADF	84.06	43	P	05	19.91	-0.2	REVf	89.83	45	P	05	47.03	-0.2		
	1.0s	833.33nm				6.1mb	ATE	84.12	43	P	05	20.37	0.0	TOUF	89.83	45	P	05	47.55	0.1		
CZD	76.77	51	iP	04	45.00	2.2	ESCF	84.20	43	P	05	21.07	0.3	AURF	89.85	45	P	05	47.44	0.0		
PAE	76.81	255	iPd	04	44.90	1.6	SYO	84.26	160	ePc+	05	20.30	-0.3	KSR	89.85	116	iPd	05	43.00	-5.0X		
	1.0s	838.40nm				6.1mb		eS	14	43.00			1.0s	610.00nm	6.5mb							
PPT	76.82	255	iPd	04	45.00	1.6	OGE	84.30	43	P	05	21.35	0.1	i	07	51.00						
	1.4s	1902.90nm				6.3mb	JAU	84.32	43	P	05	22.09	0.6	SEK	89.85	119	iPd	05	54.00	6.0X		
MIF	76.88	51	iP	04	44.50	1.1	ENSF	84.70	44	P	05	24.34	1.0	1.0s	550.00nm	6.4mb						
MOE	76.89	45	iPd	04	44.50	1.2	VNDA	84.76	190	ePc	05	23.08	0.2	i	08	06.50						
GMW	76.99	326	P	04	43.90	0.2		ipPc	07	32.86	608kmX		PZZ	89.89	44	P	05	47.91	0.3			
BMK	77.01	49	iP	04	56.00	12.0X	EPF	84.79	44	iPd	05	23.90	0.2	SBF	89.91	45	iPd	05	47.40	-0.3		
AFR	77.02	255	iPd	04	46.00	1.6		0.9s	631.60nm			6.2mb	0.9s	744.30nm	6.6mb							
	0.7s	687.90nm				6.2mb	DCN	84.89	32	iPd	05	23.20	-0.6	AUTN	89.95	45	P	05	47.92	-0.1		
TSY	77.11	49	iP	04	46.50	2.0		1.0s	1436.00nm			6.6mb	RSL	89.96	43	P	05	47.97	0.0			
TGT	77.21	50	iP	04	46.80	1.7	DLF	85.26	32	iPd	05	24.90	-0.6	STV	89.96	44	P	05	47.32	-0.6		
BIT	77.41	48	iP	04	48.00	1.9		1.0s	1827.00nm			6.7mb	LPL	89.97	43	iPd	05	48.40	0.3			
SFS	77.43	48	iP	04	48.90	2.7	SALF	85.26	44	P	05	27.06	1.1	LPG	89.98	43	iPd	05	48.60	0.4		
CNIL	77.50	48	iP	04	48.80	2.2	REY	85.29	19	iP	05	27.40	1.9	ENR	90.02	44	P	05	47.46	-0.7		
RANB	77.55	47	iP	04	50.20	3.3X	ESEL	85.32	47	P	05	26.60	0.4	SAOF	90.03	45	P	05	47.92	-0.3		
EVAL	77.56	46	P	04	48.02	1.1	PAND	85.41	45	P	05	27.71	0.9	BHB	90.11	44	P	05	47.91	-0.6		
CPS	77.58	48	iP	04	48.50	1.4	LESF	85.43	44	P	05	26.85	0.2	SNF	90.13	38	iPd	05	47.82	-0.6		
PLAT	77.60	48	iP	04	49.50	2.3	GRBF	85.53	44	P	05	27.27	0.1	DOU	90.17	38	Pd	05	48.20	-0.4		
COI	77.66	43	iPc	04	48.00	0.6	RAR	85.57	249	P	05	28.70	1.0	pP	08	04.40	637kmX					
MCW	77.70	327	P	04	48.00	0.5		0.8s	181.67nm			5.8mb	SKS	15	22.80							
MCMI	77.71	48	iP	04	50.10	2.3	TRGS	85.69	45	P	05	28.45	0.3	e	19	02.00						
GIBL	77.77	47	iP	04	50.00	1.9	LFF	85.82	42	iPd	05											



10d 16h

FIN	1.1s	464.95nm	6.4mb			ePP	10	02.70			e	08	41.00	
FIN	90.55	45 P	05 49.65	-0.9		ePKKP	23	05.00			PP	09	56.90	
PGF	90.55	45 eP	05 58.50	7.9X	BER	94.13	29 eP	06 06.50	0.0		PP	10	09.80	
LOMF	90.59	46 iPd	05 50.50	-0.4	BLS5	94.35	30 eP	06 08.52	0.9		PP	10	13.10	
BSF	0.7s	204.60nm	6.2mb		FOO	94.41	28 eP	06 07.74	0.0		e	10	23.80	
ORX	90.63	41 P	05 50.13	-0.8	ODD1	94.59	29 eP	06 09.29	0.6	TOA	95.58	333 ePd	06 13.00	-0.2
PCP	90.77	41 iPd	05 50.60	-1.0	MOX	94.62	39 iPd	06 08.90	-0.1		e	08	36.70	
WLF	0.6s	271.25nm	6.4mb			1.3s	165.00nm	6.1mb		CLL	95.63	39 iPd	06 13.60	0.1
MOF	90.84	43 P	05 50.75	-1.2	Z	22s	5.10um	5.9Msz			1.3s	460.00nm	6.5mb	
SLR	90.88	44 P	05 51.26	-0.8			epP	08 28.00	651kmX			ipP	08 27.00	616kmX
	90.97	39 iPd	05 52.04	-0.2			esP	09 17.00				eSKS	15 51.00	
	1.1s	297.50nm	6.2mb				eSKS	15 50.00				eS	16 43.00	
		ipPd	08 09.09	641kmX	DAG	94.65	10 iPc-	06 08.10	-0.5			P'P'	31 14.10	
	90.99	41 P	05 51.83	-0.7		0.4s	228.81nm	6.8mb		VBV	95.73	45 iPd	06 13.80	-0.3
	91.09	117 iPd	05 52.10	-1.6			ipP	08 20.80	613kmX	ALE	95.76	1 (P)	06 11.09	-2.4
	0.7s	3830.00nm	7.5mb X		BHG	94.66	42 iPd	06 09.00	-0.3	MOL	95.84	27 eP	06 13.89	-0.3
BBS	91.11	41 P	05 52.34	-0.7		1.2s	759.00nm	6.8mb		KONO	95.94	30 (P)	06 14.01	-0.7
ECH	91.12	41 P	05 52.52	-0.6	HOF	94.69	39 iPd	06 09.40	0.0	BRG	96.11	39 iPc	06 15.60	-0.1
MEM	91.20	38 iPd	05 52.74	-0.5		1.3s	182.00nm	6.1mb			1.2s	110.00nm	6.0mb	
	1.1s	117.00nm	5.8mb		TRI	94.76	44 ePd	06 09.30	-0.4			ipP	08 31.80	633kmX
		ipPd	08 09.84	641kmX			e	08 24.00				i	10 15.10	
ENN	91.20	38 iPd	05 52.50	-0.8			e	09 12.00				eSKS	15 57.00	
DBN	1.0s	475.00nm	6.5mb				e	10 06.80				eP'P'	31 10.30	
KKH	91.22	37 eP	05 52.00	-1.3			e	12 52.00		BRNL	96.12	38 eP	06 17.00	1.4
KDF	91.25	290 P	05 53.80	-0.4			e	17 40.00		PRU	96.27	40 iPd	06 16.30	-0.1
	91.26	40 iPd	05 53.00	-0.8			e	19 20.00			0.9s	244.00nm	6.5mb	
	1.0s	616.00nm	6.6mb				e	20 00.00				i	06 19.80	
MHA	91.27	290 P	05 53.90	-0.3			e	21 32.00				pP	08 33.10	637kmX
WLS	91.31	40 P	05 53.27	-0.7	KBA	94.81	43 iPd	06 09.20	-1.0			ePP	10 19.30	
LIBD	91.38	41 P	05 54.13	-0.1		1.4s	934.00nm	6.8mb				SKS	15 56.20	
KLL	91.39	38 ePc	05 53.40	-0.8			i	06 14.50				e	19 12.00	
		ed	05 53.90				ipP	08 24.90	631kmX			i	20 11.80	
FEL	91.56	41 P	05 54.55	-0.7			ipP	10 07.10				i	21 56.90	
HKL	91.72	291 P	05 56.10	-0.7			i	10 16.00				P'P'	31 11.20	
LANF	91.77	40 P	05 55.74	-0.3			iSKS	15 50.00		ZAG	96.29	45 iPd	06 17.00	0.4
BNS	92.01	38 ePd	05 55.70	-1.4			iPc	06 10.00	0.3	PTJ	96.29	44 iPd	06 16.40	-0.3
	1.1s	300.00nm	6.2mb		MUD	94.82	33 iPc	06 10.00	7.2mb	COP	96.38	34 iPd	06 17.40	0.7
	Z	27s	20.00um	6.4MszX			i	06 20.00			0.9s	504.20nm	6.8mb	
		id	05 56.80				i	08 27.00				i	09 32.00	
WTS	92.13	37 iPd	05 57.70	0.2	VOY	94.92	44 iPd	06 10.30	-0.3			i	10 20.00	
	1.0s	826.90nm	6.7mb				e	06 12.50				is	16 00.00	
MAW	92.26	164 iPd	05 58.70	0.7	WET	95.02	41 iPd	06 10.90	0.0	PMR	96.78	332 eP	06 17.70	-0.7
	1.0s	571.67nm	6.6mb		RIY	95.09	45 iPd	06 10.20	-1.0	SLKM	97.01	331 P	06 17.80	-1.8
WIT	92.31	36 ePd	05 59.00	0.6	KLU	95.27	332 P	06 10.80	-1.0	VKA	97.04	42 iPd	06 19.40	-0.6
		e	08 16.00		CIR	95.29	113 iPc	06 04.10	-8.6X		0.9s	355.00nm	6.7mb	
TNS	92.55	39 ePc	05 59.20	-0.5			i	08 10.00				ipP	08 35.20	630kmX
		e	08 16.10				i	09 49.00				ipP	10 20.60	
		ePPc	09 47.10				i	16 15.80				iPd	06 18.77	-1.1
BFT	92.63	117 iPd	06 04.00	3.1X	LJU	95.36	44 iPd	06 11.80	-0.6	COL	97.09	335 iPd	06 18.77	6.9mb
	1.0s	290.00nm	6.3mb				i	06 14.40			1.1s	673.87nm		
		i	08 17.00				i	06 45.30				esPc	09 24.83	
BUL	92.85	111 iPd	06 00.00	-1.8			i	07 06.20		HCY	97.37	48 iPd	06 21.42	-0.2
		ipP	08 14.60				ipP	08 29.00	639kmX	KDC	97.49	328 eP	06 20.90	-0.8
		is	15 14.00				esP	09 20.00				e	08 32.00	
OGA	93.22	43 iPd	06 02.80	-0.2			e	13 11.00				e	08 32.10	
DHH	93.25	291 P	06 02.80	-0.6			e	13 33.00		BRY	97.49	48 iPd	06 21.97	-0.4
MOTA	93.40	42 iPd	06 03.20	-0.6			eSKS	15 51.00		ZST	97.54	42 iPd	06 22.00	-0.2
		ipP	08 19.90	637kmX			es	16 44.00				ipP	08 38.10	634kmX
SQTA	93.44	42 iPd	06 03.50	-0.4			eSP	18 06.00				ePP	10 17.80	
	2.0s	7688.00nm	7.5mb X				e	19 26.00				e	31 08.00	
		ipP	08 20.80	641kmX			esSKS	19 56.00				e	33 31.00	
		i	08 35.60				e	21 48.00		BDV	97.58	48 iPd	06 22.59	0.0
BALM	93.49	332 P	06 02.70	-1.1			e	21 50.00		BSD	97.62	35 iPd	06 23.00	0.6
		pP	08 18.40	631kmX	KHC	95.46	41 iPd	06 12.60	-0.3		0.9s	119.00nm	6.2mb	
OPA	93.53	291 P	06 03.90	-0.7		1.0s	171.00nm	6.2mb		VLO	97.73	50 iP	06 23.50	0.2
JNW	93.58	17 iPd	06 05.50	1.6		Z	18s	4.80um	6.0Msz	NKY	97.80	48 iPd	06 23.51	-0.2
KMY	93.69	30 eP	06 03.92	-0.6		N	18s	2.60um		KEK	97.82	51 eP	06 24.30	0.6
WATA	93.71	42 iPd	06 04.40	-0.8		E	20s	2.50um		ULC	97.83	49 iPd	06 23.74	0.0
		ipP	08 22.00	643kmX			e	06 26.60		TTG	97.92	48 iPd	06 24.18	0.1
WTTA	93.73	42 iPd	06 05.00	-0.3			e	06 55.00		SRN	98.00	51 eP	06 24.70	0.2
	1.8s	5004.00nm	7.4mb				e	07 14.50		SDA	98.03	49 iPd	06 24.20	-0.4
		ipP	08 19.40	623kmX			e	07 30.00		HFS	98.06	30 eP	06 23.20	-1.2
		ipP	09 57.70				pP	08 29.50	638kmX		0.6s	58.60nm	6.1mb	
		i	10 11.50				e	09 17.00		Z	19s	5.09um	6.0Msz	
		iSKS	15 41.10				PP	10 04.00				LR	32 32.00	
FUR	93.74	41 iPd	06 04.90	-0.2			e	13 00.00		CRP	98.11	331 P	06 23.10	-1.7
	1.0s	1968.00nm	7.2mb				eSKS	15 44.00		VLS	98.14	53 eP	06 24.60	-0.6
		i	08 21.80				e	20 00.00		CP2	98.15	331 P	06 23.70	-1.3
EGD	94.04	29 eP	06 06.50	0.4	GEC2	95.47	41 Pd	06 12.40	-0.6	TIR	98.17	50 iPd	06 26.00	0.7
SUE	94.10	28 eP	06 08.84	2.5		0.7s	193.07nm	6.4mb		PLE	98.18	47 iPd	06 25.30	-0.2
ASK	94.10	29 eP	06 07.00	0.6			e	06 17.90		IGT	98.19	51 i(P)c	06 25.38	0.0
GRF	94.12	40 ePd	06 06.70	-0.1			e	06 19.70		UZD	98.22	44 iPd	06 25.00	-0.4
	1.0s	767.00nm	6.9mb				e	06 21.50		NSS	98.27	26 eP	06 25.44	0.3
		epP	08 23.40	637kmX			pP	08 29.30	638kmX	AUP	98.31	329 P	06 25.10	-0.5
							e	08 34.80		IYA	98.47	48 iPd	06 26.66	0.0



FVY	98.47	48	eP	06	26.89	0.1	CMP	102.48	46	ePdiff06	43.00	-1.5	BAK	120.82	51	ePKP	11	37.00	0.1	
LSK	98.50	51	eP	06	26.00	-0.9	ALN	102.72	51	i(Pdif06	45.90	0.4				iPPP	13	14.00		
OKC	98.52	41	Pd	06	27.40	0.8	MLR	103.14	46	iPdiff06	47.50	0.0				i	17	46.00		
			e	08	44.00		NUR	103.51	31	iPdiff06	48.40	-0.2	ARMA	121.22	222	iPKPc	11	38.00	-0.2	
			e	10	33.50			0.6s	19.70nm		6.0mb			0.7s	74.00nm					
			e	16	04.00		VRI	103.72	46	ePdiff06	50.00	0.1				eSKP	14	15.00		
			e	20	24.00		KAF	104.37	29	ePdiff06	51.70	-0.7				ePKKP	21	42.00		
BUD	98.67	43	eP	06	26.00	-1.4	SDF	104.46	23	iPdiff06	55.90	3.2X				e	25	33.30		
KBN	98.72	50	iPd	06	27.00	-0.9	ANM	104.49	334	ePdiff06	52.90	0.0	ARU	121.61	31	iPKPd	11	37.70	-0.2	
OHR	98.82	50	iP	06	28.50	0.2	KEV	104.65	21	ePdiff07	02.01	8.5X		1.0s	750.00nm					
	1.0s	200.00nm			6.5mb		CFR	104.66	46	ePdiff06	54.00	-0.1				i	13	18.20		
			i	06	35.80		MNK	104.78	37	ePdiff06	55.00	0.6				e	13	53.00		
			i	06	46.50					ePPP	11	22.00	SVE	122.42	30	iPKPc	11	29.00	-10.5X	
			i	08	43.00					eS	16	30.00		2.0s	120.00nm					
			i	16	08.00					eSS	20	48.00				i	13	24.00		
FNA	99.19	50	i(P)c	06	29.78	-0.2	KIS	105.28	45	ePdiff06	56.00	-0.7				e	23	22.00		
PSZ	99.33	43	iPd	06	30.00	-0.4	ELL	105.29	55	ePdiff07	06.50	9.2X				e	25	12.00		
KZN	99.41	51	eP	06	30.50	-0.4	HLW	105.77	62	ePdiff06	51.00	-8.4X	ADE	125.03	208	iPKPc+11	45.20	-0.2		
SKO	99.44	49	iPd	06	30.50	-0.4				eS	16	40.00	PET	125.13	327	ePdiff08	28.00	3.3X		
	1.0s	180.00nm			6.5mb				i	18	12.00		1.0s	550.00nm						
			i	08	44.60		PPCY	107.10	57	ePKP	11	06.50				e	11	44.00		
			i	10	17.00		CSS	107.91	57	ePKP	11	12.00				e	13	50.00		
			i	10	35.00		FAM	108.46	57	ePKP	11	14.50				ePPP	16	35.00		
			i	10	42.50		SIM	108.87	47	ePdiff07	16.00	3.2X				ePS	24	14.00		
			i	10	54.00		HQL	108.93	63	ePdiff07	16.60	3.2X				ePPS	25	28.00		
			i	12	36.00		SRFA	109.02	64	ePdiff07	16.00	2.2				eSS	30	00.00		
			i	13	32.00		MKRJ	109.61	61	PKPc	11	29.73	STK	126.09	213	ePKP	11	34.50	-12.9X	
			i	15	40.00		AYN	109.72	64	ePdiff07	20.00	3.1X		0.3s	4.70nm					
			i	16	08.50		OBN	110.01	36	ePdiff07	16.00	-1.6	STK	126.09	213	iPKP	11	46.80	-0.6	
			i	16	45.50			1.2s	31.00nm							epPKP	13	47.50		
			i	19	35.00				epP	09	36.00					eSKP	14	25.90		
			i	20	09.00				esP	10	28.00					eSKS	17	55.10		
			i	22	30.00		ARO	114.04	83	ePKP+	11	26.30				i	21	23.00		
AGG	99.63	52	i(P)c	06	32.10	0.2	DZM	114.88	238	iPKPc	11	26.20				eSKKP	22	51.20		
MOR8	99.63	24	eP	06	31.85	0.6			i	14	05.50					i	25	01.40		
LOF	99.67	22	eP	06	31.80	0.4			ScS	17	24.00		SKR	127.64	325	ePKP	11	48.30	-1.5	
SVW	99.72	331	ePd	06	30.10	-1.7	PYA	115.31	47	iPKP	11	35.50		0.8s	270.00nm					
	1.2s	143.50nm			6.3mb			1.0s	200.00nm				ASH	127.73	52	PKPc	11	50.00	-0.4	
			e	10	44.30				esS	22	42.00				i	14	03.00			
			e	12	34.80				iSSS	27	48.00				e	16	53.00			
VLI	99.73	55	eP	06	33.30	1.0	TAB	118.35	54	ePKP	11	32.00				e	18	03.00		
IMA	99.75	336	ePd	06	31.20	-0.8			i	11	37.00		MAIO	129.00	54	iPKPd	11	52.00	-1.0	
	1.6s	305.70nm			6.5mb				i	12	54.00		1.0s	147.50nm						
			e	08	45.00		MAK	118.59	48	ePKP	11	35.10				i	14	07.00		
			e	10	44.90				e	17	34.00		YAK	129.48	348	ePKP	11	43.00	-9.9X	
			e	22	39.30		RYD	118.96	69	ePdiff08	15.00	16.9X				epPKP	12	00.00		
			e	23	18.80		RIV	119.22	218	iPKPc	11	35.10				ePP	15	06.00		
			e	33	23.50			0.9s	2588.24nm							iPKS	15	14.00		
SPC	99.76	42	eP	06	32.20	-0.2			ePP	13	08.00					iSKS	17	47.00		
			epP	08	47.10	626kmX			eSKP	14	12.60					iPPP	18	04.00		
			e	10	00.60				iSKS	17	36.00					iSKSP	24	16.00		
			e	31	02.30				iSKKS	19	00.00					ePS	26	05.00		
LIT	99.92	51	i(P)c	06	32.42	-0.7			ePKKP	21	49.50		RKG	131.96	187	ePKP	11	44.00	-14.5X	
UPP	99.95	31	iP	06	32.70	0.0			isSKS	21	58.00					e	11	58.80		
VAY	100.17	50	iPdiff06	34.00	-0.2				ePS	23	05.00		FORT	133.02	201	ePKP	11	46.20	-14.4X	
	1.0s	170.00nm			6.4mb				eSS	28	44.00					e	12	01.50		
			i	10	47.80		CNB	119.23	216	ePKP	11	33.70		NWAO	133.56	188	ePKP	11	46.10	-15.5X
TTA	100.20	332	ePdiff06	32.60	-1.4			0.6s	76.00nm		-0.5					e	12	02.10		
KNT	100.39	50	i(Pdif06	35.10	-0.2				ePP	13	04.20		MUN	134.62	187	ePKP	11	49.20	-14.4X	
VAM	100.53	56	ePdiff06	35.50	-0.5				eSKP	14	13.00					e	12	04.00		
ATH	100.54	53	ePdiff06	37.60	1.6				ePKKP	21	50.00		KLB	134.80	189	ePKP	11	49.00	-15.0X	
			eSKS	17	20.00				eSP	22	00.00					e	12	04.50		
PAIG	100.80	51	i(Pdif06	36.82	-0.2				ePKP	11	33.20		COOL	134.87	193	ePKP	11	51.50	-12.7X	
SRS	100.90	50	i(Pdif06	37.05	-0.5				i	11	35.10					e	12	05.50		
UZH	101.02	42	iPdiff06	37.50	-0.3		CAN	119.44	216	ePKP	11	33.20		RAB	135.17	250	e(PKP)	11	51.00	-14.2X
	1.0s	134.00nm			6.4mb				i	11	56.40		KUR	135.17	323	ePKP	11	55.00	-9.2X	
			i	10	54.30				ePP	13	04.60			1.0s	940.00nm					
			i	16	13.00				iSKP	14	12.70		BOD	135.49	357	ePKP	12	03.20	-1.3	
			eS	17	21.00				iPKKP	21	48.70			1.2s	432.00nm					
			iSS	24	45.00				iSKKP	24	38.90		QIS	135.84	221	ePKP	11	53.00	-13.3X	
OUR	101.09	51	i(Pdif06	38.26	-0.1				eSKKP	25	11.90					i	12	07.30		
KBS	101.34	11	ePdiff06	39.80	1.2				ePKP	11	33.70					eSKP	14	40.90		
SDN	101.44	324	ePdiff06	39.30	-0.2		TOO	119.66	212	ePKP	11	33.70				e	24	21.80		
			e	11	02.70				i	11	35.80					ePP	13	06.80		
BRW	101.67	341	ePdiff06	40.00	-0.2				iSKP	14	13.70		BAL	135.91	188	ePKP	11	52.00	-14.2X	
TRO	101.83	21	ePdiff06	41.91	1.0				iPKKP	21	48.20					e	12	06.20		
LVV	102.29	41	iPdiff06	45.00	1.5				eSKKP	24	13.70		QUE	136.47	60	ePKP	11	55.50	-12.0X	
																e	12	07.30		
Z 18s			3.20um		5.9msz		SHE	119.83	51	iPKPd	11	36.00				e	14	45.00		
N 17s			2.60um					1.0s	1400.00nm		1.0		ASPA	136.71	212	iPKP	12	08.20	0.3	
E 17s			3.50um						i	21	56.00					iSKP	14	42.30		
			e	11	05.00		BWA	120.41	216	ePKP	11	35.40				iSKS	18	23.10		
			ePPP	13	17.00				i	11	36.30					iSKKS	20	44.70		
			e	17	34.00				i	11	56.40					eSKKKS21	10.90			
			ePS	20	13.00				ePP	13	07.10					ePKKP	23	40.30		
			eSS	24	51.00				iSKP	14	10.60					isSKS	24	34.50		
			eSSS	29	01.00				iPKKP	21	45.70					e	27	34.10		
RDO	102.36	50	ePdiff06	43.60	-0.4				eSKKP	24	29.60					eSKKKS29	58.40			



10d 16h

		i	31	00.90		GKN	151.79	55	PKPd	12	32.50	-0.5				PKPab	13	54.00					
		e	37	47.40		DMN	152.33	55	PKPd	12	33.60	-0.3				PP	17	40.00					
YSS	136.97	328	ePKPd	11	55.00	-12.6X	GTA	152.35	18	PKPd	12	33.70	0.3			SS	37	38.00					
	1.1s	900.00nm					Z	28s	13.20um			6.6MsZ				15	iPKPd	12	49.00	-0.3			
		i	12	07.80			N	23s	4.92um							PKPab	13	55.00					
		e	18	08.00					SKKS	22	16.00					pPKP	15	12.00					
PMG	137.21	240	ePKP	11	59.00	-10.0X	KKN	152.39	55	PKPd	12	33.70	-0.3			PP	17	42.00					
FRU	137.31	40	ePKP	11	54.00	-14.5X	HHC	152.58	358	PKPd	12	34.80	1.1			SKKS	23	30.00					
		i	18	06.00			Z	30s	7.99um			6.4MsZ											
MRWA	137.37	187	ePKP	11	56.50	-12.4X	N	15s	0.98um						MAP	166.52	259	ePKPc	12	48.00	-1.5		
		e	12	09.50			E	15s	1.46um						KGM	166.66	147	ePKPd	12	49.50	-0.1		
KUSJ	138.25	322	ePKP	11	58.40	-11.6X			PP	16	27.00					1.1s	237.20nm						
LAT	138.71	243	ePKP	12	02.80	-8.9X			SS	35	10.00					e	13	56.50					
ASAJ	138.85	324	ePKP	12	02.10	-9.0X	PKI	152.59	55	PKPd	12	33.70	-0.7				e	17	48.00				
WB2	139.48	216	iPKP	12	05.60	-7.4X	DL2	152.71	341	iPKPd	12	34.50	0.8			IPM	167.19	132	ePKPd	12	45.90	-4.1X	
		ePP	13	38.50			Z	26s	2.78um			6.0MsZ				1.0s	453.60nm						
		iSKP	14	50.30			E	20s	3.64um							e	13	59.90					
		e	20	58.30					PKPab	12	56.00					e	22	29.50					
		ePKKP	22	57.50			GUN	152.81	54	PKPd	12	34.60	-0.1			CHTO	167.59	62	ePKPd	12	49.00	-1.1	
WRA	139.48	216	PKP	12	05.40	-7.6X	BTO	152.84	1	iPKPd	12	34.00	-0.1			BDT	168.20	69	iPKPd	12	49.80	-0.7	
	0.9s	56.70nm					N	20s	3.45um							1.0s	407.10nm						
HOOJ	139.52	322	ePKP	12	03.60	-8.7X	E	20s	3.47um							e	24	37.00					
KSH	139.96	43	iPKPc	12	07.00	-6.5X	BJI	152.95	350	ePKP	12	53.00	19.0X			CVP	168.31	293	ePKPd	12	51.60	1.0	
	Z	24s	6.80um			6.3MsZ	Z	24s	4.51um			6.2MsZ			GQP	168.43	274	ePKPc	12	51.50	0.8		
	N	14s	3.20um				N	19s	2.19um						TSM	168.47	219	ePKPc	12	50.50	-0.3		
	E	14s	6.00um						pPKP	14	33.00					1.2s	1059.60nm						
		PKS	15	42.00					sPKP	15	14.00					KBR	169.27	85	ePKPc	12	58.00	6.8X	
SAP	140.26	324	ePKP	12	07.00	-6.6X			PP	16	26.00					e	14	14.00					
MDG	140.44	244	ePKP	12	09.00	-5.9X			eSKS	20	53.00					NST	169.65	76	iPKPd	12	51.50	0.1	
MRRJ	140.80	323	ePKP	12	08.90	-5.8X			eSKKS	22	20.00						e	14	09.90				
IRK	140.84	6	ePKP	12	04.00	-10.5X			eSS	35	06.00					QVP	169.78	278	ePKP	12	51.00	-0.5	
	1.4s	394.00nm					BJI	152.95	350	ePKP	12	34.50	0.5			BAG	169.84	289	ePKPc	12	51.00	-0.7	
		e	12	14.50			Z	24s	4.51um			6.2MsZ				1.2s	406.25nm						
CIT	141.36	357	ePKP	12	10.00	-5.5X		N	19s	2.19um						e	17	54.00					
AOMJ	142.36	322	ePKP	12	13.80	-3.6X			eSKKS	22	20.00					e	23	47.00					
OFUJ	142.42	319	ePKP	12	13.60	-4.0X	TIY	155.67	356	iPKPd	12	38.00	0.1			PGP	169.88	272	ePKP	12	49.00	-2.6	
ZAK	142.58	8	iPKPd	12	14.00	-3.5X			PKPab	13	07.30					TTY	169.89	276	ePKPd	12	53.00	1.4	
	1.1s	4220.00nm							PP	16	46.00					GZH	169.95	345	iPKPd	12	52.50	1.1	
		e	15	34.00					SKKS	22	38.00					Z	50s	13.00um					
WMQ	143.84	28	iPKPd	12	19.00	-1.0			SS	35	44.50						PKPab	14	10.00				
	Z	30s	11.00um			6.4MsZ	LSA	155.75	45	iPKPd	12	39.00	0.2				SKKS	23	46.00				
	E	24s	14.20um				Z	36s	32.00um			6.9MsZ				HKC	170.44	339	iPKP	12	52.80	1.2	
		SS	33	36.00			N	13s	2.54um							LOE	170.58	63	iPKPd	12	51.00	-0.8	
YAMJ	143.99	319	ePKP	12	19.30	-1.0	TIA	156.47	347	PKP	12	39.00	0.1				i	14	13.00				
OKTD	144.27	241	ePKP	12	21.20	-0.3			PKPab	13	11.30					KKM	170.85	218	ePKPd	12	54.50	2.3	
POO	144.37	77	iPKPd	12	21.50	0.0			PP	16	51.00					PCT	171.03	80	iPKPd	12	52.50	0.5	
	1.0s	580.00nm					LZH	156.56	14	PKP	12	50.50	11.2X				1.2s	14.10nm					
MBL	144.53	195	iPKPd	12	20.70	-1.0			pPKP	13	13.00						i	14	16.70				
MDJ	144.85	336	iPKPd	12	20.90	-0.6			i	15	03.00					QIZ	174.30	7	iPKPd	12	54.00	0.7	
		pPKP	14	41.00					PKS	15	10.00					Z	50s	13.00um					
		PP	15	46.00					PP	16	50.00					S.D. = 1.0	on 601 of 667 obs.						
KAKJ	145.01	316	PKP	12	22.10	0.1			SKS	19	40.00												
VLA	145.08	332	iPKPc	12	22.00	0.0			i	22	38.00												
	1.1s	514.00nm					LZH	156.56	14	iPKP	12	39.80	0.5										
NIIJ	145.20	318	PKP	12	22.50	0.1			PKS	16	10.00												
NDI	145.48	58	iPKP	12	23.00	-0.1			PP	16	50.00												
		ePP	14	48.00			XAN	159.34	4	PKP	12	42.40	0.1										
CHJJ	145.89	317	ePKP	12	23.30	-0.2	Z	15s	3.51um			6.3MsZ											
KNA	145.94	213	ePKP	12	25.00	0.9	N	15s	0.81um							RAB	2.19	35	iPc	01	05.00	-1.0	
	0.3s	305.00nm					E	15s	1.46um							0.5s	901.41nm						
		e	14	45.00					PKPab	13	24.00						iS	01	14.00				
MAJO	146.12	318	PKP	12	23.50	-0.4			PP	17	07.00												
MAT	146.12	318	iPKPd	12	23.50	-0.4			SKKS	22	52.00												
MTMJ	146.36	318	ePKP	12	24.10	-0.3	SSE	159.80	333	PKPc	12	43.00	0.3										
GUA	146.60	274	ePKP	12	23.30	-1.9	Z	20s	5.50um			6.4MsZ											
	0.8s	5671.64nm					N	20s	0.60um							GUMO	20.36	343	eP	05	03.20	-0.4	
GUMO	146.64	274	ePKP	12	23.30	-1.9	E	20s	1.90um								1.3s	272.20nm					
	0.9s	8284.80nm							iPP	17	08.00						20.36	343	eP	05	03.80	0.2	
		pP	14	43.70			NJ2	159.88	339	PKPd	12	43.00	0.2				20.65	249	eP	05	05.00	-1.5	
		e(S)	21	48.10			Z	26s	2.92um			6.0MsZ					0.4s	54.00nm					
PJG	146.64	274	ePKP	12	23.30	-2.0			PKPab	13	25.50						21.23	228	iP	05	10.00	-2.4	
IIDJ	146.93	317	ePKP	12	25.10	-0.2			PP	17	05.00						0.5s	20.00nm					
CN2	147.06	340	PKPd	12	23.80	-1.3			SKKS	23	04.50						eS	09	05.10				
	Z	24s	3.74um			6.1MsZ			PKPab	13	33.50						DZM	21.93	138	iPc	05	18.90	-0.5
	N	20s	3.53um				CD2	161.42	19	iPKPd	12	45.00	0.5				KNA	23.77	244	eP	05	38.40	1.0
	E	20s	1.70um						PP	17	18.00						0.5s	15.00nm					
GBA	147.81	86	PKPd	12	27.00	-0.1			SKKS	23	04.50							24.00	221	iPd	05	39.60	0.0
TSRJ	148.17	318	ePKP	12	27.60	0.4			PKPab	13	38.00						1.2s	30.10nm					
WKYJ	149.22	317	PKP	12	29.20	0.3	WHN	162.52	349	PKP	12	46.00	0.5					iS	09	58.10			
SNY	149.44	341	iPKPd	12	27.70	-1.2			PP	17	21.00												
	Z	35s	5.30um			6.1MsZ			ePKPd	12	50.00												
		PP	16	21.00			CTB	165.26	247	ePKPd	12	50.00	1.5										



10d 17h

TIY	56.34	324	eP	10	08.80	2.5	RSTA	30.65	55	eP	28	15.40	2.1	DMN	156.61	135	PKP	41	58.40	5.4X
LZH	60.80	317	eP	10	38.50	1.1	PPD	31.48	49	eP	28	24.60	4.0X	GKN	156.70	134	PKP	41	58.00	5.0X
	1.5s	27.00nm				5.1mb	STV	32.56	28	P	28	28.10	-2.0	PKI	156.72	136	PKP	41	58.20	4.9X
GUN	71.14	302	P	11	43.20	-0.7	BDFB	38.51	48	eP	29	20.22	-0.6	KKN	156.84	135	PKP	41	58.40	5.1X
	0.4s	7.00nm				4.9mb		1.1s	28.74nm			4.9mb	GUN	157.24	136	PKP	41	57.60	3.6X	
KKN	71.61	302	P	11	45.60	-0.9	BAO	38.52	48	eP	29	21.10	0.1	LZH	170.13	182	ePKP	42	11.50	6.5X
DMN	71.70	302	P	11	46.20	-0.9			i	29	25.00	13km								
GKN	72.22	302	P	11	49.40	-0.6			i	29	30.50									
YKA	97.36	28	P	13	56.90	0.5			i	31	36.50									
	0.3s	0.60nm				4.6mb	NVL	46.95	153	eP	30	29.00	0.3							
KHC	123.96	328	ePKP	19	22.50	0.7		1.0s	64.00nm			5.6mb		GTA	172.92	156	ePKP	42	12.00	5.9X
	1.0s	5.40nm						e	31	55.00	440kmX		ZAK	175.57	2	ePKP	42	11.50	5.2X	
		e		19	33.00		SYO	56.08	157	ePd	31	37.30	-0.3							
GEC2	124.06	327	PKP	19	23.00	0.9	BOSA	77.62	118	eP	33	54.88	0.4							
	0.5s	1.76nm						1.2s	61.84nm			5.5mb								
		e		19	28.80		LTX	78.88	336	(P)	34	01.00	-0.3							
		e		19	35.10				e	34	07.71	21km								
		e		19	42.30		PRM	79.84	355	eP	34	05.96	-0.3							
PPD	144.65	143	ePKP	20	00.40	-0.6			e	34	12.01	19km								
BAO	151.50	139	PKPd	20	19.60	7.5X	LBTB	80.31	116	eP	34	09.40	0.1							
KIC	155.78	272	PKP	20	29.00	11.0X		1.2s	62.58nm			5.5mb	CACH	0.06	288	iPd	44	14.21	-0.1	
TIC	156.06	273	PKP	20	29.80	11.4X			e	34	15.46	19km								
LIC	156.07	272	PKP	20	29.00	10.6X	MYNC	80.95	354	eP	34	12.23	0.0	PCH	0.51	1	iPd	44	15.95	0.0
LKO	156.45	280	PKP	20	30.26	11.4X		0.8s	18.07nm			5.2mb								
	0.4s	5.50nm						e	34	18.17	19km		TACH	0.59	325	eP	44	16.49	0.1	
	S.D. = 1.4	on 26 of 31 obs.					UYO	81.38	345	iPd	34	14.50	0.1							
	JAN 10, 1994 17h 13m 15.82± 0.51s						SLR	81.45	118	iPc	34	15.00	-0.4	LNv	0.76	284	eP	44	17.71	0.0
	40.313 N ± 4.6km 23.872 E ± 4.2km							0.8s	33.58nm			5.4mb								
	DEPTH = 5.0km (geophysicist)						LIC	81.78	72	P	34	18.00	1.0	FCH	0.83	14	iP+	44	18.89	0.0
	GREECE (364)							1.2s	44.50nm			5.4mb								
	ML 2.4 (THE).						KIC	82.07	72	P	34	18.80	0.3	PEL	1.00	352	iP	44	20.47	0.3
								1.2s	35.50nm			5.3mb								
OUR	0.09	76	iPgc	13	17.33	-0.5	TIC	82.10	72	P	34	16.40	-2.2	LCCH	1.09	307	iPd	44	21.27	0.2
			eSg	13	20.08			1.2s	44.50nm			5.4mb								
PAIG	0.41	201	iPgc	13	23.94	-0.2	WMOK	82.80	342	eP	34	21.01	-0.8	ROCH	1.23	341	eP	44	22.44	-0.5
			eSg	13	29.84			1.1s	65.93nm			5.7mb								
THE	0.76	295	iPg	13	31.01	-0.1			e	34	27.78	21km		JACH	1.45	358	eP	44	25.48	0.1
SRS	0.83	345	iPgc	13	32.36	0.0	MEO	82.80	342	iPc	34	22.50	0.7							
			eSg	13	43.68		ELC	83.65	350	(P)	34	25.38	-0.7							
LIT	1.08	259	ePg	13	36.76	0.2			e	34	31.74	20km								
KNT	1.13	319	iPgc	13	36.84	-0.5	TUC	83.85	331	(P)	34	28.87	1.5							
			eSg	13	52.20			0.9s	6.92nm			4.9mb								
GRG	1.29	300	ePb	13	40.36	0.1	LKO	83.87	70	P	34	29.03	1.2							
			iSb	13	59.16			1.1s	55.00nm			5.7mb								
VAY	1.41	316	ePn	13	42.40	0.2	BUL	85.75	115	iPc	34	37.60	0.2							
AGG	1.75	223	ePb	13	47.12	0.0		0.9s	4.62nm			4.7mb								
ALN	1.76	70	ePb	13	47.64	0.6			i	34	43.30	18km		SSK	0.69	72	(P)	55	48.24	-1.0
			eSb	14	09.84		GPD	86.61	2	(P)	34	39.80	-0.9	PEC	1.11	95	eP	55	55.95	-1.1
	S.D. = 0.4	on 10 of 10 obs.					TBR	86.74	2	(P)	34	41.29	0.0							
	% JAN 10, 1994 17h 39m 08.58± 0.63s						YSNY	88.07	359	eP	34	48.16	0.4							
	44.400 N ± 5.1km 7.317 E ± 5.9km							1.0s	91.69nm			6.1mb								
	DEPTH = 10.0km (geophysicist)						GSC	88.67	328	eP	34	52.32	1.4							
	NORTHERN ITALY (545)							e	34	58.77	20km									
	ML 2.2 (GEN).						PV10	88.89	335	(P)	34	52.38	0.2							
STV	0.16	178	P	39	12.37	0.1			e	34	58.65	20km								
			S	39	14.57		PV09	89.03	335	(P)	34	53.03	0.2	BKS	0.10	358	ePd	02	39.88	0.2
PZZ	0.19	304	P	39	13.15	0.3	ARUT	89.73	332	(P)	34	56.83	0.8							
			S	39	15.89				e	35	03.71	21km		ZSP	0.17	353	iPd	02	41.59	0.6
ENR	0.19	157	P	39	12.92	0.1	MSU	89.98	333	eP	34	56.93	-0.3							
			S	39	15.62		DAU	91.43	334	eP	35	03.59	-0.4	JEGM	0.32	215	eP	02	43.85	0.0
ROB	0.41	105	P	39	17.40	0.4	RSSD	92.95	341	(P)	35	09.92	-0.8	HMR	0.51	42	eP	02	48.77	1.2
			S	39	23.26			0.4s	2.02nm			4.9mb		MHC	0.64	132	eP	02	49.95	-0.2
BHB	0.44	355	P	39	17.14	-0.5	GEC2	122.66	52	PKP	40	51.80	-1.4	COE	0.68	139	eP	02	51.24	0.2
			S	39	22.90			0.7s	0.57nm					ARN	0.70	127	eP	02	51.06	-0.3
IMI	0.64	140	P	39	20.88	-0.6			e	40	58.80									
			S	39	29.17		MBC	124.97	349	PKP	40	56.60	-0.2							
FIN	0.67	106	P	39	21.43	-0.5	MBC	124.97	349	PKP	41	02.00	5.2X							
			S	39	30.68				PP	42	52.20			NTYM	0.70	331	eP	02	50.98	-0.4
PCP	0.89	80	P	39	26.26	0.6			SSS	04	13.60			SAO	1.19	148	eP	02	59.13	-0.8
	S.D. = 0.5	on 8 of 8 obs.					DAG	127.70	14	ePKP	41	02.50	0.4	CMB	1.48	79	eP	03	03.31	-1.4
	* JAN 10, 1994 18h 21m 58.02± 0.37s							0.7s	10.27nm					ORV	1.87	18	(P)	03	10.81	0.6
	45.958 S ± 7.8km 76.527 W ± 9.8km						HFS	128.44	40	ePKP	41	02.60	-1.3	BONR	3.11	85	(P)	03	29.54	



10d 19h

PCH 0.94 29 iP 42 43.19 -0.1  
 LCCH 1.06 336 iP 42 44.69 -0.1  
 FCH 1.29 30 iP 42 48.33 0.3  
 PEL 1.34 13 eP 42 48.23 -0.2  
 ROCH 1.48 1 eP 42 50.66 0.2  
 S.D. = 0.2 on 8 of 8 obs.

JAN 10, 1994 20h 46m 26.49± 0.63s  
 39.905 N ± 4.8km 22.561 E ± 5.6km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)

ML 2.1 (THE).

LIT 0.20 344 iPgc 46 30.78 0.1  
 THE 0.79 23 iPgc 46 42.20 -0.1  
 PAIG 0.86 88 iPgd 46 44.17 0.7  
 AGG 0.90 192 iPgc 46 43.92 -0.3  
 GRG 1.06 353 iPgd 46 46.60 -0.3  
 OUR 1.17 68 iPgd 46 48.40 -0.4  
 FNA 1.26 314 IPb 46 50.92 0.5  
 KNT 1.28 11 IPbd 46 50.34 -0.4  
 VAY 1.41 0 ePn 46 52.70 -0.2  
 SRS 1.44 33 ePb 46 53.56 0.2  
 S.D. = 0.4 on 10 of 10 obs.

% JAN 10, 1994 21h 34m 40.45± 0.85s  
 44.340 N ± 7.4km 7.284 E ± 9.8km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 1.9 (GEN).

STV 0.10 163 P 34 43.09 -0.2  
 ENR 0.15 139 P 34 44.16 0.2  
 PZZ 0.21 322 P 34 45.21 0.1  
 ROB 0.42 96 P 34 48.46 0.0  
 BHB 0.50 358 P 34 54.85 -0.1  
 S.D. = 0.2 on 5 of 5 obs.

% JAN 10, 1994 22h 04m 57.34± 0.66s  
 26.827 S ± 6.4km 26.671 E ± 6.7km  
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.4 (PRE).

BFS 0.12 125 eP 04 59.50 -0.5  
 KSR 0.98 12 eP 05 16.90 0.4  
 SWZ 1.25 253 eP 05 20.40 -0.8  
 SEK 1.71 151 eP 05 29.00 0.8  
 SLR 1.81 53 iPc 05 30.10 0.6  
 BOSA 2.10 212 eP 05 34.40 0.8  
 BLF 2.31 191 eP 05 36.50 -0.4  
 BFT 3.23 70 eP 05 49.00 -1.0  
 S.D. = 0.9 on 8 of 8 obs.

% JAN 10, 1994 22h 23m 55.65± 0.83s  
 44.335 N ± 6.1km 7.252 E ± 7.7km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 2.1 (GEN).

STV 0.11 150 P 23 58.51 0.0  
 S 23 59.79

ENR 0.16 132 P 23 59.43 0.0  
 PZZ 0.20 328 P 24 01.44 0.3  
 ROB 0.45 95 P 24 05.00 0.2  
 BHB 0.51 1 P 24 05.56 -0.4  
 IMI 0.63 133 P 24 08.08 -0.2  
 FIN 0.70 100 P 24 09.48 0.0  
 PCP 0.95 77 P 24 13.85 0.1  
 S.D. = 0.3 on 8 of 8 obs.

\* JAN 10, 1994 22h 56m 43.85± 2.51s  
 33.476 S ± 10.5km 72.388 W ± 19.2km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF CENTRAL CHILE (134)  
 MD 4.2 (SAN).

LCCH 0.68 90 iP+ 56 56.96 -0.4  
 IHA 0.77 55 iPc 56 58.50 -0.4  
 LNV 0.95 121 iP+ 57 02.28 0.4  
 TACH 1.22 99 eP+ 57 05.81 -0.8  
 ROCH 1.26 67 IPd 57 06.54 -0.9  
 SAN 1.44 90 iP+ 57 09.61 -0.4  
 PEL 1.46 77 iP 57 10.16 -0.2  
 PCH 1.57 96 IPd 57 11.71 -0.2  
 CACH 1.62 114 IPd 57 13.10 0.4  
 JACH 1.70 63 IPd 57 12.87 -1.0  
 FCH 1.76 86 IPd 57 14.72 -0.2  
 RTCB 3.62 58 e(P)c 57 43.00 1.7  
 RTLL 3.95 58 e(P) 57 47.00 1.2  
 CFA 3.97 63 e(P) 57 48.00 1.9  
 LPAZ 17.54 14 P 00 49.60 -1.1  
 S.D. = 1.0 on 15 of 15 obs.

JAN 10, 1994 23h 00m 36.40± 0.66s  
 38.767 N ± 7.2km 26.523 E ± 5.5km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 ML 3.5 (ISK).

IZM 0.69 122 ePg 00 50.20 0.2  
 CIN 1.70 133 ePn 01 06.00 -0.2  
 DST 1.84 62 ePg 01 08.80 0.5  
 EDC 1.89 33 iPn 01 09.00 0.0  
 ALN 2.16 350 iPc 01 16.93 4.1X  
 PAIG 2.49 299 eP 01 23.20 5.6X  
 OUR 2.51 309 eP 01 17.40 -0.5  
 IZI 2.77 55 ePn 01 21.90 0.2  
 CTT 2.79 31 ePn 01 21.40 -0.5  
 ALT 2.81 83 ePn 01 22.00 -0.3  
 SRS 3.25 317 eP 01 28.40 -0.1  
 KNT 3.67 312 eP 01 35.12 0.7  
 S.D. = 0.5 on 10 of 12 obs.

\* JAN 10, 1994 23h 28m 14.41± 1.20s  
 21.591 N ± 11.8km 144.151 E ± 17.7km  
 DEPTH = 33.0km (normal)  
 4.7mb ( 5 obs.)  
 MARIANA ISLANDS REGION (215)

CHJJ 15.09 344 P 31 46.50 -0.4  
 MAT 15.77 342 (P) 31 56.00 0.3  
 1.6s 120.00nm 4.8mb  
 MTMJ 15.93 341 eP 31 58.10 0.3  
 NIJ 16.22 345 P 32 01.30 -0.1  
 LZH 37.87 301 eP 35 30.50 0.2  
 1.8s 30.00nm 4.9mb  
 WB2 42.38 194 eP 36 15.80 8.4X  
 0.2s 13.40nm 5.3mb  
 GUN 52.88 289 P 37 31.00 1.0  
 PKI 53.34 289 P 37 33.20 -0.1

KKN 53.42 289 P 37 34.00 0.2  
 DMN 53.60 289 P 37 34.00 -1.2  
 GKN 53.96 290 P 37 38.40 0.7  
 YKA 76.13 28 P 40 01.30 0.9  
 0.8s 2.70nm 4.3mb  
 KAF 83.20 335 iP 40 37.50 -0.9  
 0.7s 2.90nm 4.5mb  
 NUR 84.77 334 iP 40 45.50 -0.9  
 LPAZ 149.05 86 PKP 48 05.40 7.3X  
 LPB 149.14 86 ePKP 48 03.00 5.0X  
 S.D. = 0.7 on 13 of 16 obs.

JAN 10, 1994 23h 36m 28.39± 0.58s  
 12.825 N ± 5.6km 89.619 W ± 7.3km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF CENTRAL AMERICA (76)  
 ML 4.4 (GCG).

LFU 1.04 28 iP 36 48.80 0.7  
 CUSS 1.12 344 iPc 36 49.60 0.1  
 TME 1.21 12 iPc 36 51.00 0.0  
 YPE 1.29 357 IPd 36 52.50 0.1  
 YUP 1.38 353 ePd 36 53.27 -0.5  
 TER 1.80 325 ePd 36 59.38 -0.3  
 QZG 1.81 7 IPd 36 59.55 -0.6  
 PCG 1.83 328 eP 37 00.33 -0.1  
 GCG 1.96 333 eP 37 03.55 1.3  
 SLP 2.01 341 ePd 37 02.77 -0.2  
 BVA 2.08 332 ePd 37 04.11 0.1  
 0.6s 297.40nm  
 MRL 2.23 358 ePd 37 05.36 -0.7  
 JTS 5.22 118 iPc 37 47.96 -0.5  
 CAO 5.41 125 eP 37 50.96 -0.2  
 OCM 6.27 117 iPc 38 03.32 -0.1  
 IRZ2 6.29 116 IPd 38 04.23 0.4  
 QPS 6.37 122 iPc 38 04.72 0.1  
 TIG 7.26 121 eP 38 18.10 0.9  
 CTCR 7.79 119 IPd 38 24.06 -0.7  
 S.D. = 0.6 on 19 of 19 obs.

% JAN 11, 1994 00h 15m 34.90± 1.17s  
 41.162 N ± 11.8km 23.207 E ± 5.3km  
 DEPTH = 5.0km (geophysicist)  
 GREECE-BULGARIA BORDER REGION (363)  
 ML 2.1 (THE).

KNT 0.23 270 iPg 15 39.84 0.2  
 SRS 0.29 99 ePg 15 40.80 -0.1  
 THE 0.56 199 ePg 15 46.16 0.0  
 GRG 0.64 252 ePg 15 47.52 -0.2  
 OUR 1.02 144 ePg 15 54.60 0.1  
 16 10.29  
 S.D. = 0.2 on 5 of 5 obs.

JAN 11, 1994 00h 34m 55.09± 0.59s  
 25.269 N ± 9.2km 97.093 E ± 6.2km  
 DEPTH = 33.0km (normal)  
 3.8mb ( 2 obs.)

MYANMAR-CHINA BORDER REGION (297)  
 ML 4.1 (BJI).

KMI 5.12 90 ePn 36 11.40 -0.3  
 Pg 36 28.40  
 Sg 37 25.40  
 CHTO 6.65 165 ePn 36 32.70 -0.4  
 iPg 36 55.50  
 ISg 38 21.40  
 LSA 6.88 311 ePn 36 41.80 5.1X  
 BDT 8.18 167 eP 36 52.00 -2.5  
 GYA 8.70 80 P 37 04.00 2.2  
 GUN 10.38 287 P 37 25.40 0.3  
 0.7s 23.00nm 5.5mb X  
 PKI 10.72 285 P 37 29.20 -0.6  
 0.5s 4.00nm 4.9mb X  
 KKN 10.87 286 P 37 31.80 0.1  
 0.6s 15.00nm 5.4mb X



11d 00h

DMN 10.99 285 P 37 32.00 -1.4  
 GKN 11.47 286 P 37 39.00 -0.8  
 0.7s 25.00nm 5.5mb X  
 XAN 13.49 47 eP 38 04.00 -2.6  
 TIY 18.00 43 eP 39 05.00 0.6  
 Z 14s 0.48um  
 N 11s 0.29um  
 S 42 22.00  
 HYB 18.94 249 eP 39 17.50 1.4  
 HHC 19.67 34 P 39 24.40 0.1  
 BJI 21.73 43 eP 39 46.00 0.6  
 GBA 21.84 242 P 39 49.00 2.4  
 WRA 57.72 138 P 44 46.00 0.8  
 0.6s 0.70nm 3.9mb  
 YKA 88.95 14 P 47 50.90 3.5X  
 0.8s 0.40nm 3.8mb  
 S.D. = 1.5 on 16 of 18 obs.

JAN 11, 1994 00h 51m 56.38± 0.11s  
 25.231 N ± 2.8km 97.203 E ± 2.2km  
 DEPTH = 9.9km (geophysicist)  
 6.0mb (123 obs.) 5.9MsZ (29 obs.)  
 MYANMAR-CHINA BORDER REGION (297)  
 Mw 5.9 (GS), 6.1 (HRV). Ms 5.6  
 (BRK). Depth from broadband  
 displacement seismograms.  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=280 Dip=50 Slip= -90  
 NP2: 100 40 -90  
 Principal Axes:  
 T Plg= 5 Azm= 10  
 P 85 190  
 Comment: The focal mechanism is  
 poorly controlled and  
 corresponds to normal  
 faulting. The preferred fault  
 plane is not determined.  
 RADIATED ENERGY  
 No. of sta: 9 Focal mech. M  
 Energy 2.5±0.7\*10\*\*13 Nm  
 MOMENT TENSOR SOLUTION  
 Dep 14 No. of sta: 8  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr=-7.99 Mtt= 9.33  
 Mff=-1.36 Mrt=-1.23  
 Mrf=-2.41 Mtf= 0.01  
 Principal axes:  
 T Val= 9.42 Plg= 4 Azm=179  
 N -0.57 18 88  
 P -8.85 72 282  
 Best Double Couple: Mo=9.1\*10\*\*17  
 NP1: Strike=287 Dip=44 Slip= -64  
 NP2: 73 52 -113  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 41S, 90C  
 Centroid Location:  
 Origin Time 00:52: 4.2 0.2  
 Lat 24.80N 0.03 Lon 97.40E 0.03  
 Dep 15.0 BDY Half-duration 2.7  
 Moment Tensor; Scale 10\*\*18 Nm  
 Mrr=-1.19 0.03 Mtt= 1.20 0.10  
 Mff=-0.01 0.04 Mrt= 1.02 0.10  
 Mrf=-0.17 0.08 Mtf=-0.30 0.02  
 Principal Axes:  
 T Val= 1.64 Plg=20 Azm= 12  
 N -0.07 2 282  
 P -1.57 70 186  
 Best Double Couple: Mo=1.6\*10\*\*18  
 NP1: Strike=106 Dip=25 Slip= -85  
 NP2: 281 65 -92  
 KMI 5.02 90 Pnd 53 15.00 1.3  
 Pg 53 31.00  
 Sg 54 35.00  
 CHTO 6.59 165 ePn 53 39.00 3.3X  
 iPg 54 01.80  
 iSg 55 27.70  
 LSA 6.98 311 Pnd 53 44.30 2.7  
 0.8s 180.00nm 6.3mb  
 CD2 8.09 44 P 53 58.00 1.2  
 1.2s 750.00nm 6.8mb  
 Z 12s 59.00um  
 E 10s 47.80um  
 S 55 34.00  
 BDT 8.12 168 ePn 53 55.00 -2.2  
 S 54 28.00

GYA 8.61 80 iPd 54 04.00 -0.1  
 1.0s 420.00nm 6.7mb  
 Z 12s 57.40um 3.8MsZ  
 PP 54 12.00  
 S 55 38.00  
 LOE 8.85 151 ePn 54 06.00 -1.4  
 GUN 10.48 287 P 54 29.40 -0.7  
 PKI 10.83 285 P 54 33.90 -0.9  
 KKN 10.98 286 P 54 35.80 -1.0  
 DMN 11.10 285 P 54 37.20 -1.3  
 PCT 11.21 159 ePn 54 41.00 1.2  
 eSg 57 59.00  
 GKN 11.58 287 P 54 43.40 -1.5  
 LZH 12.23 26 iPc 54 53.50 -0.2  
 2.0s 1820.00nm 7.0mb X  
 Z 12s 78.90um 4.5MsZ  
 E 10s 187.00um  
 pP 54 58.00  
 sP 55 03.00  
 PP 55 03.50  
 S 57 09.00  
 sS 57 16.00  
 SS 57 22.00  
 QIZ 13.24 115 Pd 55 05.60 -1.4  
 XAN 13.44 47 P 55 06.80 -2.9  
 1.5s 340.00nm 6.1mb  
 Z 10s 62.50um 4.7MsZ  
 N 12s 314.00um  
 E 12s 161.00um  
 pP 55 15.00  
 sP 55 19.00  
 GTA 14.31 8 eP 55 19.50 -1.7  
 2.0s 480.00nm 5.8mb  
 Z 10s 83.40um 5.4MsZ  
 PP 55 30.20  
 eS 58 00.00  
 eSS 58 17.00  
 GZH 14.89 95 Pc 55 26.50 -2.2  
 1.3s 260.00nm 5.6mb  
 Z 12s 34.30um  
 HKC 15.81 97 eP 55 39.00 -1.6  
 iS 58 50.00  
 WHN 16.05 67 P 55 42.50 -1.3  
 1.0s 240.00nm 5.3mb  
 Z 10s 56.80um 4.4MsZ  
 N 12s 104.00um  
 E 14s 66.70um  
 TIY 17.96 43 iPc 56 06.50 -1.3  
 1.4s 460.00nm 5.4mb  
 Z 18s 48.50um  
 E 12s 34.30um  
 S 59 22.50  
 sS 59 35.00  
 NDI 18.14 285 iPd 56 10.00 -0.1  
 0.6s 460.00nm 5.8mb  
 eS 59 40.00  
 SNG 18.25 169 ePn 56 12.90 1.4  
 e 59 36.00  
 BTO 18.69 32 iPc 56 16.00 -0.9  
 1.6s 980.00nm 5.8mb  
 N 10s 55.70um  
 E 10s 50.20um  
 PP 56 32.50  
 S 59 42.00  
 SS 00 04.00  
 HYB 19.02 250 ePd 56 18.50 -2.5  
 1.0s 295.00nm 5.5mb  
 iS 59 50.00  
 QZH 19.38 86 iPd 56 25.00 -0.2  
 2.0s 1160.00nm 5.8mb  
 Z 12s 69.30um 5.1MsZ  
 19.64 34 P 56 28.40 0.1  
 1.2s 810.00nm 5.9mb  
 Z 12s 66.20um 4.8MsZ  
 sP 56 41.00  
 S 00 04.00  
 WMQ 20.11 340 P 56 34.00 0.9  
 1.0s 730.00nm 6.0mb  
 Z 12s 33.20um 5.9MsZ  
 N 10s 28.90um  
 E 11s 43.10um  
 pP 56 42.40 32kmX  
 sP 56 46.30  
 PP 56 51.00  
 ScS 08 05.00  
 NJ2 20.16 65 Pd 56 33.50 -0.2

1.0s 180.00nm 5.4mb  
 N 14s 154.00um  
 E 14s 51.90um  
 TIA 20.29 53 Pd 56 35.00 0.0  
 N 14s 172.00um  
 E 14s 116.00um  
 IPM 20.86 169 ePc 56 41.10 0.0  
 2.0s 1441.70nm 6.0mb  
 e 02 13.00  
 BJI 21.69 42 Pd 56 50.00 0.7  
 2.0s 990.00nm 5.9mb  
 Z 16s 27.80um 5.8MsZ  
 N 12s 36.60um  
 E 12s 47.10um  
 ePP 57 16.00  
 GBA 21.90 242 P 56 54.00 2.4  
 SSE 21.92 69 Pd 56 52.00 0.4  
 1.5s 1840.00nm 6.3mb  
 Z 12s 59.40um 6.2MsZ  
 N 12s 40.00um  
 E 12s 21.30um  
 S 00 48.00  
 sS 00 56.00  
 SS 01 20.00  
 TATO 21.99 85 (P) 56 56.74 4.3X  
 1.1s 340.10nm 5.7mb  
 NIL 22.45 298 iPd 57 01.66 4.7X  
 ePn 57 18.61  
 eS 00 59.40  
 POO 22.65 258 iPd 57 02.00 2.9  
 1.0s 255.00nm 5.7mb  
 iS 01 06.50  
 KSH 22.79 314 iPd 57 03.00 2.6  
 Z 10s 40.70um 6.2MsZ  
 N 18s 53.90um  
 E 18s 43.40um  
 pP 57 11.00 29kmX  
 sP 57 17.00  
 PP 57 31.00  
 PcP 00 53.00  
 iS 01 08.00  
 SS 01 51.00  
 ScP 04 30.00  
 ScS 08 17.00  
 BOM 23.44 259 iP 57 09.30 2.5  
 iS 01 28.50  
 BAG 23.52 107 ePd- 57 09.00 1.3  
 2.5s 5955.56nm 6.7mb  
 e 01 22.00  
 KGM 23.82 165 ePc 57 11.00 0.5  
 e 05 07.20  
 CVP 24.08 103 eP 57 14.50 1.6  
 DL2 24.69 51 Pd 57 21.50 2.8  
 1.2s 620.00nm 6.1mb  
 Z 13s 32.30um 6.0MsZ  
 N 14s 53.10um  
 E 14s 40.00um  
 QCP 24.75 111 eP 57 25.00 5.5X  
 FRU 25.54 319 iPd 57 30.00 3.2X  
 iS 01 58.00  
 PPR 25.58 123 ePd 57 27.00 -0.4  
 GQP 26.27 111 ePd 57 34.00 0.3  
 KKM 26.37 133 ePc 57 37.50 2.7  
 1.7s 43.30nm 4.9mb X  
 QUE 27.19 287 eP 57 36.50 -5.9X  
 eS 02 24.00  
 SNY 27.37 46 iPd 57 44.00 0.4  
 1.2s 220.00nm 5.8mb  
 Z 14s 44.80um 6.2MsZ  
 N 12s 27.30um  
 sP 57 51.00  
 S 02 19.00  
 sS 02 40.00  
 IRK 27.54 9 iPd 57 46.00 0.9  
 1.5s 441.00nm 6.0mb  
 e 58 05.00 83kmX  
 e 58 11.50  
 ePP 58 35.00  
 e 59 10.00  
 iS 02 30.00  
 e 04 34.00  
 e 05 06.00  
 TSM 28.77 133 ePd 57 56.80 0.3  
 CN2 29.53 44 eP 58 02.80 -0.3  
 1.2s 160.00nm 5.7mb  
 Z 14s 15.50um 5.8MsZ  
 N 10s 21.90um



11d 00h

E	10s	14.50um				WB5	57.59	138	eP	01	47.00	-1.9	IVA	64.30	307	iPc	02	34.51	0.1	
		esP	58	17.00		IZI	57.61	303	iP	01	48.30	-0.7	PVY	64.30	307	iPc	02	34.33	-0.1	
		ePcP	01	09.00		WRA	57.62	138	P	01	47.70	-1.5	LOF	64.50	336	eP	02	34.34	-0.8	
		S	02	53.00			0.6s	32.80nm				5.5mb	KBS	64.51	348	eP	02	35.00	-0.1	
		SS	04	26.00		WB2	57.63	138	eP	01	46.90	-2.3				e	11	16.00		
CTB	31.41	120	ePc	58	22.00		0.6s	66.90nm				5.8mb				i	18	29.20		
MDJ	32.55	45	ePd	58	29.60		AAE	57.70	265	P	01	51.50	1.2	UZD	64.52	312	iP	02	34.30	-1.3
	1.5s	390.00nm			6.1mb	ELL	57.77	299	iP	01	57.50	7.3X	PLE	64.57	308	iPc	02	36.28	0.1	
Z	15s	31.80um			6.1MsZ	ISK	57.83	304	iP	01	49.80	-0.6	VLS	64.77	302	eP	02	35.00	-2.4	
N	10s	16.70um				KHL	57.84	301	iP	01	49.80	-0.8	TTG	64.85	307	eP	02	37.33	-0.5	
E	12s	25.80um				HLW	57.88	291	eP	01	50.00	-0.9	ULC	64.95	306	iPc	02	37.16	-1.4	
		epPc	58	32.50	10kmX				eS	09	50.00		NKY	64.96	307	iPc	02	37.79	-0.9	
		esPc	58	33.99		CTT	58.30	304	iP	01	52.80	-0.9	KEK	65.03	304	eP	02	37.50	-1.6	
DAV	32.56	119	eP+	58	30.00	DST	58.35	302	eP	01	53.20	-0.9	BDV	65.19	307	iPc	02	38.95	-1.1	
LEM	33.44	161	ePc	58	39.50	WARB	58.49	149	eP	01	54.80	-0.3	ZST	65.21	313	iP	02	39.10	-1.0	
		eS	04	16.00		BAL	58.58	160	eP	01	55.00	-0.7				ePP	05	02.70		
		eLR	05	39.00		EDC	58.83	303	iP	01	57.00	-0.4	BRY	65.27	308	iPc	02	39.51	-1.2	
MAIO	34.03	298	iPc	58	44.00	VR1	59.02	310	iPc	01	59.00	0.3	HFS	65.28	327	eP	02	40.00	-0.3	
	1.4s	262.50nm			6.0mb	CIN	59.07	300	eP	01	58.20	-0.9		1.4s	710.80nm			6.7mb		
MAJO	36.70	62	ePd	59	04.76	KAF	59.10	329	iP	01	59.00	0.0	Z	18s	7.82um			6.0MsZ		
	1.3s	162.94nm			5.7mb		1.3s	329.20nm				6.3mb				LR	29	45.00		
		epPc	59	07.58	10kmX	PMG	59.59	119	ePd	02	02.47	-0.5	BSD	65.37	321	iPd	02	40.20	-0.8	
SAP	40.10	52	eP	59	35.00				epPc	02	05.29	9kmX		0.9s	39.00nm			5.6mb		
ERM	41.24	54	ePd	59	43.50	MLR	59.60	309	ePc	02	03.20	0.3	HCY	65.39	307	eP	02	40.11	-1.2	
		epPc	59	46.56	10kmX	SDF	59.60	335	iP	02	02.50	0.1	NSS	65.50	332	eP	02	41.48	-0.1	
ARU	41.77	329	eP	59	48.54	BUC	59.61	308	ePd	02	04.00	1.2	CTAO	65.60	129	iPd	02	42.26	-0.6	
		ePP	01	24.71		BUC1	59.67	308	ePc	02	02.00	-1.1		1.3s	161.00nm			6.1mb		
YSS	41.98	47	P	59	49.00	MUN	59.71	161	eP	02	02.50	-1.0				epPc	02	45.49	10kmX	
DHR	42.21	282	ePd	59	53.00	KEV	59.72	338	(P)	02	03.31	0.1	VKA	65.72	314	iPd	02	43.60	0.3	
		eS	06	15.00			1.1s	386.33nm				6.4mb		3.0s	1119.00nm			6.5mb		
YAK	42.77	22	iPc	59	57.00	NUR	59.82	327	iP	02	03.70	-0.2				i	05	11.00		
	1.3s	510.00nm			6.1mb		0.7s	73.80nm				5.9mb	NRE0	66.24	328	P	02	51.70	5.2X	
Z	13s	21.00um			6.2MsZ	Z	16s	16.00um				6.2MsZ				PP	05	26.10		
N	12s	10.00um						e	05	44.00						PPP	07	12.60		
E	14s	18.40um						eS	10	17.00						S	11	39.90		
		iPP	01	40.00				e	14	40.00						ScS	12	41.40		
		iPPP	01	56.00		KLB	59.82	160	eP	02	03.50	-0.8				SS	16	10.80		
		iScP	05	38.00		ALN	60.12	304	eP	02	05.88	-0.4	NRA0	66.24	328	P	02	45.90	-0.6	
		eS	06	12.00		PRK	60.21	302	eP	02	07.00	0.1				PP	05	15.40		
		i	09	04.00		ASPA	60.22	141	iPd	02	05.60	-1.6	PTJ	66.44	311	iP	02	47.60	-0.5	
		iScS	09	30.00			1.8s	88.90nm				5.6mb	ZAG	66.44	311	iPd	02	48.50	0.5	
TAB	44.65	299	iPd-	00	13.40	CMP	60.26	309	ePd	02	07.00	-0.3	PRU	66.52	316	P	02	48.60	0.2	
RYD	45.64	281	ePc	00	19.20	COOL	60.32	156	eP	02	06.80	-0.9		1.5s	352.00nm			6.3mb		
GUMO	46.21	95	iPd	00	22.19	RDO	60.46	305	eP	02	08.30	-0.3				PcP	03	17.20		
	1.4s	210.40nm			6.0mb	RAB	60.80	111	ePd	02	12.00	0.7				ePP	05	15.00		
MJMA	46.59	282	ePc	00	26.60	NWA0	60.90	161	eP	02	10.60	-1.0				S	11	42.30		
QASM	48.09	283	ePc	00	38.00	QIS	61.40	134	eP	02	15.00	-0.2	COP	66.66	322	iPc	02	51.20	2.0	
KMSA	48.58	276	ePc	00	41.30	UZH	61.73	313	iPc	02	18.00	0.9		1.0s	220.00nm			6.3mb		
UQSK	49.19	283	ePc	00	48.00	CEI	61.74	312	eP	02	21.00	3.8X	Z	20s	12.06um			6.1MsZ		
KMTA	50.70	273	ePc	00	59.30	OUR	61.76	304	eP	02	17.44	0.0	HVAR	66.70	308	iP	02	49.00	-0.7	
ABHA	50.78	274	ePc	01	02.00	SRS	61.91	305	eP	02	17.65	-0.9	BRG	66.71	317	iP	02	49.20	-0.5	
KNA	51.04	140	eP	01	00.20	PAIG	62.06	303	iP	02	19.10	-0.4		1.6s	210.00nm			6.1mb		
GAZ	51.91	298	iP	01	07.70	ATH	62.41	301	eP	02	22.00	0.2	Z	22s	13.00um			6.1MsZ		
TAIF	52.05	278	ePc	01	10.00	KNT	62.42	305	eP	02	20.56	-1.4	N	22s	34.00um					
KVT	52.57	303	iP	01	12.00	THE	62.47	304	eP	02	21.82	-0.4	E	22s	31.00um					
BNN	52.84	301	iP	01	15.00	TRO	62.51	337	eP	02	21.50	-0.6				i	03	12.60	91kmX	
OBN	52.96	321	ePd	01	15.02	SMY	62.53	42	eP	02	22.58	0.2				iS	12	35.00		
	1.5s	590.00nm			6.3mb		1.0s	493.63nm				6.7mb	BRNL	66.76	319	ePd	02	51.00	1.1	
Z	18s	17.00um			6.1MsZ	Z	21s	8.40um				5.9MsZ	VBY	67.01	311	iPd	02	51.70	0.1	
N	16s	5.40um				VAM	62.56	298	eP	02	22.50	-0.4	CLL	67.20	317	iPc	02	52.30	-0.5	
E	18s	16.00um				VAY	62.64	305	iPc	02	22.40	-0.9		2.5s	605.00nm			6.3mb		
		epPc	01	17.84	9kmX		1.4s	250.00nm				6.2mb	Z	19s	4.00um			5.7MsZ		
		esPc	01	19.82		GRG	62.83	305	eP	02	23.28	-1.4				i	03	24.30	131kmX	
		iPcP	02	24.00		LIT	62.93	304	iP	02	24.16	-1.1				eS	11	42.00		
		ePP	03	20.00		SPC	63.00	314	eP	02	25.90	0.1	GEC2	67.30	315	P	02	52.70	-0.8	
		ePPP	04	27.00		AGG	63.26	303	eP	02	25.92	-1.6		1.3s	113.09nm			5.9mb		
		iS	08	44.00		VLI	63.28	300	eP	02	25.80	-1.8				e	02	57.30	15kmX	
		iPS	09	04.00		UPP	63.34	326	iP	02	27.50	-0.2				e	03	00.30		
		iSS	12	42.00		SKO	63.35	306	iPc	02	26.60	-1.4				e	03	07.10		
		eSSS	14	26.00			1.4s	320.00nm				6.3mb	KHC	67.31	315	Pd	02	54.00	0.4	
		LQ	16	48.00		Z	17s	2.66um				5.5MsZ		1.0s	46.00nm			5.6mb		
		LR	21	08.00				i	02	35.20	28kmX		Z	22s	13.70um			6.1MsZ		
								i	02	53.00			N	22s	20.90um					
ARO	53.03	266	ePd	01	17.30	PSZ	63.41	313	iPd	02	28.50	0.0	E	20s	4.80um					
PET	53.18	42	ePd	01	17.00	KZN	63.43	304	eP	02	27.30	-1.4				e	03	09.50	56kmX	
		eS	08	48.00	OHR	63.99	305	iP	02	30.80	-1.5				e	03	31.50			
SIM	53.87	308	eP	01	22.00		1.1s	90.00nm				5.9mb				e	04	18.50		
		eS	09	10.00				i	32	58.00			LJU	67.38	312	eP	02	54.00	0.0	
AYN	54.11	288	ePc	01	23.30	NAI	64.03	255	iPd	02	34.50	1.3				iPcP	03	17.10	194kmX	
KAS	54.27	304	iPd	01	25.30				PPP	09	12.00					i	03	39.90		
SRFA	54.79	289	ePc	01	28.60	BUD	64.07	312	eP	02	32.00	-0.6				PP	05	24.00		
CSS	55.29	296	eP	01	32.00	OKC	64.26	315	P	02	34.50	0.6				e	31	30.00		
MEEK	55.55	157	eP	01	33.60				e	02	41.50	23kmX				e	31	32.00		
PPCY	56.10	296	eP	01	38.00				e											



	e	19	17.81		WLF	71.85	317	iPc	03	22.11	0.8	MBC	76.26	8	P	03	46.90	0.5		
	i	23	51.11			1.5s	150.00nm				5.9mb		0.8s	652.00nm			6.8mb			
RIY	67.64	311	iPd	02	54.50	-1.1				id	03	26.65	15kmX							
WET	67.76	315	iPc	02	56.60	0.3	ORX	71.90	312	P	03	20.21	-1.6		PP	06	39.00			
	1.5s	329.00nm			6.3mb		BSF	72.01	315	eP	03	21.70	-0.8		PPP	08	12.00			
MOL	67.77	330	eP	02	55.97	-0.2		1.7s	247.05nm			6.0mb			S	13	26.70			
VOY	67.81	312	eP	02	55.80	-1.0	LOMF	72.13	314	P	03	22.77	-0.4		ScS	13	59.50			
	e	02	58.00		7kmX		DIX	72.14	313	P	03	23.77	0.3		SS	18	26.30			
KBA	67.93	313	iPc	02	56.60	-1.1	PGF	72.15	309	eP	03	22.70	-0.7	RJF	76.29	314	iPc	03	47.80	0.7
	1.4s	138.00nm			6.0mb			1.1s	89.15nm			5.8mb			1.1s	151.90nm		6.0mb		
	i	02	59.70		10kmX		FIN	72.18	311	P	03	22.40	-1.1		Z	21s	3.60um		5.7MsZ	
	i	03	19.50				HAU	72.24	315	iPc	03	23.20	-0.5	GRR	76.62	317	eP	03	48.80	-0.1
TRI	67.98	311	e(P)d	02	57.50	-0.2		1.5s	164.00nm			5.9mb			1.3s	130.70nm		5.9mb		
	e(PP)	05	28.00				Z	21s	4.40um			5.7MsZ		BWA	76.68	139	eP	03	50.70	1.3
	e(PPP)	07	08.00				ROB	72.39	311	P	03	24.19	-0.5		e	04	45.20	229kmX		
	e(SP)	12	32.00				VITF	72.41	315	P	03	24.82	0.1	LPO	76.74	313	eP	03	50.20	0.5
BHG	68.09	314	iPc	02	58.30	-0.1	EMS	72.46	313	P	03	25.22	-0.1		1.1s	90.85nm		5.8mb		
	1.4s	460.00nm			6.5mb		IMI	72.49	311	P	03	25.84	0.5	MFF	76.87	315	eP	03	50.20	-0.1
HOF	68.12	316	eP	02	58.50	-0.1	LSD	72.51	312	P	03	25.52	-0.1		1.5s	133.70nm		5.8mb		
MOX	68.21	317	eP	02	59.60	0.5	RSP	72.53	312	P	03	22.95	-2.7	LPF	76.88	317	eP	03	50.60	0.3
	2.4s	620.00nm			6.4mb		BHB	72.63	312	P	03	24.14	-1.9		1.4s	194.30nm		6.0mb		
Z	18s	5.30um			5.8MsZ		DOU	72.68	318	Pc	03	27.60	1.4	LFF	76.94	314	iPc	03	51.10	0.4
	eS	12	00.00				SAOF	72.70	311	P	03	26.53	0.0		1.1s	98.15nm		5.8mb		
MUD	68.29	323	iPc	02	59.90	0.4	ENR	72.71	311	P	03	25.74	-0.9	TOO	77.21	143	eP	03	52.30	0.0
	1.4s	437.00nm			6.5mb		SNF	72.73	318	iPc	03	26.55	0.1		1.3s	163.00nm		6.0mb		
GRF	68.68	316	eP	03	02.80	0.7	LPG	72.76	313	eP	03	27.10	-0.1	COL	77.28	23	P	03	51.67	-0.6
	1.6s	375.00nm			6.3mb			1.1s	129.90nm			5.9mb			1.0s	91.10nm		5.8mb		
	ePcP	03	34.20				LPL	72.77	313	iPc	03	27.10	0.0	FBA	77.28	23	eP	03	51.35	-0.9
	ePP	05	35.30					1.4s	284.05nm			6.2mb			1.0s	63.36nm		5.7mb		
	eS	12	10.00				STV	72.77	311	P	03	26.16	-0.9		ePP	06	51.39			
WTTA	69.02	313	iPc	03	03.30	-1.1	AUTN	72.78	311	P	03	27.68	0.4	CP2	77.44	28	(P)	03	53.62	0.2
	1.1s	110.00nm			6.0mb		RSL	72.79	313	P	03	27.20	0.0	CRP	77.48	28	eP	03	53.61	0.0
	i	03	12.10		28kmX		SBF	72.82	311	eP	03	26.60	-0.7	CAN	77.64	139	eP	03	55.30	0.6
FUR	69.02	314	iPc	03	04.50	0.3		1.5s	240.25nm			6.1mb			e	04	49.50	227kmX		
	1.4s	386.00nm			6.4mb		PZZ	72.84	312	P	03	26.16	-1.3	CNB	77.85	139	eP	03	56.30	0.4
Z	19s	9.00um			6.0MsZ		AURF	72.89	311	P	03	27.85	0.2		1.2s	74.00nm		5.7mb		
	i	03	08.10		12kmX		TOUF	72.90	311	P	03	28.50	0.6	DLF	77.88	323	iPd	03	57.30	1.6
	ePcP	03	28.20				RRL	72.92	312	P	03	27.30	-0.8		1.3s	328.00nm		6.3mb		
	eS	12	10.20				MVIF	73.00	311	P	03	28.50	0.1	EPF	77.94	312	eP	03	56.30	-0.1
WATA	69.04	313	iPc	03	03.30	-1.2	FRF	73.46	311	eP	03	30.40	-0.5		1.4s	64.05nm		5.5mb		
SQTA	69.31	313	iPc	03	05.00	-1.1		1.3s	154.50nm			5.9mb		DCN	78.26	324	iPd	03	59.60	1.8
	1.2s	131.00nm			6.0mb		LMR	73.63	310	eP	03	31.40	-0.5		1.4s	356.00nm		6.3mb		
	i	03	28.80		92kmX			1.6s	281.10nm			6.1mb		ECP	78.28	322	eP	03	59.40	1.5
MOTA	69.35	314	iPc	03	05.30	-1.1	LRG	73.69	311	iPc	03	32.00	-0.2		78.55	27	eP	03	58.51	-0.8
SUE	69.41	329	eP	03	08.25	2.0		1.3s	213.70nm			6.0mb			0.9s	201.94nm		6.2mb		
OGA	69.52	313	iPc	03	06.70	-0.8	Z	22s	5.65um			5.8MsZ		Z	20s	6.74um		6.0MsZ		
	1.3s	103.00nm			5.8mb		LOR	74.07	315	iPc	03	33.90	-0.5	CIR	78.57	240	iPc	03	41.10	-19.0X
OSS	70.16	313	P	03	10.97	-0.4		1.2s	99.35nm			5.7mb		SLKM	78.68	28	eP	03	58.53	-1.5
TNS	70.27	317	ePd	03	10.70	-1.2		Z	19s	4.55um		5.8MsZ			ePP	07	00.14			
	ec	03	12.00		4kmX		LBF	74.09	315	iPc	03	34.00	-0.6	EGRA	78.72	311	P	03	59.09	-1.5
	ePcPc	03	35.20					1.4s	162.50nm			5.9mb		EROQ	78.77	310	iPc	04	02.04	1.1
	ePPc	05	48.50				SMF	74.30	314	iPc	03	35.40	-0.3		79.09	31	eP	04	01.48	-0.7
								1.2s	157.10nm			5.9mb			1.1s	186.89nm		6.0mb		
ANM	70.62	27	eP	03	13.53	-0.1	SSB	74.30	313	P	03	36.75	0.9	TOA	79.44	25	eP	04	04.70	0.5
WIT	70.62	320	eP	03	15.50	1.7	SSF	74.37	315	iPc	03	35.80	-0.3	KLU	79.89	26	eP	04	06.40	-0.3
VDL	70.66	313	P	03	15.22	0.7		1.0s	118.00nm			5.9mb		ECRI	80.03	312	iPc	04	09.73	1.9
WTS	70.77	319	eP	03	15.00	0.3	AVF	74.56	315	iPc	03	37.00	-0.2		80.23	309	eP	04	09.81	0.9
	1.0s	102.60nm			5.9mb			1.1s	128.95nm			5.9mb		BUL	80.47	242	iPc	04	09.10	-1.4
BNS	70.85	318	ePd	03	15.60	0.4	IMA	74.57	24	eP	03	36.34	-0.8	ETOR	80.48	311	P	04	11.53	1.3
Z	12s	11.00um			6.3MsZ			1.4s	59.98nm			5.4mb		VAL	80.51	323	iPc	04	12.10	2.1
LLS	70.86	313	P	03	15.18	-0.5		74.85	315	eP	03	39.30	0.4	BKM	81.22	114	iPc	04	19.50	5.2X
STK	70.86	141	eP	03	14.70	-0.8	HYF	74.97	315	eP	03	39.30	-0.3	EALH	81.28	308	eP	04	15.65	1.2
	1.0s	20.40nm			5.2mb		BGF	1.2s	77.95nm			5.6mb		BALM	81.55	25	eP	04	15.43	-0.1
SLE	70.93	314	P	03	15.97	0.1	EDI	75.02	325	iPc	03	41.20	1.5	EVIA	81.72	309	P	04	18.70	1.9
LANF	71.02	316	P	03	16.86	0.5		1.8s	1367.00nm			6.7mb		DZM	81.99	119	iPc	04	18.90	0.5
ZLA	71.08	314	P	03	16.72	-0.1		PcP	03	56.10				EHUE	82.14	308	P	04	20.36	1.4
TMA	71.16	313	P	03	16.70	-0.8	TTA	75.09	27	eP	03	39.61	-0.5	ENIJ	82.23	307	eP	04	20.84	1.5
STR	71.17	315	P	03	18.03	0.8		1.1s	57.05nm			5.5mb		BFT	82.27	237	iPc	04	23.00	3.1X
FEL	71.21	315	P	03	17.79	0.1	ESK	75.27	324	eP	03	41.85	0.7		1.2s	200.00nm		6.1mb		
DAG	71.27	347	iPc	03	16.70	-0.7	MAF	75.27	314	eP	03	41.60	0.2	PAB	82.61	310	ePc	04	21.35	-0.1
	0.7s	145.89nm			6.2mb			1.1s	119.65nm			5.9mb			2.0s	235.29nm		6.0mb		
	ipP	03	28.80		41kmX		TCF	75.48	314	eP	03	42.80	0.2		eS	14	41.00			
JNW	71.29	341	eP	03	19.90	2.3		1.2s	195.15nm			6.0mb		GDH	83.43	350	iPd	04	25.30	0.4
BRW	71.31	19	eP	03	17.37	-0.3	LSF	75.93	315	iPc	03	44.90	-0.2		1.5s	305.56nm		6.3mb		
LIBD	71.39	315	P	03	18.94	0.3		1.3s	99.30nm			5.7mb			e	07	12.00			
WLS	71.48	315	P	03	19.28	0.1	ARMA	76.02	134	eP	03	47.10	1.2		e	14	45.00			
CDF	71.52	315	iPc	03	19.00	-0.5		0.9s	40.00nm			5.5mb			e	20	20.00			
	1.2s	106.50nm			5.8mb		CAF	76.07	313	iPc	03	46.30	0.3	EPLA	83.57	311	eP	04	27.65	1.4
ADE	71.63	145	iPc	03	20.00	-0.1		1.4s	150.30nm			5.9mb		SLR	83.64	238	iPc	04	26.70	-0.2
BBS	71.66	314	P	03	20.20	-0.1	SVW	76.07	29	eP										



LBTB	85.35	240	ePd	04	36.09	0.6
	1.4s	642.21nm				6.6mb
SEK	85.50	236	ipPc	04	39.40	10kmX
	1.0s	580.00nm				6.7mb
SIT	86.91	26	P	04	50.00	7.5X
Z	19s	6.75um				6.1Msz
SIT	86.91	26	eP	04	43.71	1.3
Z	1.2s	95.03nm				5.9mb
BLF	86.98	236	eP	04	42.20	-1.3
	1.1s	420.00nm				6.6mb
BOSA	87.31	237	ePd	04	45.59	0.8
GRM	88.86	232	ePpC	04	49.23	11kmX
	1.0s	108.00nm				0.7
YKA	88.96	14	P	04	53.10	0.8
WIN	1.0s	72.00nm				5.9mb
	91.02	246	eP	05	06.00	3.3X
HON	1.0s	210.00nm				6.4mb
	93.58	65	P	05	20.00	5.7X
Z	19s	1.70um				5.5Msz
CER	94.20	235	iPd	05	07.50	-9.4X
TBT	1.5s	140.00nm				6.1mb
	97.78	307	eP	05	32.97	-0.5
FFC	98.68	11	eP	05	36.35	-0.7
RMW	1.3s	64.29nm				6.1mb
	99.57	26	eP	05	42.53	1.2
LON	100.14	26	Pdiff	05	46.33	2.5
DPW			PP	09	59.34	
	100.58	23	ePdiff05	46.83	1.1	
YBH	103.82	30	ePdiff06	08.52	8.2X	
Z	19s	1.60um			5.6Msz	
			ePP	10	24.52	
			eSKS	16	43.52	
			eS	18	02.52	
			eSS	25	28.52	
			eLQ	35	38.52	
			eLR	44	13.52	
LRM	104.32	21	ePdiff06	03.60	0.9	
WDC	104.82	30	ePdiff06	12.21	7.6X	
	Z 20s	2.70um			5.8Msz	
			ePP	10	29.21	
			eSKS	16	57.21	
			eS	18	04.21	
			eSS	25	50.21	
			eLQ	36	07.21	
			eLR	44	16.21	
MCMT	105.07	22	ePdiff06	07.10	1.1	
ORV	106.11	30	ePdiff06	19.39	8.9X	
	Z 20s	1.60um			5.6Msz	
			ePP	10	38.39	
			eLQ	36	23.39	
			eLR	45	16.39	
			ePdiff06	20.30	2.0	
CMB	107.86	30	ePdiff06	20.30	2.0	
Z	19s	1.70um			5.6Msz	
			ePP	10	48.30	
			eSS	25	57.30	
			eLQ	40	34.30	
			eLR	46	12.30	
SAO	108.38	32	PKP	10	40.00	13.1X
Z	19s	2.05um			5.7Msz	
MSU	110.87	24	ePKP	10	32.81	0.9
GSC			ePP	11	14.59	
	111.73	30	(PKP)	10	33.61	0.2
GLD	112.05	18	PKP	10	40.00	6.0X
NVL	Z 18s	3.19um			5.9Msz	
	112.07	201	ePKP	10	34.00	1.2
Z	18s	1.00um			5.4Msz	
N	18s	0.50um				
E	18s	1.00um				
			e	11	20.00	
			e	18	10.00	
			e	20	50.00	
			e	21	31.00	
			Pdiff06	39.69	2.2	
PV10	112.11	22	(Pdiff06	39.69	2.2	
PEC	112.74	31	ePKP	10	35.18	-0.1
			ePP	11	24.74	
SLM	116.09	6	PKP	10	50.00	8.5X
Z	18s	2.42um			5.9Msz	
ACO	116.50	15	iPKPc	10	42.50	0.1
FVM	116.71	7	PKP	10	50.00	7.3X
TUC	Z 18s	5.93um			6.2Msz	
	116.86	26	ePKP	10	44.01	0.7
Z	20s	3.23um			5.9Msz	
TUL	117.96	12	iPKPc	10	45.50	0.3
UYO	119.90	11	iPKPc	10	48.60	-0.3

JSC	120.80	359	ePKP	10	50.59	0.0
PRM	121.01	360	ePKP	10	51.16	0.1
SJG	133.97	338	ePKP	11	15.42	-0.9
CAR	141.26	335	iPKP	11	24.00	-6.0X
TOV	142.96	338	ePKP	11	30.20	-2.7
SDV	144.08	339	iPKPc	11	32.10	-2.9
CDCE	144.61	270	iPKPd	11	34.50	-1.1
			i	11	38.80	
BAO	146.10	280	ePKP	11	38.50	0.2
			e	11	43.80	
BDFB	146.12	280	ePKP	11	38.26	-0.1
PARB	146.13	265	ePKPd	11	40.30	2.2
			e	11	44.60	
RSTA	149.42	264	ePKP	11	45.10	1.9
PPD	151.01	270	ePKP	11	46.60	0.9
			e	11	50.80	
PSO	153.20	348	ePKP	11	51.50	1.9
LPA	156.47	240	ePKP-	11	56.00	3.1X
	Z	22s	2.96um			6.1MsZ
SIV	157.71	290	PKP	11	54.90	-0.1
LPZA	163.66	300	PKP	12	02.20	0.3
LPB	163.78	299	PKP	12	03.90	2.1
	1.9s	473.68nm				
	Z	24s	3.88um			
			LR	08	48.00	
NNA	165.67	336	ePKP	12	04.00	1.0
	1.1s	25.32nm				
ARE	166.30	307	ePKP	12	05.00	1.2
	S.D. = 1.1 on 365 of 393 obs.					
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* JAN 11, 1994 01h 41m 55.36± 1.60s						
39.021 N ± 8.6km 30.430 E ±13.1km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
ML 3.5 (ISK).						
-----						
ALT	0.25	278	ePg	42	00.50	-0.2
KHL	0.99	226	iPg	42	14.30	0.0
			eSg	42	28.30	
GPA	1.27	356	iPn	42	19.50	0.6
IZI	1.51	331	ePn	42	22.30	-0.2
DST	1.51	293	ePn	42	23.20	0.6
EYL	1.56	352	ePn	42	22.30	-0.9
HRT	1.89	342	iPn	42	28.30	0.3
GBZT	1.92	337	ePn	42	29.00	0.6
ISK	2.30	333	ePn	42	33.80	0.0
CIN	2.33	233	ePn	42	38.00	3.7X
ITU	2.35	333	ePn	42	40.00	5.4X
			iSg	43	13.00	
EDC	2.38	305	iPn	42	35.00	-0.1
CTT	2.62	325	ePn	42	37.80	-0.6
	S.D. = 0.6 on 11 of 13 obs.					
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JAN 11, 1994 01h 59m 32.64± 0.40s						
41.682 N ± 5.0km 24.242 E ± 3.3km						
DEPTH = 10.0km (geophysicist)						
GREECE-BULGARIA BORDER REGION (363)						
ML 3.7 (THE).						
-----						
SRS	0.75	221	iPg	59	46.74	-0.5
			eSg	59	56.96	
RDO	1.11	118	iPg	59	53.70	0.2
KNT	1.14	243	iPg	59	52.89	-1.0
			eSg	00	08.00	
VAY	1.31	255	iPn	59	56.30	-0.5
	0.4s	990.00nm				
			iSn	00	15.30	
			Lg	00	17.50	
OUR	1.36	188	iPb	59	57.58	0.0
			eSb	00	14.44	
THE	1.42	223	ePb	59	58.66	0.1
			eSb	00	17.84	
GRG	1.56	243	iPb	00	00.70	0.2
			eSb	00	21.84	
ALN	1.57	119	iPb	00	01.24	0.7
			eSb	00	23.52	
PAIG	1.80	194	ePb	00	03.84	-0.1
			eSb	00	27.16	
LIT	2.06	221	iPn	00	07.93	0.1
			eSn	00	34.08	
SKO	2.11	279	iPn	00	08.00	-0.5
			i	00	13.30	
KZN	2.32	235	ePn	00	11.70	0.1
FNA	2.34	248	ePn	00	12.96	1.1
			eSn	00	41.96	
DMK	2.63	86	ePn	00	20.80	4.9X
OHR	2.65	259	iPn	00	16.50	0.2

	1.4s	200.00nm			
		i	00	20.20	
		i	00	46.20	
		i	00	54.20	
		Lg	01	08.00	
KBN	2.81 249	ePn	00	17.00	-1.6
PRK	2.88 147	ePb	59	55.00	-24.4X
AGG	3.03 209	iPn	00	21.44	-0.1
		eSn	00	57.52	
EDC	3.05 115	ePn	00	24.00	2.2
LSK	3.16 242	ePn	00	27.40	4.0X
CTT	3.19 98	ePn	00	22.80	-1.1
TRR	3.30 266	ePn	00	30.00	4.6X
LACI	3.40 271	iPnc	00	29.00	2.3
CMP	3.63 9	ePc	00	41.00	10.9X
DST	3.93 120	ePn	00	35.00	0.7
MLR	4.00 17	ePc	00	35.50	0.1
IZM	4.02 144	ePn	00	35.60	0.0
HRT	4.18 100	ePn	00	35.80	-2.1
CFR	4.51 38	ePd	00	42.00	-0.5
VR1	4.56 22	ePd	00	43.50	0.3
ALT	5.19 118	eP	00	52.00	-0.3
S.D. = 1.0 on 26 of 31 obs.					
-----					
JAN 11, 1994 02h 18m 05.76± 0.40s					
25.223 N ± 6.7km 97.128 E ± 4.8km					
DEPTH = 31.5km ( 2 depth phases)					
4.6mb ( 20 obs.)					
MYANMAR-CHINA BORDER REGION (297)					
ML 4.6 (BJI).					
-----					
SHL	4.76 275	eP	19	18.50	1.2
		eS	20	07.50	
KMI	5.09 90	ePn	19	23.60	1.5
		Pg	19	38.00	
		Sg	20	40.00	
CHTO	6.60 165	ePn	19	44.90	1.8
		iPg	20	47.90	
		iSg	21	33.80	
LSA	6.93 311	Pn	19	50.40	2.1
BDT	8.13 167	eP	20	02.00	-2.5
		e	22	24.50	
CD2	8.15 44	P	20	05.70	0.9
GYA	8.68 80	P	20	15.00	2.7
		S	21	46.00	
NST	9.91 163	ePn	21	08.00	38.9X
		ePg	21	37.00	
		eSg	23	19.00	
GUN	10.42 287	P	20	36.40	-0.1
PKI	10.76 285	P	20	39.80	-1.4
	0.5s	14.00nm			5.4mb
KKN	10.92 286	P	20	42.60	-0.5
	0.6s	33.00nm			5.7mb X
DMN	11.03 285	P	20	43.70	-1.1
	0.5s	18.00nm			5.5mb
GKN	11.51 287	P	20	50.10	-1.1
LZH	12.27 26	eP	20	59.00	-2.3
	2.0s	50.00nm			5.3mb
Z	12s	0.79um			4.5Msz
		sP	21	08.50	
		PP	21	10.50	
XAN	13.50 47	P	21	14.00	-3.5X
	1.0s	8.90nm			4.6mb
		pP	21	20.00	
WHN	16.12 67	eP	21	51.30	-0.3
TIY	18.01 43	Pc	22	15.00	-0.4
		S	25	38.00	
BTO	18.73 32	eP	22	22.50	-1.8
	N 12s	1.17um			
	E 12s	1.22um			
		eS	25	47.00	
HYB	18.95 249	eP	22	28.50	1.5
HHC	19.69 34	Pc	22	37.00	1.6
	1.2s	36.00nm			4.5mb
WMQ	20.09 340	P	22	40.60	1.0
	1.0s	21.00nm			4.4mb
		pP	22	47.80	27km
NJ2	20.23 65	Pc	22	39.60	-1.4



SKO	3.67	350	ePn	30	51.80	1.0
ALN	3.88	48	ePn	30	53.42	-0.3
S.D. = 1.0 on 19 of 19 obs.						
-----						
%	JAN	11, 1994	03h	52m	45.33± 1.34s	
					40.736 N ± 10.8km	29.956 E ± 9.3km
				DEPTH = 10.0km (geophysicist)		
TURKEY				(366)		
ML 2.8 (ISK).						
EYL	0.23	138	iPg	52	50.20	-0.1
HRT	0.23	291	iPg	52	49.80	-0.6
IZI	0.54	223	iPg	52	55.80	-0.5
					iSg	53 02.30
CTT	1.23	290	iPn	53	08.30	0.1
DST	1.52	222	ePn	53	13.00	0.4
EDC	1.64	257	ePn	53	15.00	0.7
S.D. = 0.6 on 6 of 6 obs.						
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*	JAN	11, 1994	04h	07m	32.94± 3.47s	
					33.475 S ± 9.0km	71.981 W ± 25.9km
				DEPTH = 10.0km (geophysicist)		
NEAR COAST OF CENTRAL CHILE				(135)		
MD 4.0 (SAN).						
LCCH	0.34	90	iP+	07	40.92	0.9
					iS	07 50.09
IHA	0.53	33	iPc	07	42.80	-0.9
					iS	07 52.50
LNV	0.67	135	iP+	07	46.20	-0.1
					iS	07 58.17
TACH	0.89	102	iP+	07	49.71	-0.3
					iS	08 05.48
ROCH	0.96	59	iPd	07	50.46	-0.8
					iS	08 05.63
SAN	1.10	89	iP+	07	53.60	-0.1
					iS	08 11.19
PEL	1.13	73	iP	07	54.03	-0.2
					iS	08 11.65
PCH	1.23	97	iP+	07	55.51	-0.4
					iS	08 14.37
CACH	1.32	120	iPd	07	57.11	-0.2
					iS	08 19.00
JACH	1.41	56	iPd	07	56.78	-1.9
					iS	08 18.69
FCH	1.42	85	iPd	07	58.70	-0.4
					iS	08 21.08
RTCB	3.34	54	e(P)	08	27.70	1.3
RTLL	3.66	55	e(P)	08	31.00	0.1
CFA	3.67	60	e(P)	08	34.00	3.0
S.D. = 1.3 on 14 of 14 obs.						
-----						
				JAN	11, 1994	04h
					38.912 N ± 4.8km	38m 36.08± 0.58s
					23.290 E ± 5.7km	
				DEPTH = 10.0km (geophysicist)		
GREECE				(364)		
MD 3.4 (ATH). ML 3.2 (THE).						
AGG	0.76	279	iPg	38	47.90	-3.0
					eSg	38 58.62
ATH	1.00	160	ePg	38	55.50	0.6
PAIG	1.06	16	iPg	38	56.53	0.5
					eSg	39 12.34
LIT	1.34	333	iPb	38	59.90	-0.9
					eSb	39 18.40
OUR	1.52	20	iPb	39	03.46	0.2
					iSb	39 25.01
THE	1.74	352	ePb	39	06.86	0.4
					eSb	39 29.80
KZN	1.82	320	ePb	39	07.70	-0.1
GRG	2.15	342	ePn	39	12.42	-0.1
					eSn	39 40.40
VLI	2.21	187	ePn	39	12.10	-1.2
SRS	2.22	6	iPn	39	13.14	-0.3
					iSn	39 42.66
VLS	2.24	252	ePn	39	15.00	1.2
KNT	2.27	353	iPn	39	14.14	0.0
					eSn	39 43.76
IGT	2.38	286	iPn	39	17.34	1.6
FNA	2.38	322	ePn	39	15.82	0.0
LSK	2.42	302	ePn	39	20.10	3.7X
					iSn	39 56.30
VAY	2.47	347	iPn	39	17.30	0.3
KBN	2.58	312	ePn	39	18.30	-0.3
RDO	2.82	37	ePn	39	21.20	-0.8
KEK	2.82	288	ePn	39	23.50	1.4
ALN	2.90	46	ePn	39	23.22	0.1

OHR	2.91	320	iPn	39	59.90	
	1.1s	140.00nm		39	24.30	0.9
			i	39	32.30	
			i	39	57.00	
			i	40	09.70	
			Lg	40	26.00	
VLO	3.31	299	ePn	39	35.50	6.5X
SKO	3.37	336	ePn	39	29.00	-0.8
			i	39	40.60	
TIR	3.58	314	ePn	39	44.00	11.2X
	S.D. = 1.1	on		21 of	24 obs.	
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JAN 11, 1994 06h 08m 03.03± 0.75s						
40.901 N ± 5.5km 20.908 E ± 6.7km						
DEPTH = 5.0km (geophysicist)						
GREECE-ALBANIA BORDER REGION (392)						
ML 2.5 (THE).						
OHR	0.23	339	iPg	08	06.90	-0.7
	1.4s	1450.00nm				
			i	08	11.60	
			iSg	08	16.00	
FNA	0.37	108	iPg	08	10.38	-0.2
			eSg	08	16.26	
GRG	1.13	87	ePg	08	24.30	-0.4
			eSg	08	41.58	
SKO	1.14	20	ePg	08	25.50	0.6
VAY	1.32	71	ePn	08	28.40	0.4
IGT	1.44	198	ePb	08	30.62	0.8
LIT	1.45	123	ePb	08	30.06	0.1
			eSb	08	50.70	
KNT	1.53	80	iPb	08	31.33	0.3
			iSb	08	52.78	
AGG	2.17	149	ePn	08	39.42	-1.0
			iSn	09	07.66	
	S.D. = 0.7	on		9 of	9 obs.	
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%	JAN 11, 1994	06h 15m	50.65±	0.86s		
18.248 N ± 16.7km 66.049 W ± 7.8km						
DEPTH = 33.0km (normal)						
PUERTO RICO REGION ( 90)						
LPR	0.18	71	iP	15	56.90	-0.2
			S	15	59.90	
CPD	0.24	149	iP	15	58.00	0.3
CLLP	0.53	252	iP	16	01.30	-0.4
APR	0.68	288	iP	16	04.00	0.3
LRS	0.76	274	iP	16	05.00	0.1
	S.D. = 0.4	on		5 of	5 obs.	
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%	JAN 11, 1994	06h 28m	58.70±	2.92s		
33.433 S ± 7.5km 72.219 W ± 21.3km						
DEPTH = 10.0km (geophysicist)						
OFF COAST OF CENTRAL CHILE (134)						
MD 3.9 (SAN).						
LCCH	0.54	95	iP+	29	10.05	0.3
IHA	0.63	50	eP	29	12.10	0.7
			eS	29	21.60	
LNv	0.85	128	iP+	29	15.20	0.1
			iS	29	28.33	
TACH	1.09	102	eP	29	18.87	-0.4
			iS	29	34.71	
ROCH	1.11	66	iPd	29	19.59	-0.1
			iS	29	36.93	
SAN	1.30	91	iP+	29	22.60	-0.2
PEL	1.32	78	iP	29	23.15	0.1
			iS	29	41.39	
PCH	1.44	98	iPd	29	24.72	-0.2
			iS	29	45.56	
CACH	1.51	117	eP	29	26.28	0.3
			iS	29	48.05	
JACH	1.56	62	eP	29	25.85	-0.7
			iS	29	49.06	
FCH	1.62	87	iPd	29	27.76	0.1
			iS	29	51.03	
	S.D. = 0.4	on		11 of	11 obs.	
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JAN 11, 1994 07h 22m 51.52± 0.17s						
35.959 N ± 2.5km 21.945 E ± 2.1km						
DEPTH = 32.5km ( 15 depth phases)						
5.4mb (103 obs.). 5.4MsZ ( 29 obs.).						
CENTRAL MEDITERRANEAN SEA (400)						
Mw 5.5 (HRV). Ms 5.5 (BRK). MD						
5.3 (ATH), 5.3 (VIE). ML 5.0						
(THE).						



11d 07h

CENTROID, MOMENT TENSOR (HRV)					IVA	7.08	348	iPnd	24	35.21	-0.4	IMI	13.38	311	P	26	00.89	-0.7		
Data Used: GDSN							iSn	25	49.52		KMR	13.40	337	iP+	25	58.80	-3.0X			
L.P.B.: 23S, 39C					ALT	7.19	62	eP	24	38.20	1.1	BHG	13.54	333	eP	26	02.40	-1.3		
Centroid Location:					NKY	7.21	342	iPnd	24	35.36	-2.1		1.3s	210.00nm			5.9mb			
Origin Time 07:22:52.9 0.4							iSn	25	49.96		ROB	13.60	312	P	26	04.78	0.3			
Lat 35.70N 0.03 Lon 21.58E 0.06					IZI	7.37	51	iP	24	40.60	1.0	OGA	13.62	326	iPc	26	04.40	-0.5		
Dep 33.0 FIX Half-duration 1.2					IZI	7.37	51	iP	24	31.10	-8.5X	SBF	13.64	310	eP	26	01.50	-3.5X		
Moment Tensor; Scale 10**17 Nm					DMK	7.40	36	iP	24	39.40	-0.6		0.9s	163.15nm			5.9mb			
Mrr= 0.96 0.06 Mtt=-1.54 0.07					BRY	7.41	340	iPnd	24	37.81	-2.5	WTTA	13.66	329	iPc	26	04.50	-0.9		
Mff= 0.58 0.09 Mrt= 0.18 0.15							iSn	25	53.81				i		26	05.70				
Mrf= 0.65 0.15 Mtf= 1.26 0.07					ISK	7.55	45	iP	24	42.60	0.5			i		26	24.50			
Principal Axes:					ITU	7.56	45	iPc	24	44.00	1.9			iS		28	33.60			
T Val= 1.74 Plg=41 Azm=293					PLE	7.62	346	iPnd	24	41.87	-1.3	WATA	13.74	329	iPd	26	05.70	-0.7		
N 0.39 49 118							iSn	26	01.55				i		26	06.80				
P -2.13 2 25					HRT	7.77	49	iP	24	45.60	0.4			iS		28	34.30			
Best Double Couple: Mo=1.9*10**17					GPA	7.88	54	iP	24	49.00	2.2	AYN	13.81	117	eP	26	02.10	-5.1X		
NP1:Strike= 77 Dip=61 Slip= 30					EYL	7.93	52	iP	24	47.60	0.1			eS		28	20.50			
NP2: 332 64 147					HVAR	8.36	331	iPn	25	27.80	34.4X	SQTA	13.81	328	iPc	26	07.90	0.6		
VLI	1.10	46	ePb	23	13.00	2.3	PPCY	8.56	94	eP	24	56.00	-0.1		i	28	30.90			
VAM	1.92	106	ePb	23	23.00	0.5	BUCL	8.94	19	eP	24	54.00	-7.3X		i	28	33.80			
ATH	2.46	35	ePn	23	33.50	3.3X	BUC	9.02	19	iPd	24	59.00	-3.4X	ENR	13.84	311	P	26	08.08	0.5
VLS	2.47	334	ePn	23	32.50	2.2	CSS	9.34	93	eP	25	03.00	-4.0X	STV	13.90	311	P	26	09.36	0.9
AGG	3.07	6	iPn	23	40.58	1.6			eS	26	41.00		MOTA	13.95	328	iPc	26	09.10	0.0	
			iSn	24	18.54		CMP	9.59	13	iPc	25	10.00	-0.4		iS		28	39.00		
IGT	3.79	341	iPn	23	50.01	1.0	ISR	9.81	19	ePc	25	14.00	0.6	LMR	13.98	306	eP	26	06.80	-2.6
			iSn	24	35.74		FAM	9.88	92	eP	25	06.00	-8.3X		1.2s	61.90nm		5.2mb		
KEK	4.11	336	eP	23	54.20	0.5	DEV	9.94	4	ePd	25	16.00	0.9	FRF	13.99	308	eP	26	06.70	-2.9X
LIT	4.16	6	iPn	23	56.14	1.8	HLW	9.97	125	ePn	25	11.50	-4.0X		1.0s	38.20nm		5.1mb		
			eSn	24	46.34				iPg	25	37.00		LRG	14.13	307	eP	26	07.10	-4.2X	
PAIG	4.19	19	ePn	23	56.26	1.5			eSn	26	13.50			1.3s	215.90nm		5.7mb			
			eSn	24	44.90				eSb	26	28.00		Z	19s	3.20um		5.8MsZ			
SRN	4.21	339	iPnc	23	57.10	2.2	MLR	9.99	16	ePc	25	16.00	0.0	OKC	14.14	350	P	26	10.00	-1.5
LSK	4.32	346	iPn	23	58.20	1.6	CFR	10.35	25	eP	25	20.00	-0.7		e	26	20.60			
KZN	4.34	358	eP	23	59.50	2.5	VRI	10.54	19	ePc	25	23.50	0.2		eS	29	04.00			
OUR	4.65	20	iPn	24	02.53	1.2	KAS	10.70	56	iPc	25	26.50	0.8		e	30	28.00			
			eSn	24	58.14		VBY	10.80	334	iPnc	25	44.30	17.5X	PZZ	14.18	312	P	26	12.47	0.3
THE	4.73	9	iPn	24	03.17	0.8	ZAG	10.83	337	iPnc	25	24.00	-3.2X	GEC2	14.23	337	Pn	26	10.40	-2.4
			eSn	24	59.30		PTJ	10.91	337	iPnc	25	25.10	-3.4X		1.0s	69.51nm		5.3mb		
KBN	4.75	349	iPnd	24	03.50	0.8			iSn	26	41.00				e	26	14.20			
FNA	4.84	355	iPn	24	05.30	1.3	UZD	10.92	348	iP	25	25.00	-3.5X			e	26	22.60		
			eSn	25	00.98		BHL	11.44	96	P	25	30.00	-5.7X			e	26	29.40		
IZM	4.89	59	eP	24	05.60	0.8			S	30	16.00		GEC2	14.23	337	e(Pn)	26	23.50	10.7X	
VLO	4.90	338	iPn	24	05.00	0.3	BNN	11.44	71	iP	25	45.00	9.2X		0.9s	37.10nm				
			iSn	24	41.30		LJU	11.52	333	eP	25	34.60	-2.1	GEC2	14.23	337	e(Pn)	26	22.70	9.9X
SOH	4.98	12	iPn	24	07.46	1.4			i	25	35.50			0.9s	49.90nm		5.1mb			
GRG	5.00	4	ePn	24	07.46	1.1			i	25	44.40		GEC2	14.23	337	e(Pn)	26	18.40	5.6X	
			eSn	25	06.02				iS	27	37.00			0.5s	13.00nm		4.8mb			
CIN	5.19	70	iPd	24	10.00	1.0	TRI	11.54	330	i(Pn)c25	35.50	-1.4	BHB	14.26	313	P	26	11.60	-1.5	
OHR	5.22	350	iPnd	24	10.50	1.1			i(Sn)	27	33.00		ORX	14.31	317	P	26	10.73	-3.1X	
	1.5s	3980.00nm			6.7mb X		BUD	11.72	350	ePn	25	36.90	-2.4	RSP	14.44	314	P	26	14.44	-1.1
			i	24	33.10		CEI	11.72	2	eP	26	00.00	20.6X	KHC	14.52	338	Pc	26	14.40	-2.1
			i	25	07.00		VOY	11.75	331	eP	25	37.30	-2.6		1.0s	89.00nm		5.2mb		
			i	25	10.00				e	25	38.90		Z	16s	28.00um		5.8MsZ			
			Lg	25	56.00				eS	27	43.00		N	18s	20.10um					
KNT	5.25	8	iPn	24	11.09	1.3	PGF	11.99	307	eP	25	39.00	-4.2X	E	14s	13.50um				
			eSn	25	13.06				eS	27	43.00				e	26	17.40			
SRS	5.31	14	iPn	24	11.33	0.7	PSZ	12.05	353	iP	25	42.20	-1.7			e	26	25.00		
			eSn	25	14.78		SALJ	12.06	105	Pd	25	38.30	-5.8X			e	26	46.00		
VAY	5.38	5	iPn	24	12.50	1.0	KFNJ	12.12	106	Pd	25	39.01	-5.7X			e	27	02.50		
	1.2s	4620.00nm			6.9mb X		KVT	12.17	61	eP	25	42.00	-3.5X			e	27	36.50		
			iSn	25	13.60		MASJ	12.20	106	Pd	25	39.04	-7.0X			e	28	08.00		
			Lg	25	20.50		MKRJ	12.21	107	Pc	25	39.99	-6.2X			e	29	08.90		
TIR	5.62	344	iPnc	24	16.50	1.5	GAZ	12.34	80	eP	25	43.80	-3.9X			e	31	00.00		
			iSn	25	22.00		AQBJ	12.64	116	Pc	25	48.38	-3.4X	FUR	14.53	330	eP	26	16.10	-0.4
ALN	5.89	32	iPn	24	20.74	2.0	ZST	12.74	345	eP	25	49.50	-3.5X		Z	11s	13.00um			
RDO	5.89	27	eP	24	18.50	-0.3			eS	28	22.30				i	26	24.40			
LACI	5.93	344	iPnd	24	19.00	-0.4	KBA	12.83	333	iPc	25	52.30	-2.1	RRL	14.59	312	P	26	17.18	-0.4
			iSn	25	26.00				i	25	53.70		LSD	14.67	315	P	26	15.49	-3.2X	
SKO	6.02	356	iPnd	24	20.50	-0.1			i	26	07.90		WET	14.76	336	eP	26	17.40	-2.2	
			i	24	21.50				iS	28	09.20			1.3s	140.80nm		5.1mb			
			i	24	32.80		HQL	12.90	117	eP	25	50.40	-4.8X	LPL	14.95	314	eP	26	20.80	-1.5
ULC	6.35	342	iPnd	24	23.55	-1.8			eS	28	00.80			1.1s	77.15nm		4.9mb			
			iSn	25	28.92		VKA	12.98	343	eP	25	54.00	-2.2	PRU	15.02	341	Pc	26	21.20	-1.7
SDA	6.38	343	iPnc	24	25.30	-0.3			i	25	55.80			1.4s	98.30nm		4.9mb			
EDC	6.40	45	iP	24	26.00	0.1		Z	10s	17.20um			Z	13s	13.20um		5.4MsZ			
DST	6.42	53	iP	24	26.50	0.1			i	25	55.80			E	10s	11.30um				
ELL	6.47	81	iP	24	34.50	7.3X			LR	31	55.00									



			i	26	48.40		BSD	19.76	348	iPd	27	20.00	-1.4	KAF	26.32	5	iP	28	25.00	-0.8
LOMF	16.01	320	P	26	34.93	-0.9		0.6s	140.00nm				5.4mb		0.8s	84.20nm			5.4mb	
HOF	16.10	336	iPd	26	36.90	0.0			i	27	26.50	25km		DLF	26.41	320	iPd	28	27.40	0.7
SSB	16.14	311	P	26	37.63	0.2	WIT	20.01	332	ePc	27	26.00	2.0		1.0s	551.00nm			6.1mb	
LIBD	16.15	323	P	26	37.90	0.4			e	27	40.00	67kmX		DCN	26.82	320	iPd	28	31.40	0.9
MOF	16.18	322	P	26	37.79	-0.2	ECRI	20.02	297	P	27	23.79	-0.6		1.0s	534.00nm			6.1mb	
BSF	16.34	321	eP	26	39.20	-0.8	UQSK	20.21	114	eP	27	23.00	-3.5X	VAL	27.85	315	eP	28	40.50	0.7
	1.2s	207.10nm				5.1mb	ECOG	20.51	281	P	27	29.85	0.3	MAIO	30.21	78	eP	29	00.00	-1.3
ECH	16.41	323	P	26	40.31	-0.5	EGUA	20.54	280	P	27	29.79	0.0	AAE	30.88	146	P	29	09.30	1.7
WLS	16.45	324	P	26	41.30	-0.1	LDF	20.55	315	eP	27	29.80	0.0	BCAO	31.53	187	iPc	29	11.80	-1.2
MOX	16.47	336	eP	26	41.20	-0.3		0.9s	238.50nm				5.6mb		1.0s	85.00nm			5.6mb	
	2.0s	233.00nm				5.0mb	COP	20.77	345	iPc	27	32.00	0.0			i	30	15.90	334kmX	
Z	19s	23.00um				6.1MsZ		1.0s	440.00nm				5.8mb			i	34	17.40		
		eS		30	00.00		Z	18s	5.50um				5.0MsZ	LKO	36.30	230	P	29	52.77	-1.4
CDF	16.49	324	eP	26	42.00	0.1			i	27	42.30	41km			0.8s	185.00nm			6.0mb	
	0.9s	82.25nm				4.9mb			iS	31	16.00			AKU	37.88	334	iP	30	09.20	2.4
CLL	16.63	340	iPc	26	44.20	0.6			i	31	24.00				1.0s	96.00nm			5.6mb	
		eS		29	56.00		LPF	20.82	312	eP	27	31.70	-0.9	QUE	37.89	86	eP	30	07.00	-0.6
LANF	16.64	326	P	26	44.91	1.2		0.9s	247.00nm				5.6mb	TIC	38.23	227	P	30	08.98	-1.3
HAU	16.68	321	eP	26	43.30	-0.9	FLN	20.84	315	eP	27	32.70	-0.1		0.8s	100.50nm			5.7mb	
	1.0s	142.80nm				5.1mb		0.9s	380.00nm				5.8mb	KIC	38.30	226	P	30	09.64	-1.2
Z	20s	6.20um				5.5MsZ	Z	21s	4.45um				4.8MsZ		0.9s	150.50nm			5.8mb	
COLF	16.77	310	P	26	45.28	-0.2	GRR	20.88	314	eP	27	32.80	-0.4	LIC	38.57	226	P	30	11.98	-1.2
VITF	17.00	321	P	26	48.42	0.2		0.9s	269.95nm				5.6mb		0.8s	147.00nm			5.8mb	
SMF	17.25	314	eP	26	49.60	-1.8	QASM	20.91	112	eP	27	32.50	-1.2	KSH	42.36	68	eP	30	44.50	0.1
	0.8s	46.35nm				4.7mb	GUD	20.98	291	P	27	33.72	-0.7		0.6s	40.00nm			5.3mb	
TNS	17.29	330	ePnc	26	52.80	0.9	PAB	21.07	288	iPc	27	35.10	-0.2	Z	24s	2.70um			5.1MsZ	
TNS	17.29	330	ePd	26	53.80	1.9			iS	31	38.00			N	14s	3.20um				
		eS		29	52.40		TZK	21.46	273	iP	27	40.00	0.8	E	14s	3.00um				
LBF	17.35	315	eP	26	50.70	-2.0	OBN	21.64	23	iPc	27	39.00	-1.7			pP	30	53.00	29km	
	1.1s	93.55nm				4.8mb		1.0s	350.00nm				5.7mb			sP	30	56.00		
CAF	17.55	307	eP	26	52.90	-2.3		Z	17s	12.00um			5.4MsZ			iS	37	04.00		
	1.1s	86.70nm				4.8mb	N	17s	11.50um							sS	37	14.00		
LOR	17.58	316	eP	26	53.50	-2.0	E	16s	3.20um					DAG	44.72	348	iPd	31	03.20	0.3
	1.3s	123.45nm				4.9mb			e	27	53.00	60kmX			0.6s	30.67nm			5.4mb	
Z	23s	2.40um				5.0MsZ			ePP	28	05.00					iPP	31	18.50	59kmX	
AVF	17.61	314	eP	26	54.10	-1.8			ePPP	28	13.00			NDI	46.74	83	iPc	31	19.00	-0.5
	1.0s	45.00nm				4.6mb			e	28	31.00				0.5s	91.55nm			6.0mb	
SSF	17.67	315	eP	26	54.60	-2.0			eS	31	32.00			POO	48.73	97	eP	31	36.00	0.8
	1.4s	172.95nm				5.0mb			eSS	32	23.00			WMQ	49.87	60	iP	31	43.50	-0.2
BGF	17.80	312	eP	26	55.50	-2.7			eSSS	32	36.00				0.8s	77.00nm			5.8mb	
	1.3s	171.85nm				5.0mb	TAIF	21.73	127	iPc	27	42.90	0.7	Z	22s	4.40um			5.4MsZ	
MAF	17.80	311	eP	26	55.60	-2.7	AFIF	21.80	117	eP	27	41.20	-1.6	E	11s	1.29um				
	1.3s	235.40nm				5.2mb	EHOR	21.80	283	iPd	27	41.47	-1.1			pP	31	50.40	23km	
WLF	17.89	325	iPc	27	01.36	2.1	EPRU	21.86	281	P	27	43.11	-0.1			sP	31	52.40		
	1.4s	126.50nm				4.9mb	EJIF	22.10	279	P	27	46.13	0.5			PcP	33	05.20		
		i		30	38.00		ALJ	22.19	280	iP	27	47.00	0.5			PP	33	36.60		
LPO	18.03	305	eP	26	58.60	-2.5	MUD	22.26	341	iPd	27	46.60	-0.3			S	38	49.60		
	0.8s	68.25nm				4.8mb		1.0s	382.00nm				5.8mb			sS	38	59.60		
TCF	18.05	311	eP	26	59.20	-2.2			i	27	50.00	12kmX				ScS	41	29.00		
	1.4s	218.70nm				5.1mb			i	27	55.00					SS	42	15.00		
RJF	18.06	307	eP	26	59.80	-1.7			i	28	03.00			GDH	51.78	334	iPc	31	56.00	-1.7
	0.9s	61.75nm				4.7mb	MOMI	22.32	279	iP	27	48.00	0.2		1.0s	320.00nm			6.2mb	
Z	17s	3.40um				5.6MsZ	MJMA	22.37	110	ePc	27	47.00	-1.3			i	32	10.00	52kmX	
EGRA	18.35	297	P	26	59.50	-5.5X	PLAT	22.38	279	iP	27	49.00	0.7			e	50	25.00		
BNS	18.38	329	iPd	27	08.30	3.0X	CZD	22.41	270	iP	27	50.50	1.9	GKN	52.97	80	P	32	05.10	-2.4
	0.9s	250.00nm				5.4mb	EPLA	22.42	289	P	27	48.68	0.0	HYB	53.11	95	ePd	32	06.30	-2.1
Z	17s	20.00um				6.0MsZ	BIT	22.42	277	iP	27	49.50	0.8		1.2s	71.40nm			5.5mb	
LSF	18.45	310	eP	27	04.30	-2.0	GIBL	22.45	281	iP	27	49.00	0.0			eS	39	28.00		
	1.2s	121.40nm				5.0mb	CNIL	22.58	279	iP	27	50.00	-0.3	DMN	53.52	80	P	32	09.60	-2.0
ECHE	18.46	288	P	27	09.73	3.2X	TSY	22.66	277	iP	27	53.50	2.4	KKN	53.58	80	P	32	09.80	-2.2
JAU	18.59	299	P	27	09.97	1.9	TZC	23.82	269	iP	28	05.00	2.6	PKI	53.78	80	P	32	11.40	-2.1
MEM	18.62	327	iPc	27	09.76	1.5	RYD	23.99	111	eP	28	01.80	-2.3	GUN	54.01	79	P	32	13.40	-1.8
	1.1s	66.00nm				4.7mb	UPP	24.08	355	iP	28	04.50	-0.1	GBA	54.30	99	Pc	32	15.80	-1.3
OGE	18.69	299	P	27	10.21	0.9			iS	32	21.20				0.9s	10.00nm			4.8mb	
ESCF	18.74	299	P	27	11.51	1.6	NUR	24.63	3	iP	28	09.20	-0.7	BUL	56.15	172	eP	32	28.90	-1.6
ENN	18.77	327	iPc	27	11.40	1.3		0.6s	66.50nm				5.4mb	LSA	57.40	75	P	32	39.00	-0.8
	0.9s	171.60nm				5.3mb	Z	16s	11.00um				5.4MsZ		0.8s	21.00nm			5.2mb	
		e		27	17.00				eS	32	29.00			Z	26s	3.19um			5.3MsZ	
		e		27	25.00				LR	38	50.00			N	19s	1.58um				
ATE	18.83	299	P	27	12.16	1.2	APO	25.13	351	eP	28	14.50	-0.3			S	40	32.00		
ISSF	18.89	299	P	27	13.05	1.3		0.7s	213.30nm				5.8mb			sS	40	44.00		
DOU	18.92	324	P	27	12.60	0.6	Z	17s	2.89um				4.9MsZ	IRK	58.17	46	ePc	32	42.00	-2.4
	0.7s	105.50nm				5.2mb			LR	37	25.00				2.1s	53.00nm			5.2mb	
		S		30	35.00		KMSA	25.14	122	eP	28	14.90	-0.3		Z	20s	2.36um			5.3MsZ
MADF	18.93	299	P	27	13.29	1.1	ABHA	25.48	128	eP	28	20.00	1.3		N	19s	0.31um			
BOH	19.06	299	P	27	15.26	1.5	KMTA	25.62	128	eP	28	21.10	1.1		E	18s	2.36um			
SNF	19.35	324	iPc	27	17.05	0.1	ECP	25.78	318	iPd	28	20.90	0.0			e	32	54.50	44kmX	
ETOR	19.41	292	P	27	17.97	0.1		0.8s	442.00nm				6.1mb			e	33	04.50		
ELIZ	19.44	299	P	27	18.52	0.4	ECP	25.78	318	eP	28	34.40	13.5X			e	33	21.00		
ENIJ	19.44	280	P	27	19.61	1.4	EKA	25.90	326	Pd	28	22.85	0.9			e	33	42.80		
UCC	19.51	325	P	27	21.00	2.3		0.9s	248.50nm				5.8mb	WIN	58.39	185	eP	32	46.00	-0.3
TAB	19.57	77	eP	27	16.00	-3.8X	EKA	25.90	326	P	28	40.00	18.0X			1.3s	50.00nm			5.4mb
EVIA	19.62	285	P	27	19.26	-1.0		0.8s												



11d 07h

Z 20s	2.59um	5.4Msz	Z 24s	0.93um	5.0MszX	TKSJ	85.89	51 P	35 29.40	-0.1
E 13s	0.52um			S	43 18.60	TKSJ	85.89	51 P	35 29.50	0.0
	pP	33 01.00		SS	47 58.00	TSRJ	86.06	48 P	35 30.80	0.6
	sP	33 05.00	TBR	71.50 308 eP	34 11.68 0.7	MTMJ	86.44	47 P	35 32.90	0.6
LBTB	60.74 176 eP	33 01.57 -0.8	NST	71.52 84 eP	34 10.00 -1.4	KDC	86.53 357 eP	35 33.40	1.3	
	0.9s	21.26nm	WLVO	72.61 312 P	34 18.32 0.8	NIIJ	86.69 45 P	35 33.70	0.4	
SLR	61.65 174 iPd	33 08.00 -0.6	BRW	73.03 360 eP	34 19.92 0.5	WKYJ	86.70 49 P	35 33.60	0.1	
	1.5s	30.00nm	TIA	73.46 57 Pd	34 21.80 -0.8	WKYJ	86.70 49 P	35 33.90	0.4	
Z 18s	11.50um	6.1Msz		1.0s	60.00nm	OFUJ	86.91 43 eP	35 27.60	-6.7X	
BFT	61.79 172 eP	33 12.50 2.9X	Z 22s	1.17um	5.1Msz	SDV	86.93 279 iPc	35 36.00	1.0	
	1.0s	34.00nm		eS	43 48.00	BAG	87.29 72 eP	35 36.00	-0.7	
SEK	64.16 174 eP	33 32.00 6.8X	STCO	73.47 312 P	34 23.49 1.0	CHJJ	87.51 46 P	35 37.60	0.3	
	1.0s	60.00nm	ACTO	73.79 312 P	34 25.20 0.8	TUL	88.00 314 iPd	35 40.40	0.7	
LZH	64.19 63 Pc	33 24.30 -1.2	TYNO	73.96 312 P	34 26.25 0.9	PCO	88.14 315 iPc	35 42.00	1.6	
	2.0s	170.00nm	WHN	74.56 63 eP	34 33.00 4.0X	SMY	88.41 17 P	35 50.00	8.7X	
Z 25s	2.78um	5.3MszX	Z 18s	1.21um	5.2Msz		Z 20s	3.13um	5.7Msz	
E 13s	0.71um			eS	44 00.00	UYO	88.42 312 iPd	35 44.00	2.3	
	pP	33 36.50	SNY	74.57 49 Pc	34 27.70 -1.2	SDN	89.04 1 e(P)	35 44.60	0.4	
	sP	33 41.00		1.0s	46.00nm	OCO	89.25 315 iPc	35 48.90	3.2X	
	PP	35 48.00	CN2	74.57 47 Pc	34 27.40 -1.5	DPW	89.26 334 eP	35 46.90	1.3	
	SS	42 21.00		1.0s	70.00nm	ACO	89.36 317 iPc	35 47.50	1.3	
BOSA	64.31 177 eP	33 25.10 -0.8	Z 18s	1.21um	5.2Msz	GLD	90.32 322 ePc	35 52.08	1.3	
BLF	64.84 176 eP	33 29.50 -0.1	N 14s	0.69um			1.4s	43.50nm	5.6mb	
POF	65.02 182 eP	33 33.00 2.5	E 14s	0.70um			Z 21s	1.71um	5.5Msz	
	1.5s	32.00nm		epP	34 43.40 58kmX			epP	36 01.67 30km	
BTO	66.44 56 P	33 38.50 -1.4	ELF	74.78 312 P	34 30.70 0.6	MEO	90.42 315 iPd	35 52.40	1.3	
N 20s	1.72um		LDN	74.78 312 P	34 30.70 0.6	LEM	90.47 98 ePc	35 51.50	-0.3	
E 20s	1.28um		DL2	74.98 53 eP	34 31.00 -0.3	RMW	90.84 336 eP	35 53.56	0.6	
	pP	33 50.00	Z 18s	1.25um	5.3Msz	GMW	91.07 337 iPd	35 55.83	1.9	
	S	42 28.00	E 15s	1.60um		PTI	91.17 328 ePc	35 56.21	1.6	
	eSS	46 44.50		eS	44 00.00		epP	36 05.13 28km		
YAK	66.50 29 eP	33 38.00 -1.7	DLA	75.12 312 P	34 32.00 -0.1	LON	91.46 336 eP	35 55.02	-0.8	
	1.8s	70.00nm	CBN	75.13 306 eP	34 33.00 0.8	HVU	92.23 328 ePc	36 00.77	1.2	
Z 17s	3.20um	5.5mb		0.9s	45.00nm		epP	36 10.09 29km		
N 18s	1.20um	5.6MszX	YKA	75.86 341 P	34 36.50 0.6	DAU	92.67 326 iPd	36 03.05	1.2	
E 17s	3.50um			0.9s	27.00nm	PV08	92.91 323 eP	36 03.20	0.2	
	iPcP	34 17.00	CVL	75.97 307 eP	34 37.90 0.9	EMUT	92.95 326 eP	36 03.15	0.1	
	ePP	36 13.00	MDJ	76.49 44 eP	34 40.70 0.9	PV09	93.20 324 eP	36 04.64	0.4	
	ePPP	37 34.00		Z 18s	3.83um	PV10	93.26 324 ePc	36 05.51	1.0	
	eS	42 24.00	N 16s	2.27um			epP	36 15.45 31km		
	iPS	42 45.00	E 14s	1.25um		SIV	93.74 253 P	36 07.40	0.9	
	eScS	43 07.00		eS	44 16.00	MSU	94.62 326 eP	36 11.68	1.0	
CD2	66.54 68 iPd	33 39.60 -0.9	NJ2	76.95 60 Pd	34 41.80 -0.7	ARUT	95.79 326 eP	36 17.14	1.1	
	1.0s	83.00nm	Z 20s	0.89um	5.1Msz	LBFM	96.22 333 eP	36 19.09	1.1	
Z 18s	1.19um	5.1Msz		S	44 25.00	WDC	97.13 334 P	36 30.00	8.2X	
	S	42 26.00	NAV	77.86 307 eP	34 48.37 0.8		Z 19s	2.09um	5.6Msz	
HHC	67.36 55 Pc	33 45.00 -0.7	IMA	78.24 358 iPc	34 50.05 0.8	ORV	97.65 332 ePc	36 24.84	0.7	
	1.0s	130.00nm		0.9s	20.20nm		1.2s	10.00nm	5.2mb	
Z 20s	2.61um	5.5Msz	FBA	79.15 356 ePc	34 54.37 0.3		Z 19s	1.70um	5.6Msz	
N 17s	1.22um			0.8s	9.80nm			eLQ	04 54.40	
E 20s	2.83um		LHS	79.54 305 eP	34 58.16 1.4	BONR	97.76 329 eP	36 27.03	2.0	
	pP	33 55.00	ANM	79.64 3 eP	34 57.51 0.8	MEMM	98.27 330 eP	36 30.64	3.7X	
	S	42 37.00	TTA	81.44 359 ePc	35 07.67 1.4	CMB	98.53 331 ePc	36 29.45	1.2	
KMI	68.62 74 Pd	33 54.20 0.2		0.9s	10.04nm		2.5s	60.00nm	5.7mb	
	0.8s	20.00nm	TOA	81.81 354 eP	35 09.50 1.2		Z 19s	1.30um	5.4Msz	
	pP	34 01.00	KLU	82.39 354 ePc	35 12.26 0.9			eLQ	05 46.30	
XAN	68.82 63 P	33 54.00 -0.9	BALM	82.50 352 eP	35 12.98 1.0			eLR	14 53.30	
	0.6s	27.00nm		e	35 25.07 40km					
Z 16s	1.55um	5.3MszX	PMR	82.52 356 ePc	35 12.37 0.5	CMB	98.53 331 P	36 40.00	11.8X	
	pP	34 04.00		1.1s	47.97nm		Z 21s	1.38um	5.4Msz	
	sP	34 08.40	Z 20s	0.59um	4.9Msz	TUC	98.93 321 P	36 40.00	9.9X	
	PcP	34 12.00	SLM	82.90 313 P	35 20.00 5.7X		Z 20s	1.44um	5.5Msz	
	S	42 52.00		Z 18s	0.91um	ARN	99.58 331 eP	36 34.99	2.0	
	sS	43 06.00	CRP	83.00 357 ePc	35 14.32 -0.3		epP	36 43.77 27km		
	ScS	43 47.00	CP2	83.01 357 iPd	35 15.39 0.7	MHC	99.63 331 ePc	36 34.99	1.6	
CHTO	68.88 82 ePd	33 54.00 -1.4	ELC	83.17 311 eP	35 15.66 0.0		1.3s	20.00nm	5.5mb	
	1.1s	35.04nm	SVW	83.26 359 eP	35 17.10 1.3	SAO	100.05 331 Pdifff	36 50.00	15.0X	
CER	69.00 182 eP	33 51.00 -4.7X	FVM	83.44 313 eP	35 17.72 0.6		Z 21s	1.28um	5.4Msz	
	1.0s	80.00nm		0.8s	55.45nm					
GRM	69.05 176 eP	33 56.00 0.0		Z 18s	2.43um	5.6Msz	WRA	119.27 94 PKP	41 38.80	-0.6
	1.0s	60.00nm	BAO	83.59 246 eP	35 19.50 1.3			0.6s	6.40nm	
TIY	69.48 58 Pc	33 57.40 -1.4		i	35 23.20 12kmX	WB2	119.28 94 ePKP	41 37.80	-1.6	
	0.8s	32.00nm		i	35 33.60		0.6s	9.00nm		
Z 18s	2.67um	5.5Msz		i	35 39.30	ASPA	120.76 98 iPKPd	41 41.50	-0.6	
E 17s	1.65um		BDFB	83.61 246 eP	35 19.89 1.6		0.7s	10.00nm		
	S	43 04.00		0.9s	35.75nm	HON	123.03 360 PKP	42 00.00	13.6X	
BDT	69.76 83 eP	33 58.20 -2.5	SLKM	83.67 356 ePc	35 18.43 0.6		Z 21s	0.49um	5.1Msz	
BJI	70.81 54 eP	34 05.00 -1.8	ASAJ	83.84 39 eP	35 19.10 0.1	SPA	125.78 180 ePKPd	41 49.80	-0.8	
	1.2s	41.00nm	LST	83.97 311 eP	35 20.80 1.0		1.1s	59.52nm		
Z 20s	2.42um	5.5Msz	MRRJ	84.23 41 eP	35 21.00 0.1	BKM	145.07 68 iPKPc	42 28.00	0.4	
N 18s	1.56um		YONJ	84.74 50 eP	35 26.20 2.5	DZM	146.21 76 iPKPc	42 31.10	1.6	
	eS	43 16.00	SIT	85.37 348 eP	35 28.03 1.6		S.D. = 1.3	on 324 of 385 obs.		
	eSS	43 30.00		0.8s	25.95nm					
	eSS	47 52.00		Z 20s	1.84um	5.5Msz				
GYA	70.97 71 iPc	34 06.60 -1.6		e	35 40.53 41km					
	1.0s	29.00nm	HOJ	85.41 39 eP	35 26.90 0.0					
			KUSJ	85.62 38 eP	35 27.30 -0.6					

\* JAN 11, 1994 08h 20m 46.62± 1.49s  
 35.753 N ±12.9km 21.757 E ±11.3km  
 DEPTH = 10.0km (geophysicist)  
 3.8mb ( 4 obs.)



CENTRAL MEDITERRANEAN SEA (400)						FNA			4.94	355	ePn	01	05.72	2.0				iS	04	35.00						
ML 3.8 (THE).									iSn			02	01.44					i	04	38.80						
						IZM			4.96	58	eP	01	03.50	-0.7				i	07	10.70						
VLI	1.36	44	ePb	21	12.00	0.5	VLO			4.99	338	iPn	01	05.40	1.0				e	07	29.70					
VAM	2.02	99	ePb	21	21.60	0.5				iSn			01	49.90					e(Pn)	02	34.60	-1.7				
VLS	2.59	339	ePn	21	38.50	9.2X	SOH			5.08	12	iPn	01	07.53	1.7				e(Sn)	04	33.00					
AGG	3.30	38	ePn	21	41.44	2.1	GRG			5.11	4	ePn	01	07.32	1.2				e	07	24.00					
									eSn			02	07.76					eP	02	39.80	-2.4					
IGT	3.94	344	iPn	21	49.08	0.7	CIN			5.25	69	eP	01	09.00	0.9				0.9s	44.55nm	5.7mb					
						OHR			5.32	351	iPn	01	10.30	1.1				12.15	354	e(Pn)	02	41.10	-2.5			
LIT	4.38	7	ePn	21	55.82	1.1				0.7s	680.00nm					6.3mb X				12.37	79	eP	02	43.80	-2.8	
									i			01	18.50					12.84	345	eP	02	52.10	-0.6			
PAIG	4.44	19	ePn	21	55.08	-0.4				i			01	29.70					e	24	11.60					
KZN	4.55	0	ePn	21	58.10	1.0				i			02	07.00					e	25	12.80					
OUR	4.90	20	ePn	22	01.16	-0.9				i			02	09.50					KBA	12.92	333	iPc	02	52.90	-1.1	
FNA	5.03	357	iPn	22	04.30	0.3				Lg			02	18.00					0.9s	26.70nm	5.4mb					
						KNT			5.35	8	iPn	01	11.04	1.5				iS	05	07.40						
SOH	5.21	13	ePn	22	06.20	-0.3				iSn			02	12.96					i	26	16.40					
GRG	5.22	5	ePn	22	06.08	-0.5	SRS			5.41	13	ePn	01	11.52	1.1				i	26	19.90					
									eSn			02	14.04					VKA	13.07	343	e(P)	02	55.00	-0.9		
OHR	5.40	352	ePn	22	09.30	0.1	VAY			5.48	5	iPn	01	12.40	1.1				BHG	13.63	333	iPd	03	03.50	0.3	
KNT	5.47	9	ePn	22	09.76	-0.4				1.0s	1120.00nm					6.4mb X				1.2s	47.00nm	5.2mb				
									i			01	25.00					WTTA	13.74	329	iPc	03	04.10	-0.7		
SRS	5.55	15	ePn	22	10.32	-0.9				i			02	12.40					i	05	25.20					
SKO	6.22	358	ePn	22	19.30	-1.3				i			02	19.50					i	05	29.50					
GEC2	14.36	338	Pn	24	11.60	-0.4	TIR			5.71	344	ePn	01	16.00	1.3				iPc	03	05.80	-0.1				
									iSn			02	20.00					i	05	28.60						
APO	25.31	351	ePn	26	12.60	-2.0	ALN			5.98	32	ePn	01	19.44	1.0				i	05	33.10					
									ePn			01	18.00	-0.6				SQTA	13.89	328	iPc	03	06.90	0.2		
EKA	25.99	327	P	26	23.00	2.1	RDO			5.99	27	ePn	01	18.00	-0.6				i	03	23.70					
									iPnd			01	20.50	0.1				6.3mb X				i	05	23.30		
YKA	1.4s	9.70nm				4.3mb							i			01	29.00					i	05	33.50		
									iSn			02	23.30					MOTA	14.03	328	iPc	03	08.80	0.2		
S.D. = 1.2 on 19 of 20 obs.									i			02	27.50					i	05	26.40						
									Lg			02	28.00					i	05	36.50						
? JAN 11, 1994 08h 51m 51.87± 2.46s						KSL			6.22	85	ePn	01	21.00	-0.8				OKC	14.24	350	e(P)	03	20.20	9.0X		
35.737 N ±20.9km						ULC			6.44	342	iPnc	01	24.02	-1.0				e	03	32.10						
DEPTH = 10.0km (geophysicist)									iSn			02	30.87					GEC2	14.32	338	Pn	03	10.90	-1.4		
CENTRAL MEDITERRANEAN SEA (400)						SDA			6.47	344	iPnd	01	24.80	-0.5				FUR	14.61	331	eP	03	16.20	0.2		
MD 3.7 (ATH). ML 3.6 (THE).									iSn			02	34.70					KHC	14.61	338	P	03	16.40	0.3		
						EDC			6.48	44	iP	01	26.00	0.5				1.0s	17.90nm	4.5mb						
VLI	1.06	22	ePn	52	09.00	-2.8	DST			6.50	53	eP	01	25.90	0.1				Z	16s	3.20um	5.8MsZ				
VAM	1.46	102	ePn	52	18.20	-0.1	ELL			6.51	80	eP	01	33.50	7.5X				N	16s	2.00um					
VLS	2.85	329	ePn	52	37.50	-0.8	KHL			6.56	66	iP	01	28.30	1.7				E	16s	1.10um					
AGG	3.28	358	ePn	52	48.60	4.2X	BDV			6.85	340	iPnd	01	29.33	-1.4				e	03	22.60					
									iSn			02	40.01					e	03	38.00						
IGT	4.14	337	ePn	52	55.56	-1.0	TTG			6.88	343	iPnd	01	30.27	-0.8				e	04	19.00					
									iSn			02	41.93					WET	14.84	336	eP	03	19.60	0.5		
PAIG	4.30	13	iPn	53	01.50	2.8X	FVY			6.90	348	iPnc	01	31.74	0.3				14.99	315	eP	03	21.60	0.3		
LIT	4.36	0	ePn	53	02.48	2.9X				iSn			02	44.63					1.1s	36.65nm	4.6mb					
KZN	4.59	354	ePb	53	04.30	1.3	HCY			7.10	339	iPnc	01	32.08	-2.0				15.01	315	eP	03	20.90	-0.6		
OUR	4.75	14	ePn	53	07.68	2.5X				iSn			02	45.24					1.0s	19.60nm	4.4mb					
FNA	5.11	351	ePn	53	10.64	0.3	IVA			7.18	348	iPnd	01	35.65	0.3				PRU	15.11	341	eP	03	21.90	-0.7	
SOH	5.13	8	ePn	53	12.60	2.1X				iSn			02	51.19					Z	12s	1.50um					
GRG	5.21	360	ePn	53	12.56	0.8	ALT			7.25	61	eP	01	37.80	1.4				i	03	27.50					
KNT	5.43	4	ePn	53	16.36	1.6	NKY			7.31	343	iPnd	01	36.15	-1.0				i	03	35.30					
SRS	5.45	9	iPn	53	16.77	1.7				iSn			02	52.13					e	06	09.30					
OHR	5.52	347	ePn	53	14.50	-1.6	IZI			7.45	51	eP	01	40.00	0.9				FEL	15.83	324	P	03	32.43	0.4	
VAY	5.58	1	iPn	53	17.40	0.5	BRY			7.50	341	iPnd	01	38.19	-1.7				GRF	15.88	334	eP	03	37.40	4.9X	
									iSn			02	55.78					eS	06	14.00						
						ISK			7.64	45	eP	01	41.00	-0.7				eSg	26	17.80						
JAN 11, 1994 08h 59m 49.45± 0.31s						PLE			7.71	346	iPnd	01	42.40	-0.4				LOMF	16.07	320	P	03	35.62	0.5		
35.856 N ± 3.8km									iSn			03	03.40					BRG	16.08	341	eP	03	34.50	-0.5		
DEPTH = 27.5km ( 5 depth phases)						HRT			7.85	49	iP	01	44.60	-0.1				1.2s	32.00nm	4.3mb						
4.9mb ( 55 obs.) 4.6MsZ ( 6 obs.)						GPA			7.96	54	iP	01	47.00	0.8				i	03	45.60						
CENTRAL MEDITERRANEAN SEA (400)						EYL			8.01	52	eP	01	47.50	0.5				i	03	56.00						
MD 4.8 (HLW), 4.7 (ATH), 4.6 (VIE). ML 4.6 (THE).						HVAR			8.45	332	iPn	01	50.40	-2.5				HOF	16.18	336	eP	03	41.40	5.0X		
									iSn			03	18.00					MOF	16.25	322	P	03	37.63	0.3		
VLI	1.19	43	iPb	00	12.00	1.7	SSR			9.00	359	ePd	02	07.00	6.4X				BSF	16.40	321	eP	03	37.80	-1.5	
VAM	1.91	103	iPb	00	22.50	1.8	BUC1			9.04	19	eP	02	44.00	42.9X				1.2s	65.15nm	4.6mb					
VLS	2.55	336	iPn	00	32.50	2.6	BUC			9.12	19	ePd	01	54.00	-8.2X				ECH	16.48	323	P	03	40.75	0.6	
ATH	2.56	34	iPn	00	32.00	2.1	CSS			9.36	92	eP	02	06.50	0.9				WLS	16.52	324	P	03	41.60	0.9	
NPS	3.07	100	iPn	00	39.00	1.8				eS			03	40.00					MOX	16.55	336	eP	03	42.20	1.1	
AGG	3.18	6	ePn	00	42.64	3.9X	CMP			9.70	13	iPc	02	09.00	-1.2				1.5s	23.00nm	4.1mb					
						HLW			9.92	124	ePn	02	12.00	-1.3				Z	19s	2.20um	6.1MsZ					
IGT	3.88	342	iPn	00	50.44	1.8	MLR			10.10	16	ePc	02	16.00	0.2				16.56	324	eP	03	39.80	-1.4		
KEK	4.20	337	ePn	00	54.30	1.0	CFR			10.45	25	eP	02	19.50	-1.0				0.8s	14.50nm	4.2mb					
LIT	4.26	6	ePn	00	55.40	1.3	VRI			10.64	18	eP	02	21.50	-1.6				16.72	340	eP	03	45.00	1.8		
									KAS			10.78	56	iPc	02	25.80	0.7	16.74			321	eP	03	41.90	-1.6	
PAIG	4.30	18	iPn	00	56.22	1.7	ZAG			10.92	338	i(Pn)	02	26.00	-0.8				1.0s	46.80nm	4.6mb					
SRN	4.30	340	iPnc	00	56.10	1.6	PTJ			11.00	338	iPn	02	26.10	-2.0				VITF	17.07	321	P	03	48.29	0.7	
LSK	4.41	347	iPnc	00	58.40	2.1				iSn			03	40.80					SMF	17.31	314	eP	03	48.90	-1.7	
									UZD			11.02	348	eP	02	24.90	-3.3X	1.0s			22.80nm	4.3mb				
KZN	4.44	359	ePn	00	59.00	2.2	RIY			11.07	331	iPn	02	27.30	-1.6				LBF	17.41	315	eP	03	50.60	-1.3	
OUR	4.76	19	ePn	01	02.46	1.4	LJU			11.60	334	iP	02	34.80	-1.4				1.0s	25.00nm	4.3mb					
THE	4.84	9	iPn	01	03.33	1.1				i			03	36.60					LOR	17.64	316	eP	03	54.20	-0.5	
																		1.0s	16.60nm	4.1mb						



11d 09h

Z 20s 0.60um  
 AVF 17.67 314 eP 03 53.00 -2.1  
 0.9s 12.80nm 4.1mb  
 SSF 17.73 315 eP 03 54.30 -1.5  
 0.8s 11.55nm 4.1mb  
 MAF 17.86 311 eP 03 55.50 -1.9  
 1.3s 84.50nm 4.7mb  
 WLF 17.96 325 iPc 04 01.67 3.0X  
 1.5s 29.30nm 4.2mb  
 LPO 18.08 306 eP 04 00.00 -0.1  
 0.8s 29.40nm 4.5mb  
 TCF 18.10 311 eP 03 59.10 -1.4  
 1.2s 52.05nm 4.5mb  
 MEM 18.70 327 iPc 04 09.74 2.1  
 1.2s 12.40nm 4.0mb  
 ENN 18.85 327 eP 04 11.00 1.5  
 0.8s 6.50nm 3.9mb X  
 DOU 18.99 324 Pc 04 12.20 0.9  
 0.7s 44.40nm 4.8mb  
 WTS 19.40 331 eP 04 17.00 1.0  
 0.7s 11.60nm 4.3mb  
 SNF 19.42 324 P 04 18.20 1.9  
 ELIZ 19.47 299 iPc 04 18.07 1.0  
 TAB 19.62 76 eP 04 16.00 -2.8  
 MFF 19.70 310 eP 04 17.70 -1.8  
 0.9s 46.05nm 4.8mb  
 BSD 19.85 348 iPd 04 19.80 -1.2  
 0.6s 33.00nm 4.8mb  
 ECRI 20.05 297 iPd 04 23.81 0.5  
 ECGO 20.51 282 eP 04 29.60 1.5  
 EGUA 20.54 280 eP 04 30.39 2.0  
 LDF 20.61 315 eP 04 27.50 -1.4  
 1.0s 89.60nm 5.1mb  
 LPF 20.88 313 eP 04 29.40 -2.3  
 0.8s 49.55nm 5.0mb  
 FLN 20.90 315 eP 04 30.50 -1.4  
 0.7s 58.85nm 5.1mb  
 Z 23s 0.43um 3.8MsZ  
 GUD 21.00 291 iPc 04 33.55 0.4  
 PAB 21.08 288 iPd 04 34.60 0.6  
 OBN 21.74 23 eP 04 37.50 -2.8  
 1.0s 70.00nm 5.0mb  
 Z 19s 1.70um 4.5MsZ  
 N 19s 1.20um  
 e 04 46.00 31km  
 ePP 05 05.00  
 eS 08 33.00  
 EHOR 21.81 283 eP 04 40.56 -0.6  
 EPRU 21.86 281 eP 04 41.82 0.1  
 EJIF 22.10 280 eP 04 44.34 0.2  
 ALJ 22.19 280 iP 04 47.00 1.9  
 MOMI 22.32 279 iP 04 48.00 1.7  
 PLAT 22.37 279 iP 04 48.00 1.1  
 EPLA 22.43 289 eP 04 47.69 0.3  
 UPP 24.18 355 iP 05 04.20 0.1  
 iS 09 22.50  
 NUR 24.73 3 eP 05 09.20 -0.3  
 HFS 24.87 350 eP 05 10.50 -0.4  
 0.4s 9.40nm 4.8mb  
 EKA 25.97 326 P 05 22.00 0.7  
 1.1s 102.90nm 5.4mb  
 EKA 25.97 326 P 05 41.00 19.7X  
 0.9s 34.30nm  
 KAF 26.42 5 iP 05 24.60 -0.7  
 0.8s 21.20nm 4.8mb  
 DLF 26.47 320 eP 05 26.90 1.0  
 1.0s 151.00nm 5.6mb  
 DCN 26.89 320 eP 05 31.00 1.4  
 1.0s 151.00nm 5.6mb  
 MAIO 30.25 78 eP 06 03.00 2.7X  
 LKO 36.22 230 Pc 06 52.57 0.5  
 0.9s 76.00nm 5.6mb  
 TIC 38.15 227 Pc 07 08.69 0.5  
 0.9s 46.00nm 5.3mb  
 KIC 38.21 226 Pc 07 09.29 0.6  
 0.8s 53.00nm 5.4mb  
 LIC 38.49 226 Pc 07 11.61 0.6  
 0.8s 59.50nm 5.4mb  
 Z 20s 0.41um 4.2MsZ  
 KSH 42.42 68 eP 07 41.90 -1.5  
 1.0s 20.00nm 4.8mb  
 DAG 44.82 348 iPc 08 02.50 0.2  
 0.4s 5.08nm 4.8mb  
 NDI 46.78 82 eP 08 19.00 0.6  
 WMQ 49.94 60 P 08 42.50 -0.3  
 0.8s 15.00nm 5.1mb

Z 20s 0.54um 4.6MsZ  
 pP 08 48.70 21km  
 sP 08 53.00  
 PP 10 37.00  
 S 15 49.50  
 sS 15 59.00  
 eSS 19 19.00  
 GKN 53.01 80 P 09 04.08 -2.3  
 0.6s 30.00nm 5.4mb  
 HYB 53.12 95 eP 09 04.00 -3.2X  
 DMN 53.56 80 P 09 09.00 -1.5  
 0.7s 51.00nm 5.6mb  
 KKN 53.62 80 P 09 09.50 -1.4  
 0.6s 31.00nm 5.5mb  
 PKI 53.81 80 P 09 10.30 -2.1  
 1.0s 46.00nm 5.4mb  
 GUN 54.04 79 P 09 12.90 -1.2  
 GTA 59.95 61 Pd 09 54.50 -1.2  
 1.0s 12.00nm 5.0mb  
 pP 10 08.00 48kmX  
 LZH 64.25 63 Pd 10 23.00 -1.6  
 1.4s 31.00nm 5.2mb  
 Z 18s 0.54um 4.8MsZ  
 pP 10 32.50 31km  
 sP 10 36.50  
 BTO 66.51 56 eP 10 38.00 -1.0  
 CD2 66.59 68 P 10 39.20 -0.4  
 1.0s 28.00nm 5.3mb  
 YAK 66.60 29 eP 10 36.00 -3.0  
 1.5s 20.00nm 5.0mb  
 HHC 67.43 55 eP 10 45.00 0.2  
 1.2s 39.00nm 5.4mb  
 XAN 68.89 63 P 10 53.00 -0.9  
 1.0s 11.00nm 4.9mb  
 pP 11 01.00 26km  
 sP 11 05.00  
 CHTO 68.92 82 eP 11 02.00 7.8X  
 TIY 69.55 58 eP 10 57.00 -0.9  
 Z 20s 0.75um 4.9MsZ  
 N 15s 0.61um  
 BJI 70.89 54 eP 11 05.00 -0.9  
 1.2s 10.00nm 4.8mb  
 Z 22s 0.31um 4.5MsZ  
 GYA 71.02 71 P 11 07.00 -0.1  
 CN2 74.65 47 eP 11 27.80 -0.2  
 1.0s 14.00nm 4.9mb  
 epP 11 37.20 30km  
 YKA 75.95 341 P 11 34.30 -0.8  
 0.9s 3.20nm 4.3mb  
 NJ2 77.01 60 eP 11 42.00 0.4  
 IMA 78.35 358 eP 11 49.80 1.4  
 1.1s 7.90nm 4.7mb  
 PMS 83.00 356 eP 12 13.60 0.5  
 SVW 83.36 359 eP 12 17.00 2.0  
 BAO 83.53 246 Pd 12 19.10 2.5  
 TUL 88.06 314 iPc 12 40.40 1.8  
 UYO 88.47 312 iPd 12 42.60 2.0  
 LRM 88.88 330 eP 12 43.50 0.8  
 WRA 119.29 94 PKP 18 38.00 -0.1  
 0.5s 0.70nm  
 WB2 119.30 94 ePKP 18 37.40 -0.7  
 0.5s 1.90nm  
 LAT 122.07 74 iPKPc 18 49.40 5.9X  
 DZM 146.25 76 iPKPc 19 30.80 2.5  
 S.D. = 1.3 on 167 of 182 obs.  
 % JAN 11, 1994 09h 24m 09.49± 0.47s  
 46.190 N ± 5.0km 2.697 E ± 4.3km  
 DEPTH = 10.0km (geophysicist)  
 FRANCE (538)  
 ML 2.0 (LDG).  
 MAF 0.10 289 Pg 24 12.50 0.3  
 Sg 24 14.60  
 TCF 0.35 286 Pg 24 16.80 0.0  
 Sg 24 21.70  
 BGF 0.38 16 Pg 24 17.40 0.1  
 Sg 24 22.80  
 AVF 0.75 37 Pg 24 23.80 -0.4  
 Sg 24 33.80  
 LSF 0.81 275 Pg 24 24.90 -0.4  
 Sg 24 35.80  
 SMF 0.91 60 Pg 24 26.90 -0.1  
 Sg 24 38.70  
 SSF 1.04 32 Pg 24 29.00 0.0  
 Sg 24 42.40  
 LBF 1.19 48 Pg 24 31.80 0.1

Sg 24 46.70  
 RJF 1.21 223 Pg 24 32.00 -0.1  
 Sg 24 47.20  
 CAF 1.34 200 Pg 24 34.30 0.1  
 Sg 24 51.20  
 LOR 1.34 36 Pg 24 34.50 0.3  
 Sg 24 51.90  
 S.D. = 0.3 on 11 of 11 obs.  
 ? JAN 11, 1994 10h 12m 34.62± 3.34s  
 39.801 N ± 24.6km 29.527 E ± 16.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).  
 IZI 0.54 356 iPg 12 45.50 0.0  
 eSg 12 56.00  
 EYL 0.90 32 ePn 12 52.00 0.0  
 HRT 1.02 6 ePn 12 54.00 0.0  
 EDC 1.39 294 ePn 13 00.00 0.0  
 S.D. = 0.0 on 4 of 4 obs.  
 JAN 11, 1994 10h 40m 54.75± 1.18s  
 40.713 N ± 9.5km 30.027 E ± 8.3km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).  
 EYL 0.18 146 iPg 40 58.50 0.0  
 HRT 0.29 292 iPg 41 00.50 -0.2  
 GBZT 0.45 280 ePg 41 03.90 0.1  
 iSg 41 10.70  
 GPA 0.48 153 ePg 41 04.00 -0.3  
 eSg 41 11.00  
 IZI 0.57 229 iPg 41 05.40 -0.7  
 iSg 41 13.40  
 ISK 0.81 296 iPg 41 10.50 -0.5  
 iSg 41 22.00  
 DST 1.54 225 ePn 41 23.30 0.3  
 ALT 1.66 178 ePn 41 24.90 0.2  
 EDC 1.69 258 ePn 41 26.00 0.9  
 S.D. = 0.6 on 9 of 9 obs.  
 & JAN 11, 1994 10h 53m 51.35s  
 36.992 N 121.732 W  
 DEPTH = 12.8km  
 3.5mb ( 1 obs.)  
 CENTRAL CALIFORNIA ( 39)  
 <GM-P>. MD 4.2 (GM). ML 4.3  
 (BRK). Felt (V) at Ben Lomond,  
 Mount Hermon, Santa Cruz and  
 Soquel; (IV) at Aptos, Boulder  
 Creek, Brookdale, Carmel,  
 Castroville, Davenport, Gilroy,  
 Los Banos, Los Gatos, Monterey  
 and Pacific Grove; (III) at  
 Antioch, Chualar, Mountain View  
 and Soledad. Felt from Salinas  
 to Berkeley.  
 JBZM 0.05 301 P 53 54.52 0.6  
 HGWM 0.07 68 P 53 53.93 -0.2  
 CBO 0.12 16 P 53 54.86 0.1  
 DIL 0.17 156 P 53 55.30 -0.2  
 OCR 0.19 113 P 53 55.95 0.1  
 CDC 0.20 80 P 53 56.22 0.2  
 JNAM 0.21 334 P 53 57.25 1.2  
 SOS 0.24 318 P 53 56.47 -0.2  
 COE 0.27 10 ePd 53 57.85 0.6  
 LXR 0.29 316 P 53 57.34 -0.3  
 SAO 0.32 134 iPd 53 58.79 0.6  
 BVYM 0.35 133 P 53 58.31 -0.5  
 MHC 0.36 12 ePd 54 00.20 1.3  
 eS 54 05.63  
 PCL 0.36 80 P 54 00.03 1.1  
 BSRM 0.37 152 P 53 59.43 0.4  
 ARN 0.39 24 eP 53 59.70 0.2  
 JSMM 0.41 302 P 53 59.43 -0.5  
 CVR 0.46 353 P 54 01.10 0.3  
 CMPM 0.50 43 P 54 02.78 1.3  
 MSJ 0.54 348 P 54 02.47 0.3  
 STAN 0.54 319 ePd 54 03.21 1.0  
 eS 54 11.20  
 JMPM 0.58 323 P 54 03.81 1.0  
 CCYM 0.63 333 P 54 03.54 -0.1  
 CSTL 0.67 16 P 54 06.05 1.6  
 SHG 0.69 146 P 54 04.94 0.1



JCHM	0.73	316	P	54	06.15	0.7	PEC	4.85	128	eP	55	02.82	-2.9			eSg	47	53.00				
JEGM	0.78	312	eP	54	05.71	-0.6	PLM	5.39	131	eP	55	10.66	-3.0			ePn	47	10.90	0.3			
SAC	0.80	317	P	54	07.28	0.6	ARUT	6.65	81	eP	55	30.43	-0.9			ePn	47	11.20	0.2			
BMSM	0.82	114	P	54	07.23	0.2	GLA	6.89	123	eP	55	30.73	-3.9			iPg	47	20.30				
CYBM	0.96	329	P	54	09.03	-0.3	MSU	7.72	76	(P)	55	44.61	-1.8			iSg	47	59.60				
HVC	0.96	130	P	54	09.38	0.0	HVU	8.42	53	P	56	10.50	14.4			iPnc	47	13.50	-0.2			
BKS	0.97	336	ePc	54	09.58	0.1	VGB	8.55	5	P	56	06.20	8.5			iPgc	47	22.80	7.2X			
			eS	54	23.95		EMUT	9.02	68	P	56	17.90	13.4			iSg	48	06.20				
BKC	0.98	342	P	54	10.43	0.8	SRU	9.09	73	P	56	06.30	0.9			i(Pn)	47	25.40	7.9X			
JPRM	1.00	324	P	54	09.59	-0.4	LON	9.75	360	eP	56	16.12	1.8			i(Sg)	48	11.80				
DUC	1.06	348	P	54	11.71	0.7	PV09	10.09	78	(P)	56	19.99	0.7			e(Pn)	47	17.80	-2.2			
MOP	1.08	136	P	54	11.61	0.1	PV10	10.16	78	eP	56	21.07	0.9			i	47	34.70				
PRCM	1.16	129	P	54	12.93	0.2	PV08	10.48	77	(P)	56	25.47	0.8			ePn	47	20.40	0.2			
HMR	1.16	357	ePc	54	13.46	0.7	LRM	11.23	35	eP	56	42.20	7.4			ePg	47	33.80				
PSAM	1.18	145	P	54	12.78	-0.3	YKA	25.91	8	P	59	30.60	6.2			iSg	48	17.90				
PDRM	1.28	120	P	54	14.71	-0.1		0.9s		1.00nm			3.5mb			iPnd	47	36.90	-0.5			
PSMM	1.30	135	P	54	14.98	-0.2		124 obs.		associated						i	47	45.30				
SNT	1.32	334	P	54	14.60	-0.8		-----								iSg	48	56.20				
PCRM	1.38	130	P	54	16.43	0.2		% JAN 11, 1994	11h	14m	35.09± 0.81s					iPnd	47	42.50	0.1			
PANM	1.38	151	P	54	15.57	-0.7		39.056 N ± 6.3km		29.477 E ± 8.0km						i	48	57.90				
MSTM	1.39	49	P	54	16.22	-0.3		DEPTH = 5.0km		(geophysicist)						i	49	03.30				
BBR	1.42	333	P	54	16.70	-0.1		TURKEY			(366)					i	49	06.70				
PSTM	1.45	137	P	54	16.47	-0.8		ML 2.8 (ISK).								OGA	5.69	217	iPd	47	50.50	0.1
CMB	1.49	45	ePc	54	17.87	0.0										S.D. = 1.1	on	13 of	16 obs.			
			eS	54	36.91			ALT	0.49	90	iPg	14	44.70	-0.3			-----					
PHBM	1.52	119	P	54	18.32	0.1				iSg	14	50.90				% JAN 11, 1994	13h	46m	07.56± 0.86s			
WKR	1.53	140	P	54	17.93	-0.5		KHL	0.73	177	iPg	14	49.90	0.1			26.868 S ± 7.1km	26.737 E ±10.5km				
PHAM	1.58	137	eP	54	18.19	-0.9				iSg	14	59.90				DEPTH = 5.0km	(geophysicist)					
NTYM	1.58	3																				



11d 14h

NORTHERN ITALY (545)  
MD 2.5 (LJU), 2.1 (TRI). ML 2.1  
(VIE).

SCE	1.01	332	iPgc	12	49.40	0.1
VOY	1.04	96	iPnc	12	49.30	-0.5
			eSn	13	03.50	
TRI	1.05	115	e(Pg)	12	48.70	-1.1
			e(Sg)	13	03.80	
KBA	1.13	35	iPg	12	51.30	0.0
			iSg	13	07.60	
WTTA	1.23	335	iPgc	12	53.10	0.0
			iSg	13	09.70	
WATA	1.31	334	iPg	12	54.50	0.0
			iSg	13	12.20	
SQTA	1.35	323	iPgc	12	54.70	-0.3
			iSg	13	13.00	
VBY	2.09	107	ePn	13	07.50	1.8
			eSn	13	34.60	

S.D. = 1.0 on 8 of 8 obs.

% JAN 11, 1994 14h 56m 12.33± 2.92s  
33.425 S ± 7.5km 72.206 W ± 21.4km  
DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)  
MD 3.9 (SAN).

LCCH	0.53	96	iP+	56	23.48	0.3
			iS	56	32.81	
IHA	0.62	50	e(P)	56	25.50	0.7
			eS	56	35.20	
LNv	0.85	129	iP+	56	28.72	0.1
			iS	56	41.55	
TACH	1.08	102	iPd	56	32.42	-0.3
			iS	56	48.51	
ROCH	1.10	66	iPd	56	32.97	-0.2
			iS	56	50.07	
SAN	1.29	92	eP	56	36.01	-0.3
PEL	1.30	78	iPd	56	36.62	0.1
			iS	56	54.96	
PCH	1.43	98	iPd	56	38.08	-0.3
CACH	1.51	118	eP	56	39.93	0.4
			iS	57	01.47	
JACH	1.54	62	eP	56	39.27	-0.7
			iS	57	01.51	
FCH	1.61	87	iPd	56	41.22	0.1
			iS	57	03.43	

S.D. = 0.5 on 11 of 11 obs.

\* JAN 11, 1994 14h 58m 34.24± 0.72s  
11.986 S ± 12.2km 167.289 E ± 12.8km  
DEPTH = 19.3km ( 3 depth phases)  
4.4mb ( 7 obs.)

SANTA CRUZ ISLANDS (184)

BKM	5.72	171	iPc	00	08.50	8.1X
			iS	01	25.50	
HNR	7.65	289	eP	00	29.00	1.6
DZM	10.06	184	iPc	01	02.10	1.2
ARMA	23.39	216	eP	03	52.30	9.4X
STK	30.85	226	eP	04	52.00	0.5
			0.7s	2.70nm	4.2mb	
WB2	32.59	252	eP	05	04.90	-2.0
			0.9s	3.00nm	4.2mb	
WRA	32.60	252	P	05	06.60	-0.4
			0.8s	0.60nm	3.6mb	
ASPA	33.75	245	iPd	05	15.80	-1.2
			0.6s	6.10nm	4.7mb	
Z	23s	0.80um			4.4mszX	
BJI	70.16	321	eP	09	49.00	1.4
LZH	76.51	312	eP	10	25.00	-0.2
			1.5s	29.00nm	5.1mb	
FBA	83.75	18	eP	11	02.54	-0.5
			1.4s	7.64nm	4.7mb	
			pP	11	09.21	21km
MSU	90.10	51	eP	11	35.52	0.7
			pP	11	41.70	19km
HVU	90.52	47	eP	11	37.10	0.6
			pP	11	42.75	18km
YKA	95.11	27	P	11	55.30	-1.7
			0.8s	0.30nm	3.8mb	

S.D. = 1.3 on 12 of 14 obs.

JAN 11, 1994 15h 46m 56.81± 0.85s  
43.720 N ± 5.0km 8.653 E ± 6.6km  
DEPTH = 5.0km (geophysicist)  
CORSIKA (380)

ML 2.9 (GEN), 2.6 (STR).

FIN	0.59	327	P	47	08.26	-0.3
			S	47	15.30	
IMI	0.58	289	P	47	08.36	-0.2
			S	47	15.72	
ROB	0.81	316	P	47	11.98	-1.0
			S	47	21.65	
PCP	0.83	355	P	47	12.75	-0.6
			S	47	22.65	
SAOF	0.84	289	Pg	47	14.75	1.2
SBF	0.89	280	Pg	47	14.30	-0.2
			Sg	47	24.90	
AUTN	0.93	288	Pg	47	15.07	-0.1
			Sg	47	27.46	
REVF	0.93	272	Pg	47	16.00	0.9
			Sg	47	26.97	
AURF	0.97	280	Pg	47	16.59	0.7
ENR	1.02	300	P	47	16.46	-0.2
			S	47	28.17	
TOUF	1.06	287	Pg	47	18.87	1.5
STV	1.09	299	P	47	17.53	-0.3
			S	47	30.42	
MVIP	1.10	280	Pg	47	19.17	1.1
			Sg	47	32.99	
PGF	1.20	168	Pn	47	20.40	0.7
			Sn	47	34.70	
CALN	1.28	272	Pg	47	20.83	-0.3
PZZ	1.37	306	P	47	22.12	-0.5
			S	47	37.52	
FRF	1.47	264	Pn	47	22.30	-1.6
			Sn	47	39.30	
BHB	1.50	319	P	47	24.07	-0.4
			S	47	40.62	
LMR	1.61	257	Pn	47	24.30	-1.6
			Sn	47	43.00	
LRG	1.69	262	Pn	47	26.10	-1.0
			Sn	47	44.40	
RSP	1.75	326	P	47	27.50	-0.6
			S	47	47.05	
RRL	1.80	312	P	47	29.36	0.4
ORX	1.97	346	P	47	30.34	-1.0
LSD	2.04	329	P	47	33.45	1.0
LPG	2.24	323	Pn	47	36.70	1.4
			Sn	48	04.70	
LPL	2.26	323	Pn	47	37.00	1.4
			Sn	48	05.00	
HAU	4.58	340	Pn	48	08.90	0.6
BGF	4.99	307	Pn	48	12.80	-1.4

S.D. = 1.0 on 28 of 28 obs.

% JAN 11, 1994 15h 47m 03.25± 3.41s  
43.812 N ± 20.0km 8.543 E ± 15.7km  
DEPTH = 5.0km (geophysicist)

CORSICA (380)  
ML 3.1 (GEN).

FIN	0.46	329	P	47	13.07	0.5
			S	47	19.08	
IMI	0.48	282	P	47	13.23	0.3
			S	47	19.60	
ROB	0.68	315	P	47	16.76	-0.2
			S	47	25.76	
PCP	0.73	0	P	47	17.55	-0.3
			S	47	26.92	
ENR	0.91	297	P	47	20.71	-0.5
			S	47	32.45	
STV	0.98	297	P	47	22.02	-0.4
			S	47	34.24	
PZZ	1.25	304	P	47	26.55	-0.4
			S	47	42.17	
BHB	1.38	319	P	47	28.44	-0.7
			S	47	45.03	
RSP	1.62	326	P	47	32.11	-0.6
			S	47	51.42	
RRL	1.68	312	P	47	34.81	1.2
			S	47	55.88	
ORX	1.86	348	P	47	35.81	-0.4
			S	47	56.93	
LSD	1.92	329	P	47	38.55	1.4
			S	48	01.99	

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

\* JAN 11, 1994 15h 57m 37.24± 1.44s  
35.865 N ± 12.0km 21.892 E ± 10.3km  
DEPTH = 33.0km (normal)  
4.3mb ( 2 obs.)

CENTRAL MEDITERRANEAN SEA (400)  
MD 4.0 (ATH).

VLI	1.20	44	ePg	57	58.50	0.8
VAM	1.93	103	ePn	58	08.30	-0.1
VLS	2.53	336	ePn	58	18.00	1.1
ATH	2.56	34	ePg	58	24.00	6.7X
NPS	3.09	100	ePn	58	32.20	7.3X
AGG	3.17	6	ePn	58	27.66	1.7
			eSn	59	03.98	
IGT	3.86	342	iPn	58	35.90	0.1
			eSn	59	20.82	
LIT	4.26	6	ePn	58	41.54	0.2
			eSn	59	30.86	
PAIG	4.29	19	iPn	58	41.89	0.0
KZN	4.44	359	ePn	58	44.50	0.5
OUR	4.76	20	ePn	58	48.14	-0.3
FNA	4.93	355	ePn	58	51.10	0.1
			eSn	59	46.14	
SOH	5.08	13	ePn	58	53.02	-0.1
GRG	5.10	4	ePn	58	53.06	-0.3
			eSn	59	51.66	
OHR	5.31	351	iPn	58	55.50	-0.8
	0.7s	40.00nm			5.0mb X	
KNT	5.35	8	ePn	58	57.71	0.9
			eSn	59	55.66	
SRS	5.41	14	ePn	58	56.90	-0.8
VAY	5.47	5	iPn	58	58.00	-0.6
SKO	6.11	357	iPn	59	05.80	-1.8
KHC	14.59	338	eP	01	10.00	6.9X
			e	01	21.00	
HFS	24.86	350	eP	02	56.30	-1.5
	0.4s	1.50nm			4.0mb	
EKA	25.95	326	P	03	09.00	0.9
	1.5s	23.20nm			4.6mb	

S.D. = 0.9 on 19 of 22 obs.

\* JAN 11, 1994 16h 40m 33.88± 0.98s  
31.176 S ± 12.3km 67.687 W ± 10.8km  
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.64	228	ePc	40	46.20	-0.3
			S	40	54.00	
RTLL	0.69	257	ePd	40	46.00	-1.2
ZON	0.92	246	iP	40	50.50	-0.1
			eS	41	03.30	
RTCV	1.00	227	eP	40	52.50	0.9
RTCB	1.00	252	ePd	40	52.00	0.3
			S	41	05.20	
RTPR	1.34	50	iPd	40	56.20	-0.1
RTRS	1.83	303	iPc	41	04.00	0.5
			S	41	26.00	

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

\* JAN 11, 1994 18h 29m 47.49± 1.12s  
36.454 N ± 8.8km 22.062 E ± 10.2km  
DEPTH = 33.0km (normal)

SOUTHERN GREECE (368)  
MD 3.6 (ATH).

VLI	0.75	69	ePg	30	00.70	-0.9
VAM	2.03	120	ePn	30	20.00	0.0
VLS	2.08	326	ePn	30	20.50	-0.3
AGG	2.57	5	ePn	30	28.10	0.3
NPS	3.12	111	ePn	30	36.00	0.5
IGT	3.36	337	iPn	30	38.46	-0.5
LIT	3.66	5	ePn	30	44.68	1.6
PAIG	3.69	20	iPn	30	43.52	-0.1
OUR	4.16	21	ePn	30	50.32	0.1
SOH	4.48	13	ePn	30	54.44	-0.4
GRG	4.50	3	ePn	30	55.28	0.1
KNT	4.75	8	ePn	30	58.28	-0.3
SRS	4.81	14	ePn	30	59.32	-0.1

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

? JAN 11, 1994 20h 09m 09.49± 2.33s  
17.696 N ± 19.0km 100.550 W ± 18.3km  
DEPTH



11d 20h

OXX 3.70 99 iP 10 06.00 0.2  
(S) 10 50.00  
GUM2 3.94 319 (P) 10 14.50 5.6X  
LTX 11.93 347 (P) 12 00.35 2.1  
UYO 17.29 17 iPc 13 07.70 0.8  
MIAR 17.90 19 (P) 13 12.11 -2.3  
1.0s 16.73nm 4.2mb  
ALQ 17.97 344 eP 13 15.55 0.1  
1.0s 13.10nm 4.1mb  
PCO 19.18 9 iPc 13 21.40 -7.9X  
PV10 21.90 342 eP 13 58.33 1.0  
PV08 21.97 343 (P) 13 57.93 -0.2  
YKA 45.82 351 P 17 23.30 -1.1  
0.9s 1.40nm 3.8mb  
DAG 71.01 14 iPd 20 20.20 0.5  
0.5s 3.52nm 4.5mb  
WRA 128.19 258 PKP 28 08.40 -0.1  
0.6s 0.50nm  
S.D. = 1.4 on 13 of 15 obs.

& JAN 11, 1994 21h 04m 07.83s  
60.385 N 152.971 W  
DEPTH = 138.1km  
3.9mb ( 1 obs.)  
SOUTHERN ALASKA ( 2)  
<AEIC>.

RED 0.10 71 ePc 04 25.80 0.6  
eS 04 40.50  
RDW 0.13 39 iPc 04 26.13 0.7  
eS 04 40.48  
RS2 0.13 53 iPc 04 26.11 0.7  
RSO 0.13 54 ePc 04 26.09 0.7  
REF 0.17 52 ePc 04 26.01 0.5  
eS 04 40.60  
NCT 0.18 7 ePc 04 26.10 0.7  
DFR 0.25 34 iPc 04 26.09 0.6  
eS 04 39.98  
ILIM 0.31 179 iPd 04 26.60 0.9  
eS 04 41.59  
INE 0.33 188 ePd 04 26.67 0.8  
eS 04 41.47  
INW 0.33 194 ePd 04 26.66 0.8  
eS 04 41.11  
OPT 0.75 190 ePd 04 29.14 -0.6  
eS 04 45.52  
BKG 0.77 27 iPc 04 28.94 -1.0  
eS 04 46.06  
PDB 0.86 226 iPd 04 29.61 -0.9  
eS 04 46.33  
CKL 0.87 21 iPc 04 30.00 -0.8  
CKT 0.90 24 iPc 04 29.93 -1.1  
eS 04 47.11  
SPU 0.92 29 iPc 04 29.90 -1.2  
eS 04 47.91  
BGL 0.93 18 iPc 04 30.66 -0.6  
CKN 0.93 24 iPc 04 30.37 -0.8  
NKA 0.93 66 iPc 04 31.51 0.4  
CP2 0.95 22 iPc 04 30.38 -1.2  
CRP 0.97 24 iPc 04 30.13 -1.6  
HOM 0.99 137 eP 04 31.05 -0.6  
CGLM 1.04 27 ePc 04 31.08 -1.2  
AUE 1.05 191 P 04 28.80 -3.4  
AUW 1.05 194 eP 04 31.76 -0.4  
AUH 1.05 193 eP 04 31.70 -0.6  
NCG 1.10 21 iPc 04 31.92 -0.9  
XLV 1.13 145 eP 04 32.14 -0.8  
BRLK 1.22 120 eP 04 32.85 -1.0  
eS 04 51.62  
CNPM 1.23 134 ePd 04 32.97 -1.0  
eS 04 52.22  
SLKM 1.37 84 ePc 04 33.53 -1.9  
eS 04 53.62  
MCNL 1.39 210 eP 04 34.51 -1.1  
eS 04 54.74  
SVW 1.49 300 iPd 04 35.00 -1.8  
CDD 1.50 193 ePc 04 35.53 -1.3  
SUA 1.53 44 iPc 04 36.01 -1.4  
SKT 1.75 23 iPc 04 38.35 -1.3  
eS 05 02.80  
SEW 1.78 98 eP 04 38.13 -1.9  
MPA 1.79 85 eP 04 38.09 -2.1  
SYI 1.81 170 eP 04 38.85 -1.5  
PMS 1.88 61 iPc 04 39.20 -2.1  
PWA 1.97 49 P 04 40.20 -2.1  
PLRM 2.23 55 eP 04 42.51 -2.9  
PMR 2.23 55 eP 04 42.16 -3.3

PWL 2.33 76 eP 04 43.73 -3.1  
CUT 2.41 31 ePc 04 45.86 -1.8  
GHO 2.41 53 iPc 04 45.06 -2.8  
KNK 2.44 63 iPc 04 45.21 -2.9  
eS 05 15.11  
KDC 2.66 174 eP 04 47.54 -3.3  
SML 2.67 56 iPc 04 48.13 -2.9  
CFI 2.68 70 eP 04 48.10 -3.0  
MTU 2.69 96 eP 04 48.94 -2.3  
TTA 2.94 332 eP 04 52.32 -2.3  
HUR 3.05 30 eP 04 53.90 -2.1  
SCM 3.10 60 iPc 04 53.88 -2.8  
HIN 3.21 87 eP 04 55.64 -2.5  
eS 05 32.78  
VZW 3.22 75 eP 04 54.90 -3.4  
eS 05 33.23  
KTH 3.32 16 eP 04 57.47 -2.2  
TRF 3.33 21 eP 04 57.78 -2.0  
VLZ 3.34 74 eP 04 56.72 -3.0  
eS 05 36.63

MID 3.48 103 P 04 59.60 -1.9  
CVA 3.58 84 eP 05 00.84 -2.1  
RND 3.60 31 eP 05 00.86 -2.5  
KLU 3.62 69 ePc 05 00.36 -3.1  
TOA 3.71 59 P 05 02.50 -2.2  
DHY 3.79 42 ePc 05 03.44 -2.5  
eS 05 47.62

SGAM 3.85 85 P 05 02.50 -4.0  
MCK 3.86 28 eP 05 04.85 -1.8  
TZL 4.01 62 eP 05 05.81 -2.9  
RAGM 4.12 86 eP 05 07.93 -2.2  
BWN 4.14 22 eP 05 08.37 -2.0  
HMT 4.33 87 eP 05 10.77 -2.1  
PAX 4.42 51 ePc 05 11.88 -2.3  
NEA 4.58 22 eP 05 13.60 -2.7  
GLB 4.60 73 eP 05 13.63 -2.9  
WRH 4.69 27 eP 05 15.03 -2.7  
DDM 4.78 41 ePc 05 17.97 -1.0  
MLY 4.78 11 eP 05 16.50 -2.5  
HDA 4.91 32 iPc 05 18.12 -2.6  
DJE 5.00 40 eP 05 19.90 -2.0  
TGL 5.02 81 eP 05 20.07 -2.2  
SNH 5.05 88 P 05 20.90 -1.7  
MDM 5.08 23 iPc 05 20.53 -2.5  
FBA 5.12 26 iPc 05 20.48 -3.1  
ILB 5.22 30 eP 05 21.99 -2.9  
eS 06 19.64  
ILI 5.22 30 eP 05 21.88 -3.0  
BALM 5.26 78 eP 05 22.53 -3.0  
GLM 5.28 27 ePc 05 22.88 -2.9  
TMW 5.57 54 eP 05 27.17 -2.4  
YAH 5.57 85 P 05 28.30 -1.5  
IM3 5.63 357 eP 05 28.05 -2.4  
IMA 5.72 357 P 05 29.50 -2.2  
CTGM 5.75 79 eP 05 30.30 -1.9  
BC3 5.96 58 eP 05 32.40 -2.5  
PRP 6.17 30 eP 05 34.92 -2.9  
SDN 6.45 222 P 05 38.20 -3.4  
FYU 7.10 26 eP 05 47.19 -3.2  
ANM 7.11 311 P 05 50.90 0.4  
BM3 7.96 24 eP 05 57.17 -4.8  
YKA 18.28 67 P 08 10.00 -3.2  
0.4s 2.90nm 3.9mb  
99 obs. associated

JAN 11, 1994 22h 35m 53.70± 0.91s  
40.704 N ± 7.6km 29.958 E ± 6.9km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

EYL 0.20 132 iPg 35 58.20 0.0  
HRT 0.25 298 iPg 35 59.00 0.0  
GBZT 0.40 282 ePg 36 01.90 0.0  
ISg 36 07.40  
IZI 0.52 225 iPg 36 04.00 -0.3  
ISg 36 11.00  
ISK 0.77 298 iPg 36 08.50 -0.2  
ISg 36 18.50  
CTT 1.24 291 iPn 36 17.00 0.3  
DST 1.50 223 ePn 36 21.00 0.3  
EDC 1.64 258 ePn 36 23.00 0.4  
KGT 2.04 264 ePn 36 28.00 -0.4  
S.D. = 0.3 on 9 of 9 obs.

\* JAN 11, 1994 23h 10m 14.82± 2.27s  
35.766 N ± 18.2km 22.259 E ± 16.2km

DEPTH = 33.0km (normal)  
CENTRAL MEDITERRANEAN SEA (400)  
MD 3.7 (ATH).

VLI 1.10 30 ePn 10 36.10 2.2  
VAM 1.62 102 ePn 10 41.10 -0.4  
VLS 2.75 331 ePn 11 00.00 2.4  
NPS 2.78 99 ePb 11 04.50 6.5X  
AGG 3.25 1 ePn 11 05.08 0.4  
IGT 4.06 338 ePn 11 14.72 -1.4  
PAIG 4.30 15 ePn 11 19.80 0.2  
LIT 4.33 2 ePn 11 20.56 0.5  
KZN 4.55 355 ePn 11 23.00 -0.2  
OUR 4.76 16 ePn 11 26.20 0.2  
FNA 5.06 352 ePn 11 29.96 -0.4  
SOH 5.12 9 ePn 11 31.20 -0.1  
GRG 5.18 1 ePn 11 31.20 -0.9  
KNT 5.41 5 ePn 11 34.84 -0.4  
SRS 5.44 11 iPn 11 34.60 -1.2  
VAY 5.55 2 ePn 11 36.30 -0.9  
S.D. = 1.2 on 15 of 16 obs.

? JAN 12, 1994 00h 27m 16.88± 0.78s  
25.138 N ± 9.9km 97.261 E ± 9.7km  
DEPTH = 33.0km (normal)  
3.9mb ( 2 obs.)

MYANMAR-CHINA BORDER REGION (297)

SHL 4.88 276 eP 28 31.00 0.9  
eS 29 18.50  
KMI 4.97 89 ePn 28 34.00 2.6  
Pg 28 47.40  
Sg 29 52.00  
CHTO 6.48 166 ePn 28 52.50 0.0  
iPg 29 16.70  
iSg 30 42.60  
LSA 7.08 311 Pn 29 02.00 0.7  
BDT 8.02 168 eP 29 12.50 -1.5  
0.8s 23.40nm 5.3mb X  
GYA 8.58 79 P 29 14.00 -7.9X  
GUN 10.56 288 P 29 43.20 -6.2X  
PKI 10.90 285 P 29 48.40 -5.6X  
KKN 11.05 286 P 29 50.20 -5.8X  
DMN 11.17 285 P 29 51.60 -6.1X  
GKN 11.65 287 P 29 57.40 -6.7X  
0.5s 20.00nm 5.5mb X  
BTO 18.74 32 eP 31 33.00 -2.3  
N 11s 0.52um  
E 12s 0.58um  
HYB 19.04 250 eP 31 39.00 0.0  
WMQ 20.21 340 eP 31 51.30 -0.5  
1.0s 6.90nm 4.0mb  
pP 32 01.00 39kmX  
WRA 57.52 138 P 37 05.70 0.1  
0.8s 1.00nm 3.9mb  
S.D. = 1.6 on 9 of 15 obs.

JAN 12, 1994 01h 00m 24.68± 0.25s  
30.511 N ± 4.3km 131.637 E ± 3.8km  
DEPTH = 44.7km ( 10 depth phases)  
5.0mb ( 42 obs.) 4.6Msz ( 4 obs.)  
KYUSHU, JAPAN (235)

KAGJ 0.93 316 P 00 41.80 0.3  
S 00 56.50  
KUMJ 2.13 341 P 00 58.80 0.3  
SHNJ 3.63 353 P 01 19.20 -0.6  
eS 02 00.40  
TKSJ 4.02 30 eP 01 24.00 -1.4  
eS 02 08.80  
TKSJ 4.02 30 P 01 24.20 -1.2  
SHK 4.10 12 eP 01 25.90 -0.7  
YONJ 4.91 18 P 01 37.10 -0.8  
eS 02 30.90  
WKYJ 4.99 41 P 01 36.90 -2.1  
S 02 30.50  
TSRJ 6.20 35 P 01 54.70 -1.3  
eS 03 00.40  
IIDJ 7.23 45 eP 02 07.50 -3.1  
eS 03 24.40  
MAT 8.14 41 (P) 02 21.00 -2.1  
0.8s 10.45nm 4.8mb  
CHJJ 8.27 46 P 02 23.60 -1.3  
SSE 9.01 276 P 02 34.00 -1.0  
1.0s 130.00nm 6.0mb  
Z 20s 1.80um 4.5MszX  
N 14s 0.70um



12d 01h

E 14s	2.60um				PKI	40.31 278 P	07 59.50 -0.3	LPBZ	157.04 56 PKP	20 19.80 1.9	
	sP	02 46.20				1.0s	34.00nm		5.1mb		
NJ2	11.04 281 Pc	03 02.50 -0.4			KKN	40.36 278 P	08 00.00 -0.1	LPB	157.23 57 ePKP	20 17.00 -0.8	
	1.0s	26.00nm	5.3mb			1.0s	30.00nm		5.0mb		
Z 16s	1.74um	4.5Msz			DMN	40.56 278 P	08 01.20 -0.6	SIV	161.44 42 PKP	20 23.90 2.0	
N 12s	1.63um				GKN	40.85 279 P	08 03.30 -0.8	MOCB	161.95 63 PKP	20 24.20 1.3	
E 14s	1.60um				HYB	49.82 268 eP	09 14.00 -1.5	S.D. = 1.1 on 86 of 88 obs.			
SNY	13.03 332 Pd	03 31.90 2.5			WB2	50.23 177 iPc	09 16.80 -1.6	& JAN 12, 1994 04h 35m 51.64s			
Z 16s	3.05um					0.9s	18.70nm		5.1mb		
N 14s	0.99um						i	09 29.60 47km			
E 14s	1.89um				WRA	50.23 177 P	09 17.10 -1.3	59.230 N 153.930 W			
TIA	13.39 299 Pc	03 34.40 0.2				0.8s	11.70nm		5.0mb		
CN2	14.15 341 eP	03 48.40 4.3X			ANM	51.33 30 eP	09 27.40 1.2	DEPTH = 118.8km			
	1.0s	14.00nm	4.6mb		GBA	52.49 264 Pd	09 35.20 -0.4	SOUTHERN ALASKA			
Z 16s	2.13um	5.4Msz				1.0s	5.00nm		4.5mb		
N 13s	1.40um				ASPA	53.91 177 iPd	09 44.70 -1.2	<AEIC>.			
E 13s	1.00um					0.8s	19.00nm		5.2mb		
	eP	03 51.80			TTA	55.33 32 eP	09 56.30 0.3	AUW	0.27 59 ePc	36 07.91 0.9	
	eS	06 28.00			SVW	55.53 34 eP	09 58.30 0.9	AUI	0.28 68 ePc	36 07.75 0.7	
BJI	15.79 311 eP	04 06.00 0.6				1.7s	80.00nm		5.5mb		
	1.1s	59.00nm	4.7mb		IMA	56.34 28 eP	10 03.60 0.3		eS	36 20.62	
Z 14s	2.65um					1.3s	15.00nm		4.9mb		
N 14s	0.79um				WARB	56.58 185 eP	10 05.00 -0.2	AUH	0.28 62 ePc	36 07.99 0.8	
E 14s	1.12um					0.8s	24.00nm		5.3mb		
BAG	17.30 218 eP	04 25.00 0.2			CP2	57.16 34 eP	10 09.75 0.5	AGU	0.29 63 eP	36 08.27 1.0	
TIY	17.43 299 eP	04 26.30 0.1			CRP	57.20 34 eP	10 09.99 0.5	AUP	0.29 63 eP	36 07.72 0.5	
	1.0s	93.00nm	4.9mb		PWA	58.26 33 eP	10 16.40 -0.2	AUE	0.31 65 ePc	36 08.13 1.0	
Z 15s	2.01um	4.4MszX				0.8s	42.30nm		5.6mb		
E 15s	1.07um				PMR	58.62 33 eP	10 18.57 -0.6	CDD	0.34 154 iPc	36 07.83 -1.0	
	sP	04 43.00				0.9s	33.81nm		5.5mb		
HHC	19.25 308 Pc	04 47.60 -0.7			FBA	58.85 29 eP	10 21.10 0.3		eS	36 20.87	
	1.0s	41.00nm	4.6mb		MAIO	59.23 297 eP	10 26.00 2.1	OPT	0.55 40 iPc	36 09.26 -0.8	
Z 16s	2.38um				DZM	62.06 143 iPc	10 42.80 -0.4		eS	36 23.30	
N 14s	1.04um				STK	62.77 170 eP	10 46.50 -1.1	PDB	0.58 347 ePd	36 09.26 -0.9	
E 13s	0.79um					0.8s	12.20nm		5.3mb		
	S	08 12.50			ARMA	63.51 161 eP	10 51.30 -1.4		eS	36 28.41	
XAN	19.52 286 P	04 49.00 -2.3				0.9s	6.00nm		4.7mb		
	1.5s	41.00nm	4.5mb		BWA	66.50 165 iPd	11 12.00 0.1	RS2	1.37 25 ePd	36 16.80 -1.3	
Z 14s	3.04um	4.3MszX			CAN	67.49 165 iPd	11 17.50 -0.6		eS	36 35.02	
E 14s	2.41um				TOO	68.96 168 eP	11 27.30 0.1	RSO	1.37 25 eP	36 16.82 -1.3	
	pP	04 56.00 28kmX				0.9s	38.00nm		5.4mb		
	sP	05 00.50			DAG	71.41 353 iPd	11 41.10 -0.5	RDW	1.38 24 iPd	36 16.79 -1.4	
	S	08 28.00				0.7s	4.79nm		4.6mb		
BTO	20.22 306 P	04 57.50 -1.1			YKA	73.38 26 eP	11 52.50 -0.9	REF	1.41 26 ePd	36 17.07 -1.4	
	1.0s	67.00nm	4.9mb			1.0s	2.90nm		4.2mb		
N 15s	1.15um				HFS	76.41 333 eP	12 11.30 0.5	CNPM	1.41 77 ePc	36 16.54 -1.8	
E 15s	1.63um					0.6s	0.80nm		3.9mb X		
	pP	05 09.00 50km			SPC	79.94 322 eP	12 31.30 0.7	NCT	1.43 20 ePd	36 17.26 -1.4	
	eS	08 40.50				e	12 42.80 38km		DFR	1.50 24 ePd	36 18.07 -1.4
GYA	22.30 266 iPc	05 19.20 -0.6			YBH	80.75 47 ePd	12 35.81 0.9	BRLK	1.64 70 eP	36 18.88 -2.2	
	1.0s	120.00nm	5.3mb			2.2s	80.00nm		5.3mb		
Z 20s	1.46um	4.4Msz			LBFM	81.48 47 eP	12 39.76 0.8	KDC	1.67 152 eP	36 19.74 -1.6	
N 16s	1.40um				WDC	81.48 48 ePd	12 39.30 0.6	BKG	2.03 24 eP	36 24.14 -1.8	
E 16s	0.85um					1.3s	20.00nm		5.0mb		
	pP	05 32.00 53km			ZST	82.20 322 e(P)	12 43.30 1.1	NKA	2.03 41 eP	36 26.56 0.7	
	S	09 22.00			MIN	82.21 48 ePd	12 42.70 0.0	SVW	2.07 337 eP	36 24.48 -1.9	
LZH	23.84 291 Pd	05 35.00 0.2				1.8s	30.00nm		5.0mb		
	1.4s	100.00nm	5.1mb		CLL	82.32 326 eP	12 43.00 0.2	SPU	2.17 25 eP	36 26.51 -1.2	
Z 18s	1.91um	4.6Msz				i	12 57.50 50km		BGL	2.18 20 eP	36 26.46 -1.4
E 13s	0.88um				ORV	82.71 48 iPd	12 45.19 0.1	CP2	2.21 22 eP	36 25.03 -3.3	
	pP	05 40.00 18kmX				1.0s	10.00nm		4.8mb		
	PP	06 08.00			ORV	82.71 48 eP	12 59.94 14.8X	CRP	2.23 23 P	36 27.10 -1.5	
	eS	09 45.00				1.8s	130.00nm		5.1mb		
CD2	23.95 278 P	05 35.80 0.0			BKS	83.16 50 ePd	12 48.06 0.6	SLKM	2.27 54 eP	36 26.50 -2.5	
	1.6s	120.00nm	5.2mb			1.3s	40.00nm		5.3mb		
KMI	26.08 265 Pc	05 56.80 0.6			GEC2	83.56 324 P	12 49.40 0.0	CGLM	2.29 24 eP	36 27.78 -1.6	
	0.8s	30.00nm	4.9mb			1.3s	2.02nm		4.0mb		
Z 20s	1.60um	4.6Msz				e	12 59.00 30km		5.1mb		
N 14s	0.70um					e	13 03.70		5.1mb		
E 14s	0.70um					e	13 09.10		5.1mb		
	pP	06 09.60 51km			GRF	84.24 326 eP	12 54.70 2.0	NCG	2.35 21 eP	36 28.99 -1.2	
	PP	06 07.20 -1.2				1.4s	22.00nm		5.1mb		
GTA	27.44 298 eP	06 07.20 -1.2				e	13 07.90 44km		5.1mb		
	1.0s	19.00nm	4.7mb		CMB	84.28 49 ePd	12 53.70 0.5	SKT	3.00 22 P	36 38.40 -0.2	
Z 14s	1.45um	4.7MszX				1.1s	10.00nm		4.8mb		
E 13s	0.52um				SAO	84.30 51 ePd	12 53.53 0.3	PWA	3.15 38 P	36 39.20 -1.4	
	pP	06 19.60 49km				1.3s	20.00nm		5.1mb		
	sP	06 25.00			LRM	84.41 39 eP	12 55.00 1.0	PWL	3.25 57 eP	36 38.78 -3.1	
YAK	31.54 358 iPc	06 45.00 0.5			TNP	86.30 48 eP	13 05.50 2.0	MTU	3.28 74 ePc	36 39.77 -2.5	
	e	06 55.00 36km				1.3s	27.55nm		5.3mb		
	e(S)	11 50.00			MSU	89.17 45 eP	13 18.82 1.5	PLRM	3.36 43 eP	36 41.17 -2.2	
CHTO	31.80 256 ePc	06 46.00 -1.3			PV09	91.00 43 eP	13 27.44 1.5	PMR	3.36 43 (P)	36 39.35 -4.0	
	1.0s	29.75nm	5.1mb		PV10	91.14 43 eP	13 28.11 1.6	KNK	3.49 49 eP	36 42.04 -3.2	
WMQ	37.03 303 P	07 31.00 -1.0			PV08	91.24 43 eP	13 27.75 0.7	KLU	4.58 57 eP	36 56.27 -3.7	
	1.2s	10.00nm	4.6mb		GOL	92.36 40 eP	13 33.79 1.7	FBA	6.38 24 eP	37 17.50 -7.0	
Z 18s	1.05um	4.7Msz			ALQ	94.97 44 (P)	13 46.00 1.9	47 obs. associated			
GUN	39.82 278 P	07 55.90 0.1			NVL	128.23 201 (PKP)	19 28.00 1.2	* JAN 12, 1994 05h 04m 44.98± 0.50s			
								15.583 S ±24.0km 173.023 W ±17.7km			
								DEPTH = 33.0km (normal)			
								4.9mb ( 11 obs.) 4.4Msz ( 1 obs.)			
								TONGA ISLANDS (173)			
								AFI	2.05 36 eP	05 16.00 -2.0	
								DZM	20.47 249 iPd	09 23.10 0.3	
								ARMA	35.56 239 iPd	11 40.60 -0.9	
									0.8s	20.00nm 5.1mb	
								TOO	42.63 231 eP	12 39.80 -0.3	



12d 05h

STK 0.9s 35.00nm 5.1mb  
44.26 240 eP 12 53.00 -0.3  
0.8s 17.00nm 4.9mb  
WB2 50.14 257 iPc 13 39.40 -0.2  
1.0s 11.50nm 4.9mb  
WRA 50.16 257 P 13 40.20 0.5  
ASPA 50.40 252 P 13 36.50 -5.1X  
ASPA 50.40 252 iPc 13 40.80 -0.8  
0.7s 42.30nm 5.6mb  
Z 21s 0.40um 4.4MsZ  
FORT 55.66 243 eP 14 20.40 -0.1  
WARE 56.92 249 eP 14 29.20 -0.5  
ARUT 77.07 45 eP 16 37.41 0.4  
RMW 77.67 33 (P) 16 40.89 1.0  
MSU 78.30 44 eP 16 44.27 0.4  
PV09 80.37 46 eP 16 55.44 0.3  
PV10 80.38 46 eP 16 55.01 -0.1  
LTX 80.41 56 eP 16 54.27 -1.0  
ALQ 80.64 50 eP 16 56.47 0.0  
1.0s 3.09nm 4.3mb  
PV08 80.74 46 eP 16 56.63 -0.5  
BGMT 81.87 39 eP 17 03.60 0.9  
BW06 82.17 42 eP 17 04.50 0.2  
1.3s 6.01nm 4.5mb  
FBA 82.51 11 eP 17 06.13 0.8  
0.8s 10.85nm 5.0mb  
BJI 85.86 313 eP 17 26.00 3.3X  
1.0s 8.00nm 4.9mb  
RSSD 86.35 42 eP 17 24.68 -0.7  
1.2s 7.51nm 4.8mb  
MEO 86.49 53 iPd 17 25.80 -0.2  
YKA 90.12 23 eP 17 42.90 0.2  
0.7s 0.90nm 4.2mb  
PRU 145.14 351 ePKP 24 23.00 2.3  
e 24 31.50  
KHC 146.11 352 ePKP 24 25.00 2.6X  
1.1s 6.30nm  
e 24 33.00  
e 24 41.30  
e 24 57.50  
FLN 146.35 9 ePKP 24 31.50 8.8X  
GEC2 146.37 352 PKP 24 25.60 2.7X  
0.9s 0.46nm  
e 24 28.20  
e 24 40.20  
GRR 146.66 10 ePKP 24 32.00 8.8X  
SSF 148.48 5 ePKP 24 41.50 15.3X  
1.0s 7.80nm  
LBF 148.59 4 ePKP 24 41.60 15.1X  
1.1s 11.50nm  
MAF 149.23 6 ePKP 24 43.50 16.1X  
S.D. = 0.9 on 25 of 34 obs.  
\* JAN 12, 1994 05h 08m 37.05s  
33.988 N 118.501 W  
DEPTH = 2.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. MD 2.2 (PAS). Felt.  
SSK 0.71 71 eP 08 51.68 0.5  
S 09 03.22  
ABL 1.05 326 eP 08 55.33 -2.3  
PEC 1.12 95 eP 08 57.71 -1.0  
eS 09 12.93  
PLM 1.51 114 eP 09 03.43 -1.8  
eS 09 24.13  
GSC 1.92 46 eP 09 10.54 -0.5  
5 obs. associated  
\* JAN 12, 1994 06h 29m 49.28± 0.58s  
61.017 S ± 9.2km 62.778 W ± 17.0km  
DEPTH = 10.0km (geophysicist)  
5.0mb (10 obs.) 4.8MsZ (1 obs.)  
DRAKE PASSAGE (149)  
SNA 25.43 137 iPc 35 17.00 -1.1  
0.8s 62.69nm 5.4mb  
CFA 29.64 351 e(P) 35 55.50 -1.3  
NVL 29.91 140 iPc 35 59.00 0.3  
1.0s 46.00nm 5.3mb  
PPD 39.77 17 eP 37 22.80 -0.9  
MOCB 39.78 356 P 37 25.30 0.9  
LPB 44.59 353 iPc 38 04.40 0.8  
1.1s 81.01nm 5.5mb  
Z 20s 1.06um 4.8MsZ  
LR 53 28.00  
LPAZ 44.84 353 iPc 38 05.80 0.0

i 39 48.80  
LR 52 52.00  
ARE 44.94 348 eP 38 07.00 0.8  
SIV 44.98 2 P 38 05.70 -0.6  
BAO 46.56 20 eP 38 18.20 -0.6  
BUL 73.27 101 eP 41 22.80 0.3  
LIC 80.54 58 P 42 03.53 0.6  
1.0s 13.50nm 4.9mb  
KIC 80.78 59 P 42 04.69 0.5  
0.9s 19.00nm 5.1mb  
TIC 80.93 58 P 42 05.47 0.5  
1.0s 8.00nm 4.7mb  
LKO 83.31 57 Pd 42 18.06 0.7  
1.0s 20.00nm 5.3mb  
STK 85.32 201 eP 42 31.20 3.9X  
0.7s 3.60nm 4.7mb  
WB2 98.15 196 eP 43 25.90 -1.5  
1.0s 2.40nm 4.8mb  
WRA 98.15 196 P 43 29.50 2.0  
0.6s 0.40nm 4.2mb  
GEC2 125.48 52 PKP 48 50.40 -0.7  
1.0s 4.11nm  
e 48 54.20  
e 48 58.60  
e 49 05.10  
YKA 129.33 332 ePKP 48 57.20 -0.7  
0.9s 2.70nm  
S.D. = 1.0 on 19 of 20 obs.  
\* JAN 12, 1994 06h 34m 40.88± 5.84s  
15.751 N ± 18.1km 60.291 W ± 58.7km  
DEPTH = 33.0km (normal)  
LEEWARD ISLANDS (92)  
DEG 0.93 307 eP 34 57.60 0.0  
S 35 08.50  
DOG 1.31 283 eP 35 02.98 0.0  
FDF 1.31 219 eP 35 03.02 0.0  
S 35 18.10  
MVM 1.33 206 eP 35 03.23 0.0  
S 35 18.50  
S.D. = 0.0 on 4 of 4 obs.  
JAN 12, 1994 06h 36m 30.85± 0.46s  
43.208 N ± 7.0km 82.798 E ± 8.2km  
DEPTH = 10.0km (geophysicist)  
4.5mb (13 obs.)  
NORTHERN XINJIANG, CHINA (332)  
WMQ 3.61 79 iPnc 37 31.00 2.9  
Sn 38 12.50  
GTA 13.34 101 eP 39 40.60 -2.3  
0.8s 4.00nm 4.5mb  
pP 39 52.00  
GKN 15.25 174 P 40 07.90 0.0  
GUN 15.47 170 P 40 10.50 -0.5  
KKN 15.52 172 P 40 12.80 1.3  
DMN 15.68 172 P 40 13.40 -0.2  
PKI 15.75 171 P 40 14.00 -0.6  
BTO 20.40 88 eP 41 08.80 -1.8  
CD2 20.68 119 eP 41 13.60 0.1  
HHC 21.46 86 P 41 21.40 0.0  
1.0s 23.00nm 4.5mb  
TIY 23.14 94 Pd 41 39.00 0.9  
Z 22s 0.39um 3.8MsZ  
GYA 25.61 123 P 42 03.00 0.9  
1.0s 24.00nm 4.8mb  
KAF 37.64 320 iP 43 49.00 1.8  
NUR 38.39 317 iP 43 55.20 1.6  
HFS 43.85 318 eP 44 38.70 0.2  
0.4s 0.60nm 3.8mb  
DAG 50.94 343 iPc 45 34.00 0.2  
0.5s 2.82nm 4.5mb  
LPG 52.49 301 eP 45 45.10 -1.2  
0.8s 6.45nm 4.6mb  
LPL 52.49 301 eP 45 44.40 -1.8  
0.8s 7.95nm 4.7mb  
IMA 62.73 22 eP 46 56.78 -1.3  
0.6s 2.65nm 4.6mb  
FBA 65.23 21 eP 47 13.21 -1.0  
0.7s 3.76nm 4.7mb  
INK 65.53 14 eP 47 24.00 8.0X  
1.0s 2.00nm 4.3mb  
YKA 73.72 8 eP 48 04.90 -1.3  
0.5s 1.20nm 4.2mb  
WRA 78.67 131 P 48 35.20 0.5  
0.6s 1.10nm 4.1mb

WB2 78.67 131 iPd 48 34.60 -0.1  
0.4s 3.90nm 4.8mb  
RSSD 92.84 5 (P) 49 45.15 0.1  
ARE 145.51 313 ePKP 56 13.00 1.6  
S.D. = 1.3 on 25 of 26 obs.  
\* JAN 12, 1994 07h 18m 03.21± 1.57s  
36.698 N ± 13.3km 22.389 E ± 11.3km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN GREECE (368)  
ML 3.6 (ATH), 3.4 (THE).  
VLI 0.44 87 ePg 18 13.70 1.5  
ATH 1.65 39 ePg 18 39.00 6.6X  
VLS 2.06 316 ePn 18 40.30 2.1  
AGG 2.32 359 iPn 18 43.66 1.6  
eSn 19 12.26  
NPS 2.98 118 ePn 18 50.20 -1.2  
IGT 3.26 331 ePn 18 54.02 -1.4  
eSn 19 35.22  
PAIG 3.38 17 iPn 18 57.14 0.1  
LIT 3.40 1 ePn 18 57.90 0.6  
eSn 19 41.80  
OUR 3.84 19 iPn 19 03.54 0.0  
FNA 4.16 349 ePn 19 07.98 -0.1  
SOH 4.19 10 ePn 19 08.30 -0.2  
GRG 4.25 0 ePn 19 08.18 -1.3  
KNT 4.47 5 ePn 19 11.82 -0.8  
SRS 4.51 12 iPn 19 12.33 -0.8  
OHR 4.58 345 ePn 19 10.00 -4.1X  
S.D. = 1.3 on 13 of 15 obs.  
\* JAN 12, 1994 07h 25m 03.54± 0.42s  
46.675 N ± 6.1km 9.909 E ± 4.1km  
DEPTH = 10.0km (geophysicist)  
SWITZERLAND (544)  
ML 2.9 (VIE), 2.9 (LDG), 2.8 (FUR).  
OGA 0.79 75 iPg 25 18.30 -0.8  
SQTa 1.04 58 iPg 25 22.50 -0.8  
iSg 25 42.00  
MOTA 1.06 50 iPg 25 23.00 -0.6  
i 25 44.70  
SCE 1.29 73 iPd 25 27.10 -0.5  
WATA 1.32 59 iPg 25 27.60 -0.4  
iSg 25 50.80  
WTTA 1.32 63 iPg 25 27.90 -0.2  
iSg 25 51.90  
FUR 1.76 31 ePg 25 36.60 2.4  
FEL 1.76 314 ePn 25 33.50 -0.9  
KBA 2.39 79 iPg 25 45.60 2.1  
iSg 26 21.50  
BSF 2.42 300 Pn 25 43.40 -0.4  
Pg 25 51.90  
Sn 26 13.60  
CDF 2.49 315 Pn 25 44.30 -0.5  
Sn 26 12.70  
LPG 2.49 243 Pn 25 46.00 0.9  
Sn 26 18.90  
LPL 2.50 243 Pn 25 46.20 1.2  
Sn 26 18.50  
HAU 2.76 300 Pn 25 48.60 -0.1  
Sn 26 21.10  
SBF 3.31 213 Pn 25 55.90 -0.6  
Sn 26 35.80  
KHC 3.48 44 ePg 26 10.00 11.1X  
0.8s 5.00nm  
eSn 26 41.50  
eSg 26 58.00  
FRF 3.88 218 Pn 26 04.50 0.1  
LRG 4.08 219 Pn 26 06.30 -1.0  
LMR 4.12 217 Pn 26 07.50 -0.3  
SMF 4.18 272 Pn 26 09.40 0.7  
PRU 4.53 41 Pg 26 30.50 16.8X  
Sg 27 26.00  
e 27 48.50  
S.D. = 1.0 on 19 of 21 obs.  
\* JAN 12, 1994 07h 27m 34.98s  
33.984 N 118.504 W  
DEPTH = 11.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.6 (PAS), 3.5 (GS).  
Felt (IV) at Venice. Felt in the  
western part of Los Angeles  
County.



12d 07h

SSK 0.71 71 eP 27 47.93 -1.1  
 i 27 49.11  
 FTC 0.94 340 P 27 51.84 -1.0  
 RYS 0.96 313 P 27 52.31 -1.0  
 ABL 1.05 326 iPd 27 53.26 -1.6  
 i 27 54.06  
 PLEC 1.09 335 P 27 54.84 -0.6  
 PEC 1.12 94 eP 27 54.93 -1.0  
 TEJ 1.25 353 P 27 56.22 -2.0  
 SYP 1.34 294 P 27 58.34 -1.3  
 TMB 1.39 323 P 27 59.97 -0.4  
 PLM 1.51 114 ePd 28 00.61 -1.5  
 WOFM 1.56 354 P 28 02.50 -0.3  
 CRGC 1.61 322 P 28 03.16 -0.3  
 SCCM 1.68 305 P 28 03.77 -0.6  
 WORM 1.72 7 P 28 05.13 0.0  
 BCH 1.77 313 eP 28 05.05 -0.8  
 TOW 1.92 18 P 28 08.23 0.3  
 GSC 1.92 46 eP 28 07.68 -0.3  
 WCHM 1.93 10 P 28 08.05 -0.2  
 WLHM 2.17 4 P 28 11.50 -0.3  
 PTRM 2.18 320 P 28 10.98 -0.7  
 PHAM 2.42 320 eP 28 13.47 -1.6  
 PANM 2.67 313 P 28 17.10 -1.5  
 GLA 3.21 106 eP 28 27.42 1.1  
 BMSM 3.26 326 P 28 25.71 -1.4  
 MTUM 3.36 359 eP 28 27.95 -0.7  
 TPNV 3.48 31 eP 28 30.40 0.1  
 BPOM 3.49 311 P 28 27.81 -2.4  
 BPRM 3.58 313 P 28 29.47 -2.2  
 MPMF 3.64 353 (P) 28 31.96 -0.8  
 MRCM 3.68 360 ePn 28 33.77 0.5  
 MEMM 3.69 355 eP 28 33.90 0.8  
 BONR 3.97 2 eP 28 37.65 0.3  
 JBZM 4.04 319 P 28 39.11 1.1  
 COE 4.16 323 eP 28 37.59 -2.2  
 ARN 4.17 325 eP 28 37.39 -2.5  
 TNP 4.22 14 eP 28 40.93 0.1  
 CMB 4.32 340 eP 28 40.58 -1.6  
 ARUT 5.59 46 eP 29 00.81 0.5  
 MSU 6.82 47 eP 29 18.02 0.3  
 DUG 7.69 35 (Pn) 29 31.12 1.5  
 0.8s 3.36nm 4.6mb X  
 ePg 29 59.00  
 PV09 8.81 57 (P) 29 46.45 1.0  
 41 obs. associated

\* JAN 12, 1994 08h 27m 34.02± 0.68s  
 48.624 N ± 7.4km 9.449 E ± 6.6km  
 DEPTH = 10.0km (geophysicist)  
 GERMANY (543)  
 ML 3.1 (FUR), 2.9 (LDG), 2.8 (VIE).

TOD 1.07 337 ePn 27 53.70 -0.5  
 KTD 1.14 308 ePn 27 59.40 4.0X  
 FEL 1.22 233 ePn 27 56.80 0.0  
 FUR 1.30 110 ePg 27 56.00 -2.1  
 CDF 1.46 262 Pg 28 03.80 3.3X  
 Sg 28 24.80  
 GRF 1.58 47 iPg 28 00.00 -2.1  
 iSg 28 17.70  
 MOTA 1.69 138 iPg 28 04.60 0.7  
 iSg 28 26.20  
 ABH 1.77 316 ePn 28 08.00 3.1X  
 SQTA 1.84 139 iPg 28 04.00 -2.0  
 iSg 28 25.20  
 RUP 1.90 305 ePn 28 11.20 4.3X  
 WATA 1.92 131 iPg 28 08.50 1.2  
 iSg 28 32.40  
 BSF 1.95 247 Pn 28 08.30 0.8  
 Pg 28 13.00  
 Sg 28 39.80  
 WTTA 2.00 132 iPg 28 09.70 1.3  
 iSg 28 35.30  
 HAU 2.16 255 Pn 28 09.80 -0.8  
 Pg 28 16.90  
 Sg 28 45.60  
 HOF 2.32 42 eP 28 13.10 0.3  
 WET 2.32 76 iPg 28 14.60 1.7  
 MOX 2.47 34 ePg 28 16.50 1.6  
 eSg 28 45.20  
 KHC 2.77 78 Pn 28 15.00 -4.3X  
 ePg 28 21.50  
 eSn 28 42.00  
 eSg 28 53.50  
 CLL 3.53 39 ePg 28 37.00 7.0X

PRU 3.60 66 eSg 29 18.00  
 ePn 28 37.50 6.5X  
 eSg 29 21.00  
 LPL 3.62 212 Pg 28 42.80 11.3X  
 LOR 3.99 252 Pg 28 51.00 14.4X  
 Sg 29 43.50  
 LBF 4.04 248 Pg 28 52.00 14.8X  
 Sg 29 45.00  
 SMF 4.28 245 Pg 28 55.80 15.2X  
 Sg 29 52.80  
 SSF 4.30 251 Pg 28 57.40 16.5X  
 Sg 29 53.50  
 AVF 4.51 248 Pg 29 01.00 17.2X  
 Sg 30 00.10  
 BGF 4.92 248 Pg 29 07.40 17.6X  
 S.D. = 1.5 on 13 of 27 obs.

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 \* JAN 12, 1994 08h 46m 45.95± 0.89s  
 39.151 N ± 7.1km 27.556 E ± 11.4km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

IZM 0.79 197 ePg 47 01.70 0.0  
 eSg 47 13.20  
 DST 0.95 61 ePn 47 04.30 -0.2  
 EDC 1.22 11 ePn 47 09.00 -0.1  
 KGT 1.31 352 iPn 47 10.70 0.0  
 IZI 1.89 51 ePn 47 19.60 0.3  
 S.D. = 0.3 on 5 of 5 obs.

-----  
 \* JAN 12, 1994 10h 00m 25.62± 3.14s  
 33.387 S ± 8.0km 70.814 W ± 10.4km  
 DEPTH = 75.9 ± 32.5 km  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.5 (SAN).

PEL 0.27 24 iP 00 37.81 0.3  
 iS 00 47.35  
 TACH 0.29 201 eP 00 37.41 -0.1  
 eS 00 46.63  
 PCH 0.34 133 eP 00 37.95 0.0  
 iS 00 47.23  
 FCH 0.44 82 iP+ 00 39.10 0.1  
 iS 00 49.29  
 ROCH 0.45 338 iP 00 38.39 -0.6  
 iS 00 50.16  
 LCCH 0.64 262 iPd 00 41.19 0.7  
 iS 00 53.16  
 JACH 0.73 15 iP 00 41.59 0.0  
 iS 00 54.16  
 CACH 0.75 166 iP 00 42.03 0.2  
 iS 00 55.34  
 LNV 0.76 221 iP+ 00 41.23 -0.5  
 S.D. = 0.5 on 9 of 9 obs.

-----  
 \* JAN 12, 1994 10h 04m 24.12± 0.71s  
 31.233 S ± 10.5km 68.858 W ± 13.0km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.26 169 ePd 04 38.50 -0.6  
 RTLL 0.35 106 ePd 04 39.20 0.0  
 ZON 0.35 154 iPd 04 39.20 0.0  
 eS 05 00.70  
 CFA 0.65 125 iPd 04 41.60 0.2  
 S 04 55.00  
 RTCV 0.68 156 iPg 04 42.00 0.3  
 S 04 54.30  
 RTRS 1.18 334 iPg 04 47.00 0.2  
 RTPR 2.22 66 eP 05 00.00 -0.1  
 S.D. = 0.4 on 7 of 7 obs.

-----  
 JAN 12, 1994 10h 10m 25.89± 0.27s  
 57.940 S ± 7.9km 25.655 W ± 9.1km  
 DEPTH = 33.0km (normal)  
 5.2mb (12 obs.) 5.5msz (1 obs.)  
 SOUTH SANDWICH ISLANDS REGION (153)  
 Mw 5.3 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 21S, 27C  
 Centroid Location:  
 Origin Time 10:10:33.8 0.4  
 Lat 58.04S 0.06 Lon 24.65W 0.08  
 Dep 47.8 4.1 Half-duration 1.5  
 Moment Tensor; Scale 10\*\*17 Nm

Mrr= 1.03 0.06 Mtt=-0.15 0.07  
 Mff=-0.88 0.06 Mrt=-0.14 0.09  
 Mrf=-0.03 0.12 Mtf= 0.19 0.08  
 Principal Axes:  
 T Val= 1.05 Plg=83 Azm=166  
 N -0.12 7 346  
 P -0.93 0 76  
 Best Double Couple: Mo=1.0\*10\*\*17  
 NP1: Strike=174 Dip=45 Slip= 100  
 NP2: 339 45 80

SNA 15.89 151 iPd 14 08.50 0.2  
 0.8s 86.57nm 5.0mb  
 NVL 20.23 144 eP 15 01.00 0.7  
 1.4s 69.00nm 4.8mb  
 Z 16s 6.00um 5.0mszX  
 E 16s 5.00um

SYO 29.57 138 ePc 16 27.00 -2.2  
 RSTA 37.22 323 eP 17 36.60 0.9  
 MAW 38.13 142 P 17 45.79 2.8  
 VAO 38.14 327 (P) 17 45.00 1.4  
 PPD 40.40 322 eP 18 03.90 1.6  
 BAO 45.42 329 eP 18 44.60 1.3  
 BDFB 45.42 329 eP 18 44.17 0.9  
 1.2s 56.79nm 5.4mb  
 LBTE 48.81 70 eP 19 10.00 0.3  
 1.0s 26.63nm 5.2mb  
 SIV 49.48 313 P 19 13.80 -1.1  
 SLR 49.57 73 eP 19 14.00 -1.7  
 1.0s 20.00nm 5.1mb  
 Z 18s 4.12um 5.5msz  
 BFT 50.52 75 eP 19 25.00 2.0  
 1.0s 30.00nm 5.2mb  
 LPB 51.92 305 P 19 33.60 -0.3  
 LR 32 50.00  
 LPAZ 52.15 305 iPg 19 34.70 -1.2  
 LR 31 28.00  
 ARE 53.50 301 eP 19 45.00 -0.5  
 BUL 54.39 70 iPd 19 49.80 -2.1  
 MTD 58.72 70 iPg 20 05.90 -16.8X  
 i 20 23.80  
 LIC 66.10 23 Pc 21 11.63 0.0  
 0.7s 24.50nm 5.4mb  
 KIC 66.29 23 Pc 21 12.87 0.0  
 1.1s 73.00nm 5.7mb  
 TIC 66.51 22 Pc 21 14.25 0.0  
 0.8s 30.50nm 5.5mb  
 LKO 69.22 21 Pc 21 31.32 0.1  
 0.5s 7.50nm 5.0mb  
 KDS 71.12 14 iP 21 43.00 0.3  
 SDV 75.94 314 eP 22 08.10 -3.0  
 TOO 84.56 173 eP 22 57.20 0.6  
 0.8s 22.00nm 5.4mb  
 CAN 86.99 176 eP 23 10.00  
 i 23 09.40 0.7  
 CNB 87.01 176 eP 23 11.30 2.4  
 STK 89.88 169 ePKP 23 22.50 0.0  
 8.0s 6.00nm 3.9mb X  
 ARMA 91.95 178 eP 23 29.90 -2.4  
 ASPA 96.93 161 iPKPc 23 54.50 -0.6  
 1.5s 6.30nm 4.9mb  
 ASPA 96.93 161 iPKP 24 11.20 16.1X  
 WRA 100.64 161 Pd diff 24 12.10 0.4  
 1.0s 0.50nm 4.0mb X  
 GEC2 111.26 27 Pd diff 25 00.50 2.1  
 0.8s 2.79nm

PV10 118.34 297 ePKP 29 10.42 -0.6  
 GSC 119.69 290 ePKP 29 13.48 0.0  
 MSU 119.94 295 ePKP 29 14.43 0.4  
 ARUT 119.99 294 ePKP 29 14.56 0.5  
 RSSD 120.63 305 ePKP 29 14.59 -0.5  
 DUG 121.57 296 ePKP 29 17.02 0.1  
 NST 121.84 113 ePKP 29 16.00 -1.8  
 BW06 122.05 300 ePKP 29 17.60 -0.3  
 BONR 122.52 291 ePKP 29 19.60 0.6  
 HVU 122.78 297 ePKP 29 19.48 0.3  
 CMB 123.62 289 ePKP 29 21.26 0.4  
 DMN 123.90 91 Pd diff 26 06.70 11.4X



	1.0s		96.00nm			5.0mb
	Z	18s	14.00um			3.9Msz
			pP	27	23.50	
			sP	27	29.00	
			eS	30	41.00	
POO	20.69	184	iPc	27	32.00	0.1
	1.0s		45.00nm			4.8mb
			iS	31	16.00	
HYB	21.91	172	eP	27	44.50	0.2
	1.0s		150.00nm			5.4mb
LZH	22.63	89	Pc	27	52.00	0.6
	2.0s		170.00nm			5.2mb
	Z	19s	8.40um			5.2Msz
	E	14s	10.30um			
			pP	27	56.50	16km
			sP	28	00.00	
			PP	28	18.00	
			eS	31	57.50	
			sS	32	03.50	
			SS	32	40.00	
TAB	22.77	276	iP+	27	55.00	2.2
			i	27	56.40	5km
IRK	23.77	47	eP	28	04.50	2.3
	1.5s		66.00nm			4.9mb
	Z	15s	5.32um			5.1Msz
	N	12s	4.16um			
	E	12s	5.01um			
			e	28	39.10	176km
			e	29	13.90	
			e	30	06.00	
			e	30	41.00	
			eS	32	16.00	
			e	33	42.00	
CD2	24.51	101	iPc	28	11.40	1.8
	1.4s		100.00nm			5.2mb
	Z	15s	7.96um			5.3Msz
	E	13s	6.30um			
GBA	25.60	176	P	28	22.00	2.0
			S	33	08.00	
BTO	26.42	76	eP	28	29.00	1.5
	0.9s		13.00nm			4.6mb
	N	14s	5.87um			
	E	15s	5.85um			
			sP	28	37.00	
KMI	26.89	113	eP	28	33.00	0.8
	0.8s		20.00nm			4.8mb
	Z	16s	6.80um			5.3Msz
	N	10s	3.30um			
	E	11s	1.90um			
			pP	28	40.40	26km
			sP	28	44.00	
			PP	29	18.40	
			S	33	09.00	
			sS	33	22.00	
XAN	27.22	91	P	28	35.00	0.1
	1.0s		13.00nm			4.5mb
	Z	16s	6.85um			5.3Msz
	N	14s	7.53um			
	E	13s	5.29um			
			pP	28	44.00	32km
			sP	28	49.00	
			PP	29	17.00	
HHC	27.54	75	P	28	42.60	4.8X
	1.4s		32.00nm			4.8mb
	Z	14s	5.33um			5.3Msz
			S	33	19.00	
CHTO	28.75	128	eP	28	52.00	3.3X
TIY	28.83	81	eP	28	54.00	4.6X
	Z	15s	11.00um			5.6Msz
	N	13s	5.40um			
GYA	28.98	107	iPc	28	55.00	4.1X
	1.2s		52.00nm			5.1mb
	Z	16s	4.00um			5.1Msz
	N	13s	4.77um			
	E	13s	2.71um			
BDT	29.99	130	eP	28	56.00	-3.9X
	1.0s		27.60nm			5.0mb
OBV	30.35	314	eP	29	02.50	-0.1
	1.3s		64.00nm			5.3mb
	N	16s	*****um			
	E	16s	1823.90um			
			epP	29	11.20	30km
			esP	29	15.90	
			i	29	31.50	
			e	29	45.50	
			(PP)			

BJI	31.15	75	eP	34	01.70	
	1.4s		12.00nm	29	13.00	3.2X
	Z 12s		5.13um			4.5mb
	N 14s		4.76um			5.4MsZx
WHN	32.83	93	eP	30	13.00	
	Z 16s		5.92um	29	22.00	-2.7
	N 15s		2.55um			5.4MsZx
	E 14s		4.76um			
TIA	32.86	82	Pc	34	36.00	
	Z 18s		5.00um	29	29.50	4.6X
	N 10s		1.20um			5.3MsZ
	E 10s		3.12um			
EYL	34.51	287	eP	34	44.00	
	HRT 34.82	288	eP	29	38.50	-0.8
	ALT 34.91	284	eP	29	41.60	-0.2
	IZI 35.07	287	eP	29	41.00	-1.7
NJ2	35.69	88	Pc	29	41.50	-2.6
	Z 18s		3.24um	29	54.00	4.7X
	N 15s		11.30um			5.1MsZ
	E 16s		3.15um			
DST	35.88	286	eP	35	30.00	
	VRI 36.06	297	ePc	29	50.20	-0.7
			e	29	53.50	1.2
			e	53	23.00	
ISR	36.29	296	eP	29	57.00	2.7X
			e	53	22.50	
	MLR 36.66	296	ePc	29	59.50	2.1
	CN2 37.22	66	eP	30	05.60	3.6X
	0.8s		4.70nm			4.4mb
	Z 14s		4.08um			5.4MsZx
	N 14s		4.74um			
	E 14s		3.14um			
CMP	37.32	296	ePd	30	14.50	30km
	KAF 37.37	324	iP	35	47.00	
	0.6s		7.80nm	30	04.00	1.1
				30	03.10	0.1
NUR	37.80	321	iP	30	06.70	0.1
	0.6s		13.20nm			5.0mb
	SSE 37.90	88	Pd	29	59.50	-8.3X
	1.2s		44.00nm			5.2mb
	Z 18s		5.80um			5.4MsZ
	N 14s		0.70um			
	E 14s		5.20um			
			pP	30	12.50	49kmX
SDF	38.96	332	eS	36	04.00	
	SRS 39.21	290	i(P)c	39	02.00	
	SOH 39.47	289	i(P)c	30	16.00	-0.4
	PAIG 39.47	288	i(P)c	30	18.80	0.0
YAK	39.67	37	eP	30	21.40	0.5
	1.3s		51.00nm	30	21.78	0.9
	Z 15s		7.40um	30	24.80	2.5
			iPcP			5.1mb
			ePP			5.6MsZx
			e	31	04.00	
			eS	32	14.00	
			iPS	33	40.00	
KNT	39.71	290	i(P)c	37	16.00	
	VAY 39.91	290	iP	38	26.00	
	1.3s		80.00nm	39	50.00	
			eSS	41	18.00	
MDJ	39.98	64	eP	42	57.00	
	Z 16s		7.08um	30	23.88	1.0
	N 12s		5.79um	30	25.00	0.5
	E 10s		2.92um			5.3mb
SPC	40.01	303	iPc	30	30.00	4.9X
	GRG 40.13	290	i(P)c	30	30.00	5.6MsZx
	LIT 40.30	289	i(P)c	36	34.00	
	SKO 40.56	292	iPc	39	20.00	
AGG	40.73	287	i(P)c	30	26.50	1.0
	UPP 41.20	320	iP	30	26.72	0.3
	OHR 41.25	291	eP	30	28.16	0.4
			i	30	30.00	0.1
OKC	41.29	304	Pc	30	31.72	0.4
	IGT 42.05	289	i(P)c	30	34.80	0.0
	ZST 42.22	302	eP	30	30.50	-5.1X
			i	32	10.20	559kmX
			eS	30	36.50	0.8
			eScS	30	41.36	-0.8
			eSS	30	43.50	0.1
			eSSS	32	21.00	536kmX



	0.9s	24.90nm		5.2mb
AVF	51.58	303 iPc	31 56.70	-0.3
	1.2s	121.40nm		5.7mb
PLDF	51.68	302 P	31 57.90	0.0
HYF	51.88	304 eP	31 59.30	0.0
BGF	51.99	303 iPc	31 59.60	-0.5
	0.8s	16.50nm		5.0mb
PYM	52.16	302 P	32 01.67	0.1
LBL	52.18	302 P	32 01.73	0.0
MAF	52.28	303 iPc	32 02.40	0.0
	1.0s	50.20nm		5.4mb
TCF	52.49	303 iPc	32 03.90	-0.1
	1.1s	59.10nm		5.4mb
EKA	52.81	315 P	32 06.00	-0.2
	1.0s	32.90nm		5.2mb
LSF	52.95	303 iPc	32 06.70	-0.1
	0.9s	26.35nm		5.2mb
CAF	53.07	302 iPc	32 08.50	0.2
	1.1s	55.20nm		5.4mb
DAG	53.14	343 iPd	32 07.40	-0.9
	0.5s	6.34nm		4.8mb
LDF	53.18	307 iPc	32 08.30	-0.7
	0.5s	26.30nm		5.4mb
RJF	53.30	302 iPc	32 10.20	0.3
	1.3s	76.20nm		5.5mb
Z	22s	1.13um		4.9Msz
FLN	53.35	307 eP	32 09.30	-0.9
Z	21s	3.92um		5.4Msz
GRR	53.71	307 iPc	32 12.10	-0.8
	1.2s	139.25nm		5.8mb
LPO	53.74	302 iPc	32 13.10	-0.1
	1.1s	37.10nm		5.3mb
MFF	53.90	304 iPc	32 13.50	-0.8
	1.2s	60.40nm		5.5mb
LFF	53.94	302 iPc	32 14.80	0.2
	0.8s	36.55nm		5.5mb
LPF	53.95	306 iPc	32 13.80	-0.8
	0.9s	30.95nm		5.3mb
ESEL	54.52	295 iPd	32 19.62	0.7
EPF	54.95	300 iPc	32 21.00	-1.1
	0.8s	12.65nm		5.0mb
DLF	55.35	314 eP	32 25.40	0.6
EGRA	55.73	299 iPc	32 24.07	-3.6X
DCN	55.75	314 eP	32 27.30	-0.4
ECRI	57.03	301 iPc	32 37.20	0.0
EALH	58.38	295 iPd	32 46.83	0.2
EVIA	58.78	296 iPc	32 49.36	-0.1
GUD	59.00	299 iPd	32 50.79	-0.2
EHUE	59.23	296 iPc	32 52.25	-0.3
ENIJ	59.35	295 iPc	32 53.81	0.5
EPLA	60.57	299 iPc	33 01.78	0.1
EPFR	61.48	296 iPd	33 07.01	-0.9
BCAO	61.93	251 iPc	33 10.00	-1.2
	0.2s	104.00nm		6.6mb X
		i	33 33.00	91kmX
MBC	64.40	4 P	33 26.90	0.3
	0.2s	29.00nm		6.1mb
		PcP	33 32.30	
		PP	35 49.80	
		S	41 49.80	
		PS	42 05.60	
ANM	66.11	24 eP	33 37.19	-0.5
IMA	68.40	19 eP	33 50.91	-1.4
	0.9s	5.98nm		4.7mb
MTD	69.20	225 iPc	33 40.40	-17.4X
		i	33 48.50	26km
FBA	70.80	18 eP	34 06.22	-0.7
BUL	73.56	226 iPc	34 21.20	-2.7
BALM	75.41	18 eP	34 33.59	-0.5
LKO	77.14	272 Pc	34 44.06	-0.4
	0.8s	25.50nm		5.3mb
SLR	78.25	223 eP	34 50.00	-0.4
YKA	78.28	5 eP	34 49.50	-0.3
	0.7s	11.70nm		5.0mb
KIC	78.45	269 iPc	34 51.69	0.1
	0.8s	31.50nm		5.4mb
TIC	78.49	269 Pc	34 51.65	-0.2
	0.9s	23.00nm		5.2mb
LIC	78.75	269 Pc	34 53.19	-0.1
	0.9s	30.00nm		5.3mb
KSR	79.09	223 eP	34 48.00	-7.0X
	0.6s	14.00nm		5.2mb
LBTB	79.11	225 ePc	34 55.48	0.4
	0.7s	30.05nm		5.4mb
KDS	80.41	278 iPd	34 50.30	-11.9X
WRA	80.54	125 P	35 02.20	-0.5
	0.6s	5.10nm		4.7mb



WB2	80.55	125	iPc	35	01.90	-0.9				eS	54	20.00			0.6s	8.00nm	4.6mb					
	0.5s		8.60nm			5.0mb		SGO	8.44	315	P	52	50.65	0.1	HYB	21.81	173	eP	54	19.50	2.4	
SEK	80.69	221	eP	35	08.50	5.0X		HLW	8.54	123	ePn	52	53.00	1.1	GBA	25.50	176	P	54	58.00	5.1X	
	1.0s		44.00nm			5.4mb					eSn	53	38.00				S	59	42.00			
BLF	82.06	222	eP	35	10.00	-0.6		MLR	10.90	11	ePd	53	23.50	-1.1	HFS	43.33	320	eP	57	25.60	-0.5	
	1.0s		40.00nm			5.4mb		SPC	14.54	353	eP	54	18.70	5.5X		0.4s	2.30nm			4.3mb		
WIN	82.20	233	eP	35	12.50	1.0		OSS	15.38	324	P	54	31.70	7.5X	GEC2	44.46	304	P	57	36.50	0.9	
	0.5s		23.00nm			5.5mb		OKC	15.46	348	(P)	54	30.50	5.5X		0.8s	0.84nm			3.6mb		
ASPA	83.02	128	iPd	35	14.70	-0.9		GEC2	15.67	336	Pn	54	25.90	-1.9			e	57	41.90			
	0.7s		6.90nm			4.9mb			0.4s	1.41nm			3.6mb X			e	57	46.30				
FRS	83.03	222	iPc	35	14.70	-0.7					e	54	33.10				e	57	52.80			
	0.8s		20.00nm			5.3mb					e	54	34.70		YKA	78.36	5	eP	01	24.30	0.3	
GRM	85.25	219	eP	35	28.50	1.9		KHC	15.96	337	P	54	35.00	3.5X		0.6s	1.50nm			4.2mb		
	0.5s		30.00nm			5.8mb			1.0s	26.80nm			4.3mb		WB2	80.40	125	eP	01	37.40	1.7	
NEW	92.15	8	eP	35	59.21	-0.3					e	54	43.60			1.3s	1.30nm			3.8mb		
	0.8s		5.03nm			5.0mb					e	55	09.00			S.D. = 1.6	on	12	of	13	obs.	
DPW	92.41	9	eP	36	01.03	0.3		LLS	16.07	323	P	54	40.13	7.0X								
RSSD	97.01	360	eP	36	22.51	0.5		PRU	16.43	340	P	54	40.10	2.7								
	1.0s		6.33nm			5.1mb			0.9s	16.40nm			4.2mb									
SIV	135.63	289	PKP	42	11.40	0.2					pP	54	47.70			%	JAN 12, 1994	13h	01m	15.66±	0.94s	
LPZ	140.90	295	PKP	42	25.60	3.9X					e	54	53.70				39.379	N ± 9.3km	22.830	E ± 9.8km		
			LR	27	40.00																DEPTH = 10.0km (geophysicist)	
LPB	141.04	295	(PKP)	42	24.00	2.3		SLE	16.94	324	P	54	45.29	1.3								GREECE (364)
			LR	31	38.00			GRF	17.25	333	iPc	54	51.20	3.3X								ML 1.8 (THE).
MOCB	142.28	287	PKP	42	18.10	-5.8X					1.0s		42.00nm	4.5mb		AGG	0.53	228	iPg	01	26.32	0.0
ARE	143.34	299	e(PKP)	42	24.00	-1.6		BRG	17.39	340	iPc	54	51.60	2.0								
	S.D. = 0.9	on 190	of 215	obs.					1.0s	20.00nm			4.2mb		LIT	0.77	340	ePg	01	30.56	-0.1	
								CLL	18.05	339	iPd	54	59.00	1.3								
									0.9s	14.00nm			4.1mb		PAIG	0.85	50	iPg	01	32.53	0.4	
	JAN 12, 1994	10h	50m	45.43±	0.41s			BSD	21.09	347	iP	55	30.00	-2.1								
	34.797	N ± 4.5km	23.099	E ± 4.0km					0.4s	13.00nm			4.7mb									
	DEPTH = 10.0km	(geophysicist)						NUR	25.75	2	eP	56	16.20	-1.3		OUR	1.30	43	ePb	01	39.12	-0.6
	4.6mb	( 20 obs.)						HFS	26.08	349	eP	56	18.70	-1.9		SOH	1.50	15	ePb	01	42.80	0.2
CRETE						(370)			0.5s	11.20nm			4.8mb		KNT	1.78	2	ePb	01	46.76	0.1	
	MD 4.5	(HLW), 4.2	(ATH).					KAF	27.41	3	iP	56	30.70	-2.1								S.D. = 0.5
									0.5s	3.30nm			4.3mb									on 6
VAM	1.09	56	ePb	51	08.10	2.2		BCAO	30.51	189	ePc	57	02.10	1.1		%	JAN 12, 1994	13h	02m	41.46±	0.74s	
VLI	1.92	356	ePg	51	22.20	3.7X			0.5s	5.00nm			4.6mb									39.669
NPS	2.11	77	ePb	51	25.50	4.2X		KIC	38.20	229	P	58	08.20	1.1								N ± 6.5km
ATH	3.21	9	ePn	51	39.40	2.6		LIC	38.49	229	P	58	09.80	0.3								29.472
VLS	3.93	330	ePn	51	47.90	0.8		GKN	52.26	79	P	59	58.20	-1.1								E ± 6.5km
AGG	4.26	352	ePn	51	53.76	1.9			0.6s	27.00nm			5.4mb									DEPTH = 10.0km (geophysicist)
			eSn	52	42.40			DMN	52.80	80	P	00	02.60	-0.9		TURKEY						(366)
CIN	4.91	54	eP	52	06.00	5.0X			0.7s	41.00nm			5.5mb		DST	0.66	265	ePg	02	53.80	-0.8	
IZM	4.91	42	ePn	52	02.00	0.9		KKN	52.86	79	P	00	03.00	-0.9								
PAIG	5.14	5	ePn	52	04.92	0.7			0.6s	18.00nm			5.2mb		IZI	0.67	0	iPg	02	54.40	-0.4	
IGT	5.22	336	ePn	52	05.28	-0.1		PKI	53.06	80	P	00	04.40	-1.1	ALT	0.79	141	ePg	02	57.00	0.1	
			iSn	53	06.08				0.8s	34.00nm			5.3mb									
LIT	5.32	355	ePn	52	07.32	0.5		GBA	53.18	99	Pc	00	05.40	-0.7		EYL	1.04	30	ePn	03	00.90	-0.2
KSL	5.45	74	ePn	52	09.60	0.9			0.6s	5.00nm			4.6mb		HRT	1.16	7	ePn	03	03.40	0.2	
KZN	5.60	350	ePn	52	10.40	-0.5		GUN	53.30	79	P	00	06.40	-0.9	EDC	1.41	299	ePn	03	08.00	0.9	
SRN	5.64	335	ePn	52	11.90	0.6			0.6s	23.00nm			5.3mb		KGT	1.84	296	ePn	03	13.50	0.2	
LSK	5.70	340	ePn	52	12.60	0.3		CD2	66.10	68	iPd	01	39.60	4.6X		S.D. = 0.6	on	7	of	7	obs.	
THE	5.83	359	ePn	52	14.01	0.1		MBC	66.71	351	eP	01	38.50	0.3								
ELL	5.87	69	eP	52	23.50	8.9X		HHC	67.24	55	P	01	41.60	-0.6		? JAN 12, 1994	13h	24m	23.42±	0.93s		
SOH	6.02	2	ePn	52	17.48	0.8			1.0s	7.00nm			4.8mb									39.683
KBN	6.10	343	ePn	52	17.50	-0.3		RSNY	71.40	312	(P)	02	08.60	1.0								N ± 7.8km
FNA	6.13	348	ePn	52	18.64	0.4			1.3s	21.95nm			5.1mb									29.487
			eSn	53	27.56			CN2	74.67	47	eP	02	25.70	-1.1								E ± 9.1km
GRG	6.17	355	ePn	52	18.56	-0.3			0.8s	4.70nm			4.6mb									DEPTH = 10.0km (geophysicist)
			eSn	53	28.72					epP	02	32.50	22kmX		TURKEY							(366)
KHL	6.25	54	ePn	52	21.50	1.4		INK	75.73	351	eP	02	32.50	0.1								ML 2.7 (ISK).
SRS	6.32	3	ePn	52	21.40	0.4		YKA	77.26	341	eP	02	40.50	-0.6	IZI	0.65	359	iPg	24	36.90	0.4	
VLO	6.34	334	ePn	52	29.80	8.6X			0.6s	1.00nm			4.1mb		DST	0.67	264	ePg	24	36.60	-0.1	
KNT	6.36	359	ePn	52	21.88	0.4		IMA	79.43	359	eP	02	53.24	0.2								
DST	6.52	41	eP	52	23.20	-0.6			0.8s	3.44nm			4.4mb		ALT	0.79	142	ePg	24	39.00	0.1	
VAY	6.53	356	iPn	52	23.00	-0.8		SLKM	84.88	357	eP	03	21.59	0.3	EYL	1.02	30	ePn	24	42.40	-0.4	
SOI	6.55	302	P	52	23.92	-0.3		NEW	90.00	335	eP	03	46.20	-0.2		S.D. = 0.6	on	4	of	4	obs.	
OHR	6.56	345	iPn	52	23.50	-0.9		WRA	118.24	96	PKP	09	35.00	0.1								
	1.2s	150.00nm				5.8mb X			0.5s	0.40nm												
			i	52	29.60																	
			i	53	10.40																	
			i	53	37.30																	
			Lg	53	50.00																	
RDO	6.62	16	ePn	52	25.00	-0.2																
EDC	6.71	33	eP	52	26.00	-0.4																
LCI	6.87	325	P	52	26.45	-2.2																
PZI	7.00	291	P	52	29.64	-1.0																
MEU	7.01	291	P	52	32.40	1.6																
TIR	7.02	340	ePn	52	30.00	-0.7																
ALT	7.04	51	eP	52	31.00	-0.2																
SKO	7.28	350	iPnc	52	33.40	-1.0																
LACI	7.33	340	ePn	52	33.50	-1.5																
ORI	7.46	317	P	52	38.43	1.6																
IZI	7.49	41	eP	52	30.50	-7.0X																



12d 14h

SPAIN (377)						ADK 74.01 3 eP 56 28.17 -0.4						41.428 N ±39.7km 23.073 E ± 8.8km					
mbLg 2.9 (MDD). ML 2.8 (LDG).						0.6s 11.39nm 4.6mb						DEPTH = 10.0km (geophysicist)					
ETER 0.46 25 iPd 31 50.18 0.2						KMPM 81.68 40 eP 57 10.43 0.7						GREECE-BULGARIA BORDER REGION (363)					
eS 31 59.00						CMB 82.55 44 ePc 57 15.22 1.1						ML 2.2 (THE).					
PERF 0.64 19 Pg 31 52.92 -0.5						0.9s 10.28nm 4.4mb						KNT 0.30 206 iPg 20 50.02 -0.6					
VDCF 0.72 347 Pg 31 55.43 0.6						LBFM 83.59 40 (P) 57 20.29 0.9						eSg 20 55.10					
TRGS 0.77 323 Pg 31 56.25 0.5						BONR 83.85 45 eP 57 21.90 0.9						SRS 0.50 128 iPg 20 53.74 -0.8					
PAND 1.00 310 Pg 31 59.61 -0.1						SYO 84.37 194 ePd 57 21.80 -0.8						eSg 21 02.38					
GRBF 1.23 321 Pg 32 03.68 0.1						TUC 86.12 53 (P) 57 32.62 0.9						GRG 0.69 227 ePg 20 58.18 0.1					
LESF 1.50 320 Pg 32 08.60 1.1						SLKM 86.22 15 eP 57 31.27 -0.3						eSg 21 06.78					
EROQ 1.95 238 iPc 32 14.53 0.4						CP2 86.44 13 (P) 57 32.34 -0.5						THE 0.80 186 ePg 21 00.06 0.2					
EPF 2.02 305 Pn 32 13.20 -1.9						CRP 86.46 13 eP 57 31.58 -1.3						eSg 21 11.46					
Pg 32 19.60						NVL 86.71 184 iPc 57 33.00 -0.8						OUR 1.29 147 ePb 21 09.30 1.0					
Sg 32 45.20						1.0s 14.00nm 4.6mb						eSb 21 27.82					
EGRA 2.19 279 iPc 32 11.93 -5.5X						BALM 88.69 18 eP 57 43.50 0.3						S.D. = 1.0 on 5 of 5 obs.					
eS 32 35.50						HVU 89.50 44 (P) 57 47.74 0.4						& JAN 12, 1994 19h 28m 05.32s					
LPO 2.98 340 Pg 32 38.50 9.8X						ALQ 90.54 52 eP 57 52.73 0.3						33.985 N 118.508 W					
Sg 33 17.80						0.8s 3.24nm 4.4mb						DEPTH = 11.7km					
CAF 3.06 353 Pn 32 29.50 -0.4						FBA 90.61 13 ePc 57 51.29 -0.5						SOUTHERN CALIFORNIA (43)					
Pg 32 40.70						0.8s 3.71nm 4.4mb						<PAS-P>. ML 3.2 (PAS).					
Sg 33 21.10						HFS 140.91 349 ePKP 04 09.50 -6.2X						SSK 0.71 71 eP 28 18.59 -0.7					
LFF 3.34 337 Pg 32 45.20 11.4X						0.4s 3.30nm						ABL 1.05 326 eP 28 23.41 -1.6					
Sg 33 28.50						CLL 149.19 343 iPKPc 04 35.70 6.1X						PEC 1.12 94 eP 28 25.56 -0.7					
S.D. = 0.9 on 10 of 13 obs.						1.0s 19.00nm						S 28 41.23					
% JAN 12, 1994 15h 53m 12.45± 0.67s						BRG 149.32 342 iPKP 04 36.10 6.3X						PLM 1.51 114 eP 28 31.23 -1.2					
42.836 N ± 5.9km 1.455 E ± 5.0km						0.9s 20.00nm						BCH 1.77 313 eP 28 35.17 -0.9					
DEPTH = 5.0km (geophysicist)						PRU 149.92 340 PKP 04 37.50 6.7X						GSC 1.92 46 eP 28 38.11 -0.2					
PYRENEES (378)						KHC 150.97 340 ePKP 04 39.50 7.1X						PHAM 2.41 320 (P) 28 43.41 -1.8					
ML 1.5 (STR).						1.0s 3.50nm						MTUM 3.36 359 (P) 28 58.36 -0.5					
SALF 0.21 249 Pg 53 16.71 -0.1						GRF 151.14 344 e(PKP) 04 41.20 8.6X						TPNV 3.48 31 eP 28 59.71 -0.9					
Sg 53 19.92						0.7s 10.00nm						MMPM 3.64 353 (P) 29 08.94 5.9					
LESF 0.23 327 Pg 53 17.17 0.0						e 04 53.30						MEMM 3.69 355 (Pn) 29 03.64 0.3					
PAND 0.32 168 Pg 53 19.16 0.2						GEC2 151.19 340 PKP 04 39.70 6.9X						BONR 3.97 2 (P) 29 08.39 0.8					
Sg 53 23.84						0.8s 2.26nm						MSU 6.83 47 (P) 29 46.47 -1.5					
LSPF 0.35 71 Pg 53 19.77 0.3						e 04 44.20						13 obs. associated					
TRGS 0.50 131 Pg 53 22.41 -0.2						e 04 50.90						JAN 12, 1994 19h 29m 36.52± 0.56s					
MTHF 0.80 82 Pg 53 28.18 -0.3						S.D. = 0.9 on 37 of 45 obs.						35.906 N ± 4.4km 21.881 E ± 2.4km					
S.D. = 0.3 on 6 of 6 obs.						* JAN 12, 1994 17h 33m 21.41± 2.81s						DEPTH = 42.3 ± 5.1 km					
* JAN 12, 1994 16h 45m 51.56± 1.00s						38.931 N ± 8.5km 26.657 E ± 32.2km						4.6mb (52 obs.)					
22.361 S ± 12.4km 179.271 E ± 11.5km						DEPTH = 10.0km (geophysicist)						CENTRAL MEDITERRANEAN SEA (400)					
DEPTH = 594.7 ± 11.1 km						AEGEAN SEA (365)						MD 4.6 (ATH).					
4.8mb (16 obs.)						ML 3.1 (ISK).						VLI 1.18 46 ePn 29 58.50 1.7					
SOUTH OF FIJI ISLANDS (171)						IZM 0.71 138 ePg 33 35.30 -0.2						VAM 1.95 104 ePn 30 08.70 0.9					
VUN 4.40 350 iPd 47 18.80 -1.2						eSg 33 44.80						VLS 2.49 336 ePn 30 17.40 1.9					
DZM 11.89 269 iPc 48 30.90 1.6						KGT 1.60 18 iPn 33 49.80 0.0						ATH 2.53 35 ePb 30 22.50 6.5X					
iS 50 40.20						DST 1.67 66 ePn 33 51.00 0.1						NPS 3.11 101 ePn 30 24.00 -0.3					
ARMA 25.98 246 iPc 50 41.60 1.0						EDC 1.69 33 ePn 33 51.00 -0.1						GIN 3.13 6 ePn 30 28.18 3.6X					
0.7s 21.00nm 4.9mb						CIN 1.74 139 eP 33 52.00 0.2						eSn 31 05.86					
CNB 29.08 237 iPc 51 08.20 0.8						S.D. = 0.2 on 5 of 5 obs.						IGT 3.82 342 iPn 30 35.34 0.9					
0.6s 41.00nm 5.2mb						? JAN 12, 1994 17h 47m 26.46± 2.87s						eSn 31 21.70					
CAN 29.37 237 iPc 51 10.50 0.7						11.239 N ± 11.3km 61.840 W ± 44.0km						KEK 4.14 337 ePn 30 39.50 0.6					
BWA 29.57 239 iPc 51 09.90 -1.6						DEPTH = 10.0km (geophysicist)						LIT 4.22 6 ePn 30 42.14 2.1					
TOO 32.75 235 iPc 51 39.20 0.9						WINDWARD ISLANDS (95)						eSn 31 31.98					
0.6s 67.00nm 5.4mb						MD 3.0 (TRN).						SRN 4.24 340 iPnc 30 40.80 0.5					
STK 34.71 246 iPc 51 55.50 1.0						TRN 0.73 144 eP 47 40.13 -0.6						PAIG 4.26 19 iPn 30 41.82 1.2					
0.4s 17.60nm 5.0mb						eS 47 53.42						eSn 31 32.46					
OKTD 40.40 289 iPd 53 00.90 19.8X						GRW 0.93 11 eP 47 44.29 0.0						LSK 4.36 347 iPnc 30 44.10 2.0					
ASPA 41.65 259 iPc 52 51.40 0.5						TPP 0.99 157 eP 47 45.51 0.2						KZN 4.39 359 ePn 30 44.70 2.1					
0.7s 52.70nm 5.2mb						eS 48 00.27						OUR 4.72 20 ePn 30 48.22 1.2					
iS 58 26.30						TBH 1.07 135 eP 47 46.94 0.4						KBN 4.79 350 iPnc 30 48.50 0.4					
iScS 01 51.00						eS 48 01.99						THE 4.80 10 ePn 30 48.58 0.5					
WB2 41.85 265 iPd 52 52.50 0.0						S.D. = 0.8 on 4 of 4 obs.						PRK 4.82 45 ePn 30 51.40 2.9X					
0.3s 24.60nm 5.2mb						JAN 12, 1994 17h 50m 51.30± 0.81s						FNA 4.89 355 ePn 30 50.78 1.3					
eS 57 33.50						42.204 N ± 5.8km 121.961 W ± 9.1km						eSn 31 45.78					
WRA 41.86 265 P 52 53.00 0.4						DEPTH = 5.0km (geophysicist)						VLO 4.93 338 ePn 30 49.80 -0.2					
0.7s 8.60nm 4.4mb						OREGON (32)						IZM 4.97 58 eP 30 52.00 1.4					
FORT 46.24 248 iPc 53 27.10 0.8						ML 2.8 (GS). Felt in the Klamath Falls area.						GRG 5.06 4 ePn 30 52.02 0.1					
0.5s 31.00nm 5.1mb						LASM 0.67 154 P 51 04.73 0.0						SOI 5.14 297 P 30 52.45 -0.5					
WARB 47.86 254 iPc 53 38.80 0.0						LMPM 0.73 192 P 51 06.32 0.4						GRI 5.23 305 P 30 53.90 -0.4					
0.3s 5.00nm 4.5mb						LBFM 0.86 176 eP 51 08.23 -0.2						CIN 5.26 69 eP 30 55.00 0.3					
DHH 48.79 29 ePc 53 44.74 -0.8						LGBM 0.88 192 P 51 09.00 0.2						OHR 5.27 351 iPn 30 55.50 0.6					
COOL 52.16 248 eP 54 09.20 -1.0						LBKM 1.24 205 P 51 14.36 -0.5						1.5s 820.00nm 5.9mb X					
MBL 54.89 259 iPc 54 28.90 -0.7						KOMM 1.45 231 P 51 19.01 0.7						i 31 03.30					
0.4s 22.00nm 4.8mb						FHC 2.07 228 (P) 51 26.57 -0.6						i 31 45.70					
MEEK 54.92 252 eP 54 28.50 -1.3						VGB 3.42 14 (P) 51 46.41 0.0						i 31 52.30					
KLB 54.97 246 iPc 54 29.20 -0.8						S.D. = 0.5 on 8 of 8 obs.						Lg 32 50.00					
0.9s 35.00nm 4.7mb						? JAN 12, 1994 18h 20m 44.38± 5.23s						KNT 5.31 8 iPn 30 56.54 1.1					
NWA0 55.27 245 eP 54 31.50 -0.6						i 31 19.00						VAY 5.43 5 iPn 30 57.60 0.4					
BAL 55.99 247 eP 54 36.00 -1.0						iSn 31 57.20						1.2s 550.00nm 5.8mb X					
MUN 56.24 246 eP 54 38.50 -0.2																	
MAT 70.25 326 eP 56 08.00 0.5																	



TIR	5.66	344	ePn	31	00.50	0.2	HQL	12.92	117	eP	32	33.66	-6.3X	TCF	18.05	311	eP	33	45.50	-0.2			
MEU	5.73	284	P	31	00.14	-1.3	SAL	12.95	322	P	32	39.18	-1.1	RJF	18.05	308	eP	33	46.40	0.7			
PZI	5.73	283	P	30	59.09	-2.3	SRFA	13.21	118	eP	32	39.30	-4.5X	LFF	0.9s	10.50nm			4.0mb				
RDO	5.97	28	ePn	31	05.00	0.4									18.41	306	eP	33	51.50	1.4			
LACI	5.97	344	iPnc	31	03.50	-1.1	BADA	13.32	120	eP	32	41.30	-3.9X	LSF	1.4s	55.35nm			4.5mb				
SKO	6.07	357	iPc	31	05.50	-0.6								ENN	18.45	310	eP	33	50.60	0.0			
	0.9s	210.00nm			5.7mb X		SPC	13.33	355	eP	32	43.00	-2.5X		18.79	327	eP	33	57.50	2.8			
			i	31	10.00		SBF	13.63	310	eP	32	48.10	-1.3	DOU	1.0s	34.00nm			4.5mb				
			i	31	15.00										18.93	324	Pc	33	57.10	0.7			
			i	31	57.00		WTTA	1.0s	34.40nm			5.1mb			0.7s	24.40nm			4.5mb				
			iSn	32	10.00			13.68	329	iPc	32	49.90	-0.2	ELIZ	19.42	299	iPd	34	02.90	0.8			
			i	32	12.50			1.1s	33.40nm			5.1mb		TAB	19.64	76	eP	34	03.00	-1.6			
			Lg	32	13.00									MFF	19.64	310	eP	34	05.50	1.0			
MNO	6.10	291	P	31	06.44	-0.3									1.2s	84.20nm			4.9mb				
BRT	6.17	325	P	31	06.63	-0.9								BSD	19.80	348	iPc	34	04.30	-1.7			
KSL	6.25	86	ePn	31	06.50	-2.1	WATA	13.76	329	iPc	32	51.10	-0.1		0.6s	14.00nm			4.4mb				
ULC	6.39	342	iPnc	31	08.87	-1.7								ECRI	20.00	297	iPd	34	08.70	0.4			
			iSn	32	13.43									ECOG	20.47	281	eP	34	15.10	1.8			
EDC	6.47	45	eP	31	12.00	0.3								LDF	20.55	315	eP	34	14.10	0.2			
ELL	6.53	80	iP	31	19.50	6.8X	SQTA	13.83	328	iPc	32	53.00	1.0		0.9s	33.25nm			4.7mb				
MGR	6.54	312	P	31	11.53	-1.2		0.8s	23.80nm			5.0mb		LPF	20.82	313	eP	34	16.80	0.1			
KHL	6.57	66	eP	31	12.80	-0.3									0.8s	26.20nm			4.6mb				
BDV	6.80	340	iPnc	31	14.06	-2.2								FLN	20.84	315	eP	34	17.10	0.2			
			iSn	32	23.21										0.8s	57.20nm			5.0mb				
TTG	6.83	343	iPnc	31	14.87	-1.7								Z	20s	0.20um			3.5msz				
			iSn	32	24.59		AYN	13.83	116	eP	32	47.60	-4.4X		20.88	314	eP	34	17.90	0.6			
PVY	6.84	348	iPnc	31	16.33	-0.7									0.9s	51.45nm			4.9mb				
			iSn	32	26.04		MOTA	13.97	328	iPc	32	53.60	-0.3	GUD	20.95	291	iPc	34	18.80	0.6			
SGO	6.95	314	P	31	18.28	-0.1								PAB	21.04	288	iPd	34	19.50	0.4			
HCY	7.04	339	iPnc	31	16.98	-2.7X								OBN	21.71	23	iPd	34	24.00	-1.5			
			iSn	32	28.54		FRF	13.98	308	eP	32	55.40	1.5		1.0s	38.00nm			4.8mb				
IVA	7.12	348	iPnc	31	19.95	-1.0	OKC	14.19	350	P	33	05.00	8.5X	Z	18s	0.60um			4.0msz				
			iSn	32	32.66		GEC2	14.26	338	e(P)	32	56.60	-1.0				i	34	35.00				
NKY	7.25	343	iPnc	31	20.54	-2.2		0.6s	5.30nm			4.3mb					iS	38	19.50				
			iSn	32	34.72		FUR	14.55	331	eP	33	00.70	-0.6				i	38	33.50				
ALT	7.26	62	eP	31	22.00	-0.9											e	39	45.50				
IZI	7.44	51	iP	31	26.70	1.3	KHC	14.55	338	P	33	01.50	0.1	EHOR	21.77	283	eP	34	25.20	-1.1			
BRY	7.45	341	iPnc	31	22.49	-3.0X		1.0s	7.90nm			4.1mb		EJIF	22.06	280	eP	34	29.00	-0.3			
			iSn	32	39.13		Z	18s	2.00um			6.1msz		EPLA	22.39	289	eP	34	31.00	-1.5			
DMK	7.48	36	eP	31	25.00	-0.8	N	18s	1.00um					UPP	24.13	355	iP	34	49.50	0.4			
ITU	7.63	45	eP	31	30.00	2.1	E	18s	0.70um					NUR	24.69	3	eP	34	53.50	-1.0			
PLE	7.66	346	iPnc	31	27.02	-1.4									0.8s	12.30nm			4.5mb				
			iSn	32	45.15									HFS	24.82	350	eP	34	55.50	-0.3			
EYL	8.00	52	eP	31	33.20	0.0									0.5s	8.70nm			4.6mb				
HVAR	8.39	332	iPn	31	34.80	-3.6X								Z	18s	0.17um			3.6msz				
			iSn	33	02.80		LPG	14.93	315	eP	33	06.00	-0.6				LR	43	42.00				
SDI	8.55	315	P	31	39.41	-1.3		1.1s	14.40nm			4.2mb		EKA	25.91	326	Pc	35	09.00	2.8			
AQU	9.21	317	P	31	50.52	0.7	LPL	14.95	315	eP	33	06.50	-0.3		0.8s	47.30nm			5.1mb				
CSS	9.39	92	eP	31	47.00	-5.3X	PRU	15.05	341	eP	33	06.50	-1.4	KAF	26.38	5	eP	35	10.00	-0.3			
			eS	33	21.00		Z	16s	0.90um						0.8s	9.40nm			4.4mb				
MNS	9.64	315	P	31	54.97	-0.7								MHI	30.27	78	eP	35	39.00	-6.9X			
CMP	9.65	13	ePc	31	55.00	-0.9	GRF	15.82	334	e(P)	33	23.00	5.3X	BCAO	31.47	186	iPc	35	57.30	0.9			
ASS	10.09	318	P	32	03.33	1.4		1.2s	60.00nm			4.6mb			0.2s	39.00nm			5.9mb X				
ARV	10.24	320	P	32	02.79	-1.1	BRG	16.02	342	eP	33	20.50	0.2				i	36	14.00				
CFR	10.42	25	eP	32	12.00	5.7X		1.8s	28.00nm			4.1mb		LKO	36.23	230	Pc	36	37.76	0.3			
VRI	10.60	19	ePd	32	02.00	-6.9X									0.7s	11.00nm			4.9mb				
CRE	10.85	318	P	32	12.18	-0.1	BSF	16.34	321	eP	33	24.30	-0.2	QUE	37.95	85	eP	36	52.00	0.0			
PTJ	10.94	338	iP	32	09.60	-3.9X		1.0s	20.80nm			4.2mb		TIC	38.16	227	Pc	36	53.88	0.2			
			iS	34	04.30		MOX	16.50	336	eP	33	28.40	2.1		0.8s	15.00nm			4.9mb				
UZD	10.96	348	e(Pn)	32	10.00	-3.7X		1.6s	25.00nm			4.1mb		KIC	38.22	226	Pc	36	54.48	0.3			
RIY	11.01	331	iPn	32	12.80	-1.5	CDF	16.50	324	eP	33	26.30	-0.1		0.5s	22.50nm			5.3mb				
SFI	11.10	319	P	32	16.81	1.2		1.1s	29.30nm			4.3mb		KDS	38.50	242	iP	36	57.30	0.8			
PGD	11.14	319	P	32	17.20	0.9	CLL	16.67	340	eP	33	29.00	0.6	LIC	38.50	226	Pc	36	56.86	0.4			
LJU	11.54	334	iPc	32	20.10	-1.5		1.7s	31.00nm			4.2mb			0.6s	16.50nm			5.1mb				
			i	32	28.80									DAG	44.76	348	iPd	37	47.50	0.4			
			eS	34	21.00		HAU	16.68	321	eP	33	28.50	-0.2		0.7s	4.79nm			4.4mb				
			i	34	41.10			1.2s	53.55nm			4.5mb		NDI	46.80	82	iPd	38	04.00	0.1			
			i	35	13.00		SMF	17.25	314	eP	33	35.50	-0.3	WMQ	49.94	60	iPc	38	27.70	-0.5			
			e	37	07.20			0.8s	8.35nm			3.9mb			1.0s	17.00nm			5.0mb				
TRI	11.56	330	e(Pn)	32	12.70	-9.0X	TNS	17.31	330	ePc	33	37.20	0.6				PP	40	22.50				
			e(Sn)	34	20.00		LBF	17.35	315	eP	33	38.00	0.9	HYB	53.16	95	eP	38	51.00	-1.7			
VOY	11.77	332	eP	32	22.70	-2.1		1.1s	20.25nm			4.2mb		GBA	54.34	99	P	39	00.00	-1.3			
			i	32	23.30		CAF	17.54	307	eP	33	39.70	0.3	KOD	56.31	103	eP	39	15.80	-0.2			
			e	32	26.30			1.2s	20.85nm			4.1mb		LSA	57.46	75	P	39	23.40	-0.8			
			eS	34	26.50		LOR	17.58	316	eP	33	39.30	-0.6		0.8s	7.00nm			4.8mb				
PGF	11.98	307	eP	32	26.60	-1.0	Z	21s	0.30um					FRB	58.65	329	eP	39	32.50	1.1			
	1.1s	37.10nm			5.4mb									1.0s	7.00nm			4.7mb					
PSZ	12.09	354	ePn	32	26.00	-3.1X	AVF	17.61	314	eP	33	41.00	0.7	GTA	59.96	61	Pc	39	39.80	-1.2			
FVI	12.67	330	P	32	35.00	-1.6	SSF	17.67	315	eP	33	41.80	0.8		1.0s	14.00nm			5.0mb				
CTI	12.73	326	P	32	35.91	-1.6	BGF	17.79	313	eP	33	42.60											



12d 19h

HHC 67.43 55 P 40 29.80 -0.2  
1.0s 2.00nm 4.1mb  
XAN 68.89 63 P 40 38.50 -0.6  
1.0s 8.90nm 4.7mb  
TIY 69.55 58 Pd 40 43.00 -0.1  
BJI 70.89 54 eP 40 50.50 -0.6  
1.0s 6.00nm 4.5mb  
GYA 71.04 71 P 40 52.00 -0.4  
INK 74.48 351 eP 41 12.00 0.2  
CN2 74.64 47 eP 41 12.80 -0.4  
0.8s 9.40nm 4.8mb  
YKA 75.89 341 eP 41 20.30 0.4  
0.9s 3.80nm 4.4mb  
ULM 78.18 325 eP 41 36.50 3.7X  
PV08 92.92 323 ePc 42 48.00 1.2  
PV09 93.22 324 ePc 42 49.46 1.3  
PV10 93.27 323 eP 42 49.94 1.6  
WRA 119.32 94 PKP 48 23.40 0.2  
0.6s 0.70nm  
WB2 119.33 94 ePKP 48 22.60 -0.6  
0.8s 2.10nm  
DZM 146.27 76 iPKPc 49 16.10 2.7  
S.D. = 1.1 on 157 of 182 obs.

& JAN 12, 1994 19h 43m 31.39s  
37.734 N 121.387 W  
DEPTH = 10.6km  
CENTRAL CALIFORNIA (39)  
<GM-P>. MD 2.8 (GM). ML 2.9  
(BRK).

COSM 0.23 177 P 43 36.50 0.2  
CDVM 0.29 234 P 43 37.20 -0.2  
CVAL 0.32 249 P 43 38.18 0.2  
ARN 0.40 197 iPd 43 39.50 -0.1  
MHC 0.44 207 ePd 43 40.10 -0.3  
is 43 46.47  
COE 0.53 206 iPd 43 41.73 -0.3  
HMR 0.53 322 ePd 43 43.06 0.9  
MNHM 0.61 48 P 43 43.18 -0.5  
GHS 0.64 184 P 43 43.90 -0.3  
AMC 0.68 213 P 43 44.72 -0.1  
BKS 0.69 282 iPc 43 44.39 -0.5  
is 43 54.05  
STAN 0.71 242 ePc 43 44.94 -0.3  
is 43 55.16  
JHLM 0.72 210 P 43 45.38 -0.1  
ZSP 0.72 287 iP 43 45.07 -0.4  
is 43 55.37  
JBMM 0.74 236 P 43 45.54 -0.3  
SFL 0.75 181 P 43 46.29 0.3  
JBZM 0.78 204 P 43 47.34 0.8  
JTMG 0.80 209 P 43 47.93 1.0  
LT3 0.81 235 P 43 46.74 -0.2  
CBC 0.83 195 P 43 47.95 0.6  
CMB 0.85 69 ePd 43 47.09 -0.6  
is 43 58.88  
JEGM 0.88 256 eP 43 47.21 -1.0  
HCOM 0.88 197 P 43 49.49 1.2  
DIL 0.92 193 P 43 48.45 -0.5  
HJGM 0.95 189 P 43 50.11 0.8  
BSLM 0.96 178 P 43 50.65 1.1  
SAO 0.97 183 eP 43 49.86 0.1  
BCGM 1.02 178 P 43 51.22 0.5  
NTYM 1.20 303 eP 43 52.27 -1.4  
FRI 1.53 118 ePd 43 58.22 -0.4  
es 44 16.81  
PRI 1.69 160 eP 44 03.66 2.5  
ORV 1.82 357 eP 44 02.43 -0.5  
es 44 25.48  
MMPM 1.88 93 eP 44 04.82 0.8  
es 44 29.42  
MEMM 1.94 91 eP 44 06.42 1.8  
es 44 31.65  
MTUM 2.28 99 eP 44 10.99 1.3  
es 44 40.47  
MRGM 2.29 91 eP 44 12.06 2.2  
BHPR 2.35 100 P 44 13.77 3.0  
BONR 2.45 84 ePn 44 14.45 2.2  
KVN 2.90 62 (P) 44 23.77 5.2  
TPNV 4.17 99 (P) 44 38.55 2.0  
40 obs. associated

% JAN 12, 1994 20h 28m 44.77± 1.21s  
11.685 N ± 9.6km 42.997 E ± 7.9km  
DEPTH = 10.0km (geophysicist)  
ETHIOPIA (558)

TDD 0.15 323 ePd 28 48.26 0.1  
ARO 0.21 224 eP+ 28 49.57 0.1  
S 28 53.11  
ATA 0.31 138 eP+ 28 51.25 0.1  
SGH 0.43 235 eP+ 28 53.16 -0.4  
DAF 0.47 261 eP+ 28 55.54 1.3  
HLD 0.56 261 eP+ 28 55.03 -1.1  
S.D. = 1.0 on 6 of 6 obs.

? JAN 12, 1994 21h 07m 10.89± 2.39s  
21.621 S ± 22.5km 68.021 W ± 18.3km  
DEPTH = 169.8 ± 16.4 km  
4.3mb ( 3 obs.)  
CHILE-BOLIVIA BORDER REGION (124)

MOCB 2.25 81 P 07 51.50 0.5  
LPB 5.06 359 eP 08 27.00 0.4  
LPAZ 5.31 359 P 08 30.60 0.5  
ARE 6.09 327 eP 08 34.00 -6.1X  
is 09 46.50  
SIV 8.64 51 P 09 12.20 -1.5  
RSTA 17.72 103 eP 11 07.40 -1.1  
VAO 19.53 98 eP 11 27.10 -0.4  
BDFB 19.86 76 eP 11 31.63 0.6  
0.9s 10.07nm 4.3mb  
ALQ 67.05 326 ePd 17 45.60 -2.4  
1.0s 5.88nm 4.3mb  
LIC 67.63 73 P 17 52.80 1.0  
KIC 67.94 73 P 17 54.90 1.2  
YKA 91.58 340 eP 19 59.90 0.9  
0.6s 1.50nm 4.3mb  
WRA 133.26 209 PKP 26 09.10 0.3  
0.6s 0.30nm  
S.D. = 1.3 on 12 of 13 obs.

JAN 12, 1994 21h 22m 37.25± 0.16s  
4.182 S ± 3.2km 142.147 E ± 4.5km  
DEPTH = 118.5km ( 3 depth phases)  
5.0mb ( 21 obs.)  
NEW GUINEA, PAPUA NEW GUINEA (202)

OKTD 1.44 216 iPd 23 06.60 2.3  
MNDI 2.47 143 iPd 23 18.00 0.6  
es 23 50.00  
LAT 5.43 117 eP 23 57.80 0.7  
MTN 13.88 231 iPd 25 49.20 -0.9  
0.5s 505.00nm 6.1mb X  
is 28 14.60  
QIS 16.46 188 iPd 26 23.10 0.4  
WB2 17.41 205 iPc 26 32.70 -1.6  
0.6s 384.20nm 5.8mb  
es 29 43.50  
KNA 17.47 228 eP 26 34.50 -0.5  
es 29 39.00  
ASPA 20.94 202 iPd 27 11.30 -1.1  
0.6s 249.20nm 5.8mb X  
i 27 48.80  
is 30 57.30  
WARB 26.44 213 eP 28 05.50 0.6  
0.3s 7.00nm 4.7mb  
MBL 27.47 230 iPc 28 13.60 -0.7  
0.5s 20.00nm 5.0mb  
STK 27.56 181 eP 28 13.40 -1.6  
0.7s 9.20nm 4.5mb  
eP 28 40.10 125km  
ARMA 27.59 162 eP 28 17.00 1.6  
0.6s 18.00nm 4.9mb  
BKM 28.86 120 iPd 28 26.50 -0.4  
DZM 29.51 129 iPd 28 32.20 -0.5  
FORT 29.60 205 eP 28 34.00 0.7  
BWA 30.65 170 eP 28 43.40 0.9  
ADE 30.80 186 iPc 28 43.50 -0.3  
CAN 31.63 169 iPd 28 50.30 -0.8  
i 29 26.70 174kmX  
CNB 31.69 169 eP 28 52.10 0.4  
0.9s 20.00nm 4.9mb  
MEEK 31.70 223 eP 28 51.50 -0.4  
COOL 33.12 214 iPc 29 03.90 -0.2  
0.4s 31.00nm 5.5mb  
TOO 33.37 175 eP 29 07.80 1.6  
1.0s 49.00nm 5.3mb  
BAL 35.59 220 iPc 29 25.10 -0.1  
0.5s 17.00nm 5.2mb  
KLB 35.61 217 eP 29 25.20 -0.2  
MUN 36.83 218 eP 29 35.80 0.2  
NWA0 36.87 216 eP 29 35.90 0.0  
RKG 38.19 215 eP 29 47.50 0.6

GYA 45.90 314 P 30 51.60 1.7  
CHTO 48.28 300 eP 31 08.90 0.3  
XAN 49.27 323 P 31 16.00 0.0  
1.0s 8.90nm 4.6mb  
BJI 50.06 334 eP 31 34.00 12.2X  
e 31 52.50 74kmX  
CN2 50.08 344 eP 31 21.60 -0.3  
0.8s 4.70nm 4.5mb  
CD2 50.59 316 iPc 31 26.80 0.7  
0.6s 27.00nm 5.3mb  
LZH 53.74 321 Pc 31 49.70 0.1  
1.0s 29.00nm 5.2mb  
GTA 58.30 322 eP 32 22.60 0.4  
1.0s 8.00nm 4.7mb  
pP 32 51.00 117km  
LSA 59.31 308 P 32 30.70 1.0  
0.6s 7.00nm 4.9mb  
GUN 62.84 304 P 32 53.80 0.4  
PKI 63.11 304 P 32 54.80 -0.3  
0.6s 18.00nm 5.2mb  
KKN 63.30 304 P 32 56.60 0.4  
DMN 63.38 304 P 32 56.60 -0.2  
0.6s 41.00nm 5.5mb  
GKN 63.90 304 P 32 59.60 -0.5  
CSY 65.81 193 iPd 33 11.00 -0.5  
0.6s 34.90nm 5.5mb  
KOD 65.98 283 eP 33 14.50 0.7  
HYB 66.30 291 ePc 33 14.80 -0.7  
1.0s 40.00nm 5.3mb  
GBA 66.59 287 Pc 33 17.00 -0.3  
WMQ 68.30 321 eP 33 27.60 -0.1  
1.0s 9.00nm 4.6mb  
POO 70.91 291 eP 33 42.00 -2.0  
QUE 79.37 302 eP 34 33.50 1.3  
SLKM 82.83 27 eP 34 48.30 -1.1  
FBA 85.44 24 eP 35 01.20 -1.2  
0.4s 2.46nm 4.5mb  
pP 35 30.72 113km  
MHI 86.54 307 eP 35 02.00 -6.6X  
BALM 86.66 28 ePc 35 08.51 -0.1  
SYO 90.64 201 ePc 35 27.60 0.5  
APO 111.59 335 ePKP 40 58.10 -0.9  
0.5s 1.20nm  
BRG 116.54 326 iPKP 41 09.00 0.2  
PRU 116.63 325 PKP 41 09.00 0.0  
CLL 116.84 327 i(PKP) 41 09.40 0.1  
KHC 117.58 325 ePKP 41 11.00 0.1  
1.0s 5.40nm  
GEC2 117.65 324 PKP 41 10.70 -0.4  
0.5s 2.30nm  
e 41 12.30  
e 41 15.00  
KBA 118.69 323 iPKPc 41 12.10 -1.1  
0.6s 2.10nm  
WATA 119.62 324 iPKPc 41 14.90 -0.1  
WTTA 119.62 323 iPKPc 41 14.50 -0.5  
0.5s 8.70nm  
MOTA 119.90 324 iPKPd 41 15.10 -0.4  
SQTA 119.90 324 iPKPc 41 14.90 -0.6  
0.7s 6.40nm  
MEM 120.93 329 iPKPc 41 17.62 0.5  
SNF 121.87 330 PKP 41 19.70 0.8  
DOU 121.97 329 PKP 41 19.90 0.8  
BSF 122.12 326 ePKP 41 19.30 -0.3  
0.6s 9.85nm  
HAU 122.27 326 ePKP 41 19.70 -0.1  
0.6s 11.45nm  
LPG 123.43 324 ePKP 41 22.60 0.1  
0.6s 3.70nm  
LPL 123.43 324 ePKP 41 22.40 0.0  
0.5s 3.45nm  
PGF 123.56 320 ePKP 41 22.40 -0.2  
0.6s 4.35nm  
SBF 123.89 322 ePKP 41 22.80 -0.4  
0.7s 8.95nm  
LOR 124.06 327 ePKP 41 23.20 -0.1  
LBF 124.17 327 ePKP 41 23.50 -0.1  
0.7s 6.40nm  
SSF 124.38 327 ePKP 41 24.10 0.2  
0.7s 7.30nm  
SMF 124.44 326 ePKP 41 24.00 -0.1  
0.7s 6.85nm  
FRF 124.53 322 ePKP 41 24.30 0.0  
AVF 124.63 327 ePKP 41 24.10 -0.3  
0.6s 4.25nm  
LRG 124.77 322 ePKP 41 24.80 0.1  
0.7s 13.55nm



12d 21h

BGF 125.04 327 ePKP 41 25.40 0.2  
0.7s 14.10nm  
LDF 125.30 330 ePKP 41 25.30 -0.3  
FLN 125.37 330 ePKP 41 25.70 0.0  
TCF 125.56 327 ePKP 41 26.50 0.2  
0.7s 14.75nm  
GRR 125.80 330 ePKP 41 26.70 0.1  
LSF 125.95 327 ePKP 41 27.00 0.0  
LPF 126.13 330 ePKP 41 27.40 0.1  
0.6s 12.70nm  
CAF 126.47 325 ePKP 41 28.50 0.4  
RJJ 126.55 326 ePKP 41 28.40 0.2  
LPO 127.11 326 ePKP 41 30.00 0.7  
0.8s 10.90nm  
LFF 127.20 326 ePKP 41 30.00 0.6  
MOCB 142.85 134 PKP 41 55.70 -4.1X  
LPB 143.70 125 PKP 42 00.50 -0.8  
LPAZ 143.80 125 PKP 41 59.70 -2.1  
KIC 146.96 275 PKP 42 06.53 0.2  
0.5s 24.50nm  
SDV 147.11 80 ePKPc 42 06.40 -0.4  
TIC 147.23 276 PKP 42 07.21 0.4  
0.6s 61.50nm  
LIC 147.25 275 PKP 42 07.25 0.4  
0.6s 56.00nm  
LKO 147.54 281 PKP 42 07.43 0.1  
0.4s 71.50nm  
TOV 147.83 78 ePKP 42 10.60 2.8  
RSTA 149.35 160 ePKP 42 07.60 -2.2  
e 42 15.30  
SIV 149.51 132 PKP 42 15.40 5.1X  
VAD 151.55 162 ePKP 42 21.00 7.7X  
BDFB 157.88 153 (PKP) 42 22.37 0.4  
S.D. = 0.8 on 99 of 104 obs.

? JAN 12, 1994 21h 24m 54.44± 1.71s  
31.271 S ±37.2km 68.570 W ±37.0km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)  
RTLL 0.10 124 ePc 25 08.70 -0.2  
(S) 25 19.00  
RTCB 0.29 222 ePc 25 09.50 0.2  
(S) 25 19.50  
CFA 0.44 140 iPc 25 10.30 0.2  
S 25 22.70  
RTCV 0.59 177 iPd 25 11.00 -0.2  
S 25 24.00  
S.D. = 0.4 on 4 of 4 obs.

& JAN 12, 1994 21h 36m 58.99s  
60.547 N 147.408 W  
DEPTH = 12.4km  
SOUTHERN ALASKA (2)  
<ABIC>. ML 2.6 (ABIC).

BC3 0.66 39 eP 37 54.75 -0.9  
BGL 0.66 39 eP 37 37.82 -0.9  
BKG 0.66 39 eP 37 36.27 -0.9  
CDD 0.66 39 eP 37 53.62 -0.9  
CFI 0.66 39 eP 37 11.19 -0.9  
CKL 0.66 39 eP 37 37.66 -0.9  
CKN 0.66 39 eP 37 36.41 -0.9  
CKT 0.66 39 eP 37 35.79 -0.9  
CNPM 0.66 39 eP 37 32.88 -0.9  
CP2 0.66 39 eP 37 37.02 -0.9  
CRP 0.66 39 eP 37 35.87 -0.9  
CTGM 0.66 39 eP 37 46.63 -0.9  
CUT 0.66 39 eP 37 35.41 -0.9  
CVA 0.66 39 eP 37 13.67 -0.9  
DFR 0.66 39 eP 37 38.46 -0.9  
DHY 0.66 39 eP 37 39.47 -0.9  
FID 0.66 39 eP 37 08.01 -0.9  
GHO 0.66 39 eP 37 23.77 -0.9  
eS 37 43.27  
GLB 0.66 39 eP 37 30.68 -0.9  
eS 37 54.83  
HIN 0.66 39 eP 37 08.48 -0.9  
eS 37 16.20  
HMT 0.66 39 eP 37 25.62 -0.9  
ILL 0.66 39 eP 38 02.01 -0.9  
ILB 0.66 39 eP 38 02.41 -0.9  
KLU 0.66 39 eP 37 19.60 -0.9  
KNK 0.66 39 eP 37 17.05 -0.9  
eS 37 30.79  
LTI 0.66 39 eP 37 09.55 -0.9  
MPA 0.66 39 eP 37 15.97 -0.9

MTU 0.66 39 eP 37 09.93 -0.9  
NCG 0.66 39 eP 37 37.05 -0.9  
NCT 0.66 39 eP 37 40.21 -0.9  
NKA 0.66 39 eP 37 31.79 -0.9  
PAX 0.66 39 eP 37 39.67 -0.9  
PLRM 0.66 39 eP 37 22.09 -0.9  
PMR 0.66 39 eP 37 21.88 -0.9  
eS 37 40.87  
PWA 0.66 39 P 37 26.50 -0.9  
PWL 0.66 39 iP 37 09.56 -0.9  
iS 37 17.80  
RAGM 0.66 39 eP 37 22.49 -0.9  
RDW 0.66 39 eP 37 38.89 -0.9  
REF 0.66 39 eP 37 38.87 -0.9  
RS2 0.66 39 eP 37 39.32 -0.9  
SEW 0.66 39 eP 37 17.83 -0.9  
eS 37 32.49  
SKT 0.66 39 eP 37 36.79 -0.9  
SLKM 0.66 39 eP 37 22.24 -0.9  
SML 0.66 39 eP 37 22.65 -0.9  
SNH 0.66 39 eP 37 34.96 -0.9  
SPU 0.66 39 eP 37 35.36 -0.9  
SUA 0.66 39 eP 37 29.36 -0.9  
TGL 0.66 39 eP 37 34.37 -0.9  
TOA 0.66 39 P 37 28.00 -0.9  
TZL 0.66 39 eP 37 29.20 -0.9  
VLZ 0.66 39 eP 37 13.06 -0.9  
eS 37 23.51  
VZW 0.66 39 eP 37 11.08 -0.9  
BALM 2.53 77 eP 37 38.48 -2.1  
53 obs. associated

% JAN 12, 1994 22h 03m 04.03± 1.61s  
39.007 N ± 8.7km 30.433 E ±12.7km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 3.1 (ISK).

ALT 0.26 281 iPg 03 08.70 -0.8  
eSg 03 11.80  
KHL 0.99 227 ePn 03 22.90 0.1  
GPA 1.28 356 iPn 03 27.70 -0.2  
IZI 1.52 331 ePn 03 31.00 -0.4  
DST 1.52 294 ePn 03 31.80 0.4  
EYL 1.57 352 ePn 03 31.60 -0.5  
HRT 1.91 342 ePn 03 37.10 0.2  
EDC 2.39 305 ePn 03 44.00 0.1  
CTT 2.63 325 ePn 03 48.00 0.7  
KGT 2.81 302 ePn 03 50.00 0.2  
S.D. = 0.5 on 10 of 10 obs.

% JAN 12, 1994 22h 55m 43.26± 0.62s  
44.433 N ± 5.5km 7.306 E ± 6.4km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

PZZ 0.16 296 P 55 47.22 0.1  
S 55 49.51  
STV 0.19 176 P 55 47.45 -0.1  
S 55 50.01  
ENR 0.22 158 P 55 48.23 0.1  
S 55 51.20  
BHB 0.41 356 P 55 51.52 -0.1  
S 55 56.97  
ROB 0.43 109 P 55 52.30 0.3  
S 55 58.52  
IMI 0.67 141 P 55 56.34 -0.3  
S 56 05.31  
FIN 0.69 109 P 55 56.80 -0.1  
S.D. = 0.2 on 7 of 7 obs.

% JAN 12, 1994 23h 07m 53.11± 1.02s  
39.108 N ± 9.8km 27.946 E ±12.5km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).  
DST 0.73 47 ePg 08 06.50 -0.9  
eSg 08 17.50  
IZM 0.89 217 ePg 08 10.10 -0.1  
eSg 08 24.40  
EDC 1.24 357 ePn 08 16.00 -0.1  
KGT 1.43 340 ePn 08 19.10 0.0  
IZI 1.70 43 ePn 08 24.10 1.1  
S.D. = 1.0 on 5 of 5 obs.

\* JAN 12, 1994 23h 22m 34.01± 0.70s  
16.853 N ±15.9km 93.636 W ±14.8km  
DEPTH = 177.6 ± 9.1 km  
3.8mb (2 obs.)  
CHIAPAS, MEXICO (61)

SCX 0.97 97 iP 23 01.90 0.4  
iS 23 21.00  
TPX 2.35 145 (P) 23 15.00 -0.2  
OXX 2.96 275 iPd 23 21.92 -0.9  
iS 23 56.00  
LVVM 3.92 317 (P) 23 33.50 -1.1  
PPM 5.24 296 iP 23 54.23 2.0  
ALQ 21.35 330 eP 27 07.00 -1.4  
1.0s 3.50nm 3.8mb  
pP 27 40.60  
SP 27 55.00  
LRM 32.88 335 eP 28 55.00 1.7  
e 29 32.60  
LPAZ 41.43 141 P 30 05.30 -0.3  
LPB 41.64 142 eP 29 50.00 -17.0X  
MOCB 46.77 143 P 30 48.20 0.2  
YKA 47.91 347 eP 30 55.30 -0.5  
0.5s 1.70nm 3.9mb  
S.D. = 1.4 on 10 of 11 obs.

\* JAN 13, 1994 00h 19m 20.41± 0.70s  
19.376 N ± 7.5km 120.932 E ±11.5km  
DEPTH = 33.0km (normal)  
4.5mb (6 obs.)  
PHILIPPINE ISLANDS REGION (248)

PIP 1.09 196 iPd 19 40.00 0.7  
iS 19 54.00  
CVP 1.86 153 iPc 19 50.60 0.0  
iS 20 07.00  
SZP 1.87 194 iPc 19 51.80 1.2  
BCP 2.96 186 eP 20 10.00 3.7X  
BAG 2.97 187 ePc 20 07.50 1.0  
eS 20 46.00  
QCP 4.71 178 eP 20 35.00 3.9X  
QVP 4.73 179 eP 20 32.00 0.8  
TGY 5.24 180 eP 20 53.50 14.8X  
HKC 6.96 296 iP 21 01.80 -0.9  
GZH 7.98 299 P 21 15.20 -1.8  
S 22 39.80  
QIZ 10.48 270 eP 21 50.00 -1.6  
XAN 18.10 326 P 23 33.70 2.7X  
CD2 19.30 310 iPc 23 47.20 1.6  
TIY 19.72 340 eP 23 51.60 1.4

Z 20s 0.75um  
N 15s 0.51um  
CHTO 20.79 272 eP 24 02.80 1.4  
LZH 22.43 321 eP 24 19.00 1.0  
1.5s 27.00nm 4.5mb  
sP 24 29.00  
WRA 41.23 161 P 27 00.10 -3.9X  
0.4s 4.80nm 4.6mb  
WB2 41.23 161 iPc 26 59.60 -4.4X  
0.5s 5.70nm 4.6mb  
ASPA 44.61 163 eP 27 29.00 -2.6  
1.2s 5.80nm 4.3mb  
WARB 45.62 173 eP 27 37.50 -2.1  
MBC 77.98 12 eP 31 17.00 0.5  
RES 83.42 9 eP 31 45.50 0.1  
0.9s 3.00nm 4.4mb  
YKA 87.48 23 eP 32 05.20 -0.5  
0.8s 4.30nm 4.8mb  
S.D. = 1.4 on 17 of 23 obs.

\* JAN 13, 1994 00h 33m 49.30± 1.31s  
29.506 N ± 5.2km 34.862 E ±12.7km  
DEPTH = 10.0km (geophysicist)  
EGYPT (553)

AQBJ 0.28 36 Pc 33 56.49 1.4  
HQL 0.29 145 iPd 33 56.60 1.3  
eS 34 00.00  
SRFA 0.64 153 iPd 34 02.00 -0.1  
eS 34 06.30  
NAQJ 0.75 48 Pd 34 04.14 0.1  
MDRJ 0.84 94 Pd 34 05.27 -0.3  
HITJ 0.88 74 Pd 34 06.23 -0.1  
AYN 1.18 122 eP 34 10.00 -1.3  
eS 34 24.00  
DHLJ 1.39 20 Pc 34 14.57 -0.1  
LISJ 1.81 17 Pc 34 20.72 0.1



13d 00h

MKRJ 2.15 18 Pc 34 24.67 -1.0  
 MASJ 2.34 18 Pc 34 28.50 0.1  
 S.D. = 0.9 on 11 of 11 obs.

\* JAN 13, 1994 01h 14m 04.17± 2.82s  
 36.766 N ± 9.3km 12.171 W ± 25.9km  
 DEPTH = 10.0km (geophysicist)  
 NORTH ATLANTIC OCEAN (402)  
 mbLg 3.2 (MDD).

-----  
 EVAL 4.41 78 iPd 15 13.56 0.9  
 EJIF 5.40 91 iPd 15 28.11 1.4  
 JHA 5.50 155 iP 15 29.00 0.8  
 EPRU 5.57 86 iPc 15 29.20 0.1  
 EHOR 5.62 77 iPd 15 29.97 0.2  
 EPLA 5.81 54 iPc 15 32.86 0.4  
 CIA 5.91 151 iP 15 33.50 -0.3  
 TZC 6.56 133 eP 15 44.00 0.9  
 OUK 6.59 146 iP 15 42.70 -0.8  
 MIF 6.69 118 eP 15 44.00 -0.9  
 PAB 6.76 63 ePn 15 45.50 -0.4  
 TZK 7.05 110 iP 15 49.00 -0.8  
 GUD 7.37 56 eP 15 54.24 -0.2  
 EVIA 7.89 73 iPd 16 00.44 -1.3  
 S.D. = 0.9 on 14 of 14 obs.

\* JAN 13, 1994 01h 26m 38.16± 0.84s  
 39.180 N ± 8.3km 75.748 E ± 11.4km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 7 obs.)  
 SOUTHERN XINJIANG, CHINA (321)

KSH 0.33 33 iPgD 26 45.50 -0.9  
 WMQ 10.09 59 eP 26 53.00 1.1  
 Z 10s 0.57um  
 NDI 10.54 173 iPnd 29 12.00 2.0  
 QUE 11.52 222 eP 29 23.80 0.2  
 MHI 13.18 262 eP 29 34.00 -11.7X  
 GKN 13.37 144 P 29 46.80 -1.5  
 0.6s 13.00nm 5.0mb  
 KKN 13.86 142 P 29 47.40 -7.3X  
 0.4s 5.00nm 4.6mb  
 DMN 13.93 143 P 29 54.10 -1.5  
 0.6s 13.00nm 4.9mb  
 GUN 14.05 140 P 29 57.00 -0.3  
 0.4s 5.00nm 4.6mb  
 PKI 14.10 142 P 29 56.60 -1.4  
 0.6s 7.00nm 4.5mb  
 GTA 18.62 82 eP 30 57.00 1.8  
 HYB 21.82 173 eP 31 31.00 1.5  
 LZH 22.43 89 eP 31 42.00 6.4X  
 GBA 25.52 176 P 32 09.00 3.7X  
 HFS 43.36 320 eP 34 37.50 -1.1  
 0.5s 2.80nm 4.3mb  
 GEC2 44.52 304 P 34 41.80 -6.5X  
 0.9s 0.52nm 3.4mb X  
 YKA 78.33 5 eP 38 36.20 0.1  
 0.8s 1.20nm 4.0mb  
 KIC 78.64 269 P 38 44.10 5.4X  
 S.D. = 1.5 on 12 of 18 obs.

% JAN 13, 1994 02h 20m 47.02± 1.91s  
 26.718 S ± 13.2km 26.271 E ± 22.8km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)

KSR 1.02 34 eP 21 08.00 1.1  
 S 21 21.50  
 SEK 2.00 143 eP 21 23.00 1.0

SLR 2.05 62 iPd 21 21.10 -1.7  
 S 21 43.50  
 FRS 3.14 195 eP 21 37.50 -0.5  
 S 22 13.50  
 BFT 3.54 74 eP 21 44.00 0.0  
 S 22 21.50  
 S.D. = 1.6 on 5 of 5 obs.

& JAN 13, 1994 02h 23m 37.37s  
 37.632 N 118.962 W  
 DEPTH = 7.3km  
 CALIFORNIA-NEVADA BORDER REGION ( 40)  
 <GM-P>. MD 3.0 (GM). ML 3.1  
 (BRK), 3.1 (GS).

MEMM 0.04 28 eP 23 38.90 -0.1  
 MMMP 0.06 247 iPc 23 39.22 -0.3  
 CLKR 0.12 111 P 23 40.02 -0.2  
 ORC 0.24 89 P 23 42.38 -0.1  
 MRCM 0.36 84 iPc 23 44.70 -0.1  
 MTUM 0.42 131 iPd 23 45.56 -0.4  
 CWCN 0.54 105 P 23 48.00 -0.2  
 BONR 0.61 58 iPc 23 49.15 -0.6  
 FRI 0.87 223 iP 23 53.80 -0.6  
 S 24 05.11  
 MSTM 1.18 284 P 23 58.97 -0.6  
 CMB 1.20 290 eP 23 59.22 -0.7  
 TNP 1.45 71 eP 24 04.71 0.5  
 KVN 1.57 25 eP 24 06.07 0.2  
 BAVM 1.64 271 P 24 12.03 5.3  
 BRMM 1.69 242 P 24 08.65 1.3  
 PARM 1.77 219 P 24 10.40 1.8  
 PCL 1.94 253 P 24 12.36 1.3  
 NMC 1.98 154 P 24 13.81 2.2  
 EKH 2.01 242 P 24 13.96 1.8  
 LTR 2.02 249 P 24 13.30 1.2  
 PRI 2.02 223 iPd 24 12.82 0.5  
 S 24 41.22

GHS 2.05 256 P 24 14.35 1.6  
 TOW 2.06 152 P 24 15.88 3.1  
 ARN 2.06 263 eP 24 13.03 0.2  
 BSLM 2.09 247 P 24 14.73 1.6  
 WOFM 2.10 174 P 24 15.48 2.0  
 PHAM 2.13 213 eP 24 14.72 0.9  
 MHC 2.15 263 ePc 24 15.46 1.2  
 S 24 43.72  
 SAO 2.16 247 ePc 24 15.30 1.0  
 S 24 42.67  
 COE 2.19 261 eP 24 15.49 0.8  
 WBSM 2.19 162 P 24 17.69 2.8  
 FRP 2.20 247 P 24 15.67 0.8  
 PSAM 2.23 225 P 24 16.98 1.8  
 TPNV 2.27 107 ePn 24 16.77 0.8  
 BCWM 2.47 238 P 24 20.04 1.2  
 BCH 2.60 201 eP 24 20.89 0.2  
 ZSP 2.63 278 eP 24 21.51 0.6  
 MARC 2.64 187 P 24 23.25 2.1  
 ORV 2.76 315 eP 24 23.36 0.5  
 ABL 2.78 184 (P) 24 23.97 0.6  
 GSC 2.90 143 (P) 24 24.50 -0.4  
 ARUT 4.38 86 (P) 24 45.48 -0.5  
 42 obs. associated

% JAN 13, 1994 02h 42m 56.70± 3.24s  
 33.431 S ± 9.2km 72.202 W ± 23.6km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF CENTRAL CHILE (134)  
 MD 3.9 (SAN).

LCCH 0.53 95 iP+ 43 07.67 0.2  
 S 43 16.49  
 LNV 0.84 129 iP+ 43 12.81 -0.1  
 S 43 25.74  
 TACH 1.08 102 iP+ 43 16.91 -0.1  
 S 43 32.95  
 ROCH 1.10 66 iP 43 17.34 -0.2  
 S 43 33.33  
 PEL 1.30 78 iP+ 43 20.91 0.1  
 S 43 39.49  
 PCH 1.42 98 iP 43 22.27 -0.4  
 S 43 42.73  
 CACH 1.50 118 iP+ 43 24.18 0.4  
 S 43 46.06  
 JACH 1.54 62 iP 43 24.60 0.2  
 S 43 46.78  
 FCH 1.60 87 iPd 43 25.35 -0.1

iS 43 49.12  
 S.D. = 0.3 on 9 of 9 obs.

? JAN 13, 1994 03h 56m 40.15± 2.79s  
 39.732 N ± 14.6km 24.119 E ± 22.2km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)

PAIG 0.39 300 ePg 56 48.12 0.0  
 eSg 56 53.44  
 OUR 0.61 350 ePg 56 53.28 0.8  
 SRS 1.44 344 ePb 57 05.33 -1.0  
 eSb 57 21.80  
 AGG 1.56 243 iPb 57 08.08 0.1  
 S.D. = 1.3 on 4 of 4 obs.

? JAN 13, 1994 04h 26m 56.27± 3.64s  
 38.823 N ± 29.8km 23.004 E ± 12.6km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)

AGG 0.56 291 ePg 27 07.70 0.0  
 eSg 27 16.30  
 PAIG 1.22 25 iPg 27 19.05 0.1  
 LIT 1.34 343 ePb 27 20.94 0.0  
 iSb 27 38.38  
 OUR 1.69 26 iPb 27 25.98 0.1  
 SRS 2.34 11 ePn 27 35.02 -0.3  
 iSn 28 03.86  
 KNT 2.34 358 ePn 27 35.46 0.1  
 S.D. = 0.2 on 6 of 6 obs.

JAN 13, 1994 04h 27m 35.56± 0.33s  
 43.066 N ± 4.1km 0.619 W ± 2.6km  
 DEPTH = 10.0km (geophysicist)  
 PYRENEES (378)  
 ML 3.1 (LDG). mbLg 3.0 (MDD).

ESCF 0.03 70 Pg 27 37.16 -0.5  
 Sg 27 38.09  
 ATE 0.06 288 Pg 27 37.29 -0.6  
 Sg 27 38.31  
 ISSF 0.13 253 Pg 27 38.50 -0.4  
 Sg 27 40.95  
 OGE 0.15 46 Pg 27 39.33 0.3  
 LHE 0.15 181 Pg 27 38.54 -0.7  
 Sg 27 40.84  
 MADF 0.17 298 Pg 27 39.52 0.1  
 Sg 27 42.36  
 JAU 0.19 99 Pg 27 39.91 0.1  
 BOH 0.29 277 Pg 27 41.67 0.0  
 ELYF 0.29 291 Pg 27 41.93 0.2  
 Sg 27 46.54  
 ELIZ 0.67 279 iPc 27 48.41 -0.5  
 eS 27 57.30  
 EPF 0.70 93 Pg 27 49.40 -0.1  
 Sg 28 00.00  
 EGRA 0.90 165 eP 27 57.50 4.7X  
 eS 28 15.00  
 ECRI 1.46 252 eP 28 02.80 0.7  
 eS 28 21.70  
 LPO 2.08 38 Pg 28 15.00 4.1X  
 Sg 28 42.40  
 LFF 2.11 27 Pn 28 11.80 0.4  
 Pg 28 16.50  
 Sg 28 43.40  
 EROQ 2.37 161 eP 28 23.60 8.5X  
 eS 28 53.60  
 ETOR 2.49 206 eP 28 17.75 0.9  
 CAF 2.68 45 Pn 28 20.00 0.4  
 Pg 28 27.10  
 Sg 29 00.90  
 RJF 2.71 34 Pg 28 26.50 6.5X  
 Sg 29 02.30  
 MFF 3.55 5 Pg 28 42.10 10.3X  
 Sg 29 27.00  
 TCF 3.80 31 Pg 28 46.50 11.1X  
 Sg 29 36.90  
 MAF 3.89 35 Pn 28 36.90 0.3  
 Pg 28 48.40  
 Sg 29 39.90  
 BGF 4.27 34 Pn 28 41.30 -0.8  
 Pg 28 55.50  
 Sg 29 50.70  
 S.D. = 0.5 on 17 of 23 obs.

& JAN 13, 1994 05h 19m 08.17s



13d 05h

60.430 N 153.238 W  
 DEPTH = 142.7km  
 3.6mb ( 2 obs.)  
 SOUTHERN ALASKA  
 <AEIC>.

NCT	0.20	49	iP	19 27.15	0.8
			eS	19 42.49	
RDW	0.22	76	P	19 27.10	0.6
RED	0.23	93	eP	19 26.92	0.5
			eS	19 42.04	
RS2	0.24	82	P	19 27.20	0.6
REF	0.27	77	eP	19 27.12	0.5
			eS	19 43.20	
DFR	0.32	59	P	19 27.20	0.6
ILIM	0.38	158	iP	19 27.56	0.7
			eS	19 43.10	
INE	0.38	167	eP	19 27.57	0.6
			eS	19 43.55	
OPT	0.78	180	iP	19 30.05	-0.7
			eS	19 46.63	
BKG	0.80	36	iP	19 30.06	-0.9
PDB	0.80	217	iP	19 29.87	-1.0
			eS	19 46.91	
CKL	0.89	29	eP	19 31.05	-0.7
CKT	0.92	33	iP	19 31.00	-1.0
BGL	0.93	26	iP	19 31.53	-0.6
CKN	0.95	33	iP	19 31.37	-0.8
SPU	0.95	37	P	19 31.00	-1.2
CP2	0.97	30	iPc	19 31.13	-1.4
			eS	19 50.75	
CRP	0.99	32	iPc	19 31.24	-1.4
CGLM	1.07	34	iP	19 32.05	-1.2
AUW	1.07	186	P	19 32.40	-0.7
AUH	1.07	186	eP	19 32.37	-0.9
			eS	19 51.88	
AUP	1.08	185	eP	19 32.05	-1.3
			eS	19 51.60	
AUE	1.08	184	eP	19 32.08	-1.1
			eS	19 51.44	
AUI	1.10	185	P	19 32.40	-1.0
NCG	1.11	28	P	19 32.70	-1.0
HOM	1.11	133	eP	19 32.35	-1.2
			eS	19 51.11	
XLV	1.24	141	eP	19 33.25	-1.6
SVW	1.35	301	eP	19 34.50	-1.5
BRK	1.35	119	eP	19 34.38	-1.6
			eS	19 54.28	
CNPM	1.36	131	eP	19 34.49	-1.5
			eS	19 54.75	
SYI	1.88	166	P	19 39.50	-2.3
			S	20 04.90	
PLRM	2.32	58	eP	19 46.88	-0.2
PWL	2.45	78	eP	19 47.22	-1.6
GHO	2.49	55	eP	19 49.49	0.1
			eS	20 19.33	
KDC	2.72	172	eP	19 48.24	-3.9
SML	2.75	58	eP	19 52.15	-0.5
			eS	20 22.92	
TTA	2.84	333	eP	19 51.63	-2.1
MCK	3.88	30	eP	20 05.81	-1.6
TZL	4.11	63	eP	20 07.64	-2.7
PAX	4.49	52	eP	20 12.68	-2.9
NEA	4.59	23	eP	20 14.26	-2.5
WRH	4.71	28	eP	20 15.43	-2.9
MLY	4.76	13	eP	20 16.34	-2.8
DDM	4.83	43	eP	20 18.65	-1.4
CCB	4.92	28	eP	20 18.13	-3.1
HDA	4.94	33	eP	20 18.44	-3.1
MDM	5.10	25	eP	20 20.70	-2.9
FBA	5.14	27	eP	20 20.90	-3.3
TGL	5.14	82	eP	20 21.33	-3.0
SNH	5.18	88	eP	20 21.68	-3.1
ILI	5.25	31	eP	20 22.06	-3.6
ILB	5.25	31	eP	20 22.18	-3.5
GLM	5.31	28	eP	20 23.60	-2.9
CYK	5.37	89	eP	20 24.76	-2.4
BALM	5.38	79	eP	20 24.69	-2.8
IM3	5.58	358	eP	20 27.73	-2.4
IMA	5.66	358	eP	20 28.79	-2.6
YAH	5.70	86	eP	20 29.42	-2.5
CTGM	5.87	80	eP	20 31.41	-2.8
BM3	7.97	25	eP	20 57.63	-4.8
YKA	18.39	67	eP	23 10.00	-4.3
	0.6s	1.50nm		3.5mb	
MBC	19.67	23	eP	23 27.50	-0.1
	1.0s	4.00nm		3.8mb	

62 obs. associated  
 & JAN 13, 1994 05h 19m 14.17s  
 60.616 N 152.153 W  
 DEPTH = 114.8km  
 SOUTHERN ALASKA  
 <AEIC>.

RED	0.36	237	eP	19 31.22	0.1
NKA	0.47	74	eP	19 32.85	1.3
SLKM	0.96	96	eP	19 34.89	-0.8
SUA	1.09	38	iP	19 37.00	-0.2
			eS	19 53.43	
CNPM	1.19	157	eP	19 38.68	0.6
			eS	19 54.73	
MPA	1.39	94	eP	19 39.36	-0.9
SKT	1.40	12	iP	19 39.22	-1.3
SEW	1.44	110	P	19 39.50	-1.4
PWA	1.52	46	P	19 41.20	-0.6
			S	20 09.70	
PLRM	1.76	55	eP	19 43.49	-1.3
			eS	20 06.47	
PMR	1.76	55	eP	19 43.22	-1.6
			eS	20 12.83	
PWL	1.89	81	eP	19 45.00	-1.5
GHO	1.95	52	iP	19 46.06	-1.2
KNK	1.97	64	iP	19 46.36	-1.1
			eS	20 10.90	
CUT	2.01	26	eP	19 46.80	-1.1
SML	2.20	55	eP	19 49.10	-1.4
CFI	2.22	73	eP	19 49.26	-1.3
MTU	2.33	104	eP	19 50.57	-1.5
VZW	2.78	78	eP	19 56.33	-1.7
FID	2.79	85	eP	19 55.50	-2.8
HIN	2.80	92	eP	19 56.99	-1.4
VLZ	2.89	77	eP	19 57.94	-1.6
TRF	2.98	16	eP	19 58.27	-2.6
KLU	3.16	71	eP	20 01.50	-1.7
			eS	20 40.96	
CVA	3.16	88	eP	20 01.74	-1.4
RND	3.20	28	eP	20 02.08	-1.7
			eS	20 44.21	
TOA	3.24	60	P	20 03.40	-0.9
DHY	3.35	40	eP	20 04.17	-1.7
RAGM	3.71	90	eP	20 09.12	-1.4
HMT	3.92	91	eP	20 11.67	-1.7
GLB	4.14	75	eP	20 14.91	-1.6

31 obs. associated  
 & JAN 13, 1994 05h 51m 45.59± 1.11s  
 43.038 N ± 8.3km 18.736 E ± 6.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 1.6 (TTG).

BRY	0.20	226	iPg	51 50.38	0.4
			iSg	51 53.29	
NKY	0.30	139	iPg	51 52.23	0.4
			iSg	51 56.98	
PLE	0.56	59	iPg	51 56.98	-0.1
			iSg	52 05.73	
HCY	0.62	197	iPg	51 57.54	-0.4
			iSg	52 06.29	
TTG	0.72	147	iPg	51 59.32	-0.4
			iSg	52 10.17	
BDV	0.76	175	iPg	52 00.35	0.0
			iSg	52 11.42	
IVA	0.87	101	iPg	52 02.28	-0.1
			iSg	52 15.60	
PVY	1.01	115	iPg	52 05.14	0.3
			iSg	52 20.25	

S.D. = 0.4 on 8 of 8 obs.  
 JAN 13, 1994 06h 15m 34.34± 0.60s  
 41.150 N ± 8.7km 25.994 E ± 4.7km  
 DEPTH = 10.0km (geophysicist)  
 GREECE-BULGARIA BORDER REGION (363)  
 ML 3.4 (THE), 3.3 (ISK).

ALN	0.26	171	iPg	15 39.08	-0.7
			eSg	15 41.88	
DMK	1.49	63	iPn	16 01.00	-0.1
EDC	1.63	119	ePn	16 04.00	0.8
OUR	1.73	243	ePb	16 05.40	0.8
			iSb	16 29.04	
SRS	1.81	270	ePb	16 05.68	-0.2
			eSb	16 30.76	

CTT	1.84	89	ePn	16 05.30	-0.9
ISK	2.32	91	ePn	16 13.00	-0.1
KNT	2.34	271	ePn	16 13.08	-0.4
DST	2.54	127	ePn	16 19.60	3.3X
HRT	2.80	96	ePn	16 20.80	0.7
	S.D. = 0.7	on	9 of 10 obs.		

& JAN 13, 1994 06h 48m 56.09s  
 54.544 N 156.673 W  
 DEPTH = 24.9km  
 4.3mb ( 11 obs.)  
 SOUTH OF ALASKA ( 17)  
 <AEIC>. ML 4.1 (AEIC).

SPBA	2.34	292	eP	49 31.64	-2.0
			eS	49 59.82	
SDN	2.35	291	eP	49 31.01	-2.7
KDC	3.97	34	iPc	49 55.11	-1.7
CDD	4.70	20	eP	50 05.51	-1.8
SYI	4.71	28	eP	50 05.56	-1.8
AUH	5.15	19	eP	50 11.52	-2.0
AUP	5.15	19	(P)	50 11.21	-2.4
PDB	5.43	13	eP	50 15.10	-2.4
OPT	5.45	19	eP	50 16.62	-1.3
CNPM	5.81	29	eP	50 20.69	-2.2
			eS	51 25.98	
HOM	5.81	26	eP	50 21.87	-1.0
INE	5.87	18	eP	50 21.90	-1.9
ILIM	5.90	18	eP	50 22.35	-1.9
BRK	6.11	29	eP	50 24.00	-3.1
			eS	51 31.01	
RDW	6.31	18	eP	50 27.12	-2.9
REF	6.33	18	eP	50 28.23	-2.2
NCT	6.36	17	eP	50 28.22	-2.5
DFR	6.43	18	eP	50 29.93	-1.8
SVW	6.61	4	eP	50 30.97	-3.2
SEW	6.81	32	eP	50 35.81	-1.0
SLKM	6.91	28	eP	50 35.08	-3.3
			eS	51 49.24	
BKG	6.95	18	eP	50 37.00	-2.0
SPU	7.10	18	eP	50 38.11	-2.9
BGL	7.11	17	eP	50 38.84	-2.4
CP2	7.14	17	eP	50 39.31	-2.4
MPA	7.14	30	eP	50 38.90	-2.6
CRP	7.16	18	eP	50 39.13	-2.8
CGLM	7.22	18	eP	50 39.81	-3.0
MTU	7.32	38	eP	50 41.15	-3.0
SUA	7.62	22	eP	50 45.45	-2.9
PWL	7.74	32	eP	50 46.31	-3.7
SKT	7.93	18	eP	50 49.23	-3.4
PWA	7.98	24	eP	50 50.49	-2.8
HIN	8.02	39	eP	50 50.48	-3.5
PMR	8.11	26	eP	50 51.24	-3.9X
KNK	8.15	29	eP	50 51.11	-4.6
CFI	8.17	32	eP	50 52.01	-3.9
GHO	8.32	26	eP	50 54.64	-3.5
CVA	8.40	40	eP	50 55.82	-3.3
TTA	8.42	2	eP	50 55.75	-3.7
VZW	8.47	35	eP	50 56.51	-3.6
SML	8.51	28	eP	50 57.82	-2.8
CUT	8.56	20	eP	50 58.57	-2.8
VLZ	8.60	36	eP	50 58.36	-3.4
RAGM	8.72	43	eP	51 00.26	-3.3
HMT	8.85	44	eP	51 03.14	-2.3
KLU	8.99	35	eP	51 04.03	-3.4
TOA	9.37	32	eP	51 09.50	-3.1
TRF	9.52	18	eP	51 09.99	-4.7
GLB	9.70	39	eP	51 13.52	-3.6
DHY	9.81	26	eP	51 15.56	-3.2
YAH	9.92	48	eP	51 17.58	-2.8
BALM	10.03	44	eP	51 18.29	-3.4
CTGM	10.40	46	eP	51 24.83	-2.0
NEA	10.77	18	eP	51 25.43	-6.2
WRH	10.86	20	eP	51 27.46	-5.4
MDM	11.27	19	eP	51 33.09	-5.4
FBA	11.30	20	eP	51 32.84	-6.0
INK	17.52	29	eP	52 59.50	-0.3
	0.7s	7.00nm		3.9mb	
YKA	22.98	53	eP	54 00.90	1.6
	0.6s	1.00nm		3.5mb	
NEW	25.20	88	eP	54 23.82	2.9
	0.5s	2.05nm		4.0mb	
MBC	25.84				



13d 06h

0.7s 4.12nm 4.5mb  
 GOL 37.05 92 eP 56 09.00 3.1  
 0.7s 1.21nm 3.8mb  
 FRB 42.58 41 eP 56 52.00 1.0  
 DAG 46.27 12 iPd 57 20.90 0.4  
 0.6s 6.00nm 4.7mb  
 KAF 63.66 358 iP 59 26.50 -0.3  
 0.6s 5.50nm 4.9mb  
 GEC2 76.67 7 PKP 00 47.40 1.2  
 1.2s 2.05nm 4.0mb  
 GUN 81.91 308 P 01 15.80 0.7  
 0.6s 10.00nm 5.0mb  
 GKN 82.40 309 P 01 18.00 0.6  
 PKI 82.42 308 P 01 18.20 0.5  
 0.7s 10.00nm 5.0mb  
 DMN 82.52 308 P 01 18.80 0.6  
 74 obs. associated

\* JAN 13, 1994 07h 28m 10.93± 0.52s  
 40.477 N ± 7.4km 26.078 E ± 4.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.3 (ISK).

ALN 0.42 357 iPg 28 21.20 1.7  
 eSg 28 30.44  
 EDC 1.37 95 iPn 28 36.00 0.0  
 OUR 1.61 266 ePb 28 39.30 -0.1  
 iSb 29 01.74  
 DMK 1.85 43 ePn 28 41.50 -1.4  
 CTT 1.91 69 ePn 28 42.70 -1.1  
 PAIG 1.92 254 ePn 28 42.64 -1.3  
 SRS 1.99 290 ePn 28 45.44 0.4  
 SOH 2.10 280 ePn 28 47.68 1.0  
 DST 2.14 113 ePn 28 47.90 0.7  
 IZM 2.27 156 ePn 28 50.00 0.9  
 KNT 2.51 287 ePn 28 51.04 -1.4  
 GRG 2.83 281 ePn 28 57.41 0.3  
 ALT 3.42 113 ePn 29 05.70 0.3  
 S.D. = 1.1 on 13 of 13 obs.

? JAN 13, 1994 07h 51m 03.52± 7.67s  
 40.676 N ±14.3km 27.463 E ±63.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.9 (ISK).

EDC 0.45 137 iPg 51 12.00 -0.7  
 eSg 51 19.00  
 CTT 0.87 57 iPg 51 19.70 -0.6  
 eSg 51 34.40  
 DST 1.39 140 ePn 51 29.10 0.1  
 IZI 1.57 102 ePn 51 32.70 1.2  
 S.D. = 1.4 on 4 of 4 obs.

& JAN 13, 1994 08h 02m 38.90s  
 46.887 N 118.699 W  
 DEPTH = 0.1km

WASHINGTON (29)  
 <SEA-P>. MD 3.4 (SEA).

WRD 0.32 285 P 02 46.16 1.0  
 ET3 0.35 208 P 02 46.90 1.0  
 OT2 0.40 246 P 02 48.15 1.2  
 CRF 0.48 263 P 02 49.23 0.8  
 LOCW 0.53 252 P 02 50.33 0.8  
 GBL 0.60 241 P 02 51.57 0.7  
 WAH2 0.61 258 P 02 51.89 0.9  
 WIW 0.61 222 P 02 51.66 0.6  
 EPH 0.77 308 P 02 54.54 0.3  
 MDW 0.78 250 P 02 55.05 0.6  
 BVW 0.82 265 P 02 55.64 0.5  
 SAW 0.94 330 P 02 57.46 -0.3  
 BRVW 0.98 246 P 02 58.97 0.6  
 DPW 1.04 19 ePc 02 59.09 -0.4  
 eS 03 13.74  
 WTV 1.18 314 P 03 01.71 -0.2  
 EBG 1.28 272 P 03 03.88 0.3  
 ETW 1.32 303 P 03 03.43 -1.0  
 TBM 1.33 283 P 03 04.31 -0.1  
 NEW 1.74 37 ePd 03 09.24 -1.4  
 eS 03 31.92  
 VGB 1.99 227 eP 03 13.08 -1.2  
 eS 03 39.84  
 LON 2.14 267 eP 03 15.51 -0.9  
 GMW 2.86 285 eP 03 24.66 -2.1  
 MCW 3.31 304 (P) 03 34.34 1.2

HBMT 4.36 102 ePn 03 47.20 -1.0  
 LRM 4.46 102 ePn 03 48.40 -1.1  
 25 obs. associated

JAN 13, 1994 09h 43m 06.50± 0.19s  
 17.350 S ± 4.0km 14.486 W ± 4.1km  
 DEPTH = 10.0km (geophysicist)  
 5.7mb (91 obs.)

SOUTHERN MID-ATLANTIC RIDGE (410)  
 Mw 5.1 (HRV).

CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN

L.P.B.: 15S, 20C  
 Centroid Location:

Origin Time 09:43:15.9 0.6  
 Lat 17.31S 0.08 Lon 14.76W 0.05

Dep 15.0 FIX Half-duration 1.2  
 Moment Tensor; Scale 10\*\*16 Nm

Mrr= 6.50 0.53 Mtt=-1.91 0.60  
 Mff=-4.59 0.43 Mrt= 0.00 0.00

Mrf= 0.00 0.00 Mtf= 1.47 0.70  
 Principal Axes:

T Val= 6.50 Plg=90 Azm=180  
 N -1.27 0 156

P -5.23 0 66  
 Best Double Couple: Mo=5.9\*10\*\*16

NP1: Strike=156 Dip=45 Slip= 90  
 NP2: 336 45 90

LIC 25.22 23 Pd 48 34.06 -0.1  
 2.1s 299.50nm 5.6mb

KIC 25.45 23 iPd 48 36.32 0.0  
 1.9s 279.00nm 5.6mb

TIC 25.61 22 Pd 12 49.00  
 1.8s 217.00nm 5.6mb

LKO 28.13 19 Pd 49 00.05 -0.9  
 1.6s 106.00nm 5.4mb

WIN 30.10 105 eP 49 16.50 -2.4  
 1.0s 40.00nm 5.2mb

BDF 32.06 268 eP 49 35.70 -0.4  
 e 49 46.40

i 50 14.10  
 e 50 34.50

i 50 41.00  
 e 52 50.10

i 53 35.90  
 BDFB 32.17 268 eP 49 35.44 -1.6

1.3s 34.05nm 5.1mb  
 POF 33.68 117 eP 49 51.00 1.1

0.5s 10.00nm 5.0mb  
 LBTB 38.04 109 eP 50 27.31 0.3

1.2s 22.33nm 4.8mb  
 FRS 38.34 116 eP 50 20.00 -9.4X

BCAO 39.13 59 iPd 50 36.00 -0.3  
 1.0s 40.00nm 5.0mb

i 51 07.00  
 KSR 39.26 110 eP 50 37.00 -0.4

SEK 40.14 113 eP 50 50.80 6.2X  
 1.0s 60.00nm 5.2mb

SLR 40.50 109 eP 50 44.50 -3.1X  
 1.0s 40.00nm 5.1mb

Z 20s 12.60um 5.8MsZ  
 BUL 40.83 101 iPd 50 49.50 -0.8

BFT 42.09 109 eP 51 04.50 3.8X  
 1.0s 40.00nm 5.1mb

LPA 42.38 237 eP 51 04.00 1.3  
 Z 20s 1.42um 4.9MsZ

eS 57 26.00  
 CIR 43.55 102 iPd 50 54.10 -18.4X

MTD 43.96 96 iPd 51 00.00 -15.9X  
 SIV 44.57 265 P 51 18.80 -2.0

MOCB 48.27 257 P 51 50.80 0.3  
 LPB 51.15 263 P 52 12.80 0.2

Z 18s 5.50um 5.6MsZ  
 LR 07 42.00

LPZ 51.22 263 iPc 52 11.80 -1.6  
 LR 07 37.00

NAI 52.87 78 eP 52 28.50 3.2X  
 EJIF 54.18 9 iPd 52 35.24 0.9

ARE 54.37 262 eP 52 36.00 -0.5  
 EPRU 54.72 9 P 52 39.33 1.0

ENIJ 55.26 12 P 52 42.81 0.6  
 ECOG 55.30 11 P 52 43.16 0.5

EHOR 55.56 9 P 52 44.99 0.6  
 NVL 55.71 170 iPc 52 46.00 0.9

1.0s 58.00nm 5.6mb

e 53 02.00  
 e 53 20.00  
 EHUE 56.00 11 P 52 47.70 0.1  
 EALH 56.27 12 P 52 50.68 1.2  
 EVIA 56.81 11 P 52 53.33 -0.2  
 PAB 57.38 9 eP 52 57.20 -0.3  
 EPLA 57.65 8 P 53 00.21 0.9  
 ECHE 58.03 12 P 53 03.17 1.2  
 NNA 60.35 266 eP 53 15.00 -3.5X  
 1.6s 50.00nm 5.4mb  
 EGRA 60.67 12 P 53 21.14 1.1  
 SYO 61.39 161 ePc 53 25.50 0.8  
 ETER 61.47 15 P 53 26.04 0.5  
 EPF 61.61 12 eP 53 26.90 0.3  
 1.6s 95.75nm 5.7mb  
 SOI 62.15 27 P 53 31.54 1.4  
 2.0s 171.20nm 5.9mb  
 BOG 62.72 285 eP 53 36.00 1.1  
 GRI 62.93 27 P 53 36.09 0.7  
 1.0s 49.70nm 5.7mb  
 LPO 63.37 12 eP 53 38.00 -0.1  
 1.7s 163.20nm 5.9mb  
 LMR 63.39 17 eP 53 38.10 -0.2  
 1.7s 98.50nm 5.7mb  
 PGF 63.41 19 eP 53 38.20 -0.4  
 1.6s 80.20nm 5.7mb  
 LRG 63.46 17 eP 53 38.90 0.2  
 1.5s 88.80nm 5.7mb  
 Z 19s 0.85um 4.9MsZ  
 LFF 63.52 12 eP 53 39.20 0.1  
 1.1s 80.60nm 5.8mb  
 FRF 63.64 17 eP 53 39.80 -0.1  
 1.7s 126.45nm 5.8mb  
 MGR 63.67 25 P 53 40.50 0.3  
 1.4s 105.20nm 5.8mb  
 CAF 63.78 13 eP 53 40.70 -0.2  
 1.6s 119.40nm 5.8mb  
 CALN 63.88 17 P 53 41.73 0.0  
 SGO 63.93 25 P 53 42.72 0.9  
 1.8s 60.80nm 5.5mb  
 RJF 64.03 12 eP 53 42.30 -0.2  
 1.6s 150.50nm 5.9mb  
 Z 23s 0.60um 4.7MsZ  
 MVIF 64.09 17 P 53 43.88 0.8  
 AURF 64.13 17 P 53 43.55 0.2  
 SBF 64.14 17 eP 53 43.20 -0.1  
 1.7s 135.30nm 5.9mb  
 TOUF 64.22 17 P 53 43.88 -0.2  
 AUTN 64.26 17 P 53 44.36 0.1  
 SAOF 64.28 17 P 53 44.40 0.2  
 IMI 64.31 18 P 53 44.49 0.0  
 SDI 64.33 23 P 53 45.06 0.5  
 1.4s 172.30nm 6.1mb  
 STV 64.46 17 P 53 46.28 0.9  
 ENR 64.47 17 P 53 46.19 0.7  
 MNS 64.50 22 P 53 45.81 0.1  
 1.9s 528.30nm 6.4mb  
 DUI 64.53 24 P 53 48.08 2.1  
 1.4s 117.10nm 5.9mb  
 PZZ 64.63 17 P 53 47.24 0.6  
 ROB 64.66 18 P 53 47.42 0.7  
 DOI 64.67 17 P 53 48.52 1.7  
 1.2s 33.00nm 5.4mb  
 FIN 64.68 18 P 53 46.73 -0.1  
 SSB 64.69 15 P 53 45.81 -1.0  
 COLF 64.71 14 P 53 46.52 -0.5  
 AQU 64.74 23 P 53 48.24 1.0  
 1.4s 377.50nm 6.4mb  
 CKI 64.90 18 P 53 48.59 0.4  
 1.6s 265.80nm 6.2mb  
 RRL 64.93 17 P 53 49.39 0.7  
 LSF 64.94 12 eP 53 48.50 0.1  
 1.6s 225.10nm 6.1mb  
 PII 64.95 20 P 53 48.75 0.3  
 0.9s 24.60nm 5.4mb  
 MFF 64.95 11 eP 53 48.50 0.0  
 1.6s 150.50nm 5.9mb  
 BHB 64.99 17 P 53 48.38 -0.4  
 BNI 65.02 16 P 53 50.24 1.1  
 1.5s 67.90nm 5.6mb  
 PCP 65.08 18 P 53 45.82 -3.6X  
 ASS 65.10 22 P 53 49.38 -0.2  
 1.9s 163.60nm 5.9mb  
 TCF 65.11 13 eP 53 49.70 0.1  
 1.6s 143.05nm 5.9mb  
 MAF 65.12 13 eP 53 49.90 0.3  
 1.6s 74.65nm 5.6mb



13d 09h

RSP	65.27	17 P	53 51.04	0.3	FUR	69.16	18 iPc	54 14.80	-0.3	TUL	93.20	307 iPd	56 23.10	0.6
BDI	65.28	20 P	53 50.29	-0.4		1.5s	165.00nm		6.0mb	DAG	93.96	359 iPc	56 26.80	1.7
	1.5s	47.40nm		5.5mb			i	54 19.30			1.4s	20.93nm		5.3mb
CRE	65.34	21 P	53 49.90	-1.3	WLF	69.18	14 iPd	54 15.41	0.3	MEO	95.02	305 iPc	56 30.60	-0.3
	1.9s	95.90nm		5.7mb		1.7s	28.30nm		5.2mb	GBA	95.76	78 P	56 41.00	6.4X
MME	65.43	20 P	53 51.61	-0.3	DOU	69.23	13 P	54 12.40	-3.0	ALQ	101.30	303 Pdiff	57 10.00	10.3X
	1.2s	47.00nm		5.6mb	BHG	69.26	19 eP	54 14.70	-1.0	Z	20s	0.34um		4.9Msz
LPG	65.45	16 eP	53 52.60	0.5	MAW	69.28	156 eP	54 19.80	4.3X	TUC	104.26	300 Pdiff	57 20.00	7.3X
	1.4s	99.35nm		5.8mb		1.4s	46.41nm		5.5mb	Z	20s	0.29um		4.8Msz
LPL	65.47	16 eP	53 52.50	0.4	ENN	70.16	14 eP	54 21.00	0.0	GTA	119.46	54 ePKP	01 58.00	-0.4
	1.2s	80.35nm		5.8mb		1.8s	158.80nm		5.8mb	LZH	122.75	58 ePKP	02 04.00	-0.8
BGF	65.50	13 eP	53 52.10	0.1	TNS	70.26	15 ePc	54 21.80	0.0	Z	22s	0.61um		5.2Msz
	1.0s	22.20nm		5.3mb			ePPc	54 26.00			ePP	03 42.00		
LSD	65.53	17 P	53 53.23	0.7	UZD	70.29	24 eP	54 22.20	0.3	GYA	125.04	70 iPKPd	02 09.80	0.4
BOB	65.55	19 P	53 53.04	0.6	GEC2	70.51	19 P	54 23.00	-0.4	BTO	127.16	52 ePKP	02 13.00	-0.1
	2.4s	804.90nm		6.5mb		1.5s	26.90nm		5.2mb	HHC	128.28	51 ePKP	02 16.30	1.0
SFI	65.57	21 P	53 51.97	-0.4			e	54 27.20		YAK	128.81	21 ePKP	02 16.40	1.0
	1.2s	28.20nm		5.3mb			e	54 35.20			1.0s	20.00nm		
ARV	65.57	22 P	53 51.86	-0.7			e	54 39.00		TIY	129.46	55 ePKP	02 17.40	-0.1
	1.7s	267.90nm		6.2mb			PP	56 58.90		Z	22s	1.04um		5.5Msz
SMF	65.81	14 eP	53 53.90	-0.1			e	57 04.20		E	21s	2.24um		
	1.6s	124.40nm		5.9mb			e	57 09.00		BJI	131.89	51 ePKP	02 23.00	1.1
AVF	65.84	13 eP	53 54.20	0.1	GEC2	70.51	19 e(P)	54 27.40	4.0X	WRA	131.93	139 Pdiff	59 29.50	13.4X
	1.5s	88.80nm		5.7mb		0.8s	3.50nm		4.5mb X		0.7s	0.30nm		
ORX	65.91	17 P	53 51.63	-3.2X	GEC2	70.51	19 PKP	54 30.80	7.4X	WRA	131.93	139 PKP	02 15.90	-6.7X
SSF	66.13	13 eP	53 56.00	0.0	GRF	70.52	17 iPc	54 23.30	-0.1		1.1s	0.30nm		
	1.6s	140.55nm		5.9mb		1.7s	148.00nm		5.8mb	WRA	131.93	139 PKP	02 23.80	1.2
HYF	66.14	13 eP	53 56.30	0.2		Z	21s	0.40um	4.6Msz		1.2s	0.50nm		
LBF	66.16	14 eP	53 55.90	-0.4			e	54 27.90		SNY	136.71	47 PKPc	02 32.90	1.9
	1.8s	95.80nm		5.7mb	WET	70.52	19 iPd	54 23.50	0.1	SHNJ	145.00	55 PKP	02 45.50	-0.5
LPF	66.19	10 eP	53 56.30	0.0		1.6s	129.00nm		5.8mb	KUMJ	145.29	58 PKP	02 46.10	-0.5
	1.5s	89.85nm		5.7mb	KHC	70.73	19 Pd	54 25.30	0.6	HON	145.40	283 PKP	03 00.00	12.9X
VAI	66.35	18 P	53 56.72	-0.7		1.3s	42.00nm		5.4mb	Z	20s	0.25um		5.0Msz
	1.4s	154.20nm		6.0mb			e	54 29.00		YONJ	146.42	52 ePKP	02 51.00	2.6X
LOR	66.40	14 eP	53 57.40	-0.4			e	56 57.50		ASAJ	147.08	31 PKP	02 51.70	2.5X
	1.8s	106.15nm		5.7mb	ZST	71.09	22 iPc	54 26.80	0.0	TKSJ	147.33	53 PKP	02 53.00	3.1X
Z	21s	0.52um		4.7Msz		1.2s	98.00nm		5.8mb	MRRJ	147.46	35 ePKP	02 52.70	2.9X
MDI	66.55	18 P	53 58.15	-0.5	MOX	71.49	17 iPd	54 29.40	0.2	WKYJ	148.41	52 ePKP	02 56.10	4.4X
	1.7s	64.10nm		5.5mb		1.8s	122.00nm		5.7mb	HOOJ	148.66	33 ePKP	02 56.10	4.4X
GRR	66.56	10 eP	53 58.50	-0.2		Z	18s	0.50um	4.8Msz	KUSJ	148.84	30 ePKP	02 55.50	3.5X
	1.1s	33.95nm		5.4mb	PRU	71.78	19 iPd	54 30.60	-0.3	MTMJ	148.92	46 PKP	02 56.70	4.2X
OHR	66.74	28 iP	53 59.30	-0.8		1.9s	219.00nm		5.9mb	MAT	149.22	46 iPKPc	02 56.70	3.8X
LDF	66.88	10 eP	54 00.60	-0.2			ePcP	54 43.90		Z	20s	0.35um		5.2Msz
	1.6s	120.65nm		5.8mb	PSZ	71.89	24 ePc	54 31.90	0.2	NIIJ	149.39	44 PKP	02 57.20	4.1X
FLN	66.99	10 eP	54 01.10	-0.3	CMF	71.92	28 ePd	54 32.00	0.1	YAMJ	149.54	42 ePKP	02 58.10	4.8X
	1.7s	225.00nm		6.1mb	BRG	72.37	18 iP	54 33.80	-0.6	IIDJ	149.55	48 PKP	02 58.10	4.7X
Z	17s	0.43um		4.7MszX		1.7s	44.00nm		5.3mb	OFUJ	150.00	39 ePKP	02 58.40	4.5X
LOMF	67.19	16 P	54 02.45	-0.5			i	54 47.20		CHJJ	150.02	46 PKP	02 58.80	4.7X
CTI	67.39	19 P	54 04.36	0.1	CLL	72.48	18 iP	54 34.80	-0.2		S.D. = 0.8	on 178	of 216 obs.	
	2.2s	212.60nm		5.9mb		2.1s	130.00nm		5.7mb					
BSF	67.63	15 eP	54 04.80	-0.9	MLR	72.50	29 iPc	54 35.00	-0.5		% JAN 13, 1994 09h 52m 22.32± 1.92s			
	1.6s	69.05nm		5.6mb	OKC	72.84	21 P	54 37.80	0.6		40.496 N ±12.9km	22.890 E ± 9.8km		
HAU	67.68	15 eP	54 05.40	-0.5			e	54 42.00			DEPTH = 5.0km	(geophysicist)		
	1.3s	64.25nm		5.7mb	EKA	73.03	7 P	54 39.00	0.8	GREECE			(364)	
RIY	67.68	22 eP	54 05.90	0.0		1.5s	94.20nm		5.7mb		ML 1.4 (THE).			
SKO	67.71	28 iPc	54 06.00	-0.2	SPC	73.06	23 eP	54 31.40	-7.4X					
	1.5s	150.00nm		6.0mb			i	54 38.30		THE	0.15	23 ePg	52 26.00	0.7
VAY	67.72	29 iP	54 05.60	-0.6	VRI	73.14	29 eP	54 38.00	-1.1			eSg	52 27.04	
MOF	67.73	16 P	54 05.28	-1.0	TAB	79.30	45 eP	55 14.00	-0.2	SOH	0.48	47 ePg	52 31.52	-0.4
VITF	67.79	15 P	54 06.21	-0.3	NRA0	80.59	13 P	55 26.70	6.4X			eSg	52 37.16	
TRI	67.79	21 eP	54 06.40	-0.1	LBNH	80.60	322 P	55 30.00	9.2X	GRG	0.59	321 ePg	52 34.08	-0.1
OGA	67.93	19 iPd	54 07.60	-0.1		Z	18s	0.58um	5.0Msz			eSg	52 44.16	
	1.7s	82.00nm		5.6mb	APO	80.93	14 eP	55 21.90	-0.3	KNT	0.67	1 ePg	52 35.44	-0.2
FEL	67.98	16 P	54 07.18	-0.8		1.6s	109.80nm		5.6mb			eSg	52 42.92	
ECH	68.07	15 P	54 07.58	-0.8	LHS	81.38	310 eP	55 25.70	0.6	OUR	0.85	101 ePg	52 39.22	0.0
VOY	68.11	21 eP	54 07.10	-1.6	RSNY	82.31	321 eP	55 30.33	0.6		S.D. = 0.6	on 5	of 5 obs.	
		e	54 08.40			1.5s	76.66nm		5.6mb					
LIBD	68.13	16 P	54 08.05	-0.6	GOGA	82.87	308 P	55 40.00	7.2X		JAN 13, 1994 10h 06m 51.89± 0.26s			
VBY	68.13	22 iPc	54 09.00	0.3		Z	19s	0.36um	4.8Msz		44.324 N ± 1.8km	7.225 E ± 2.8km		
FVI	68.23	20 P	54 09.52	0.2	GAC	83.50	322 eP	55 36.50	0.7		DEPTH = 5.0km	(geophysicist)		
	1.4s	58.00nm		5.6mb	YSNY	83.70	318 eP	55 36.94	0.0	NORTHERN ITALY			(545)	
CDF	68.29	15 eP	54 09.00	-0.8		1.4s	85.00nm		5.8mb		ML 2.5 (GEN), 2.5 (LDG).			
	1.4s	53.60nm		5.5mb		Z	20s	0.52um	4.9Msz	STV	0.11	138 P	06 54.68	0.4
SQTA	68.30	19 iPc	54 08.90	-1.0	MYNC	84.09	309 P	55 50.00	10.9X	ENR	0.17	125 P	06 55.84	0.4
	1.4s	85.70nm		5.7mb		Z	18s	0.27um	4.7Msz	PZZ	0.20	334 P	06 56.38	0.3
WLS	68.31	15 P	54 09.06	-0.8	OBN	84.13	27 eP	55 39.60	0.9	TOUF	0.31	177 Pg	06 58.43	0.2
LJU	68.34	21 eP	54 10.30	0.2		1.8s	95.20nm		5.7mb			Sg	07 02.61	
		i	54 14.80			Z	16s	322.60um	7.8MszX	AUTN	0.36	156 Pg	06 59.47	0.3
MOTA	68.38	18 iPc	54 09.20	-1.3		E	16s	227.70um				Sg	07 04.82	
WTTA	68.47	19 iPc	54 10.10	-0.9			ePcP	55 44.50		SAOF	0.41	145 Pg	07 00.34	0.1
	1.5s	125.00nm		5.9mb			e	56 02.30				Sg	07 05.86	
WATA	68.51	19 iPc	54 10.10	-1.2	MHI	87.81	51 eP	55 56.00	-1.5	MVIF	0.43	187 Pg	07 00.32	-0.2
ZAG	68.66	22 iPc	54 13.10	1.1	ELC	88.76	310 eP	56 01.13	-0.7			Sg	07 06.64	
PTJ	68.72	22 eP	54 12.80	0.3	FVM	89.90	310 eP	56 07.15	-0.1	AURF	0.44	170 Pg	07 00.92	0.1
KBA	68.85	20 iPc	54 12.40	-1.0		1.5s	76.91nm		5.7mb	ROB	0.46	93 P	07 01.72	0.5
	1.5s	67.70nm		5.6mb	FRB	90.93	339 eP	56 11.50	0.2			S	07 08.24	
LANF	68.95	16 P	54 13.22	-0.5	UYO	91.59	305 iPd	56 15.00	-0.1					



13d 10h

SBF	0.49	162	Pg	07 01.70	0.1	GHO	2.39	34	eP	35 51.49	-1.0	GYA	38.84	294	iPc	47 05.60	2.1
			Sg	07 08.50		GLB	2.39	34	eP	36 21.08	-1.0		1.0s	31.00nm		5.2mb	
SBF	0.49	162	Pg	07 07.49	5.9X	GLI	2.39	34	eP	36 07.65	-1.0	XAN	38.85	306	P	47 04.00	0.5
BHB	0.52	3	P	07 02.09	-0.2	GLM	2.39	34	eP	36 12.41	-1.0		0.5s	6.40nm		4.8mb	
CALN	0.62	203	Pg	07 04.67	0.3	HDA	2.39	34	eP	36 08.38	-1.0	HHC	39.84	317	Pc	47 12.40	0.7
			Sg	07 12.80		HIN	2.39	34	eP	36 13.68	-1.0		1.0s	29.00nm		5.2mb	
IMI	0.63	131	P	07 04.42	-0.1	HMT	2.39	34	eP	36 25.38	-1.0	Z	23s	0.93um		4.6MszX	
			S	07 12.91		HUR	2.39	34	iP	35 45.54	-1.0	ASPA	40.24	198	eP	47 15.90	0.9
RRL	0.67	332	P	07 05.14	-0.2				eS	35 59.27			0.8s	5.90nm		4.5mb	
			S	07 14.74		IL1	2.39	34	eP	36 11.72	-1.0	BTO	40.74	316	P	47 20.00	1.0
FIN	0.72	99	P	07 05.86	-0.4	ILB	2.39	34	eP	36 11.75	-1.0	CD2	42.18	300	iPd	47 32.00	1.1
			S	07 15.75		IM3	2.39	34	eP	36 21.16	-1.0	LZH	43.46	307	iPc	47 42.50	1.2
RSP	0.83	2	P	07 08.29	-0.2	IMA	2.39	34	P	36 22.20	-1.0		2.0s	130.00nm		5.4mb	
FRF	0.87	209	Pg	07 09.30	0.2	KLU	2.39	34	eP	36 08.06	-1.0	GTA	47.51	310	eP	48 14.20	0.7
			Sg	07 19.60		KNK	2.39	34	eP	35 56.02	-1.0		1.4s	14.00nm		4.7mb	
PCP	0.97	77	P	07 11.07	0.2	KTH	2.39	34	eP	35 47.25	-1.0	YAK	48.56	350	eP	48 21.10	0.0
			S	07 23.95		MCK	2.39	34	eP	35 54.35	-1.0		1.0s	25.00nm		5.2mb	
LRG	1.07	216	Pn	07 12.30	-0.2	MDM	2.39	34	eP	36 09.38	-1.0	SDN	57.19	33	e(P)	49 26.80	1.6
			Pg	07 13.10		MLY	2.39	34	eP	36 06.28	-1.0	GUN	57.39	294	P	49 28.00	0.5
			Sg	07 27.00		MPA	2.39	34	eP	36 02.67	-1.0		0.8s	46.00nm		5.7mb	
LMR	1.12	208	Pn	07 13.10	-0.2	MTU	2.39	34	eP	36 14.73	-1.0	WMQ	57.39	313	P	49 27.60	0.7
			Pg	07 13.60		NCG	2.39	34	eP	35 49.81	-1.0		1.2s	32.00nm		5.3mb	
			Sg	07 27.00		NCT	2.39	34	eP	36 02.58	-1.0	PKI	57.81	293	P	49 30.00	-0.4
LSD	1.13	358	P	07 13.38	-0.4	NEA	2.39	34	eP	36 02.54	-1.0	KKV	57.92	294	P	49 30.80	-0.2
			S	07 27.30		NKA	2.39	34	eP	35 59.57	-1.0		0.8s	34.00nm		5.5mb	
LPG	1.22	344	Pg	07 15.80	0.5	PAX	2.39	34	eP	36 09.12	-1.0	DMN	58.08	293	P	49 32.20	0.0
			Sg	07 32.20		PLRM	2.39	34	P	35 51.50	-1.0		0.8s	44.00nm		5.6mb	
LPL	1.24	344	Pg	07 15.80	0.2	PWA	2.39	34	P	35 48.50	-1.0	GKN	58.49	294	P	49 34.80	-0.1
			Sg	07 32.80		PWL	2.39	34	eP	36 01.20	-1.0	ANM	59.41	22	eP	49 40.40	-0.1
PGF	2.20	143	Pn	07 27.70	-2.0	REF	2.39	34	eP	36 03.17	-1.0	SVW	61.79	28	eP	49 56.70	-0.1
			Sn	07 54.10		RND	2.39	34	eP	35 51.72	-1.0	TTA	62.31	26	eP	49 59.60	-0.7
S.D. = 0.5 on 24 of 25 obs.									eS	36 10.17		IMA	64.45	23	eP	50 13.70	-0.7
-----						SEW	2.39	34	eP	36 07.76	-1.0		1.2s	10.90nm		4.7mb	
? JAN 13, 1994 10h 14m 08.90± 3.62s						SKT	2.39	34	iP	35 43.08	-1.0	PWA	64.58	28	eP	50 13.90	-1.1
34.784 S ±34.9km 70.940 W ±15.8km						SLKM	2.39	34	eP	36 01.20	-1.0	FBA	66.39	25	eP	50 25.10	-1.5
DEPTH = 100.0km (geophysicist)						SML	2.39	34	eP	35 53.84	-1.0	GBA	66.68	279	P	50 28.80	-0.4
CHILE-ARGENTINA BORDER REGION (127)						SPU	2.39	34	eP	35 52.23	-1.0	POO	69.23	284	eP	50 44.00	-1.2
MD 3.8 (SAN).						SUA	2.39	34	iP	35 48.67	-1.0	INK	72.58	23	eP	51 04.00	-0.4
CACH	0.72	23	iP+	14 27.00	0.1				eS	36 05.70			0.8s	6.00nm		4.6mb	
			iS	14 40.82		SVW	2.39	34	P	36 06.60	-1.0	MBC	76.64	14	eP	51 28.50	0.9
LNv	0.91	335	eP	14 28.54	-0.1	TOA	2.39	34	P	36 05.00	-1.0	GMW	79.67	44	eP	51 45.78	1.1
			eS	14 42.75		TRF	2.39	34	eP	35 47.26	-1.0	YKA	80.99	28	eP	51 51.20	-0.1
TACH	1.13	0	iPd	14 30.95	-0.1				eS	36 03.49			0.6s	5.50nm		4.7mb	
			iS	14 47.36		TTA	2.39	34	P	36 02.20	-1.0	VGB	81.43	45	eP	51 54.95	0.9
PCH	1.21	17	iP+	14 32.17	0.0	TZL	2.39	34	eP	36 09.97	-1.0	ORV	82.21	51	eP	51 58.19	0.0
			iS	14 49.32		VLZ	2.39	34	eP	36 08.07	-1.0	RES	82.93	14	eP	52 01.50	0.2
LCCH	1.41	338	iPd	14 34.44	0.1	VZW	2.39	34	eP	36 07.88	-1.0		0.6s	2.00nm		4.2mb	
FCH	1.55	21	iP+	14 36.32	-0.2	WRH	2.39	34	eP	36 04.19	-1.0	NEW	83.23	42	eP	52 04.09	0.8
			iS	14 57.68		65 obs. associated						CMB	83.40	53	ePc	52 04.83	0.4
PEL	1.65	7	iP	14 37.77	0.3	-----							0.7s	3.77nm		4.5mb	
			iS	14 58.57		JAN 13, 1994 10h 39m 43.82± 0.78s						BONR	85.02	52	eP	52 13.63	0.7
ROCH	1.81	358	eP	14 39.65	-0.1	14.889 N ± 4.9km 146.477 E ± 6.6km						GSC	86.88	54	eP	52 21.45	-0.4
			iS	15 01.69		DEPTH = 75.4 ± 6.9 km						LRM	86.98	43	iPc	52 22.90	0.6
JACH	2.12	8	iP	14 43.58	-0.1	4.9mb ( 20 obs.)						HVU	88.02	47	eP	52 27.59	0.3
			iS	15 08.95		MARIANA ISLANDS (216)						DUG	88.48	49	ePc	52 30.14	0.6
S.D. = 0.2 on 9 of 9 obs.						SAPN	0.77	294	eP	40 01.50	1.4		0.5s	6.20nm		5.0mb	
-----						ANAT	1.66	332	eP	40 12.80	1.3	ARUT	88.76	51	ePd	52 32.05	1.1
& JAN 13, 1994 10h 35m 26.93s						GUA	2.02	229	Pn	40 15.70	-0.8	MSU	89.48	50	eP	52 35.54	1.1
62.532 N 151.191 W									Pg	40 17.20		EMUT	90.06	49	eP	52 37.75	0.7
DEPTH = 97.5km									eS	40 41.30		PV10	91.85	50	eP	52 45.76	0.4
CENTRAL ALASKA ( 1)						GUMO	2.03	231	Pn	40 16.00	-0.5	LKO	143.18	310	PKP	59 10.04	-1.8
<AEIC>.									eS	40 40.70			0.6s	2.50nm			
BC3	2.39	34	eP	36 30.86	-1.0	PJG	2.03	231	Pn	40 15.90	-0.6	KIC	144.50	304	PKP	59 13.03	-1.1
BGL	2.39	34	eP	35 52.56	-1.0	KAGJ	21.61	321	eP	44 31.30	2.1		0.6s	14.00nm			
BKG	2.39	34	eP	35 54.01	-1.0	IIDJ	21.90	341	P	44 30.60	-1.5	TIC	144.56	305	PKP	59 12.93	-1.3
BM3	2.39	34	eP	36 48.05	-1.0	KAKJ	21.96	346	eP	44 30.40	-2.3		0.6s	7.50nm			
BWN	2.39	34	eP	35 57.06	-1.0	CHJJ	22.11	344	P	44 31.50	-2.7	LIC	144.81	305	PKP	59 13.97	-0.7
CCB	2.39	34	eP	36 06.88	-1.0	KUMJ	22.62	324	P	44 40.20	1.1		0.5s	14.50nm			
CFI	2.39	34	eP	36 01.15	-1.0	MTMJ	22.95	342	P	44 40.60	-1.9	LPZ	146.66	97	PKP	59 19.20	0.8
CGLM	2.39	34	eP	35 50.61	-1.0	NIIJ	23.23	345	P	44 43.40	-1.7	LPB	146.70	98	ePKP	59 19.00	0.8
CKN	2.39	34	eP	35 52.69	-1.0	YAMJ	23.88	347	eP	44 50.00	-1.4	MOCB	148.86	106	PKP	59 22.70	1.1
CKT	2.39	34	eP	35 52.54	-1.0	PMG	24.15	178	eP	44 53.00	-1.1	S.D. = 1.1 on 71 of 72 obs.					
CNPM	2.39	34	eP	36 14.38	-1.0	OFUJ	24.47	351	eP	44 56.30	-0.7	-----					
CP2	2.39	34	eP	35 52.17	-1.0	HOJ	27.54	355	eP	45 25.50	0.2	& JAN 13, 1994 11h 06m 37.93s					
CRP	2.39	34	eP	35 51.95	-1.0	KUSJ	28.15	357	eP	45 29.10	-1.7	34.975 N 116.960 W					
CUT	2.39	34	iP	35 42.06	-1.0	ASAJ	29.31	354	eP	45 41.30	0.0	DEPTH = 0.1km					
			eS	35 53.34		BJI	36.44	319	eP	46 43.00	0.0	SOUTHERN CALIFORNIA ( 43)					
CVA	2.39	34	eP	36 15.92	-1.0							<PAS-P>. ML 3.4 (PAS), 3.4 (GS).					
DDM	2.39	34	eP	36 10.37	-1.0							Felt at Barstow and Daggett.					
DFR	2.39	34	eP	36 01.37	-1.0	WB2	36.61	199	iPc	46 43.80	-0.9	GSC	0.35	21	ePd	06 44.86	-0.1
DHY	2.39	34	eP	35 57.69	-1.0				0.6s	12.20nm		SSK	0.97	219	eP	06 56.10	-1.3
			eS	36 21.19		WRA	36.6										



NMC 1.16 319 P 07 00.76 0.2  
 VPEN 1.20 325 P 07 00.87 -0.4  
 WJPM 1.32 290 P 07 02.51 -0.8  
 BMTC 1.35 277 P 07 02.87 -1.1  
 ARVC 1.54 276 P 07 06.90 0.2  
 FTC 1.59 267 P 07 07.86 0.4  
 PLM 1.62 177 ePd 07 06.98 -1.0  
 RYS 2.00 261 P 07 16.11 2.6  
 TPNV 2.05 16 ePn 07 12.71 -1.6  
 BCH 2.57 276 eP 07 19.63 -2.0  
 GLA 2.61 137 ePn 07 19.98 -2.2  
 MTUM 2.70 332 (Pn) 07 23.23 -0.4  
 ePg 07 28.63

PHAM 2.94 288 (Pn) 07 26.50 -0.3  
 MRCM 2.97 336 (Pn) 07 27.90 0.5  
 TNP 3.11 356 ePn 07 28.04 -1.3  
 ePg 07 35.38  
 MEMM 3.13 330 (Pn) 07 29.97 0.6  
 BONR 3.16 340 ePn 07 29.47 -0.8  
 ePg 07 37.55  
 ARUT 3.99 44 ePn 07 40.79 -1.1  
 CMB 4.12 319 ePn 07 41.93 -1.6  
 KVN 4.17 348 (Pn) 07 42.94 -1.5  
 ePg 07 56.92  
 ARN 4.39 304 ePn 07 46.01 -1.5  
 MSU 5.22 46 ePn 07 58.18 -1.2  
 ePg 08 13.86  
 NTYM 5.71 308 ePn 08 04.17 -1.9  
 DUG 6.16 31 (Pn) 08 10.96 -1.6  
 ePg 08 32.06  
 PV10 7.21 60 ePg 08 50.10 22.6  
 PV08 7.58 59 ePg 08 55.99 23.3  
 32 obs. associated

? JAN 13, 1994 11h 33m 53.60± 0.88s  
 40.816 N ± 7.3km 22.979 E ± 7.3km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 1.4 (THE).

THE 0.18 183 ePg 33 57.60 -0.1  
 eSg 34 00.72  
 SOH 0.28 89 iPg 33 59.69 0.1  
 eSg 34 04.64  
 KNT 0.35 350 iPg 34 00.69 -0.1  
 eSg 34 06.24  
 GRG 0.46 288 ePg 34 03.10 0.1  
 S.D. = 0.2 on 4 of 4 obs.

\* JAN 13, 1994 11h 56m 37.31± 0.92s  
 37.334 N ± 7.9km 30.580 E ± 10.9km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.6 (ISK), 3.2 (CSS).

ELL 0.79 223 iPg 56 53.50 0.7  
 eSg 57 03.50  
 KHL 1.29 320 iPg 57 01.20 -0.1  
 ALT 1.76 348 ePn 57 08.40 0.3  
 DST 2.74 327 ePn 57 22.90 0.8  
 IZM 2.83 293 ePn 57 22.20 -1.3  
 CSS 3.25 136 eP 57 29.00 -0.3  
 eS 58 01.00  
 S.D. = 1.0 on 6 of 6 obs.

\* JAN 13, 1994 12h 18m 59.94± 2.68s  
 31.564 N ± 26.7km 115.249 W ± 11.7km  
 DEPTH = 5.0km (geophysicist)  
 BAJA CALIFORNIA, MEXICO (48)  
 ML 3.6 (GS), MD 3.4 (ECX).

GLA 1.53 13 eP 19 28.18 0.2  
 PLM 2.25 323 ePn 19 37.16 -1.3  
 ePg 19 40.51  
 eS 20 10.12  
 PEC 2.83 326 ePn 19 47.81 1.2  
 SSK 3.35 323 ePn 19 54.74 0.6  
 TUC 3.87 78 ePn 20 01.44 0.0  
 GSC 3.95 341 (Pn) 19 59.46 -3.1X  
 ePg 20 13.43  
 ARUT 6.39 13 (Pn) 20 37.12 -0.1  
 BONR 6.85 339 (Pn) 20 43.27 -0.6  
 ePg 21 11.05  
 S.D. = 1.0 on 7 of 8 obs.

? JAN 13, 1994 13h 21m 43.19± 1.09s  
 17.219 S ± 33.6km 179.852 W ± 28.2km

DEPTH = 550.0km (geophysicist)  
 4.8mb ( 8 obs.)  
 FIJI ISLANDS REGION (181)

DZM 13.78 247 iPc 24 47.90 7.6X  
 ARMA 29.12 238 iPd 27 02.40 0.7  
 0.6s 15.00nm 4.8mb  
 CNB 32.78 231 iPd 27 32.90 0.3  
 0.5s 23.00nm 5.1mb  
 TOO 36.55 229 iPd 28 03.90 0.0  
 0.4s 13.00nm 4.9mb  
 WB2 43.40 259 iPc 28 59.60 0.5  
 0.2s 31.40nm 5.5mb  
 WRA 43.41 259 P 28 59.90 0.7  
 0.6s 6.60nm 4.3mb  
 ASPA 43.66 254 iPd 29 01.80 0.6  
 0.8s 145.40nm 5.6mb  
 FORT 49.06 244 eP 29 41.20 -1.1  
 WARB 50.22 250 iPd 29 50.30 -0.5  
 0.2s 2.00nm 4.3mb  
 MBL 56.81 256 iPd 30 36.30 -1.4  
 0.4s 11.00nm 4.5mb  
 CLL 144.48 346 iPKPc 40 17.90 -0.3  
 BRG 144.66 345 iPKP 40 18.10 -0.4  
 GEC2 146.58 344 PKP 40 22.90 1.0  
 0.6s 1.53nm  
 S.D. = 0.8 on 12 of 13 obs.

JAN 13, 1994 14h 12m 29.80± 0.73s  
 59.421 N ± 6.4km 5.898 E ± 6.8km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN NORWAY (535)  
 MD 1.8 (BER).

BLS5 0.29 89 iPc 12 36.63 0.8  
 eS 12 39.83  
 KMY 0.39 238 eP 12 38.20 0.3  
 eSg 12 44.16  
 ODD1 0.62 37 eP 12 41.41 -0.8  
 eS 12 49.87  
 EGD 0.92 339 eP 12 47.67 0.4  
 eSg 13 03.42  
 ASK 1.12 342 eP 12 50.79 0.0  
 eS 13 06.75  
 ENN 8.67 180 eP 14 37.50 -0.7  
 0.8s 12.50nm 5.3mb  
 S.D. = 0.8 on 6 of 6 obs.

? JAN 13, 1994 14h 32m 26.33± 3.37s  
 33.307 S ± 9.1km 72.075 W ± 25.4km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF CENTRAL CHILE (134)  
 MD 4.2 (SAN).

LCCH 0.46 112 iP+ 32 36.13 0.5  
 iS 32 46.31  
 LNV 0.85 140 eP+ 32 42.40 -0.3  
 iS 32 57.19  
 ROCH 0.95 70 iPd 32 43.88 -0.8  
 iS 32 59.73  
 TACH 1.01 110 iP+ 32 45.28 -0.2  
 iS 33 02.16  
 PEL 1.18 82 iP+ 32 48.23 -0.1  
 iS 33 06.81  
 SAN 1.19 97 eP 32 49.31 0.7  
 PCH 1.34 104 eP 32 50.81 -0.3  
 JACH 1.39 64 iP+ 32 50.26 -1.6  
 CACH 1.47 124 eP+ 32 53.17 0.2  
 iS 33 16.52  
 FCH 1.49 91 iP+ 32 53.38 -0.1  
 iS 33 15.96  
 RTCC 3.31 58 e(P) 33 22.00 2.6  
 RTLL 3.63 58 e(P) 33 23.20 -0.7  
 S.D. = 1.1 on 12 of 12 obs.

\* JAN 13, 1994 15h 29m 57.28± 1.11s  
 30.162 N ± 11.0km 31.446 E ± 9.7km  
 DEPTH = 10.0km (geophysicist)  
 3.5mb ( 1 obs.)  
 EGYPT (553)  
 Felt at Cairo.

HLW 0.32 197 ePg 30 04.00 0.2  
 HQL 3.26 105 eP 30 50.00 0.6  
 eS 31 27.00  
 DHLJ 3.48 78 P 31 01.90 9.4X  
 SRFA 3.48 110 eP 30 53.60 1.0

BADA 3.51 117 eS 31 28.00  
 eP 30 51.30 -1.6  
 eS 31 29.00  
 MASJ 3.99 66 P 31 04.00 4.2X  
 SALJ 4.08 62 P 31 11.20 10.1X  
 AYN 4.17 107 eP 31 02.30 -0.1  
 GEC2 23.04 329 P 35 03.50 -0.1  
 1.2s 2.17nm 3.5mb  
 e 35 10.90  
 S.D. = 1.2 on 6 of 9 obs.

? JAN 13, 1994 15h 55m 13.53± 1.44s  
 27.542 N ± 13.8km 139.436 E ± 50.6km  
 DEPTH = 457.2 ± 19.2 km  
 3.8mb ( 1 obs.)  
 BONIN ISLANDS REGION (212)

CHJJ 8.49 358 P 57 15.70 0.0  
 S 58 52.80  
 KAKJ 8.66 4 P 57 16.80 -0.7  
 eS 58 51.50  
 MAT 9.03 354 eP 57 22.00 0.3  
 eS 59 04.00  
 MTMJ 9.12 352 eP 57 22.70 0.0  
 NIJ 9.68 358 P 57 28.40 -0.3  
 YAMJ 10.61 3 eP 57 39.70 0.8  
 OFUJ 11.66 9 eP 57 50.30 0.1  
 WRA 47.46 187 P 03 07.20 0.1  
 0.6s 0.30nm 2.9mb X  
 KAF 76.00 334 iP 06 13.80 0.4  
 HFS 82.03 336 eP 06 44.70 -0.6  
 0.3s 0.90nm 3.8mb  
 S.D. = 0.6 on 10 of 10 obs.

\* JAN 13, 1994 16h 11m 33.48± 0.37s  
 20.279 N ± 8.4km 45.570 W ± 6.1km  
 DEPTH = 10.0km (geophysicist)  
 4.9mb ( 19 obs.) 4.6Ms ( 1 obs.)  
 NORTHERN MID-ATLANTIC RIDGE (403)

CAR 22.74 248 iP 16 40.00 2.8  
 TOV 25.58 250 eP 17 06.20 1.6  
 SDV 26.72 249 eP 17 16.50 1.1  
 JSC 34.46 301 (P) 18 22.51 -1.0  
 e 18 29.90  
 SIV 39.13 204 P 19 00.70 -2.4  
 LKO 39.98 99 P 19 10.36 0.1  
 1.2s 26.00nm 4.8mb  
 TIC 41.57 103 P 19 25.55 2.3  
 1.1s 7.50nm 4.3mb  
 LIC 41.72 104 P 19 24.23 -0.3  
 1.8s 59.50nm 5.0mb  
 KIC 41.93 103 P 19 27.35 1.1  
 1.7s 102.00nm 5.3mb  
 FVM 42.52 304 (P) 19 31.40 0.5  
 0.9s 19.09nm 4.8mb  
 e 19 37.90  
 LPAZ 42.56 213 P 19 30.80 -1.3  
 LR 31 50.00  
 LPB 42.75 213 P 19 34.20 0.8  
 Z 20s 0.71um 4.6Ms  
 LR 32 08.00  
 MIAR 44.53 299 (P) 19 46.34 -0.8  
 1.1s 12.13nm 4.7mb  
 UYO 45.22 298 iPd 19 53.80 1.1  
 MOCB 45.70 207 P 19 55.30 -1.8  
 FRB 46.13 346 eP 20 01.00 1.5  
 1.0s 4.00nm 4.4mb  
 WMOK 48.82 299 eP 20 19.41 -1.6  
 0.9s 16.14nm 5.1mb  
 e 20 26.76  
 MOTA 52.89 45 iPd 20 51.60 -0.4  
 SOTA 52.94 46 iPc 20 52.50 0.2  
 0.9s 16.50nm 5.0mb  
 LTX 53.05 292 (P) 20 52.14 -1.2  
 WATA 53.20 46 iPc 20 54.30 0.0  
 WTTA 53.23 46 iPc 20 54.00 -0.6  
 1.5s 39.80nm 5.1mb  
 KBA 54.35 46 i(P) 21 00.30 -2.5  
 1.2s 14.20nm 4.9mb  
 i 21 02.30  
 KHC 54.83 44 eP 21 05.50 -0.6  
 e 21 19.00  
 GEC2 54.86 44 P 21 05.50 -0.9  
 1.3s 6.14nm 4.5mb  
 e 31 54.60  
 e 32 01.10



LJU	55.03	47	eP	32	08.50	
			i	21	06.50	-1.1
			epP	21	08.00	
PRU	55.59	43	eP	21	09.50	10kmX
ZST	57.02	45	eP	21	11.00	-0.5
BW06	57.57	308	eP	21	22.50	0.7
	2.1s	35.95nm		21	24.98	-1.1
DAG	58.11	7	iPd	21		5.0mb
	1.2s	20.31nm		21	30.70	1.7
EMUT	58.50	305	(P)	21		5.0mb
TUC	58.90	296	(P)	21	33.22	0.5
	1.3s	12.10nm		21	34.76	-0.6
OHR	59.33	54	eP	21		4.9mb
MSU	59.60	303	eP	21	33.00	-5.2X
SKO	59.80	53	eP	21	40.06	-0.2
HVU	59.95	307	(P)	21	42.50	1.1
RES	60.35	347	eP	21	42.89	0.3
ARUT	60.63	303	(P)	21	48.00	3.4X
YKA	62.54	331	eP	21	47.33	0.0
	1.0s	3.80nm		21	57.90	-1.6
NEW	62.94	315	eP	22		4.5mb
	1.1s	13.03nm		22	02.02	-0.5
		e		22		5.0mb
MLR	62.98	48	ePc	22	08.43	
GSC	63.56	300	eP	22	03.50	0.6
		e		22	07.28	0.4
MBC	66.59	345	eP	22	13.69	
INK	70.59	337	eP	22	28.00	2.4
FBA	76.89	335	eP	22	50.00	-0.5
	1.2s	8.02nm		23	27.38	0.1
IMA	78.72	337	eP	23		4.7mb
	1.6s	14.72nm		23	38.03	0.5
WRA	179.65	14	PKP	31		4.8mb
	0.9s	0.30nm		31	49.00	3.4X
S.D. = 1.3 on 44 of 47 obs.						
-----						
JAN 13, 1994 16h 22m 27.83± 0.42s						
20.138 N ± 8.6km 45.763 W ± 6.5km						
DEPTH = 10.0km (geophysicist)						
4.7mb ( 22 obs.)						
NORTHERN MID-ATLANTIC RIDGE (403)						
LKO	40.14	99	P	30	05.71	-0.2
	1.1s	12.00nm				4.5mb
TIC	41.71	103	P	30	18.42	-0.4
	0.8s	4.00nm				4.2mb
LIC	41.87	104	P	30	19.72	-0.3
	1.3s	15.50nm				4.6mb
KIC	42.08	103	P	30	21.44	-0.3
	1.4s	52.50nm				5.1mb
LPZ	42.35	213	P	30	25.90	1.3
LPP	45.43	42	eP	30	49.20	0.7
	0.7s	9.50nm				4.9mb
MFF	45.49	44	eP	30	49.70	0.6
MOCB	45.50	206	P	30	49.40	-0.5
FLN	46.05	41	eP	30	53.70	0.3
TCF	46.94	45	eP	31	01.00	0.5
	0.8s	13.85nm				5.1mb
BGF	47.44	45	eP	31	04.70	0.2
	0.8s	9.80nm				4.9mb
AVF	47.84	44	eP	31	07.80	0.2
	0.8s	12.65nm				5.1mb
SSF	48.02	44	eP	31	09.10	0.1
	0.9s	9.65nm				4.9mb
SMF	48.12	45	eP	31	10.10	0.3
	0.8s	9.65nm				4.9mb
LBF	48.30	44	eP	31	11.20	-0.1
	0.8s	7.95nm				4.8mb
WMOK	48.73	299	ePc	31	15.03	0.3
	1.0s	7.89nm				4.7mb
LPL	49.79	47	eP	31	24.00	1.0
	0.8s	5.25nm				

TUC	58.80	296	(P)	32	29.73	0.7
MSU	59.52	303	(P)	32	34.88	0.7
SKO	60.03	53	eP	32	36.80	-0.5
RES	60.44	347	eP	32	40.00	0.5
YKA	62.58	331	eP	32	52.40	-1.7
	0.6s	1.30nm			4.3mb	
MBC	66.68	346	eP	33	23.00	2.4
	1.0s	3.00nm			4.4mb	
INK	70.65	337	eP	33	45.00	-0.2
FBA	76.94	335	(P)	34	19.86	-2.0
	S.D. = 0.9	on	32	of	32	obs.
-----						
%	JAN 13, 1994	16h	41m	07.65±	1.66s	
	41.200 N ±15.3km		23.391 E ± 6.6km			
	DEPTH = 10.0km (geophysicist)					
	GREECE-BULGARIA BORDER REGION (363)					
	ML 1.7 (THE).					
SRS	0.17	119	ePg	41	11.58	0.0
			iSg	41	14.90	
KNT	0.37	264	iPg	41	15.38	0.0
			eSg	41	20.58	
THE	0.65	210	ePg	41	20.54	-0.1
GRG	0.79	252	ePg	41	22.98	0.0
			eSg	41	33.62	
OUR	0.97	152	ePg	41	25.98	-0.2
PAIG	1.29	170	ePb	41	31.82	0.3
	S.D. = 0.2	on	6	of	6	obs.
-----						
?	JAN 13, 1994	17h	02m	40.57±	3.10s	
	36.347 N ±24.8km		7.312 W ±17.0km			
	DEPTH = 10.0km (geophysicist)					
	STRAIT OF GIBALTAR (385)					
	mbLg 3.0 (MDD).					
FIG	0.86	331	eP	02	57.00	-0.1
			iS	03	08.50	
EVAL	1.32	20	iPd	03	05.44	0.6
			eS	03	26.40	
EJIF	1.49	85	eP	03	08.17	0.8
			eS	03	31.20	
EBAN	3.35	56	iPc	03	33.45	-0.6
			eS	04	16.50	
EHUE	4.05	67	iPd	03	43.33	-0.6
			eS	04	36.30	
	S.D. = 0.9	on	5	of	5	obs.
-----						
%	JAN 13, 1994	17h	24m	46.89±	0.84s	
	43.034 N ± 6.4km		18.889 E ± 5.5km			
	DEPTH = 10.0km (geophysicist)					
	NORTHWESTERN BALKAN REGION (383)					
	MD 2.1 (TTG).					
NKY	0.24	160	iPgC	24	52.70	0.7
			iSg	24	56.75	
BRY	0.29	242	iPgD	24	53.12	0.2
			iSg	24	58.12	
PLE	0.47	51	iPgC	24	56.56	0.0
			iSg	25	04.09	
HCY	0.65	206	iPgC	24	59.72	-0.2
			iSg	25	09.41	
TTG	0.66	155	iPgC	24	59.69	-0.4
			iSg	25	09.67	
BDV	0.75	183	iPgC	25	01.28	-0.3
			iSg	25	12.75	
IVA	0.76	102	iPgD	25	01.72	-0.1
			iSg	25	13.44	
PVY	0.91	118	iPgD	25	04.32	-0.1
			iSg	25	17.96	
ULC	1.10	166	iPgC	25	07.76	0.1
			iSg	25	24.25	
	S.D. = 0.4	on	9	of	9	obs.
-----						
&	JAN 13, 1994	17h	49m	01.52s		
	56.967 N		155.245 W			
	DEPTH = 36.2km					
	ALASKA PENINSULA (12)					
	<AEIC>. ML 3.5 (AEIC).					
AUI	2.56	21	eP	49	40.85	-0.7
AUH	2.59	21	eP	49	41.21	-0.8
AUW	2.59	21	eP	49	41.11	-0.8
AUE	2.60	22	eP	49	41.47	-0.6
AUL	2.61	21	eP	49	41.57	-0.6
BALM	7.81	53	eP	50	50.77	-4.9
BC3	20.93	58	eP	51	09.00	11.3
BGL	20.93	58	eP	50	08.06	11.3

BKG	20.93	58	eP	50	05.68	11.3		
BM3	20.93	58	eP	51	40.10	11.3		
CDD	20.93	58	eP	49	34.38	11.3		
			eS	50	00.36			
CFI	20.93	58	eP	50	21.49	11.3		
CGLM	20.93	58	eP	50	09.12	11.3		
CKL	20.93	58	eP	50	07.94	11.3		
CKN	20.93	58	eP	50	07.27	11.3		
CKT	20.93	58	eP	50	07.30	11.3		
CNPM	20.93	58	eP	49	50.58	11.3		
CP2	20.93	58	eP	50	07.38	11.3		
CRP	20.93	58	P	50	08.50	11.3		
CUT	20.93	58	eP	50	27.75	11.3		
CVA	20.93	58	eP	50	27.42	11.3		
DFR	20.93	58	eP	49	58.59	11.3		
GHO	20.93	58	eP	50	24.05	11.3		
HIN	20.93	58	eP	50	22.16	11.3		
IL1	20.93	58	eP	51	03.42	11.3		
ILB	20.93	58	eP	51	03.19	11.3		
ILLM	20.93	58	eP	49	51.04	11.3		
IM3	20.93	58	eP	51	09.89	11.3		
IMA	20.93	58	(P)	51	12.88	11.3		
KDC	20.93	58	eP	49	27.58	11.3		
			eS	49	42.59			
KLU	20.93	58	eP	50	33.88	11.3		
KNK	20.93	58	eP	50	21.63	11.3		
MPA	20.93	58	eP	50	08.49	11.3		
NCG	20.93	58	eP	50	10.16	11.3		
NCT	20.93	58	eP	49	57.73	11.3		
NKA	20.93	58	eP	50	05.62	11.3		
OPT	20.93	58	eP	49	45.12	11.3		
			eS	50	19.89			
PDB	20.93	58	eP	49	44.48	11.3		
			eS	50	17.77			
PMR	20.93	58	eP	50	21.68	11.3		
PWA	20.93	58	P	50	22.60	11.3		
PWL	20.93	58	eP	50	16.08	11.3		
RDW	20.93	58	eP	49	57.11	11.3		
RED	20.93	58	eP	49	56.15	11.3		
REF	20.93	58	eP	49	57.27	11.3		
RS2	20.93	58	eP	49	56.95	11.3		
RSO	20.93	58	eP	49	57.11	11.3		
SDN	20.93	58	eP	49	58.07	11.3		
SEW	20.93	58	eP	50	03.31	11.3		
SKT	20.93	58	eP	50	18.66	11.3		
SLKM	20.93	58	eP	50	04.90	11.3		
SML	20.93	58	eP	50	26.04	11.3		
SPU	20.93	58	eP	50	07.27	11.3		
SUA	20.93	58	eP	50	14.30	11.3		
SVW	20.93	58	eP	50	01.70	11.3		
SYI	20.93	58	eP	49	35.73	11.3		
			eS	50	01.96			
TTA	20.93	58	eP	50	27.23	11.3		
VLZ	20.93	58	eP	50	29.17	11.3		
VZW	20.93	58	eP	50	27.00	11.3		
YKA	20.93	58	eP	53	54.40	11.3		
	0.6s		0.30nm					
	59 obs. associated							
-----								
?	JAN	13,	1994	19h 11m	58.28± 1.13s			
	47.863 N		±11.1km		6.351 E ± 8.2km			
	DEPTH =		5.0km		(geophysicist)			
	FRANCE					(538)		
	ML 1.9 (LDG).							
-----								
HAU	0.14	359	Pg	12	01.80	0.5		
			Sg	12	03.40			
BSF	0.30	96	Pg	12	04.80	0.5		
			Sg	12	08.50			
CDF	0.83	48	Pg	12				



13d 20h

LPR 0.60 151 iP 12 25.00 -0.9  
 APR 0.65 234 iP 12 25.10 -1.4  
 SJG 0.72 178 iP 12 27.90 0.4  
 CPD 0.83 162 iP 12 28.90 -0.1  
 CLLP 0.84 207 iP 12 29.30 0.2  
 LSP 1.08 233 iP 12 28.00 -4.5X  
 MGP 1.19 227 iP 12 33.50 -0.5  
 CANV 8.16 199 iPc 14 13.50 1.3  
 OLLA 8.79 184 eP 14 22.50 1.6  
 TOV 9.65 202 eP 14 34.70 1.9  
 SDV 10.79 204 eP 14 51.80 3.3X  
 SGS 19.21 321 eP 16 34.46 -2.0  
 LHS 20.30 323 eP 16 48.70 0.7  
 CEH 20.46 329 eP 16 50.53 0.8  
 PRM 20.94 320 (P) 16 55.69 1.0  
 CVL 21.88 333 eP 17 05.15 1.1  
 NAV 22.43 328 (P) 17 11.13 1.6  
 e 17 19.73  
 LPAZ 34.96 183 P 19 03.00 -0.9  
 SIV 34.97 171 P 19 01.10 -2.3  
 LPB 35.20 183 eP 19 06.00 0.3  
 LTX 35.65 294 eP 19 06.80 -2.4  
 YKA 54.83 335 eP 21 34.20 -6.7X  
 0.7s 1.00nm 4.0mb  
 PMG 146.39 282 e(PKP)31 50.00 -0.4  
 S.D. = 1.4 on 20 of 23 obs.

JAN 13, 1994 20h 26m 42.90± 0.17s  
 2.716 N ± 3.0km 127.170 E ± 4.5km  
 DEPTH = 22.3km ( 9 depth phases)  
 5.3mb ( 43 obs.)

NORTHERN MOLUCCA SEA (266)

TNE 1.91 175 iPd 26 17.10 -57.5X  
 is 26 32.00  
 DAV 4.62 340 eP- 27 56.00 2.8  
 CTB 5.35 327 ePc 28 16.00 12.6X  
 is 29 06.00  
 SWI 5.42 131 ePc 28 05.00 0.6  
 es 29 06.50  
 BIP 5.55 351 eP 28 07.00 0.7  
 es 39 05.50  
 MAP 8.19 337 eP 28 44.00 0.6  
 TSM 9.41 280 ePd 29 02.50 2.2  
 PPR 10.93 310 ePd 29 24.00 2.9  
 KKM 11.41 287 eP 29 35.00 7.2X  
 BCP 15.07 335 eP 30 19.00 2.6  
 BAG 15.07 335 ePd 30 16.00 -0.5  
 CVP 15.79 341 eP 30 26.00 0.3  
 KHKI 15.94 226 ePd 30 34.50 7.0X  
 e 35 40.50  
 DNP 16.44 226 ePc 30 40.00 6.1X  
 e 32 52.00  
 TRT 17.82 234 Pc 30 54.90 3.7X  
 KNA 18.42 175 eP 30 59.20 0.6  
 SJI 18.55 236 ePc 31 02.00 1.8  
 TPI 20.25 255 ePc 31 19.50 -0.2  
 e 32 00.00  
 GUA 20.57 58 e(P) 31 23.80 0.8  
 QIZ 23.46 315 Pc 31 52.50 0.7  
 WRA 23.59 163 P 31 52.79 -0.3  
 1.3s 21.50nm 4.5mb  
 WB2 23.60 163 eP 31 52.10 -1.0  
 0.6s 34.60nm 5.1mb  
 es 35 57.90  
 KGM 23.84 269 eP 32 00.00 4.4X  
 GZH 24.28 328 P 31 59.80 0.1  
 MBL 24.79 197 eP 32 05.50 0.8  
 QIS 26.15 153 eP 32 18.20 0.7  
 IPM 26.16 275 ePc 32 17.10 -0.5  
 ASPA 27.03 166 eP 32 24.00 -1.6  
 0.3s 15.20nm 5.1mb  
 es 37 11.00  
 iScS 43 12.10  
 WARB 28.73 181 eP 32 40.50 -0.5  
 SSE 28.79 349 Pd 32 42.50 1.2  
 1.2s 66.00nm 5.3mb  
 Z 20s 1.40um 4.6Msz  
 S 32 54.50  
 S 37 30.00  
 SS 37 42.00  
 NNT 28.87 291 eP 32 39.60 -2.7  
 LOE 28.93 302 eP 32 41.00 -1.8  
 CTA 29.40 141 P 32 48.20 1.1  
 NST 29.58 297 eP 32 48.00 -0.6  
 KUMJ 29.86 6 eP 32 50.00 -1.0  
 WHN 30.22 338 Pc 32 54.50 0.3

1.0s 74.00nm 5.5mb  
 Z 24s 2.02um 4.7MszX  
 MEEK 30.33 195 eP 32 55.00 -0.3  
 GYA 30.73 322 iPd 32 58.40 -0.5  
 1.0s 29.00nm 5.1mb  
 Z 20s 0.79um 4.4Msz  
 BDT 31.20 299 eP 33 01.00 -2.0  
 1.0s 34.50nm 5.2mb  
 CHTO 31.92 302 eP 33 08.10 -1.3  
 KMI 32.40 316 Pc 33 14.00 0.2  
 1.0s 70.00nm 5.5mb  
 Z 26s 1.70um 4.6MszX  
 FORT 33.32 179 eP 33 20.50 -0.8  
 MRWA 33.51 198 eP 33 22.50 -0.5  
 COOL 33.90 189 eP 33 25.20 -1.2  
 TIA 34.60 346 Pd 33 32.80 0.4  
 1.0s 34.00nm 5.2mb  
 PcP 36 07.20  
 BAL 34.61 196 eP 33 32.20 -0.3  
 MAT 35.17 16 eP 33 35.00 -2.3  
 0.9s 26.89nm 5.2mb  
 Z 20s 0.71um 4.4Msz  
 es 39 14.00  
 KLB 35.27 194 eP 33 38.00 -0.2  
 XAN 35.51 333 P 33 39.00 -1.3  
 0.8s 25.00nm 5.2mb  
 Z 28s 1.06um 4.5MszX  
 pP 33 45.00 20km  
 sP 33 48.20  
 S 39 06.00  
 CD2 35.72 324 iPd 33 41.10 -0.9  
 1.0s 55.00nm 5.4mb  
 MUN 36.04 196 eP 33 44.50 -0.2  
 DL2 36.37 353 iPd 33 48.00 0.6  
 1.0s 100.00nm 5.7mb  
 NWA0 36.68 194 eP 33 50.30 0.3  
 YAMJ 37.20 17 eP 33 53.60 -0.8  
 TIY 37.36 341 Pd 33 56.00 0.2  
 1.0s 100.00nm 5.6mb  
 Z 28s 1.48um 4.6MszX  
 N 17s 0.86um  
 PP 35 21.00  
 S 39 42.00  
 RKG 38.30 194 eP 34 04.50 0.9  
 BJI 38.47 346 Pd 34 05.00 0.0  
 1.0s 230.00nm 5.9mb  
 Z 20s 0.54um 4.4Msz  
 epP 34 14.00 30km  
 ePcP 36 18.00  
 es 40 02.00  
 ADE 39.02 165 eP 34 10.40 0.7  
 SNY 39.07 356 Pd 34 10.20 0.2  
 1.0s 110.00nm 5.5mb  
 AOMJ 39.52 16 eP 34 09.70 -4.0X  
 LZH 39.59 330 Pd 34 14.50 -0.1  
 1.5s 120.00nm 5.4mb  
 Z 26s 1.06um 4.6MszX  
 N 12s 0.31um  
 pP 34 21.50 24km  
 sP 34 25.50  
 PP 35 50.00  
 S 40 15.00  
 SS 40 25.00  
 ARMA 40.38 146 iPd 34 20.30 -0.8  
 0.7s 33.00nm 5.2mb  
 HHC 40.49 342 P 34 22.00 0.1  
 1.2s 160.00nm 5.6mb  
 Z 24s 1.22um 4.7MszX  
 BTO 40.77 340 P 34 24.00 -0.2  
 0.8s 30.00nm 5.1mb  
 N 13s 0.22um  
 E 16s 0.39um  
 CN2 40.94 358 eP 34 24.80 -0.6  
 0.9s 18.00nm 4.8mb  
 Z 20s 0.37um 4.2Msz  
 epP 34 32.50 26km  
 MRRJ 41.45 16 eP 34 29.70 0.2  
 MDJ 41.78 3 iPd 34 32.50 0.2  
 1.2s 140.00nm 5.6mb  
 BWA 42.00 153 eP 34 34.00 -0.3  
 i 34 36.20  
 ipP 34 38.30 14km  
 i 34 46.20  
 HOOJ 42.05 18 eP 34 34.50 0.1  
 CAN 43.01 154 eP 34 41.90 -0.7  
 i 34 45.10 11kmX  
 i 34 52.80

i 35 00.00  
 i 35 05.90  
 KUSJ 43.14 19 eP 34 42.80 -0.6  
 CNB 43.17 153 iPc 34 46.80 2.9  
 LSA 43.44 312 Pd 34 47.40 0.8  
 0.9s 49.00nm 5.3mb  
 ASAJ 43.45 16 eP 34 45.80 -0.1  
 TOO 43.54 159 eP 34 48.00 1.2  
 0.6s 12.00nm 4.9mb  
 GTA 44.19 329 Pd 34 52.00 -0.1  
 1.2s 14.00nm 4.7mb  
 Z 28s 1.03um 4.6MszX  
 pP 34 56.00 13km  
 PcP 36 37.50  
 ScP 40 26.00  
 DZM 45.60 125 iPc 35 01.70 -1.9  
 HYB 49.87 290 ePd 35 35.70 -1.3  
 1.2s 107.10nm 5.7mb  
 GBA 50.30 285 Pd 35 38.40 -1.9  
 0.7s 6.00nm 4.7mb  
 IRK 52.93 343 eP 36 00.00 0.3  
 1.8s 120.00nm 5.5mb  
 Z 22s 0.42um 4.4Msz  
 N 22s 0.31um  
 e 36 08.00 26km  
 e 36 14.50  
 e 36 40.00  
 WMQ 53.80 325 P 36 06.40 0.2  
 1.0s 31.00nm 5.3mb  
 Z 20s 0.75um 4.7Msz  
 pP 36 15.00 28km  
 PP 38 08.50  
 NDI 54.04 304 iPc 36 06.50 -1.6  
 1.0s 60.00nm 5.6mb  
 POO 54.48 291 eP 36 09.50 -2.1  
 YAK 59.19 1 iPd 36 50.20 5.9X  
 1.0s 297.00nm 6.4mb X  
 epP 37 07.00 63kmX  
 e(S) 44 59.00  
 e(Scs) 46 35.00  
 QUE 63.06 303 eP 37 10.50 -0.8  
 ADK 67.55 34 eP 37 37.90 -1.7  
 MHI 70.47 308 eP 37 54.00 -4.1X  
 SDN 77.77 34 eP 38 38.85 -0.9  
 1.1s 124.63nm 5.9mb  
 ANM 78.01 24 eP 38 41.18 0.2  
 TAB 81.12 308 iPc 39 00.30 1.8  
 SVW 81.46 29 eP 39 00.31 0.7  
 1.2s 62.12nm 5.5mb  
 TTA 81.60 27 iPd 39 00.52 0.1  
 1.0s 22.59nm 5.2mb  
 KDC 82.55 32 eP 39 05.20 0.0  
 0.8s 25.07nm 5.4mb  
 CP2 83.10 29 eP 39 08.15 -0.2  
 IMA 83.13 24 iPd 39 08.60 0.3  
 0.9s 39.35nm 5.6mb  
 e 39 27.66 69kmX  
 CRP 83.14 29 eP 39 07.85 -0.6  
 SLKM 84.00 30 eP 39 11.64 -1.1  
 PMR 84.62 29 eP 39 15.14 -0.6  
 1.0s 134.87nm 6.1mb  
 FBA 85.44 25 eP 39 19.55 -0.3  
 1.0s 5.46nm 4.7mb  
 TOA 86.05 28 eP 39 23.80 0.8  
 KLU 86.15 29 eP 39 24.04 0.5  
 OBN 88.12 325 iPd 39 32.00 -1.0  
 1.3s 104.00nm 6.0mb  
 e 39 38.00 19km  
 i 39 48.00  
 e 40 00.00  
 e 40 20.50  
 INK 90.94 22 eP 39 45.50 -0.5  
 1.3s 13.00nm 5.1mb  
 SYO 91.68 201 ePc 39 50.20 0.8  
 MBC 92.84 13 eP 39 55.50 0.8  
 1.0s 3.00nm 4.7mb  
 VRI 95.33 316 eP 40 07.00 0.3  
 MLR 95.93 316 eP 40 10.00 0.3  
 DAG 98.33 353 iPc 40 18.40 -1.3  
 0.8s 18.66nm 5.7mb  
 RES 98.72 10 eP 40 21.50 0.0  
 0.9s 5.00nm 5.1mb  
 HFS 99.11 332 eP 40 21.60 -1.9  
 1.1s 24.70nm 5.7mb  
 MSU 111.74 47 ePKP 45 19.46 1.1  
 PV10 114.05 46 ePKP 45 23.49 0.6  
 RSSD 114.71 38 ePKP 45 23.31 -0.6



13d 20h

GOL 116.02 43 ePKP 45 26.65 0.1  
 LTX 121.86 53 ePKP 45 37.50 -0.2  
 WMOK 123.04 45 ePKP 45 39.58 -0.2  
 UYO 126.35 43 iPKPc 45 45.70 -0.5  
 FVM 126.62 37 ePKP 45 46.65 0.0  
 MIAR 126.73 42 ePKP 45 46.74 -0.2  
 KIC 131.15 281 PKP 45 56.83 1.0  
 0.8s 17.00nm  
 TIC 131.38 281 PKP 45 57.15 0.8  
 1.0s 4.00nm  
 LKO 131.39 285 PKP 45 57.30 1.0  
 0.9s 4.50nm  
 LIC 131.45 281 PKP 45 57.37 0.9  
 CVL 133.06 28 ePKP 45 59.14 0.3  
 RTCB 147.66 154 ePKPc 46 28.50 3.3X  
 CFA 147.80 155 e(PKP) 46 26.00 0.7  
 RTLL 147.94 154 ePKPc 46 28.70 3.1X  
 MOCB 157.75 147 PKP 46 41.80 1.5  
 LPB 159.65 133 ePKP 46 43.00 0.6  
 LPAZ 159.79 133 PKP 46 44.40 1.5  
 SIV 164.51 149 PKP 46 48.20 1.4  
 S.D. = 1.1 on 119 of 131 obs.

& JAN 13, 1994 22h 22m 17.76s  
 39.556 N 122.972 W  
 DEPTH = 15.1km  
 NORTHERN CALIFORNIA (36)  
 <GM-P>. MD 2.3 (GM).

GHMM 0.10 161 P 22 20.68 -0.6  
 KRKM 0.16 272 P 22 21.71 -0.4  
 GAS 0.22 63 P 22 23.04 0.0  
 GBDM 0.28 247 P 22 23.81 -0.3  
 KFPm 0.36 284 P 22 25.13 -0.2  
 KBNM 0.38 333 P 22 25.48 -0.2  
 KSPM 0.41 265 P 22 26.35 0.1  
 GROM 0.43 33 P 22 26.63 0.0  
 GCWM 0.43 191 P 22 26.71 0.1  
 GHGM 0.44 165 P 22 26.62 -0.2  
 GCBM 0.46 248 P 22 27.12 0.1  
 KIPM 0.47 303 P 22 27.20 0.0  
 KCPM 0.49 286 P 22 27.90 0.3  
 KBSM 0.60 307 P 22 30.06 0.6  
 GNAM 0.62 235 P 22 29.94 0.1  
 KKPM 0.65 335 P 22 32.18 1.8  
 LBPM 0.76 5 P 22 32.66 0.4  
 OSUM 0.91 108 P 22 34.58 -0.2  
 WDC 1.08 18 eP 22 37.15 -0.4  
 KSMm 1.12 305 P 22 40.52 2.2  
 KMPM 1.23 315 (P) 22 38.33 -1.9  
 LGPM 1.36 5 eP 22 42.00 -0.2  
 FHC 1.47 328 eP 22 45.82 2.2  
 LBPM 1.97 24 (P) 22 47.18 -3.9  
 24 obs. associated

% JAN 13, 1994 22h 25m 03.00± 0.76s  
 39.928 N ± 7.2km 28.989 E ± 6.6km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

DST 0.43 221 iPg 25 11.20 -0.3  
 eSg 25 17.40  
 IZI 0.55 42 iPg 25 14.20 0.1  
 EDC 0.96 296 ePg 25 22.00 0.3  
 eSg 25 35.00  
 EYL 1.10 54 ePn 25 23.70 -0.5  
 ALT 1.23 135 ePn 25 26.80 0.4  
 S.D. = 0.5 on 5 of 5 obs.

% JAN 13, 1994 22h 27m 22.06± 0.87s  
 26.425 S ± 7.8km 27.303 E ± 10.1km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.7 (PRE).

KSR 0.67 327 eP 27 36.00 0.6  
 S 27 45.00  
 SLR 1.12 52 iPc 27 42.40 -1.2  
 S 27 55.00  
 SEK 1.91 171 eP 27 57.00 1.2  
 BFT 2.57 74 eP 28 06.00 0.7  
 S 28 36.50  
 BLF 2.85 200 eP 28 09.60 0.4  
 S 28 45.00  
 FRS 3.75 207 eP 28 20.00 -1.8  
 S 29 02.00

S.D. = 1.5 on 6 of 6 obs.  
 ? JAN 13, 1994 23h 03m 01.86± 5.24s  
 36.523 N ± 51.8km 2.801 W ± 10.2km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 3.1 (MDD).

ENIJ 0.65 47 iPc 03 14.86 -0.1  
 eS 03 23.00  
 EGUA 0.69 297 iPc 03 14.86 -0.6  
 eS 03 23.70  
 ECOG 0.97 321 iPd 03 20.22 -0.2  
 eS 03 30.40  
 ELOJ 1.25 300 eP 03 25.85 0.7  
 eS 03 40.20  
 EBAN 1.82 335 eP 03 35.88 2.5X  
 eS 03 58.80  
 EVIA 2.13 6 eP 03 41.00 3.0X  
 eS 04 06.00  
 EHOR 2.35 304 eP 03 45.25 4.2X  
 eS 04 12.70

S.D. = 0.9 on 4 of 7 obs.  
 ? JAN 13, 1994 23h 34m 50.44± 0.54s  
 1.580 S ± 7.2km 133.067 E ± 13.2km  
 DEPTH = 36.9km (7 depth phases)  
 4.9mb (21 obs.) 4.2MsZ (3 obs.)  
 IRIAN JAYA REGION, INDONESIA (196)

SWI 1.94 291 ePc 35 33.50 11.9X  
 iS 36 09.00  
 MTN 11.36 190 eP 37 34.20 0.8  
 0.5s 210.00nm 6.6mb X  
 eS 39 44.00  
 DAV 11.40 319 eP- 37 38.00 4.0X  
 CTB 12.42 315 eP 37 54.00 6.3X  
 MDG 13.20 106 eP 37 42.00 -16.0X  
 KNA 14.70 197 eP 38 19.20 1.4  
 eS 41 04.50  
 TSM 16.27 291 ePc 38 47.10 9.2X  
 WRA 18.29 176 P 39 00.50 -2.8  
 0.7s 26.80nm 4.5mb  
 WB2 18.29 176 iPd 38 59.40 -3.9X  
 0.5s 33.30nm 4.8mb  
 e 39 08.70  
 eS 42 15.20  
 KKM 18.45 294 ePc 39 20.00 14.7X  
 QIS 19.91 162 eP 39 17.00 -5.1X  
 i 39 25.20 31km  
 eS 43 28.20  
 TRT 21.24 253 ePc 39 48.10 12.3X  
 BAG 21.72 326 eP 39 40.80 0.1  
 1.5s 116.67nm 5.1mb  
 ASPA 21.97 178 iPc 39 40.90 -2.2  
 1.0s 68.30nm 5.0mb  
 iS 43 43.70  
 CVP 22.13 330 eP 39 53.50 8.8X  
 MBL 23.35 213 eP 40 02.00 5.4X  
 1.0s 81.00nm 5.2mb  
 WARB 25.23 194 eP 40 19.00 4.3X  
 eS 44 20.00  
 IPM 32.59 281 eP 41 27.90 6.9X  
 BAL 32.77 207 eP 41 24.50 2.2X  
 KLB 33.17 204 eP 41 27.00 1.2  
 ADE 33.63 172 eP 41 32.00 2.2X  
 SSE 34.40 342 Pc 41 41.50 5.1X  
 1.0s 23.00nm 5.1mb  
 Z 20s 0.50um 4.2MsZ  
 pP 41 52.00 37km  
 NWA0 34.55 204 eP 41 46.70 9.0X  
 NJ2 36.06 339 Pd 41 56.00 5.5X  
 LOE 36.19 303 eP 41 53.00 1.1  
 NST 36.79 299 eP 42 08.00 11.1X  
 GYA 37.77 319 P 42 05.00 -0.1  
 1.0s 11.00nm 4.7mb  
 pP 42 16.80 43km  
 MAT 38.23 7 (P) 42 13.00 4.3X  
 Z 20s 0.35um 4.2MsZ  
 eS 47 52.00  
 CHTO 39.19 303 eP 42 18.00 1.0  
 KMI 39.59 314 eP 42 21.00 0.4  
 1.2s 20.00nm 4.8mb  
 pP 42 31.80 38km  
 TIA 40.43 340 eP 42 28.50 1.5  
 XAN 42.08 330 P 42 38.40 -2.2  
 1.2s 16.00nm 4.6mb

CD2 42.68 322 P 42 55.00  
 TIY 43.51 336 eP 42 50.00 -2.3  
 Z 28s 0.74um 4.4MsZ  
 SNY 44.05 350 Pc 43 01.10 4.6X  
 BJI 44.21 341 eP 42 53.50 -4.3X  
 1.5s 14.00nm 4.5mb  
 Z 20s 0.30um 4.2MsZ  
 eSP 43 02.50  
 eS 49 40.00  
 eSS 53 00.00

CN2 45.69 352 eP 43 13.20 3.6X  
 0.8s 7.10nm 4.6mb  
 ePP 43 18.00 16kmX  
 LZH 46.32 327 Pc 43 13.50 -1.4  
 1.5s 66.00nm 5.4mb  
 Z 14s 0.51um 4.6MsZ  
 N 12s 0.50um

HHH 46.55 337 P 43 14.40 -2.2  
 1.4s 29.00nm 5.0mb  
 LSA 50.68 311 P 43 50.40 1.2  
 1.4s 27.00nm 5.0mb

GTA 50.93 327 Pc 43 48.40 -2.1  
 1.5s 31.00nm 5.1mb  
 pP 43 59.40 38km

GUN 53.95 307 P 44 13.80 0.3  
 0.8s 24.00nm 5.3mb  
 PKI 54.19 306 P 44 15.20 -0.1  
 KKN 54.38 306 P 44 16.60 0.0  
 DMN 54.45 306 P 44 17.60 0.5  
 GKN 54.99 306 P 44 20.80 -0.2  
 HYB 56.92 292 eP 44 35.00 0.2  
 GBA 57.16 287 P 44 38.00 1.5  
 WMQ 60.70 324 P 44 58.50 -2.2  
 1.2s 14.00nm 5.0mb

YAK 63.48 358 iPc 45 08.50 33km  
 0.9s 500.00nm 6.6mb X  
 i 45 28.00 25kmX

MHI 77.75 308 eP 46 40.00 -5.8X  
 TTA 82.81 26 eP 47 13.17 1.0  
 0.9s 7.28nm 4.8mb

CRP 84.10 28 (P) 47 21.08 2.2X  
 IMA 84.69 23 (P) 47 22.34 0.6  
 1.0s 4.49nm 4.6mb

SLKM 84.84 29 eP 47 22.84 0.4  
 FBA 86.81 25 (P) 47 31.89 -0.2  
 0.7s 3.08nm 4.6mb  
 KLU 87.08 28 eP 47 35.54 2.0  
 BALM 88.74 29 eP 47 41.93 0.4

YKA 101.57 26 ePdiff 48 40.60 0.7  
 0.8s 1.40nm 4.6mb  
 LKO 138.14 282 PKP 54 22.52 8.0X  
 0.7s 2.00nm

ARE 149.85 127 ePKP 54 41.00 6.4X  
 MOCB 150.85 142 PKP 54 38.40 2.2X  
 LPB 152.42 132 PKP 54 41.00 2.4X  
 LPAZ 152.55 131 iPKPc 54 41.70 2.6X  
 S.D. = 1.4 on 34 of 64 obs.

? JAN 13, 1994 23h 40m 22.06± 1.92s  
 9.248 S ± 21.5km 124.960 E ± 15.1km  
 DEPTH = 33.0km (normal)  
 TIMOR REGION, INDONESIA (289)

MTN 7.03 121 eP 42 05.50 0.1  
 0.3s 183.00nm 6.5mb X  
 eS 43 22.50

KNA 7.45 150 eP 42 11.20 -0.1  
 eS 43 37.00  
 MBL 12.83 202 eP 43 25.00 0.1  
 eS 45 47.00

WB2 13.98 141 eP 43 35.90 -4.2X  
 0.6s 36.60nm 5.3mb X  
 ASPA 16.69 150 eP 44 21.20 6.0X  
 1.1s 42.10nm 4.5mb

iS 47 17.30  
 LPAZ 151.51 153 PKP 00 09.60 0.0  
 S.D. = 0.2 on 4 of 6 obs.

\* JAN 13, 1994 23h 55m 51.56± 3.09s  
 37.463 N ± 18.9km 72.083 E ± 11.8km  
 DEPTH = 88.7 ± 33.7 km  
 4.7mb (5 obs.)  
 TAJIKISTAN (715)



13d 23h

QUE 8.42 212 eP 57 53.00 0.1  
 NDI 9.75 152 iPc 58 23.00 2.0  
 59 51.00  
 GKN 14.15 128 P 59 09.00 -0.2  
 KKN 14.71 127 P 59 15.40 -1.0  
 0.4s 22.00nm 4.8mb  
 DMN 14.72 128 P 59 16.20 -0.5  
 0.4s 30.00nm 4.9mb  
 PKI 14.94 127 P 59 18.40 -1.1  
 0.4s 21.00nm 4.7mb  
 GUN 15.01 125 P 59 20.00 -0.4  
 HYB 20.77 162 eP 00 28.50 1.2  
 GBA 24.24 167 P 01 00.00 -1.3  
 LZH 25.42 83 eP 01 14.50 1.9  
 1.0s 22.00nm 4.6mb  
 HFS 42.85 321 ePKP 03 41.50 -0.6  
 0.4s 2.00nm 4.3mb

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

JAN 13, 1994 23h 57m 31.48± 0.42s  
 12.908 N ± 6.6km 88.790 W ± 6.4km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 17 obs.)

OFF COAST OF CENTRAL AMERICA ( 76)

TPX 3.91 301 iP 58 32.00 1.2  
 iS 59 07.00  
 SCX 5.32 316 iP 59 01.00 10.3X  
 OXX 8.72 299 (P) 59 41.50 3.0X  
 (S) 01 12.00  
 PPM 11.26 304 iP 00 15.00 1.2  
 UNM 11.85 304 iP 00 23.00 1.5  
 CRX 12.29 303 (P) 00 43.00 15.5X  
 MRX 13.68 301 (P) 00 47.00 1.4  
 SDV 18.27 101 eP 01 44.70 0.2  
 TOV 18.88 97 eP 01 51.80 0.0  
 GOGA 20.98 13 eP 02 15.19 0.9  
 0.5s 31.59nm 5.0mb  
 OXF 21.51 359 eP 02 20.22 0.5  
 UYO 21.78 347 iPd 02 22.80 0.4  
 PRM 21.88 14 eP 02 24.40 1.0  
 MIAR 21.97 349 eP 02 23.95 -0.4  
 0.7s 13.52nm 4.5mb  
 JSC 22.35 17 eP 02 29.01 1.0  
 MYNC 22.47 10 eP 02 30.62 1.3  
 0.9s 12.81nm 4.4mb  
 LHS 22.66 17 eP 02 33.07 1.9  
 MEO 23.52 339 iPc 02 39.20 -0.3  
 WMOK 23.55 339 eP 02 39.43 -0.3  
 0.9s 21.64nm 4.7mb  
 TUL 23.76 346 iPd 02 42.20 0.4  
 ELC 24.28 359 eP 02 46.61 -0.2  
 CEH 24.50 19 eP 02 50.36 1.4  
 1.1s 43.00nm 4.9mb  
 e 03 03.48  
 FVM 25.01 357 (P) 02 53.61 -0.3  
 0.5s 7.09nm 4.5mb  
 NAV 25.34 15 eP 02 57.20 0.2  
 ACO 25.45 340 iPc 02 57.30 -0.8  
 CVL 26.61 18 eP 03 08.69 -0.1  
 ALQ 27.15 327 eP 03 14.01 0.0  
 0.6s 1.35nm 3.8mb  
 CBN 27.17 20 eP 03 14.00 0.2  
 TUC 27.91 317 (P) 03 24.53 3.7X  
 0.8s 3.91nm 4.2mb  
 YSNY 30.77 15 eP 03 44.76 -1.4  
 0.6s 8.11nm 4.7mb  
 PV08 31.06 329 eP 03 48.46 -0.6  
 ePcP 06 43.34  
 PV10 31.10 328 eP 03 47.27 -2.1  
 ePcP 06 42.93  
 PLM 32.69 313 eP 04 04.02 0.7  
 e 04 15.76  
 EMUT 33.09 328 eP 04 07.45 0.7  
 PEC 33.19 314 (P) 04 06.52 -0.9  
 0.8s 8.44nm 4.7mb  
 RSSD 33.74 340 eP 04 11.86 -0.5  
 ePcP 06 49.27  
 DAU 33.76 328 eP 04 12.74 0.1  
 BW06 34.77 333 eP 04 20.75 -0.5  
 0.6s 1.95nm 4.2mb  
 LPAZ 35.48 144 P 04 27.50 -0.4  
 LPB 35.69 144 (P) 04 31.00 1.5  
 BONR 36.22 319 eP 04 33.99 0.3  
 ULM 37.69 353 eP 04 45.50 0.1  
 SIV 39.70 136 P 05 02.50 -0.2

MOCB 40.86 146 P 05 13.80 1.2  
 PPD 50.57 133 eP 06 28.70 -0.6  
 FRB 52.72 11 eP 06 41.50 -3.5X  
 0.6s 3.00nm 4.4mb  
 YKA 52.83 345 eP 06 43.10 -2.7  
 0.7s 7.90nm 4.8mb  
 RES 61.86 358 eP 07 46.00 -3.4X  
 0.6s 3.00nm 4.6mb  
 INK 62.38 343 eP 07 50.50 -2.5  
 0.6s 3.00nm 4.6mb  
 KLU 63.34 333 (P) 07 57.25 -2.3  
 MBC 65.39 352 eP 08 11.00 -1.5  
 0.9s 3.00nm 4.4mb  
 DAG 72.98 13 eP 08 54.00 -5.2X  
 0.5s 3.52nm 4.6mb  
 WB2 138.12 255 ePKP 16 55.10 -0.7  
 0.5s 3.90nm  
 WRA 138.13 255 PKP 16 56.00 0.2  
 0.6s 0.90nm  
 GBA 150.33 28 PKP 17 19.90 3.5X  
 0.6s 3.00nm

S.D. = 1.1 on 47 of 55 obs.

\* JAN 14, 1994 00h 06m 14.74± 0.67s  
 26.400 N ± 9.3km 128.757 E ± 8.9km  
 DEPTH = 24.1km ( 4 depth phases)  
 4.6mb ( 16 obs.)

RYUKYU ISLANDS (238)

KAGJ 5.12 21 eP 07 30.80 -1.1  
 KUMJ 6.37 16 eP 07 48.90 -0.7  
 SSE 8.13 307 Pc 08 15.00 0.9  
 1.0s 16.00nm 5.2mb  
 Z 14s 2.20um  
 E 12s 1.60um  
 sP 08 24.50  
 NJ2 10.32 305 eP 08 43.00 -1.4  
 Z 12s 1.85um  
 N 11s 2.96um  
 E 11s 1.52um  
 BJI 17.17 326 eP 10 17.00 2.4  
 0.8s 12.00nm 4.1mb  
 Z 12s 0.89um 4.0Msz  
 N 12s 0.59um  
 esP 10 27.00  
 TIY 17.82 313 P 10 25.00 2.2  
 Z 12s 1.20um  
 N 11s 0.57um  
 XAN 18.74 299 P 10 34.30 0.2  
 0.6s 39.00nm 4.8mb  
 pP 10 43.50  
 HHC 20.26 320 P 10 50.20 -1.1  
 Z 12s 1.21um 4.5MszX  
 N 12s 0.62um  
 E 12s 0.73um  
 BTO 21.03 317 eP 10 59.00 -0.2  
 N 12s 0.39um  
 E 13s 0.54um  
 CD2 22.38 287 P 11 11.60 -1.1  
 1.0s 24.00nm 4.6mb  
 Z 14s 0.90um 4.3MszX  
 LZH 23.33 301 eP 11 21.00 -1.2  
 1.5s 40.00nm 4.7mb  
 Z 12s 0.53um 4.2MszX  
 N 12s 0.52um  
 pP 11 28.00 25km  
 sP 11 35.00  
 KMI 23.46 273 eP 11 23.00 -0.5  
 0.8s 20.00nm 4.7mb  
 Z 12s 1.30um 4.6MszX  
 E 11s 0.80um  
 pP 11 30.20 26km  
 LOE 26.58 256 eP 11 54.00 1.0  
 GTA 27.42 305 iPc 11 59.50 -1.1  
 1.0s 14.00nm 4.6mb  
 Z 12s 0.96um 4.6MszX  
 E 10s 0.34um  
 pP 12 05.00 19km  
 WMQ 37.38 308 eP 13 26.60 -0.9  
 1.2s 16.00nm 4.7mb  
 pP 13 34.40 26km  
 WRA 46.38 173 P 14 41.20 0.1  
 0.5s 3.60nm 4.6mb  
 WB2 46.38 173 iPd 14 40.90 -0.2  
 0.8s 4.20nm 4.5mb  
 FBA 63.66 28 (P) 16 47.60 1.6  
 INK 68.55 23 eP 17 17.00 -0.1

MBC 69.55 14 eP 17 24.00 0.9  
 0.7s 3.00nm 4.5mb  
 DAG 75.16 353 eP 17 53.00 -3.3X  
 0.7s 4.79nm 4.6mb  
 RES 75.29 11 eP 18 01.00 3.9X  
 0.6s 4.00nm 4.6mb  
 YKA 78.17 25 eP 18 13.10 -0.2  
 0.8s 1.40nm 4.0mb  
 HFS 78.89 332 eP 18 17.00 -0.3  
 0.5s 1.40nm 4.3mb  
 VRI 79.30 316 eP 18 21.00 1.2  
 MLR 79.96 316 eP 18 25.00 1.4  
 BRG 84.05 325 e(P) 18 41.60 -2.9  
 e 19 28.00  
 CLL 84.28 325 iPd 18 46.90 1.2  
 i 18 55.90  
 eSg 35 19.00  
 FRB 89.13 8 eP 19 14.50 5.4X  
 0.7s 2.00nm 4.5mb  
 S.D. = 1.3 on 26 of 29 obs.

& JAN 14, 1994 00h 50m 40.21s  
 42.274 N 121.905 W  
 DEPTH = 6.3km  
 OREGON ( 32)  
 <SEA-P>. MD 3.1 (SEA). ML 2.8  
 (GS).

HAMO 0.21 194 Pd 50 44.89 0.2  
 S 50 48.32  
 VRC 0.24 285 Pc 50 45.29 0.2  
 S 50 49.59  
 LASM 0.72 160 P 50 53.93 -0.7  
 LMPM 0.81 194 P 50 55.63 -0.7  
 BBOR 0.84 317 P 50 55.67 -1.2  
 LBFM 0.93 179 eP 50 57.57 -0.8  
 LGBM 0.95 193 P 50 58.14 -0.7  
 DBO 1.30 311 P 51 03.66 -1.0  
 S 51 22.64  
 LBKM 1.32 206 P 51 04.26 -0.8  
 HSO 1.52 326 P 51 07.84 -0.2  
 LGPM 1.53 207 eP 51 06.73 -1.4  
 NCOR 1.54 21 P 51 08.88 0.5  
 HBO 1.60 349 P 51 09.39 0.2  
 LMEM 1.75 172 eP 51 12.00 0.5  
 WDC 1.76 196 eP 51 09.75 -1.6  
 TCO 1.85 7 P 51 13.30 0.5  
 RNO 2.12 321 P 51 18.25 1.6  
 FHC 2.15 227 (P) 51 19.25 2.2  
 BPO 2.38 4 P 51 21.34 0.8  
 VIPM 2.42 22 P 51 22.91 1.8  
 KMPM 2.49 223 (P) 51 24.34 2.3  
 MPOR 2.53 332 P 51 23.15 0.6  
 SSOR 2.61 351 P 51 24.01 0.3  
 ORV 2.73 173 eP 51 24.76 -0.6  
 VGB 3.34 14 eP 51 33.46 -0.6  
 25 obs. associated

& JAN 14, 1994 02h 06m 50.29s  
 59.923 N 152.450 W  
 DEPTH = 92.8km  
 SOUTHERN ALASKA ( 2)  
 <AEIC>.

ILIM 0.30 302 eP 07 03.59 -0.7  
 eS 07 14.07  
 OPT 0.48 236 eP 07 04.73 -0.7  
 eS 07 15.87  
 HOM 0.49 123 eP 07 05.01 -0.4  
 eS 07 17.11  
 RED 0.52 342 iPd 07 05.08 -0.8  
 eS 07 16.74  
 RSO 0.56 344 iPd 07 05.63 -0.7  
 eS 07 17.54  
 RS2 0.56 344 iPd 07 05.67 -0.6  
 REF 0.58 348 iPd 07 05.77 -0.7  
 eS 07 18.06  
 RDW 0.59 342 iPd 07 05.80 -0.7  
 XLV 0.60 142 eP 07 05.32 -1.0  
 eS 07 17.74  
 DFR 0.68 350 iPd 07 06.47 -0.8  
 eS 07 19.20  
 NCT 0.68 340 ePd 07 06.33 -0.9  
 eS 07 19.18  
 CNPM 0.73 122 iPc 07 06.80 -0.8  
 eS 07 19.97  
 AUE 0.73 220 eP 07 06.79 -0.8



14d 02h

AUL	0.74	223	eP	07 07.06	-0.6
AUP	0.75	222	eP	07 06.58	-1.3
AUH	0.75	222	eP	07 07.13	-0.8
AUW	0.76	224	ePd	07 07.08	-0.8
AUI	0.77	221	eP	07 07.05	-0.9
			eS	07 19.96	
BRLK	0.81	101	eP	07 07.49	-0.9
			eS	07 21.09	
PDB	0.89	262	ePc	07 08.30	-0.9
			eS	07 22.19	
NKA	1.02	36	ePd	07 11.62	1.0
BKG	1.15	5	ePd	07 11.61	-0.8
			eS	07 27.54	
CDD	1.17	212	ePd	07 11.15	-1.3
			eS	07 27.66	
SLKM	1.26	61	eP	07 12.29	-1.3
SPU	1.28	9	iPd	07 13.08	-0.8
			eS	07 31.39	
CKL	1.28	2	eP	07 13.24	-0.7
CKT	1.29	5	ePd	07 13.18	-0.8
			eS	07 32.18	
CKN	1.31	6	ePd	07 13.67	-0.6
SYI	1.32	179	ePd	07 13.15	-1.1
			eS	07 31.10	
BGL	1.35	1	iPd	07 14.09	-0.6
CP2	1.35	4	iPd	07 14.01	-0.9
CRP	1.36	6	ePd	07 13.65	-1.3
CGLM	1.41	9	ePd	07 14.86	-0.6
NCG	1.49	5	iPd	07 15.91	-0.7
SEW	1.52	82	eP	07 15.24	-1.5
			eS	07 34.49	
MPA	1.64	68	ePc	07 17.08	-1.3
			eS	07 37.84	
SUA	1.76	28	ePd	07 19.36	-0.7
SVW	1.97	309	eP	07 20.77	-2.0
SKT	2.11	12	ePd	07 23.37	-1.3
PWA	2.14	35	P	07 23.80	-1.2
KDC	2.18	181	eP	07 22.13	-3.4
PWL	2.25	64	eP	07 24.51	-2.0
PLRM	2.34	43	eP	07 25.89	-1.7
PMR	2.34	43	eP	07 25.21	-2.4
MTU	2.41	86	eP	07 26.80	-1.9
KNK	2.47	51	eP	07 27.22	-2.2
GHO	2.53	41	eP	07 28.84	-1.6
CFI	2.64	59	eP	07 30.84	-0.8
CUT	2.71	22	eP	07 31.18	-1.4
SML	2.76	45	eP	07 31.42	-2.1
HIN	3.01	78	eP	07 34.60	-2.3
FID	3.08	72	eP	07 35.14	-2.7
VZW	3.13	66	eP	07 37.15	-1.4
CVA	3.40	77	eP	07 40.37	-1.8
TTA	3.47	332	eP	07 43.09	-0.1
KLU	3.57	61	ePc	07 42.07	-2.6
BALM	5.12	73	eP	08 03.58	-2.5
FBA	5.44	21	eP	08 07.52	-2.9
58 obs. associated					
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* JAN 14, 1994 02h 08m 54.85± 1.10s					
3.481 S ± 6.7km 131.119 E ± 13.7km					
DEPTH = 62.7 ± 12.2 km					
5.2mb ( 8 obs.)					
IRIAN JAYA REGION, INDONESIA (196)					
SWI	2.60	3	ePc	09 34.00	-1.4
			iS	10 06.50	
TLE	2.69	143	ePc	09 44.40	7.8X
			eS	10 20.00	
AAI	2.93	266	ePc	09 40.00	0.0
SLKI	4.47	178	iPd	10 04.00	2.2
MTN	9.31	180	iPd	11 09.80	0.9
	0.6s	106.00nm		6.0mb	
		iS	12 52.60		
MKS	11.74	261	iPc	11 46.00	4.1X
KNA	12.41	191	eP	11 49.00	-1.8
WB2	16.66	169	eP	12 44.50	-1.3
		eS	15 44.50		
QIS	18.88	155	eP	13 18.20	5.1X
MBL	20.72	211	eP	13 31.50	-1.0
STK	29.92	162	eP	15 02.00	2.9X
	1.7s	4.10nm		3.9mb X	
CHTO	38.65	306	eP	16 14.50	0.3
MAT	40.36	9 (P)		16 27.00	-1.2
	0.8s	7.46nm		4.6mb	
XAN	42.79	332	P	16 49.00	0.9
TIY	44.51	339	eP	16 58.00	-4.0X
BJI	45.43	344	eP	17 10.50	1.3
SNY	45.61	352	Pc	17 12.10	1.5

LZH	46.90	329	eP	17 34.00	12.9X
	1.5s	32.00nm			
LSA	50.52	314	P	17 50.00	0.5
GUN	53.56	309	P	18 12.20	-0.1
	0.6s	27.00nm		5.5mb	
PKI	53.77	308	P	18 13.10	-0.7
	0.6s	6.00nm		4.8mb	
KKN	53.98	308	P	18 14.90	-0.2
	0.5s	9.00nm		5.1mb	
DMN	54.03	308	P	18 15.40	-0.2
	0.6s	10.00nm		5.0mb	
GKN	54.58	308	P	18 19.10	-0.4
	0.6s	17.00nm		5.3mb	
WMQ	61.11	325	eP	19 09.60	4.6X
YAK	65.32	359	eP	19 40.80	8.6X
	0.9s	30.00nm		5.3mb	
LKO	136.60	280	PKP	28 17.20	4.4X
	0.8s	2.00nm			
MOCB	150.44	147	PKP	28 49.00	12.2X
LPB	152.50	137	ePKP	28 54.00	14.2X
LPZA	152.65	136	PKP	28 54.30	14.0X
S.D. = 1.2 on 18 of 30 obs.					
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* JAN 14, 1994 02h 31m 46.61± 1.03s					
38.303 N ± 9.2km 22.308 E ± 12.9km					
DEPTH = 10.0km (geophysicist)					
GREECE (364)					
MD 3.2 (ATH). ML 2.6 (THE).					
AGG	0.72	1	ePg	32 00.30	-0.5
			eSg	32 09.46	
ATH	1.16	106	ePb	32 09.00	0.7
VLI	1.66	162	ePn	32 15.00	-0.9
LIT	1.80	4	ePb	32 18.50	0.6
			eSb	32 42.26	
IGT	1.97	309	ePn	32 22.34	2.0
KZN	2.04	348	ePn	32 19.50	-2.0
GRG	2.65	2	ePn	32 30.98	0.8
KNT	2.89	9	ePn	32 33.94	0.4
OHR	3.04	338	e(Pn)	32 34.50	-1.1
S.D. = 1.4 on 9 of 9 obs.					
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? JAN 14, 1994 03h 52m 19.49± 4.47s					
39.774 N ± 35.3km 25.554 E ± 21.9km					
DEPTH = 10.0km (geophysicist)					
AEGEAN SEA (365)					
ML 2.9 (THE).					
ALN	1.18	18	ePb	52 41.56	0.0
			iSb	52 58.16	
OUR	1.33	295	ePb	52 44.08	0.1
			iSb	53 03.98	
PAIG	1.45	277	ePb	52 45.72	0.0
SRS	2.01	313	ePn	52 53.60	-0.3
			eSn	53 21.40	
KNT	2.46	305	iPn	53 00.48	0.3
			eSn	53 34.20	
S.D. = 0.3 on 5 of 5 obs.					
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JAN 14, 1994 04h 36m 45.01± 0.85s					
44.879 N ± 4.9km 8.890 E ± 6.6km					
DEPTH = 10.0km (geophysicist)					
NORTHERN ITALY (545)					
ML 2.5 (GEN), 2.2 (LDG).					
PCP	0.42	216	P	36 53.60	0.0
			S	37 00.15	
FIN	0.83	216	P	37 00.66	-0.4
			S	37 12.17	
BORS	0.92	133	P	37 02.40	-0.2
			S	37 10.69	
ROB	0.93	232	P	37 03.66	0.8
			S	37 15.88	
ORX	0.99	320	P	37 04.01	0.1
			S	37 16.39	
BHB	1.16	269	P	37 06.53	-0.1
			S	37 22.04	
RSP	1.19	284	P	37 05.87	-1.4
IMI	1.21	217	P	37 06.07	-1.4
			S	37 21.61	
ENR	1.24	239	P	37 08.38	0.3
			S	37 24.25	
STV	1.29	241	P	37 09.15	0.2
			S	37 25.64	
PZZ	1.33	254	P	37 08.43	-1.2
			S	37 25.26	
LSD	1.36	296	P	37 10.29	0.1

SBF	1.46	226	Pn	37 11.20	-0.2
			Sn	37 29.80	
RRL	1.50	272	P	37 13.10	1.0
LPG	1.63	293	Pn	37 14.20	0.0
			Sn	37 31.50	
LPL	1.65	293	Pn	37 14.50	0.1
			Sn	37 32.60	
FRF	2.08	232	Pn	37 20.50	0.1
LMR	2.31	229	Pn	37 24.30	0.6
LRG	2.31	233	Pn	37 25.20	1.5
S.D. = 0.8 on 19 of 19 obs.					
-----					
JAN 14, 1994 06h 07m 48.38± 0.34s					
37.571 N ± 4.0km 20.942 E ± 3.2km					
DEPTH = 31.3km ( 3 depth phases)					
4.8mb ( 47 obs.)					
IONIAN SEA (399)					
MD 4.9 (TTG), 4.6 (VIE). ML 4.6					
(ATH), 4.6 (TIR), 4.3 (THE).					
Felt on Zakynthos, Greece.					
VLS	0.67	335	ePg	08 01.00	-0.5
VLI	1.81	117	ePd	08 24.00	6.2X
AGG	1.81	37	iPb	08 21.77	3.8X
			eSb	08 43.92	
IGT	2.02	346	iPb	08 21.98	1.1
			iSb	08 48.32	
ATH	2.23	79	ePn	08 26.00	2.1
SRN	2.42	343	iPnc	08 28.00	1.4
			iSn	09 00.60	
LSK	2.59	354	iPnc	08 31.40	2.3
			iSn	09 06.80	
LIT	2.80	25	iPn	08 33.77	1.8
			iSn	09 08.32	
KZN	2.81	13	ePn	08 35.00	2.9X
KBN	3.05	358	iPn	08 36.70	1.1
VLO	3.10	339	iPn	08 36.70	0.4
			iSn	09 19.30	
PAIG	3.18	41	iPn	08 38.30	0.9
			eSn	09 16.92	
FNA	3.23	6	ePn	08 39.93	1.9
			eSn	09 18.58	
VAM	3.40	128	ePn	08 42.00	1.5
THE	3.44	27	ePn	08 42.36	1.3
OHR	3.54	358	iPnc	08 44.30	1.8
	1.3s	3080.00nm			
		i	08 55.00		
		i	09 24.50		
		i	09 39.70		
		i	09 43.50		
		Lg	10 06.50		
GRG	3.57	18	iPn	08 44.06	1.2
		eSn	08		



SDA	4.61	347	iPnc	08 57.10	-0.6				e	10 50.30		LKO	36.75	227	Pd	14 55.15	0.2	
PZI	4.84	265	P	08 58.65	-2.3				e	11 01.50			1.0s	30.00nm			5.1mb	
MGR	4.92	303	P	09 01.93	-0.2				e	11 19.00		TIC	38.79	224	Pd	15 12.41	0.4	
BDV	4.98	342	iPnc	09 01.13	-1.8				e	11 34.50			1.0s	30.00nm			5.0mb	
			iSn	09 52.74						10 51.00	-1.9	KIC	38.87	223	Pd	15 13.29	0.6	
TTG	5.02	346	iPnc	09 02.31	-1.2		WET	12.96	336	eP	10 54.00	-2.6		0.9s	50.00nm		5.3mb	
			iSn	09 55.01			PRU	13.24	342	P			LIC	39.14	224	Pd	15 15.61	0.7
			ePn	09 04.00	0.2			1.0s	35.90nm		5.3mb			0.9s	67.00nm		5.4mb	
RDO	5.04	44	ePn	09 03.80	-0.4				i	11 06.10		GDH	49.98	333	iPd	16 41.10	0.1	
IZM	5.06	79	eP	09 04.53	0.2				e	13 36.00			1.0s	40.00nm			5.4mb	
FVY	5.07	352	iPnc	09 58.63			LPG	13.24	311	eP	11 00.50	3.5X	GKN	53.49	80	P	17 06.20	-2.1
			iSn	09 05.60	0.0		LPL	13.26	311	eP	11 00.00	2.8X	DMN	54.04	81	P	17 10.60	-1.8
ALN	5.17	48	ePn	09 04.09	-2.2			0.9s	13.10nm		4.9mb			0.6s	31.00nm		5.5mb	
HCY	5.22	340	iPnc	09 57.86			GRF	14.00	333	iP	11 15.40	8.8X	HYB	54.06	95	eP	17 11.00	-1.3
			iSn	09 08.39	1.0			0.9s	83.00nm		5.5mb		KKN	54.10	80	P	17 10.60	-2.1
SGO	5.30	306	P	09 08.34	0.1		BRG	14.20	342	eP	11 09.20	0.0		0.6s	18.00nm		5.3mb	
IVA	5.35	352	iPnc	10 05.42				0.8s	24.00nm		4.9mb		PKI	54.30	81	P	17 12.00	-2.4
			iSn	09 08.00	-1.5				i	11 18.00		GUN	54.51	80	P	17 14.00	-2.0	
NKY	5.44	345	iPnc	10 04.97			HOF	14.30	336	eP	11 18.20	7.7X	FRB	56.84	328	eP	17 32.00	0.1
			iSn	09 10.22	0.0		HQL	14.39	121	eP	11 08.40	-3.3X		1.0s	4.00nm		4.4mb	
GIB	5.49	276	P	09 10.16	-2.0				eS	13 36.60		LSA	57.77	75	P	17 38.40	-1.0	
BRY	5.63	342	iPnd	10 08.43			BSF	14.58	319	eP	11 17.00	2.6		0.8s	7.00nm		4.8mb	
			iSn	09 15.00	2.3			1.0s	32.80nm		4.8mb		RES	60.44	344	eP	17 57.00	0.2
CIN	5.67	88	eP	09 14.89	-0.7		MOX	14.67	336	eP	11 15.20	-0.2		1.0s	2.00nm		4.2mb	
PLE	5.87	349	iPnc	10 16.65					i	11 23.00		LBTB	62.41	175	eP	18 11.08	0.5	
			iSn	09 17.00	-1.3		SRFA	14.69	122	eP	11 20.00	4.2X		1.1s	10.76nm		4.9mb	
EDC	6.06	61	eP	09 18.04	-2.4		CDF	14.72	322	eP	11 18.20	2.1	MBC	63.69	350	eP	18 19.50	1.0
USI	6.22	283	P	09 23.00	0.6			0.9s	22.75nm		4.6mb			0.7s	2.00nm		4.3mb	
DST	6.35	69	eP	09 24.46	0.6		CLL	14.85	340	ePKP	11 18.00	0.4	CD2	66.69	68	iPd	18 37.40	-1.1
DUI	6.46	311	P	09 21.80	-3.4X		CLL	14.85	340	iPKP	11 24.30	6.7X	XAN	68.80	63	P	18 51.00	-0.8
HVAR	6.57	330	ePn	10 33.10				1.3s	69.00nm		4.9mb		CHTO	69.45	82	ePc	18 54.50	-1.3
			iSn	09 29.43	-0.2		HAU	14.92	319	eP	11 20.30	1.6		1.1s	20.02nm		5.1mb	
SDI	6.88	309	P	09 34.30	0.1			0.7s	27.25nm		4.7mb		GYA	71.20	71	P	19 05.40	-1.2
IZI	7.20	65	iP	09 44.00	8.3X		AYN	15.29	120	eP	11 22.00	-1.5		1.0s	13.00nm		4.9mb	
SSR	7.31	4	ePd	09 37.10	0.6		TNS	15.50	329	ePnc	11 26.10	-0.1	INK	72.72	350	eP	19 14.50	-0.2
ALT	7.36	76	eP	09 39.00	0.3		TNS	15.50	329	ePc	11 31.10	4.9X	CN2	74.06	47	eP	19 22.00	-0.9
DRA	7.53	18	ePd	09 40.90	-1.3		SMF	15.57	311	eP	11 29.20	2.1		1.0s	17.00nm		5.0mb	
EYL	7.77	65	eP	10 00.00	17.5X			0.6s	9.00nm		4.2mb		YKA	74.07	340	eP	19 22.20	-0.5
GPA	7.79	67	iP	09 50.00	6.6X		LBF	15.66	312	eP	11 32.00	3.7X		0.8s	2.80nm		4.3mb	
BUC	7.87	28	ePd	09 51.00	1.7			1.0s	13.80nm		4.1mb		ULM	76.39	324	eP	19 39.00	2.9X
CMP	8.28	21	iPd	09 55.00	0.6		LOR	15.88	313	eP	11 34.10	3.0X	IMA	76.61	358	eP	19 37.97	0.7
ISR	8.65	27	eP	09 56.00	0.1		AVF	15.93	311	eP	11 34.50	2.7X		1.1s	7.41nm		4.6mb	
MLR	8.76	24	ePc	09 55.20	-4.4X			1.0s	11.20nm		4.0mb			ePp	19 48.13	33km		
ZAG	9.03	337	e(Pn)	09 56.90	-3.9X		CAF	15.97	303	eP	11 34.90	2.6	PWA	80.84	356	eP	20 01.00	0.9
PTJ	9.12	337	iPn	11 13.30			SSF	15.98	312	eP	11 36.40	4.1X		0.9s	38.60nm		5.4mb	
			iSn	09 58.70	-3.0X			0.9s	13.25nm		4.1mb		SVW	81.63	358	eP	20 05.97	1.6
UZD	9.18	350	e(Pn)	11 36.50			WLF	16.11	323	iPc	11 40.48	6.5X		1.0s	13.18nm		4.9mb	
RIY	9.19	330	ePn	10 00.00	-3.7X		BGF	16.13	310	eP	11 38.00	3.7X	RSSD	84.66	324	(P)	20 22.30	1.9
			iSn	10 04.00	0.0			0.9s	11.80nm		4.0mb			1.1s	4.51nm		4.6mb	
CFR	9.34	33	eP	10 06.80	-2.3		ENN	16.99	326	eP	11 50.00	5.0X	MIAR	85.96	311	eP	20 28.09	1.3
VRI	9.35	26	ePc	11 49.00				0.8s	16.10nm		4.2mb			1.1s	10.80nm		5.0mb	
LJU	9.72	333	ePn	12 07.00			DOU	17.15	322	P	11 50.70	3.6X		ePp	20 38.23	32km		
			eSn	10 06.70	-2.6			0.7s	18.90nm		4.3mb		NEW	86.75	333	eP	20 31.60	1.1
TRI	9.74	329	e(Pn)	12 08.40					i	11 54.80			0.6s	1.65nm		4.4mb		
			e(Sn)	10 08.80	-3.6X		MFF	18.02	307	eP	12 01.40	3.4X	LRM	87.00	329	eP	20 43.10	11.0X
VOY	9.95	330	eP	11 53.00				1.2s	48.20nm		4.5mb		PV08	91.14	323	eP	20 52.50	0.7
			eS	10 15.40	-2.7		LDF	18.86	312	eP	12 09.60	1.4	PV09	91.43	323	eP	20 54.11	1.0
PSZ	10.37	356	e(Pn)	10 23.10	4.4X		FLN	19.15	313	eP	12 12.40	0.7	PV10	91.48	323	eP	20 54.31	1.0
PGF	10.41	302	eP	10 23.10	5.3mb		LFP	19.16	310	eP	12 13.10	1.3	MSU	92.84	325	eP	21 00.98	1.5
	0.7s	13.80nm					GRR	19.20	311	eP	12 13.50	1.2	ASPA	121.77	97	PKP	26 42.00	1.0
ZST	10.98	346	eP	10 23.20	-3.1X		PAB	19.86	284	ePc	12 20.40	0.6		S.D. = 1.4	on 129 of 168 obs.			
KBA	11.03	332	iPc	10 24.90	-2.3		TAB	20.05	81	eP	12 16.00	-5.8X						
			iS	12 21.10			OBN	20.51	26	iPc	12 23.70	-2.6						
SPC	11.62	358	eP	10 33.30	-1.9			1.0s	140.00nm		5.3mb							
FIN	11.69	309	ePn	10 32.50	-3.5X				i	12 28.00								
BHG	11.75	332	eP	10 34.80	-1.9				i	12 39.00								
OGA	11.84	325	iPc	10 44.40	6.3X				ePPP	12 55.00								
WTTA	11.87	328	iPc	10 37.90	-0.6				iS	13 05.00								
			i	10 39.90					iS	16 17.00								
			iS	12 42.10					i	16 32.00								
WATA	11.95	328	iPc	10 38.50	-1.1				i	16 44.30	-1.0	SDV	10.44	50	eP	56 05.20	-1.5	
			i	10 57.80			UPP	22.41	356	iP	12 50.30	-1.4	TOV	11.65	49	eP	56 15.00	-8.1X
			i	12 45.80			HFS	23.05	351	eP	12 50.30	-1.4	TRN	19.14	63	eP	58 00.33	1.0
			i	12 47.00				0.6s	31.70nm		5.0mb		ARE	19.86	159	eP	58 06.00	-1.7
SBF	12.02	306	eP	10 44.90	4.5X			Z	14s	0.23um		SVB	20.49	57	eP	58 14.01	0.0	
	0.6s	9.20nm			5.1mb						3.8MszX	SLB	20.95	56	eP	58 19.50	0.7	
SQTA	12.02	326	iPd	10 39.50	-1.0				LR	22 14.00		LPZ	21.13	151	eP	58 20.09	-1.1	
			i	10 45.50			NUR	23.08	5	iP	12 50.30	-1.6		0.8s	6.86nm		4.1mb	
			iS	12 46.60			EKA	24.12	325	P	13 03.00	1.0	LPB	21.35	151	P	58 22.50	-0.7
OKC	12.42	352	eP	10 43.50	-2.3			0.7s	31.90nm		5.0mb	SIV	25.11	137	P	59 00.90	1.3	
			e	10 46.00			NB2	24.28	348	P	13 04.80	1.1	MOCB	26.58	152	P	59 14.60	0.9
			e	10 58.10				0.8s	8.60nm		4.4mb	FVM	37.21	345	(P)	00 44.01	-2.1	
GEC2	12.44	337	Pn	10 42.10	-4.0X		KAF	24.79	6	iP	13 08.60	0.1	ALQ	41.56	325	eP	01 21.47	-1.1
LRG	12.55	302	eP	10 50.00	2.5			0.5s	19.20nm		4.9mb		0.9s	4.34nm			4.2mb	
KHC	12.73	338	P	10 47.00	-2.9X		BCAO	33.05	184	iPc	14 23.00	-0.3	RSSD	47.40	335	(P)	02 10.10	0.7
	1.0s	8.90nm			4.8mb			0.7s	18.00nm		5.1mb			e	02 16.15		-3.5X	
									i	15 04.00	197kmX	YKA	65.83	343	eP	04 16.50	4.2mb	



14d 07h

LKO 73.00 81 Pc 05 04.54 -0.5  
0.7s 2.50nm 4.3mb  
LIC 73.56 84 P 05 07.86 -0.4  
0.8s 4.50nm 4.5mb  
TIC 73.56 84 P 05 07.60 -0.7  
1.0s 6.50nm 4.6mb  
KIC 73.84 84 P 05 09.68 -0.2  
0.6s 12.00nm 5.0mb  
GKN 145.98 27 PKP 13 14.30 0.2  
KKN 146.45 26 PKP 13 16.20 1.2  
0.6s 8.00nm  
DMN 146.53 27 PKP 13 16.40 1.2  
0.7s 11.00nm  
GUN 146.61 25 PKP 13 17.00 1.6  
0.7s 18.00nm  
PKI 146.70 26 PKP 13 16.50 1.0  
0.7s 10.00nm  
GBA 151.62 56 PKP 13 29.00 6.0X  
S.D. = 1.2 on 21 of 24 obs.

JAN 14, 1994 09h 07m 28.00± 0.33s  
6.320 S ± 3.0km 128.402 E ± 4.5km  
DEPTH = 356.0 ± 3.8 km  
4.7mb ( 24 obs.)

BANDA SEA (280)

AAI 2.62 355 ePd 08 27.00 2.0  
e(S) 09 03.90  
SLKI 3.31 120 iPc 08 30.30 -0.8  
iS 09 15.50  
TLE 4.38 81 iPc 08 41.90 0.2  
iS 09 31.80  
SWI 6.13 28 ePd 09 00.50 -0.5  
iS 10 12.00  
MTN 7.02 158 iPc 09 11.20 -0.2  
0.3s 484.00nm 6.0mb X  
WSI 8.70 247 iPc 09 31.20 -0.1  
eS 11 05.00  
KNA 9.38 178 iPc 09 39.50 0.1  
0.3s 82.00nm 5.5mb  
MBL 16.93 209 eP 11 04.40 -0.7  
eS 14 29.00  
KKM 17.29 315 ePc 11 11.50 2.6  
MDG 17.32 87 iPd 11 09.80 0.6  
QIS 17.84 144 iPd 11 14.10 -0.3  
i 11 17.00  
eS 14 18.70  
PMG 18.83 101 eP 11 25.00 0.7  
WARB 19.82 185 iPd 11 35.10 1.0  
0.2s 5.00nm 4.5mb  
PGP 21.04 339 ePd 11 47.10 1.2  
MEEK 22.25 204 eP 11 57.00 -0.4  
MRWA 25.61 206 eP 12 27.00 -1.1  
BAL 26.54 203 eP 12 35.50 -1.0  
KLB 27.04 200 eP 12 40.00 -1.0  
MUN 27.95 203 eP 12 48.00 -1.0  
e 13 50.00  
STK 28.26 156 ePd 12 50.90 -0.8  
0.6s 33.00nm 4.8mb  
e 13 56.00  
ADE 30.05 163 ePd 13 07.50 0.1  
ARMA 32.42 141 iPc 13 27.90 -0.1  
0.6s 14.00nm 4.5mb  
BWA 33.53 149 iPd 13 38.90 1.6  
NNT 34.13 303 eP 13 42.70 0.2  
CAN 34.53 150 iPd 13 46.40 0.7  
CNB 34.71 149 eP 13 48.00 0.8  
TOO 34.78 156 iPd 13 49.00 1.3  
0.6s 32.00nm 4.8mb  
LOE 35.36 312 iPc 13 52.80 0.0  
SSE 37.84 350 Pd 14 13.50 0.3  
1.0s 47.00nm 4.8mb  
CHTO 38.30 311 iPc 14 18.00 0.8  
1.0s 40.00nm 4.7mb  
KUMJ 38.71 3 eP 14 20.40 0.1  
GYA 38.81 328 iPc 14 22.00 0.6  
1.0s 67.00nm 4.9mb  
WHN 39.05 341 Pc 14 24.00 0.9  
1.0s 45.00nm 4.7mb  
NJ2 39.23 347 Pc 14 25.20 0.6  
1.0s 65.00nm 4.8mb  
DZM 39.91 117 iPc 14 30.00 -0.5  
KMI 40.00 322 Pc 14 33.40 2.0  
1.0s 50.00nm 4.7mb  
TKSJ 40.44 7 P 14 34.80 0.3  
WKYJ 40.89 9 P 14 38.30 0.1  
YONJ 41.56 6 P 14 44.20 0.6

TSRJ 42.24 9 P 14 49.00 -0.1  
IIDJ 42.53 12 eP 14 50.90 -0.6  
CHJJ 43.30 13 P 14 56.10 -1.5  
MTMJ 43.58 11 iP+ 14 59.10 -0.8  
TIA 43.61 347 eP 14 59.30 -0.7  
0.8s 25.00nm 4.5mb  
MAT 43.62 11 iPc 14 58.70 -1.3  
0.9s 36.97nm 4.6mb  
KAKJ 43.72 14 P 14 59.50 -1.3  
CD2 43.89 329 iPc 15 02.30 -0.1  
0.6s 67.00nm 5.1mb  
XAN 44.17 337 iPc 15 03.50 -1.0  
0.7s 63.00nm 5.0mb  
NIJ 44.45 12 eP 15 06.10 -0.5  
TIY 46.27 342 Pc 15 20.60 -0.3  
0.8s 32.00nm 4.6mb  
BJI 47.49 347 eP 15 29.50 -0.7  
1.0s 39.00nm 4.6mb  
LZH 48.07 333 iPc 15 35.20 0.3  
1.5s 140.00nm 5.0mb  
SNY 48.12 355 Pc 15 34.50 -0.4  
BTO 49.66 342 eP 15 46.10 -0.7  
CN2 49.96 357 Pc 15 48.00 -0.9  
0.8s 31.00nm 4.7mb  
epP 17 02.50 362kmX  
LSA 50.62 317 iPc 15 55.70 1.0  
0.8s 62.00nm 5.0mb  
MDJ 50.71 1 eP 15 54.50 0.0  
1.0s 31.00nm 4.6mb  
GTA 52.62 332 iPc 16 09.20 0.3  
0.8s 41.00nm 4.8mb  
PcP 17 14.00  
ScP 20 38.00  
GUN 53.32 312 Pc 16 14.60 0.2  
PKI 53.48 311 Pc 16 15.40 -0.2  
KKN 53.70 311 Pc 16 17.00 0.0  
DMN 53.73 311 Pc 16 17.40 0.1  
GKN 54.29 311 Pc 16 21.10 -0.1  
GBA 54.33 292 Pc 16 19.90 -1.5  
0.3s 4.00nm 4.3mb  
HYB 54.59 296 eP 16 21.50 -1.8  
POO 59.18 296 eP 16 54.00 -1.1  
NDI 60.32 308 eP 17 01.50 -1.2  
IRK 61.88 343 eP 17 13.00 0.4  
1.4s 430.00nm 5.8mb X  
YAK 68.14 1 iPc 17 51.80 -0.2  
0.8s 230.00nm 6.0mb X  
e(S) 26 23.00  
MHI 77.03 309 iPc 18 43.50 -0.7  
SDN 84.60 33 (P) 19 22.52 -0.4  
TTA 89.09 26 eP 19 44.19 -0.3  
1.1s 8.28nm 4.6mb  
IMA 90.86 24 (P) 19 52.37 -0.3  
SLKM 91.22 29 (P) 19 53.45 -0.8  
BALM 95.12 29 (P) 20 12.02 -0.3  
YKA 107.84 26 ePKP 25 13.80 -0.7  
0.6s 1.00nm  
GEC2 110.88 320 PKP 25 20.30 -0.5  
0.9s 1.15nm  
PV09 119.11 49 ePKP 25 37.49 0.3  
PV10 119.21 49 ePKP 25 37.53 0.2  
RSSD 120.82 42 ePKP 25 39.39 -0.7  
KIC 133.44 273 PKP 26 06.02 1.1  
0.3s 5.50nm  
LIC 133.72 273 PKP 26 06.54 1.1  
0.3s 5.50nm  
TIC 133.73 273 PKP 26 06.60 1.2  
0.3s 4.50nm  
LKO 134.34 277 PKP 26 07.94 1.3  
0.4s 8.50nm  
MBO 145.03 286 iPKP 26 26.90 1.2  
MOCB 149.33 154 PKP 26 33.70 0.6  
LPB 152.04 144 PKP 26 46.00 8.9X  
LPZ 152.21 144 PKP 26 38.70 1.1  
i 26 45.20  
S.D. = 0.9 on 87 of 88 obs.

? JAN 14, 1994 10h 00m 54.77± 0.91s  
39.712 N ± 7.6km 29.471 E ± 8.9km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.6 (ISK).

IZI 0.62 0 iPg 01 07.50 0.1  
eSg 01 18.00  
DST 0.66 261 ePg 01 07.90 0.0  
eSg 01 18.90

ALT 0.82 143 ePg 01 10.80 0.0  
eSg 01 22.80  
EYL 1.00 31 ePn 01 13.70 -0.1  
S.D. = 0.2 on 4 of 4 obs.

% JAN 14, 1994 10h 17m 14.80± 1.51s  
37.081 N ± 11.4km 4.205 W ± 9.0km  
DEPTH = 5.0km (geophysicist)

SPAIN (377)  
mbLg 2.4 (MDD).

ELOJ 0.08 32 iPd 17 15.40 -1.3  
eS 17 16.00  
ECOG 0.55 69 eP 17 26.80 1.0  
EGUA 0.57 116 eP 17 25.84 -0.4  
eS 17 33.00  
EHOR 1.11 312 eP 17 36.24 0.1  
eS 17 52.80  
EBAN 1.13 17 iP 17 36.77 0.3  
eS 17 53.00  
EHUE 1.48 60 eP 17 42.36 0.2  
S.D. = 1.0 on 6 of 6 obs.

JAN 14, 1994 10h 35m 51.45± 0.62s  
34.066 N ± 5.1km 116.967 W ± 6.8km  
DEPTH = 5.0km (geophysicist)  
SOUTHERN CALIFORNIA ( 43)  
ML 2.9 (GS).

PEC 0.24 223 eP 35 57.13 0.9  
SSK 0.62 284 ePc 36 02.96 -0.9  
eS 36 10.87  
PLM 0.72 173 eP 36 06.30 0.5  
GSC 1.24 6 eP 36 15.85 0.8  
eS 36 33.35  
GLA 2.05 119 (P) 36 25.54 -1.5  
TPNV 2.94 11 eP 36 40.25 0.4  
MEMM 3.93 337 (P) 36 53.69 -0.1  
BONR 4.03 345 (P) 36 54.68 -0.7  
MSU 5.89 40 (Pn) 37 22.33 0.6  
ePg 37 41.37  
S.D. = 1.0 on 9 of 9 obs.

JAN 14, 1994 11h 05m 56.74± 0.56s  
44.809 N ± 5.4km 9.856 E ± 5.3km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.9 (LDG).

TMA 1.47 332 iPc 06 23.10 -0.3  
VDL 1.70 351 iPd 06 26.90 0.1  
OSS 1.89 6 ePd 06 30.10 0.6  
SBF 1.98 242 Pn 06 30.40 -0.3  
Sn 06 56.00  
LLS 2.15 344 ePd 06 33.40 0.2  
OGA 2.22 21 iPnd 06 35.20 0.9  
LPG 2.30 288 Pn 06 36.00 0.4  
LPL 2.32 289 Pn 06 36.40 0.6  
Sn 07 03.20  
PGF 2.34 196 Pn 06 35.40 -0.6  
Pn 07 04.20  
EMS 2.41 303 iPd 06 39.00 1.9  
SQTA 2.59 21 iPnd 06 41.00 1.5  
i 06 45.10  
i 07 14.80  
FRF 2.62 243 Pn 06 40.30 0.4  
Sn 07 12.80  
WTTA 2.75 26 iPnc 06 42.40 0.5  
i 06 48.60  
i 07 22.20  
LMR 2.83 240 Pn 06 42.60 -0.2  
Sn 07 16.00  
LRG 2.86 243 Pn 06 44.00 0.8  
Sn 07 18.20  
TRI 2.90 71 e(Pg) 07 16.10 32.3X  
e(Sg) 07 31.70  
VOY 3.09 65 e(Pn) 06 45.80 -0.8  
e 06 54.00  
eSn 07 21.00  
e 07 36.10  
BSF 3.69 326 Pn 06 53.60 -1.6  
Sn 07 34.50  
VBY 3.88 78 ePn 06 57.40 -0.3  
eSn 07 40.20  
HAU 4.01 324 Pn 06 57.90 -1.7  
Sn 07 42.00  
CDF 4.02 335 Pn 06 57.70 -2.0



14d 11h

Sn 07 42.50  
PTJ 4.44 74 eP 07 19.80 14.1X  
BGF 5.21 292 eP 07 16.40 -0.2  
S.D. = 1.0 on 21 of 23 obs.

? JAN 14, 1994 11h 07m 31.21± 0.91s  
40.984 N ± 7.6km 22.798 E ± 6.9km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 1.7 (THE).

KNT 0.19 23 ePg 07 35.48 0.3  
eSg 07 38.12  
GRG 0.30 265 iPg 07 37.14 -0.2  
eSg 07 41.60  
THE 0.37 160 ePg 07 38.94 0.2  
eSg 07 44.52  
SRS 0.62 77 ePg 07 43.16 -0.4  
eSg 07 51.60  
S.D. = 0.5 on 4 of 4 obs.

? JAN 14, 1994 11h 35m 29.20± 1.62s  
7.067 S ± 13.8km 147.396 E ± 27.2km  
DEPTH = 89.9 ± 10.0 km  
4.5mb ( 2 obs.)  
EASTERN NEW GUINEA REG., P.N.G. (207)

LAT 0.56 316 iPc 35 43.10 -1.5  
PMG 2.34 186 iPc 36 07.00 0.5  
eS 36 42.00  
MDG 2.42 318 eP 36 09.20 1.6  
QIS 15.39 209 eP 39 03.30 0.7  
ARMA 23.57 171 eP 40 33.20 0.6  
0.4s 7.00nm 4.4mb  
STK 25.28 192 ePc 40 48.20 -0.5  
0.5s 12.30nm 4.6mb  
WARB 27.43 224 eP 41 08.50 -0.1  
MEEK 33.58 231 eP 42 02.50 -0.4  
MRWA 36.88 229 eP 42 30.60 -0.2  
KLB 36.88 225 eP 42 30.20 -0.6  
MUN 38.19 225 eP 42 41.80 0.0  
S.D. = 1.0 on 11 of 11 obs.

? JAN 14, 1994 11h 42m 18.15± 1.42s  
37.730 N ± 14.2km 6.655 W ± 13.2km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)

FIG 1.13 236 eP 42 39.20 0.0  
iS 42 56.00  
MOE 1.55 301 eP 42 46.00 0.1  
iS 43 10.50  
PAB 2.56 44 ePn 43 00.50 0.1  
eSn 43 29.00  
eSg 43 37.00  
MTE 2.76 346 e(P) 43 08.00 4.8X  
eS 43 39.60  
MVO 3.44 355 eP 43 12.80 -0.1  
iS 43 55.00  
S.D. = 0.2 on 4 of 5 obs.

? JAN 14, 1994 12h 04m 19.37± 4.77s  
30.070 S ± 32.5km 71.536 W ± 29.2km  
DEPTH = 10.0km (geophysicist)  
NEAR COAST OF CENTRAL CHILE (135)  
MD 4.0 (SAN).

RTRS 1.80 94 iPd 04 51.00 0.3  
JACH 2.73 163 eP 05 04.71 0.6  
eS 05 35.31  
ZON 2.86 122 eP 05 17.50 11.5X  
eS 05 28.00  
RTLL 2.92 116 e(P) 05 06.00 -0.8  
(S) 05 38.00  
ROCH 2.93 171 eP 05 07.10 0.1  
RTCV 3.13 125 e(P) 05 10.00 0.2  
PEL 3.15 167 iP+ 05 10.34 0.4  
LCCH 3.40 180 iP+ 05 13.02 -0.4  
eS 05 50.33  
FCH 3.42 162 eP 05 13.84 -0.2  
eS 05 51.70  
TACH 3.61 172 eP 05 16.50 0.0  
eS 05 55.21  
PCH 3.65 166 eP 05 17.27 0.1  
eS 05 57.32  
CACH 4.11 169 iPd 05 23.47 -0.3  
S.D. = 0.5 on 11 of 12 obs.

? JAN 14, 1994 12h 31m 36.35± 4.97s  
27.156 N ± 47.9km 140.487 E ± 27.2km  
DEPTH = 464.0 ± 34.4 km  
4.4mb ( 4 obs.)  
BONIN ISLANDS REGION (212)

WKYJ 8.20 330 eP 33 36.50 1.0  
IIDJ 8.59 346 eP 33 39.70 0.0  
TKSJ 8.78 322 eP 33 41.70 0.0  
CHJJ 8.96 352 eP 33 43.00 -0.7  
KAKJ 9.03 358 eP 33 43.90 -0.5  
eS 35 18.40  
TSRJ 9.20 336 eP 33 46.70 0.4  
KAGJ 9.30 298 eP 33 48.00 0.5  
MAT 9.56 349 eP 33 49.00 -1.2  
MTMJ 9.67 347 eP 33 50.40 -1.2  
KUMJ 9.95 305 eP 33 54.90 0.5  
NILJ 10.13 353 eP 33 55.50 -0.9  
YAMJ 10.99 358 eP 34 06.60 0.9  
OFUJ 11.93 4 eP 34 17.50 1.6  
GUN 48.08 284 P 39 34.90 0.3  
0.4s 12.00nm 4.7mb  
PKI 48.56 284 P 39 37.80 -0.5  
KKN 48.63 284 P 39 38.40 -0.2  
DMN 48.82 284 P 39 39.90 -0.2  
0.4s 6.00nm 4.4mb  
GKN 49.13 285 P 39 42.00 -0.4  
GBA 60.08 271 P 41 00.00 0.3  
YKA 72.80 28 eP 42 20.50 2.8  
0.7s 0.60nm 3.3mb X  
KAF 76.76 334 iP 42 39.80 0.0  
0.4s 3.80nm 4.3mb  
NEW 77.88 42 (P) 42 44.30 -1.9  
HFS 82.77 336 eP 43 10.50 -0.7  
0.3s 1.10nm 3.9mb  
S.D. = 1.1 on 23 of 23 obs.

\* JAN 14, 1994 13h 24m 53.08± 1.18s  
42.870 N ± 11.9km 24.189 E ± 14.5km  
DEPTH = 10.0km (geophysicist)  
BULGARIA (359)  
ML 3.0 (THE).

SRS 1.81 194 ePb 25 23.10 -1.4  
eSb 25 46.16  
KNT 1.96 210 iPb 25 25.73 -1.0  
eSb 25 49.76  
VAY 1.96 218 iPn 25 26.30 -0.4  
SOH 2.14 197 ePb 25 27.92 -1.4  
eSb 25 55.20  
SKO 2.22 247 ePn 25 33.00 2.5  
GRG 2.33 216 ePn 25 32.36 0.3  
eSn 26 01.60  
ALN 2.41 144 ePn 25 35.40 2.3  
eSn 26 05.64  
THE 2.42 203 ePn 25 33.28 0.1  
eSn 26 03.44  
MLR 2.91 25 eP 25 39.50 -0.9  
VRI 3.51 30 ePc 25 57.50 8.8X  
S.D. = 1.7 on 9 of 10 obs.

\* JAN 14, 1994 14h 14m 49.09± 0.85s  
39.696 N ± 7.0km 29.518 E ± 8.7km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

IZI 0.64 357 iPg 15 01.50 -0.5  
eSg 15 11.00  
DST 0.69 263 ePg 15 02.70 -0.1  
eSg 15 13.20  
ALT 0.79 144 ePg 15 04.50 0.0  
eSg 15 17.00  
EYL 1.00 29 ePn 15 08.00 -0.1  
ISK 1.41 346 ePn 15 15.50 0.7  
S.D. = 0.6 on 5 of 5 obs.

\* JAN 14, 1994 14h 18m 15.59± 1.50s  
41.045 N ± 29.7km 25.625 E ± 9.1km  
DEPTH = 5.0km (geophysicist)  
GREECE-BULGARIA BORDER REGION (363)  
ALN 0.35 115 ePg 18 22.66 0.0  
eSg 18 27.80  
OUR 1.44 241 iPb 18 42.21 -0.1  
eSb 19 01.16

SRS 1.54 273 ePb 18 43.80 0.1  
eSb 19 05.16  
SOH 1.74 263 ePb 18 46.88 0.3  
KNT 2.06 274 ePn 18 51.12 -0.2  
S.D. = 0.3 on 5 of 5 obs.

\* JAN 14, 1994 14h 42m 10.10± 0.28s  
59.653 S ± 9.4km 26.397 W ± 7.9km  
DEPTH = 33.0km (normal)  
5.1mb ( 9 obs.)  
SOUTH SANDWICH ISLANDS REGION (153)  
Mw 5.7 (HRV).  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 7S, 11C  
Centroid Location:  
Origin Time 14:42:19.3 0.7  
Lat 59.68S FIX; Lon 26.48W FIX  
Dep 15.0 FIX Half-duration 2.1  
Moment Tensor; Scale 10\*\*17 Nm  
Mrx=-2.93 0.63 Mtt= 4.53 0.68  
Mff=-1.60 0.18 Mrt= 0.97 0.46  
Mrf= 1.23 0.28 Mtf=-2.18 0.48  
Principal Axes:  
T Val= 5.27 Plg= 4 Azm= 17  
N -1.13 38 284  
P -4.13 51 112  
Best Double Couple: Mo=4.7\*10\*\*17  
NP1: Strike=140 Dip=53 Slip= -39  
NP2: 256 60 -136

NVL 19.09 141 iPc 46 32.00 -0.2  
1.0s 46.00nm 4.7mb  
Z 17s 1.00um  
N 17s 0.50um  
E 17s 0.50um

ePP 46 53.00  
ePPP 47 07.00  
eS 50 17.00  
RSTA 38.39 326 (P) 49 29.00 -0.8  
VAO 39.40 329 (P) 49 39.00 0.7  
CFA 39.46 296 e(P) 49 39.00 0.3  
RTLL 39.80 296 eP 49 42.50 1.0  
RTCB 39.82 296 eP 49 43.00 1.3  
PPD 41.53 324 eP 49 55.80 0.0  
GRM 43.37 77 eP 50 11.50 0.8  
FRS 45.66 73 eP 50 30.00 0.9  
MOCB 47.37 307 P 50 42.90 -0.3  
SEK 47.96 74 eP 50 53.00 5.5X  
0.5s 8.45nm 5.0mb  
SIV 50.39 315 P 51 05.10 -0.9  
BFT 51.34 74 eP 51 15.50 2.1  
LPB 52.61 307 P 51 25.00 1.7  
LPAZ 52.84 307 P 51 24.80 -0.4  
LR 04 45.00  
ARE 54.09 303 eP 51 35.00 1.0  
NNA 60.38 300 eP 52 18.00 -0.3  
0.7s 13.70nm 5.2mb  
LIC 67.83 23 P 53 06.89 0.1  
0.8s 15.00nm 5.2mb  
KIC 68.02 23 P 53 08.07 0.1  
0.9s 25.00nm 5.3mb  
TIC 68.24 23 P 53 09.31 -0.1  
0.8s 13.50nm 5.1mb  
LKO 70.96 22 P 53 25.88 -0.1  
0.8s 15.50nm 5.1mb  
SDV 76.86 315 eP 53 59.50 -1.0  
TOO 82.90 174 eP 54 34.00 1.6  
MUN 83.62 149 eP 54 36.20 0.1  
STK 88.27 170 ePc 54 59.50 0.5  
1.5s 6.30nm 4.7mb  
ASPA 95.42 162 eP 55 31.90 -0.5  
0.8s 9.00nm 5.3mb  
ULM 123.11 314 ePKP 01 04.50 1.0  
HFS 123.46 23 ePKP 01 02.00 -1.8  
0.4s 1.70nm  
CHTO 123.67 112 ePKP 01 05.10 -0.4  
DMN 124.22 93 PKP 01 06.20 -0.5  
0.8s 27.00nm  
GKN 124.30 93 PKP 01 05.80 -1.0  
0.7s 23.00nm  
PKI 124.34 93 PKP 01 06.20 -0.9  
0.7s 21.00nm  
KKN 124.45 93 PKP 01 06.40 -0.7  
0.7s 23.00nm  
GUN 124.85 94 PKP 01 07.80 -0.2  
0.7s 30.00nm



14d 15h

NUR 126.21 28 iPKP 01 08.60 -0.6  
 LRM 126.25 300 ePKP 01 00.70 -9.5X  
 FRB 127.17 338 ePKP 01 10.00 -0.9  
 0.8s 5.00nm  
 KAF 128.00 28 iPKP 01 12.20 -0.4  
 0.6s 9.60nm  
 LSA 128.98 97 PKP 01 16.60 0.5  
 DAG 136.25 3 ePKP 01 27.00 -0.9  
 0.8s 5.97nm  
 YKA 139.08 315 ePKP 01 25.20 -8.3X  
 0.9s 6.50nm  
 LZH 140.43 104 PKPc 01 39.50 2.5  
 GTA 141.00 97 ePKP 01 36.00 -1.9  
 XAN 141.24 111 PKP 01 37.00 -1.4  
 TIY 145.88 111 PKPc 01 46.40 0.1  
 Z 24s 0.68um 5.3MsZx  
 TIA 146.81 119 ePKP 01 48.70 1.0  
 BTO 146.98 106 ePKP 01 48.00 0.0  
 MBC 147.43 334 ePKP 01 46.50 -1.0  
 0.6s 3.00nm  
 HHC 147.93 107 PKP 01 53.20 3.7X  
 INK 148.79 317 ePKP 01 53.00 3.2X  
 0.7s 6.00nm  
 BJI 149.50 113 ePKP 01 56.50 4.7X  
 TOA 151.50 301 ePKP 02 00.70 6.5X  
 IRK 152.02 83 ePKP 02 02.00 6.8X  
 1.4s 22.00nm  
 e 02 12.80  
 e 02 22.00  
 KDC 152.57 290 e(PKP) 02 02.40 6.7X  
 PMR 152.61 299 ePKP 02 01.90 6.2X  
 0.7s 10.30nm  
 FBA 153.13 306 ePKP 02 03.30 6.9X  
 IMA 155.79 308 ePKP 02 09.30 9.1X  
 0.9s 3.10nm  
 S.D. = 1.0 on 45 of 57 obs.  
 % JAN 14, 1994 14h 58m 13.12± 1.34s  
 40.465 N ±11.0km 27.973 E ±10.4km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).  
 EDC 0.14 215 iPg 58 16.00 -0.1  
 iSg 58 17.00  
 DST 1.00 149 ePg 58 32.70 0.2  
 eSg 58 46.20  
 ISK 1.02 54 iPn 58 33.00 0.1  
 YLV 1.07 84 ePn 58 33.50 -0.3  
 IZI 1.15 96 iPn 58 35.00 -0.2  
 EYL 1.67 86 ePn 58 43.50 0.3  
 S.D. = 0.3 on 6 of 6 obs.  
 JAN 14, 1994 15h 07m 00.44± 0.38s  
 39.712 N ± 5.1km 25.591 E ± 2.8km  
 DEPTH = 16.4 ± 3.7 km  
 AEGEAN SEA (365)  
 ML 3.5 (THE).  
 PRK 0.70 131 ePg 07 11.80 -2.0  
 eSg 07 22.10  
 ALN 1.23 16 iPb 07 22.54 -0.3  
 eSb 07 39.06  
 OUR 1.38 297 iPb 07 24.94 0.0  
 eSb 07 44.86  
 RDO 1.43 358 ePb 07 25.20 -0.5  
 PAIG 1.49 279 ePb 07 26.42 0.0  
 eSb 07 48.38  
 IZM 1.85 135 ePn 07 31.50 -0.2  
 EDC 1.86 69 iPn 07 33.00 1.2  
 SOH 2.04 304 ePn 07 34.26 -0.3  
 eSn 08 02.06  
 SRS 2.07 313 iPn 07 34.62 -0.4  
 eSn 08 01.86  
 THE 2.21 295 ePn 07 36.86 -0.1  
 iSn 08 04.82  
 DST 2.35 92 iPn 07 39.40 0.5  
 LIT 2.42 280 iPn 07 40.10 0.2  
 eSn 08 11.10  
 KNT 2.51 306 ePn 07 41.30 0.0  
 iSn 08 13.02  
 CTT 2.60 56 ePn 07 41.50 -1.0  
 AGG 2.62 256 ePn 07 42.74 -0.1  
 eSn 08 14.82  
 DMK 2.67 37 ePn 07 40.90 -2.6  
 GRG 2.74 298 ePn 07 44.90 0.4

VAY 2.81 306 iPn 07 45.50 0.1  
 0.8s 90.00nm  
 i 07 53.50  
 iSn 08 29.60  
 Lg 08 43.00  
 KZN 2.99 283 eP 07 43.50 -4.6X  
 YLV 3.02 72 ePn 07 48.50 0.0  
 IZI 3.04 77 ePn 07 49.50 0.7  
 FNA 3.40 290 iPn 07 53.98 0.1  
 ALT 3.56 99 ePn 07 57.00 0.7  
 EYL 3.60 75 ePn 07 57.00 0.1  
 GPA 3.67 79 eP 07 59.50 1.8  
 SKO 3.88 307 ePn 08 00.60 0.0  
 OHR 3.92 292 ePn 08 01.50 0.3  
 MLR 5.78 2 ePc 08 27.50 -0.1  
 CFR 5.79 18 eP 08 28.00 0.4  
 VRI 6.21 7 ePc 08 34.00 0.4  
 S.D. = 0.9 on 29 of 30 obs.  
 \* JAN 14, 1994 15h 42m 23.29± 1.53s  
 31.711 S ± 6.4km 72.574 W ±15.0km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF CENTRAL CHILE (134)  
 IHA 1.53 149 eP 42 51.00 0.4  
 eS 43 12.00  
 ROCH 1.82 134 eP 42 54.50 -0.7  
 iS 43 15.92  
 JACH 1.94 120 eP 42 55.51 -1.2  
 iS 43 16.12  
 LCCH 1.95 155 iP 42 57.41 0.6  
 iS 43 21.40  
 PEL 2.14 132 iP 42 59.07 -0.5  
 iS 43 28.75  
 TACH 2.38 145 iPd 43 03.57 0.6  
 LNV 2.44 157 eP 43 03.77 0.0  
 iS 43 41.79  
 FCH 2.51 130 eP 43 04.29 -0.9  
 iS 43 34.45  
 PCH 2.58 138 eP 43 04.66 -1.2  
 CACH 2.92 146 iP 43 12.00 1.3  
 eS 43 50.50  
 RTRS 3.09 61 iPd 43 13.00 0.1  
 S 43 51.00  
 ZON 3.33 88 eP 43 17.50 1.0  
 RTCV 3.44 94 e(P) 43 20.00 1.9  
 CFA 3.70 90 eP 43 21.30 -0.5  
 S 44 06.20  
 RTPR 5.39 76 eP 43 45.00 -0.7  
 LPAZ 15.88 16 P 46 08.80 -0.3  
 S.D. = 1.0 on 16 of 16 obs.  
 ? JAN 14, 1994 16h 45m 22.09± 4.15s  
 40.595 N ±28.6km 28.846 E ±20.9km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.4 (ISK).  
 YLV 0.40 94 ePg 45 30.40 0.2  
 IZI 0.54 118 ePg 45 32.90 -0.1  
 iSg 45 40.90  
 EYL 1.00 91 ePg 45 41.40 -0.2  
 DST 1.00 190 ePg 45 41.60 0.0  
 S.D. = 0.3 on 4 of 4 obs.  
 ? JAN 14, 1994 16h 49m 15.10± 3.04s  
 32.815 S ±18.1km 71.699 W ±23.6km  
 DEPTH = 33.0km (normal)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.9 (SAN).  
 IHA 0.22 167 iPc 49 20.70 -1.1  
 i(S) 49 26.70  
 ROCH 0.60 105 iPd 49 26.13 -1.2  
 iS 49 35.23  
 LCCH 0.67 171 iP+ 49 27.70 -0.4  
 iS 49 38.10  
 PEL 0.91 111 iP+ 49 31.25 -0.4  
 iS 49 44.36  
 JACH 0.94 82 iP+ 49 30.37 -1.7  
 iS 49 42.85  
 TACH 1.05 143 iP 49 33.78 0.2  
 eS 49 48.51  
 LNV 1.16 168 eP 49 35.45 0.4  
 PCH 1.28 129 iPd 49 37.32 0.5  
 FCH 1.29 114 iP+ 49 37.17 0.0  
 iS 49 54.88

CACH 1.59 145 iP 49 43.05 1.6  
 CFA 3.17 69 e(P) 50 06.00 2.1  
 S.D. = 1.3 on 11 of 11 obs.  
 ? JAN 14, 1994 16h 52m 46.76± 3.40s  
 34.515 S ±38.3km 70.878 W ±15.7km  
 DEPTH = 90.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 CACH 0.46 30 iP 53 01.64 0.1  
 iS 53 12.82  
 LNV 0.71 321 iP 53 03.36 -0.2  
 iS 53 15.89  
 TACH 0.86 357 eP 53 05.07 -0.1  
 iS 53 19.25  
 PCH 0.94 19 iPd 53 06.50 0.3  
 iS 53 21.57  
 LCCH 1.19 331 iP 53 09.17 0.2  
 iS 53 24.46  
 FCH 1.28 23 eP 53 10.17 -0.3  
 iS 53 29.17  
 S.D. = 0.3 on 6 of 6 obs.  
 ? JAN 14, 1994 16h 55m 19.45± 1.15s  
 39.393 N ±11.5km 138.320 E ±23.0km  
 DEPTH = 33.0km (normal)  
 4.1mb (2 obs.)  
 EASTERN SEA OF JAPAN (223)  
 MAT 2.85 182 iPd 56 03.90 0.3  
 iS 56 30.50  
 TNE 39.70 197 eP 02 53.10 2.8X  
 GUN 44.57 272 P 03 31.30 0.7  
 KKN 45.10 272 P 03 35.40 0.8  
 DMN 45.32 272 P 03 36.80 0.4  
 GKN 45.49 272 P 03 38.00 0.4  
 GBA 59.05 262 P 05 16.00 -2.7  
 KAF 65.09 331 eP 05 59.00 0.5  
 NUR 66.71 330 eP 06 09.00 0.1  
 HFS 70.92 334 eP 06 35.00 0.0  
 0.3s 1.10nm 4.3mb  
 KHC 79.25 327 eP 07 23.00 0.2  
 GEC2 79.42 326 P 07 23.00 -0.7  
 0.6s 0.90nm 3.9mb  
 S.D. = 1.1 on 11 of 12 obs.  
 ? JAN 14, 1994 17h 41m 42.58± 0.62s  
 10.427 S ± 8.2km 119.025 E ±10.7km  
 DEPTH = 33.0km (normal)  
 4.5mb (2 obs.)  
 SUMBA REGION, INDONESIA (287)  
 WSI 1.45 59 ePc 42 05.60 -1.2  
 eS 42 25.30  
 KHKI 3.95 301 eP 42 46.00 3.7X  
 eS 43 40.10  
 e 46 51.50  
 DNP 4.14 294 ePc 42 56.00 10.9X  
 eS 43 40.00  
 e 45 41.50  
 MKS 5.19 5 iPd 43 01.00 0.9  
 MBL 10.70 176 eP 44 16.00 -0.7  
 eS 46 09.00  
 MRWA 18.91 188 eP 46 08.00 4.9X  
 eS 49 25.00  
 ASPA 19.36 135 iPc 46 09.90 1.4  
 1.4s 11.50nm 4.0mb  
 eS 49 38.70  
 GUN 49.82 321 P 50 34.90 -0.1  
 0.7s 11.00nm 5.0mb  
 PKI 49.88 320 P 50 35.10 -0.3  
 DMN 50.10 320 P 50 37.00 0.0  
 KKN 50.11 320 P 50 37.50 0.4  
 GKN 50.67 320 P 50 40.80 -0.4  
 S.D. = 0.9 on 9 of 12 obs.  
 & JAN 14, 1994 17h 58m 36.27s  
 42.277 N 121.909 W  
 DEPTH = 6.5km  
 OREGON (32)  
 <SEA-P>. MD 2.8 (SEA).  
 LAB 0.12 265 Pc 58 39.11 0.1  
 HAMO 0.21 193 P 58 41.04 0.3  
 S 58 44.39  
 VRC 0.24 285 P 58 41.31 0.2  
 S 58 45.42



14d 17h

BBOR 0.83 317 P 58 51.67 -1.2  
 LBFM 0.93 179 eP 58 53.66 -0.8  
 DBO 1.29 311 P 58 59.88 -0.7  
 S 59 18.40  
 HSO 1.52 326 P 59 03.88 -0.2  
 LGPM 1.53 207 eP 59 02.70 -1.5  
 ORV 2.74 173 (P) 59 22.68 1.2  
 9 obs. associated

JAN 14, 1994 18h 30m 13.89± 0.50s  
 42.672 N ± 6.1km 2.104 E ± 3.5km  
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)  
 ML 2.7 (LDG), 2.0 (STR).

LSPF 0.31 332 Pg 30 20.58 0.2  
 Sg 30 25.47  
 MTHF 0.41 50 Pg 30 22.26 -0.1  
 PAND 0.44 250 Pg 30 22.83 0.0  
 GRBF 0.45 292 Pg 30 22.95 -0.1  
 PERF 0.60 108 Pg 30 25.83 -0.2  
 ETER 0.67 123 iPd 30 27.40 0.2  
 eS 30 36.70

SALF 0.68 278 Pg 30 26.93 -0.5  
 LESF 0.70 301 Pg 30 27.49 -0.3  
 MLS 0.79 291 Pg 30 29.31 0.0  
 Sg 30 39.91

EPF 1.35 286 Pg 30 39.50 0.8  
 Sg 30 56.00

EGRA 1.85 256 eP 30 41.30 -4.6X  
 LPO 2.12 342 Pg 30 53.90 4.1X  
 Sg 31 20.40

CAF 2.25 359 Pg 30 55.70 3.9X  
 Sg 31 24.10

LFF 2.47 337 Pg 31 00.30 5.5X  
 Sg 31 30.70

RJF 2.67 351 Pg 31 03.50 5.9X  
 Sg 31 37.30

MAF 3.56 5 Pg 31 20.50 10.1X  
 Sg 32 05.70

TCF 3.62 1 Pg 31 21.30 10.2X  
 Sg 32 07.70

BGF 3.92 8 Pg 31 26.20 10.8X  
 Sg 32 16.60

SMF 4.16 17 Pg 31 32.20 13.4X  
 Sg 32 25.20

AVF 4.21 12 Pg 31 32.20 12.7X  
 Sg 32 25.20

MFF 4.24 339 Pg 31 32.90 12.9X  
 Sg 32 26.20

SSF 4.50 12 Pg 31 37.70 14.1X  
 Sg 32 35.20

S.D. = 0.4 on 10 of 22 obs.

\* JAN 14, 1994 18h 39m 52.76± 0.43s  
 41.016 N ± 4.1km 19.930 E ± 4.8km  
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)  
 ML 2.8 (TTG), 2.7 (THE).

TIR 0.33 352 ePg 40 00.50 0.8  
 iSg 40 06.90

VLO 0.64 211 ePg 40 05.70 0.1  
 LACI 0.64 345 ePg 40 14.20 8.6X  
 OHR 0.66 81 iPg 40 04.50 -1.5  
 0.5s 140.00nm

iSg 40 18.50  
 KBN 0.76 121 ePg 40 05.70 -2.0  
 LSK 1.00 149 ePg 40 10.70 -1.1  
 ULC 1.08 332 iPg 40 12.53 -0.5

iSg 40 27.18  
 FNA 1.12 101 iPg 40 14.30 0.5  
 eSg 40 32.42

SKO 1.48 49 iPn 40 20.00 0.5  
 TTG 1.50 341 iPg 40 19.59 -0.1  
 iSg 40 41.20

BDV 1.51 327 iPg 40 19.82 -0.1  
 iSg 40 41.14  
 IGT 1.51 168 ePb 40 21.10 1.2  
 iSb 40 42.34

PVY 1.58 1 iPg 40 21.70 0.8  
 iSg 40 43.59  
 HCY 1.79 324 iPnc 40 22.58 -1.3  
 iSn 40 48.38

IVA 1.85 359 iPnc 40 25.38 0.5  
 iSn 40 50.08  
 GRG 1.87 91 iPh 40 25.82 0.7

NKY 1.93 339 iPnd 40 25.88 -0.1  
 iSn 40 51.62

VAY 2.02 80 ePn 40 23.00 -4.2X  
 BRY 2.15 332 iPnc 40 29.36 0.1  
 iSn 40 57.29

LIT 2.15 114 ePn 40 30.34 1.1  
 eSn 40 58.94

KNT 2.25 85 iPn 40 31.22 0.6  
 eSn 40 59.46

PLE 2.35 350 iPnd 40 31.44 -0.6  
 iSn 41 02.20

AGG 2.71 136 ePn 40 38.14 0.9  
 eSn 41 11.34

SRS 2.77 87 ePn 40 37.42 -0.6  
 iSn 41 11.94

S.D. = 0.9 on 22 of 24 obs.

? JAN 14, 1994 20h 20m 38.88± 1.54s  
 31.350 S ± 12.2km 68.998 W ± 15.5km  
 DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.22 129 iPd 20 44.70 1.1  
 (S) 20 48.50

RTLL 0.45 88 iPd 20 47.80 -0.3  
 (S) 20 53.00

RTCV 0.64 142 e(P) 20 51.00 -0.8  
 RTRS 1.24 341 eP 21 02.00 0.1  
 S 21 19.00

S.D. = 1.4 on 4 of 4 obs.

? JAN 14, 1994 20h 35m 34.08± 3.69s  
 28.868 N ± 8.5km 34.729 E ± 27.2km  
 DEPTH = 10.0km (geophysicist)

EGYPT (553)

SRFA 0.41 81 iPd 35 42.30 -0.1  
 eS 35 48.00

BADA 0.42 145 iPc 35 42.60 0.0  
 eS 35 47.30

HQL 0.49 35 ePd 35 44.00 0.0  
 eS 35 52.00

AYN 1.12 90 ePc 35 55.10 0.1  
 eS 36 10.00

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

& JAN 14, 1994 20h 50m 41.69s  
 60.168 N 152.816 W  
 DEPTH = 99.8km

SOUTHERN ALASKA (2)  
 <AEIC>.

ILIM 0.11 219 iP 50 55.22 0.9  
 eS 51 06.75

INE 0.16 229 eP 50 55.32 0.7  
 eS 51 07.26

RED 0.25 5 iP 50 55.61 0.8  
 RS2 0.30 6 eP 50 55.99 -0.7  
 RSO 0.30 6 eP 50 56.02 -0.7

RDW 0.32 1 iP 50 56.00 -0.8  
 REF 0.33 10 iP 50 56.14 -0.7

NCT 0.40 352 iP 50 56.36 -0.8  
 eS 51 08.85

DFR 0.43 9 iP 50 56.39 -0.9  
 OPT 0.56 202 eP 50 57.58 -0.6  
 eS 51 10.86

HOM 0.78 130 eP 50 59.59 -0.5  
 PDB 0.79 242 eP 50 59.20 -1.0  
 eS 51 13.19

AUL 0.85 202 eP 51 00.65 -0.1  
 AUE 0.86 199 eP 50 59.84 -1.0  
 AUW 0.87 203 eP 51 00.20 -0.7

AUH 0.87 202 eP 51 00.51 -0.5  
 BKG 0.95 17 iP 51 01.03 -0.9  
 eS 51 16.63

NCG 1.28 14 eP 51 04.85 -0.9  
 SLKM 1.33 74 eP 51 04.98 -1.3

SYI 1.58 172 eP 51 07.95 -1.3  
 SUA 1.65 37 iP 51 09.48 -0.9

SVW 1.67 306 eP 51 08.20 -2.4  
 SEW 1.69 91 eP 51 09.51 -1.1

MPA 1.75 78 eP 51 09.86 -1.6  
 SKT 1.92 18 eP 51 12.38 -1.4

PWA 2.07 43 P 51 14.60 -1.0  
 PLRM 2.30 50 eP 51 16.58 -2.1

PMR 2.30 50 eP 51 16.82 -1.9  
 PWL 2.32 71 eP 51 16.39 -2.7

KDC 2.43 176 (P) 51 19.15 -1.3  
 KNK 2.48 58 eP 51 18.60 -2.5

GHO 2.49 48 eP 51 19.44 -1.9  
 CUT 2.56 28 eP 51 21.09 -1.1

MTU 2.59 92 eP 51 20.47 -2.2  
 SML 2.73 51 eP 51 22.08 -2.6

HIN 3.15 83 eP 51 28.13 -2.2  
 FID 3.19 77 eP 51 28.45 -2.4

VZW 3.21 71 eP 51 28.41 -2.8  
 VLZ 3.34 70 eP 51 29.13 -3.6

KLU 3.63 66 eP 51 33.69 -3.2  
 BALM 5.23 76 eP 51 55.77 -3.3

51 obs. associated

% JAN 14, 1994 21h 11m 52.77± 0.92s  
 15.922 N ± 7.8km 120.932 E ± 18.8km  
 DEPTH = 33.0km (normal)

LUZON, PHILIPPINE ISLANDS (249)

BCP 0.58 328 eP 12 04.20 -0.5  
 eS 12 14.00

QVP 1.29 177 eP 12 13.20 -1.4  
 eS 12 31.50

SZP 1.68 344 iPd 12 25.00 4.7X  
 TGY 1.81 180 eP 12 24.00 1.8

CVP 1.97 26 iPc 12 25.00 0.6  
 PGP 2.41 180 eP 12 31.00 0.3

GQP 2.48 144 eP 12 31.00 -0.8  
 eS 13 10.00

S.D. = 1.5 on 6 of 7 obs.

\* JAN 14, 1994 21h 41m 01.87± 0.55s  
 6.262 S ± 7.8km 129.455 E ± 9.2km  
 DEPTH = 33.0km (normal)

4.9mb (2 obs.)

BANDA SEA (280)

TLE 3.34 79 iPc 41 52.70 -0.3  
 iS 42 19.30

SWI 5.66 19 ePc 42 26.50 0.6  
 iS 43 25.50

MTN 6.75 166 eP 42 44.00 2.8X  
 0.2s 300.00nm 6.8mb X

KNA 9.45 184 eP 43 55.20  
 0.3s 78.00nm 6.5mb X

ASPA 17.83 167 iPd 45 01.00  
 0.3s 23.40nm 4.8mb

WARB 19.99 187 eP 45 08.30 -0.9  
 GUN 54.06 311 P 45 08.30 0.0

0.5s 20.00nm 5.4mb X  
 PKI 54.24 310 P 50 27.00 -0.5  
 0.5s 7.00nm 4.9mb

KKN 54.45 311 P 50 28.70 -0.2  
 0.5s 9.00nm 5.1mb X  
 DMN 54.49 310 P 50 29.20 0.0  
 0.5s 8.00nm 5.0mb X

GKN 55.05 310 P 50 32.90 -0.3  
 0.5s 14.00nm 5.2mb X  
 S.D. = 0.8 on 9 of 11 obs.

JAN 14, 1994 22h 31m 31.83± 0.32s  
 41.423 N ± 3.4km 20.248 E ± 3.4km  
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)  
 ML 2.7 (TIR), 2.7 (TTG), 2.5 (THE).

TIR 0.30 255 iPg 31 38.00 0.0  
 iSg 31 44.00

LACI 0.46 298 ePg 31 40.00 -1.1  
 iSg 31 47.00

OHR 0.52 127 iPg 31 42.00 -0.4



14d 22h

0.5s	400.00nm					MGP	0.87	273	iP	38	51.00	0.6	PAX	4.44	55	eP	03	46.54	-2.6						
	iSg	31	50.60				S.D. = 0.8	on	6	of	6	obs.	NEA	4.45	25	eP	03	45.83	-3.2						
SDA	0.84	318	iPgc	31	47.50	-0.6	-----												KAIM	4.53	95	eP	03	48.79	-1.4
KBN	0.90	153	ePg	31	48.00	-1.1	& JAN 15, 1994	00h	02m	42.03s			HMT	4.54	90	eP	03	48.09	-2.2						
ULC	0.92	306	iPg	31	48.25	-1.2	60.621 N		153.407 W				WRH	4.58	30	eP	03	47.92	-2.9						
	iSg	32	02.25				DEPTH = 161.6km						GLB	4.74	76	eP	03	50.63	-2.4						
SKO	1.05	58	iPg	31	51.20	-0.4	3.6mb ( 1 obs.)						DDM	4.75	45	eP	03	51.93	-1.2						
0.5s	170.00nm					SOUTHERN ALASKA					( 2 )		CCB	4.80	30	eP	03	50.40	-3.2						
SKO	1.05	58	iPb	31	52.20	0.6	<AETC>.						HDA	4.83	35	ePd	03	51.17	-3.0						
	iSg	32	05.00										MDM	4.96	26	eP	03	52.51	-3.3						
	Lg	32	06.50			NCT	0.24	104	iPc	03	03.17	0.6	DJE	4.97	43	eP	03	53.61	-2.3						
FNA	1.07	126	ePb	31	51.66	-0.3	RDW	0.33	115	ePc	03	03.66	0.8	FBA	5.01	29	eP	03	53.29	-3.2					
	eSb	32	10.26			DFR	0.36	94	iPc	03	03.64	0.8	CRQM	5.05	84	eP	03	55.09	-2.1						
VLO	1.11	211	ePg	31	53.60	0.9				eS	03	20.99		IL1	5.13	33	eP	03	54.91	-3.2					
PVY	1.19	350	iPg	31	54.01	-0.1	RS2	0.36	116	ePc	03	03.68	0.6	ILB	5.13	33	eP	03	54.88	-3.2					
	iSg	32	12.82			RSO	0.36	116	eP	03	03.66	0.6	GLM	5.18	30	eP	03	55.64	-3.1						
TTG	1.25	324	iPg	31	54.46	-0.5	REF	0.37	110	iPc	03	03.56	0.5	TGL	5.20	84	eP	03	56.96	-2.2					
	iSg	32	13.88							eS	03	21.08		WAX	5.22	87	eP	03	57.04	-2.3					
LSK	1.30	168	ePg	31	56.00	0.0	RED	0.37	123	iPc	03	03.54	0.6	IM3	5.39	359	eP	03	59.70	-1.8					
BDV	1.37	309	iPg	31	56.29	-0.6	ILIM	0.59	158	iPc	03	04.68	-0.8	BALM	5.43	81	eP	03	59.77	-2.4					
	iSg	32	17.17			INE	0.59	163	iPc	03	04.72	-0.9	CTGM	5.92	81	eP	04	06.80	-2.0						
IVA	1.47	350	iPg	31	59.19	0.8				eS	03	23.01		BC3	6.02	61	eP	04	07.80	-2.2					
	iSg	32	22.13			BKG	0.72	51	iPc	03	05.23	-1.0	PRP	6.08	33	eP	04	07.37	-3.5						
HCY	1.66	309	iPnc	32	01.41	0.3	CKL	0.78	42	eP	03	05.99	-0.7	BM3	7.83	26	eP	04	29.32	-4.9					
	iSn	32	26.17			BGL	0.81	37	iPc	03	06.11	-0.8	YKA	18.39	67	eP	06	43.50	-3.3						
NKY	1.67	327	iPnc	32	02.37	1.0	CKT	0.83	45	iPc	03	05.94	-1.0	0.5s	1.50nm				3.6mb						
	iSn	32	27.16							eS	03	25.55		MBC	19.53	24	eP	07	05.50	7.0					
GRG	1.69	105	iPb	32	00.82	-0.8	CKN	0.85	44	ePc	03	06.29	-0.8	90 obs. associated											
	eSb	32	25.58			CP2	0.86	41	iPc	03	06.38	-1.0	-----												
IGT	1.89	178	ePn	32	05.18	0.7	SPU	0.87	49	iPc	03	05.97	-1.3	& JAN 15, 1994	00h	49m	50.56s								
	eSn	32	32.30							eS	03	25.65		39.285 N		123.246 W									
BRY	1.95	320	iPnd	32	06.10	0.7	CRP	0.89	43	eP	03	06.15	-1.4	DEPTH = 6.0km											
	iSn	32	33.64			PDB	0.92	205	ePd	03	06.85	-0.7	NEAR COAST OF NORTHERN CALIF.		( 35 )										
PLE	2.01	342	iPnc	32	07.40	1.2				eS	03	25.92		<GM-P>. MD 2.8 (GM).											
	iSn	32	35.63			CGLM	0.97	44	ePc	03	07.06	-1.0	NTYM	1.00	153	eP	50	11.72	1.8						
KNT	2.01	97	ePn	32	05.38	-0.9	OPT	0.98	175	ePc	03	07.54	-0.5	KMPM	1.32	330	eP	50	15.85	0.5					
	eSn	32	33.14			NCG	0.99	37	iPc	03	07.33	-0.9	ORV	1.38	78	eP	50	14.90	-1.4						
LIT	2.16	127	ePn	32	09.70	1.4	NKA	1.07	83	eP	03	09.06	0.3	WDC	1.40	23	eP	50	15.79	-0.9					
	eSn	32	38.10			SVW	1.19	295	iPc	03	08.31	-1.6	FHC	1.62	340	(P)	50	18.93	-0.8						
S.D. = 0.8	on	23	of	23	obs.					eS	03	28.74		LGPM	1.66	11	eP	50	19.57	-0.8					
-----						AUL	1.24	181	eP	03	09.86	-0.4	LMEM	1.80	45	(P)	50	20.44	-2.0						
* JAN 14, 1994	23h	10m	43.00±	1.48s		AUW	1.26	181	eP	03	10.63	0.2	7 obs. associated												
40.648 N ±11.5km		30.134 E ±12.2km				AUH	1.26	181	eP	03	10.86	0.3	-----												
DEPTH = 10.0km	(geophysicist)					AUP	1.26	180	eP	03	10.16	-0.4	& JAN 15, 1994	01h	06m	02.47s									
TURKEY		(366)				HOM	1.31	137	eP	03	09.98	-0.9	39.287 N		123.244 W										
ML 2.8 (ISK).						BRLK	1.53	123	eP	03	11.66	-1.4	DEPTH = 5.0km												
										eS	03	33.88		NEAR COAST OF NORTHERN CALIF.		( 35 )									
EYL	0.08	168	iPg	10	45.70	0.1	CNPM	1.55	134	ePc	03	11.91	-1.4	<GM-P>. MD 2.9 (GM).											
GPA	0.38	160	ePg	10	50.90	0.0	SUA	1.55	56	ePd	03	11.76	-1.7	GBDM	0.16	342	P	06	05.95	0.1					
	eSg	10	56.90							eS	03	35.52		GCBM	0.24	294	P	06	07.59	0.3					
HRT	0.39	296	iPg	10	51.00	-0.1	SLKM	1.58	93	eP	03	11.12	-2.5	GHMM	0.30	54	P	06	09.44	0.9					
GBZT	0.54	285	ePg	10	55.00	1.0	SKT	1.64	33	iPd	03	13.08	-1.2	KSPM	0.30	319	P	06	08.86	0.2					
	iSg	11	03.30							eS	03	37.22		GHGM	0.36	116	P	06	10.03	0.3					
YLV	0.59	262	ePg	10	54.10	-0.8								GHVM	0.44	117	P	06	11.85	0.4					
	eSg	11	04.60			PWA	2.00	57	P	03	15.60	-2.6	GGUM	0.47	205	P	06	12.50	0.5						
IZI	0.59	239	iPg	10	55.20	0.2	MPA	2.00	92	eP	03	15.66	-2.6	GTSM	0.50	87	P	06	12.81	0.3					
	iSg	11	05.20			SEW	2.03	103	eP	03	16.32	-2.3	GMCM	0.50	170	P	06	12.72	0.2						
ISK	0.92	297	iPg	11	00.20	-0.3	SYI	2.08	165	eP	03	17.92	-1.2	GCVV	0.55	161	P	06	14.30	0.9					
	iSg	11	13.20			PLRM	2.29	63	eP	03	18.31	-3.3	KIPM	0.55	341	P	06	13.69	0.2						
CTT	1.38	292	iPn	11	08.20	-0.1	PMR	2.29	63	eP	03	17.83	-3.8	GBMM	0.60	104	P	06	14.92	0.4					
S.D. = 0.6	on	8	of	8	obs.	CUT	2.34	39	ePd	03	19.98	-2.2	KBNM	0.61	4	P	06	15.36	0.7						
-----						GHO	2.46	60	iPd	03	20.51	-3.2	GHCM	0.68	177	P	06	16.64	0.5						
% JAN 14, 1994	23h	37m	25.31±	1.68s					S	03	52.11		KBSM	0.69	337	P	06	16.89	0.7						
17.937 N ±26.2km		66.198 W ± 7.5km				PWL	2.50	82	eP	03	20.80	-3.4	GROM	0.77	35	P	06	18.28	0.3						
DEPTH = 27.0 ± 15.4 km						KNK	2.54	70	ePd	03	21.26	-3.4	KKPM	0.86	355	P	06	21.64	2.1						
PUERTO RICO REGION		( 90 )				TTA	2.63	333	eP	03	23.34	-2.5	NTYM	1.00	153	eP	06	22.02	0.1						
						SML	2.73	62	ePd	03	23.54	-3.5	KSMM	1.15	322	P	06	24.20	-0.3						
SJG	0.18	15	iP	37	30.90	-0.1	CFI	2.81	76	eP	03	24.52	-3.4	KMPM	1.32	329	eP	06	27.47	0.2					
CPD	0.29	69	iP	37	32.30	-0.1	KDC	2.92	170	eP	03	26.10	-3.2	ORV	1.38	78	eP	06	27.41	-0.9					
CLLP	0.39	292	iP	37	34.00	0.2	MTU	2.93	100	eP	03	27.68	-1.9	WDC	1.										



15d 02h

BKM	1.39	323	iPc	44	31.50	0.0	VBEM	89.33	42	P	56	53.00	0.1	ECH	147.18	338	PKP	02	48.84	1.7
			iS	44	04.50		TPNV	89.44	51	eP	56	04.84	0.3	MOF	147.50	337	PKP	02	49.60	1.8
DZM	4.13	217	iPc	44	34.90	0.1		0.9s	10.63nm			4.8mb		VITF	147.60	339	PKP	02	50.15	2.3
			iS	45	25.60		SHW	89.45	40	eP	56	05.14	0.8	BSF	147.64	338	ePKP	02	50.20	2.2
ARMA	19.65	231	iPd	47	45.40	0.4	STW	89.53	38	P	56	05.43	0.9	HAU	147.65	338	ePKP	02	50.30	2.4
	1.3s	121.00nm			5.3mb		CROR	89.67	42	P	56	05.44	0.1		1.0s	20.80nm				
CTA	21.61	263	P	48	06.69	2.5	FBA	89.67	17	eP	56	01.90	-2.9	BBS	147.68	336	PKP	02	48.61	0.6
CNB	24.03	223	iPd	48	28.30	0.9		1.1s	9.77nm			4.6mb		LOMF	148.03	337	PKP	02	50.81	2.2
	1.0s	183.00nm			5.6mb		VIPM	89.69	42	P	56	05.67	0.1	FLN	148.93	347	iPKPc	02	53.20	3.3X
BWA	24.13	226	iPd	48	27.10	-1.2	ASR	89.83	41	P	56	06.22	0.2		1.1s	56.40nm				
CAN	24.27	223	iPd	48	29.80	0.2	LON	89.97	40	eP	56	05.81	-0.8	LDF	149.01	346	iPKPc	02	53.30	3.3X
TOO	27.88	223	eP	49	01.70	-0.7	FMW	90.14	40	P	56	07.37	-0.2		1.2s	56.25nm				
	0.9s	22.00nm			4.9mb		MCW	90.28	38	eP	56	07.79	-0.2	LOR	149.13	340	iPKPc	02	54.10	3.8X
STK	28.01	237	eP	49	03.20	-0.4	RMW	90.31	39	eP	56	07.97	-0.2		1.1s	31.50nm				
	0.7s	9.70nm			4.6mb		JCW	90.58	39	P	56	09.58	0.2	LBF	149.34	340	ePKP	02	54.80	4.2X
WB2	32.80	262	iPc	49	43.80	-1.9	JBO	90.61	42	P	56	09.54	0.0	GRR	149.37	347	iPKPc	02	54.40	3.9X
	1.2s	5.00nm			4.0mb		EBG	90.80	40	P	56	10.92	0.5		1.0s	40.60nm				
		ePP	51	09.40			WTV	91.53	40	P	56	13.59	-0.2	SSF	149.42	341	iPKPc	02	54.80	4.1X
		eS	54	43.80			ARUT	91.83	51	eP	56	15.77	0.2		1.4s	67.95nm				
WRA	32.81	262	P	49	44.20	-1.6	GUN	92.89	298	P	56	21.10	0.2	HYF	149.51	342	ePKP	02	55.40	4.6X
	0.4s	3.70nm			4.4mb		MSU	93.03	50	eP	56	21.13	0.0	LPL	149.60	335	iPKPc	02	55.90	4.6X
ASPA	33.14	255	P	49	48.00	-0.7	PKI	93.17	298	P	56	21.80	-0.3		1.2s	24.10nm				
MBL	46.25	258	eP	51	36.20	-0.1		1.1s	22.00nm			5.2mb		LPG	149.60	335	iPKPc	02	56.00	4.6X
	0.3s	3.00nm			4.2mb		KKN	93.35	298	P	56	22.80	0.0		1.3s	39.00nm				
MAT	62.30	332	eP	53	31.00	-1.1	DMN	93.44	298	P	56	23.40	0.1	SMF	149.68	340	ePKP	02	55.30	4.2X
	1.3s	28.85nm			4.9mb			1.1s	38.00nm			5.4mb		AVF	149.71	340	ePKP	02	55.20	4.1X
NJ2	69.81	316	Pd	54	19.50	-0.1	GKN	93.96	298	P	56	24.80	-0.7	LPF	149.74	347	iPKPc	02	55.50	4.4X
CN2	74.01	329	Pc	54	44.00	-0.2	SRU	94.44	50	eP	56	26.69	-0.9		1.2s	79.15nm				
	1.0s	17.00nm			4.7mb		GBA	95.85	282	P	56	35.00	0.8	BGF	150.08	341	iPKPc	02	56.30	4.6X
BJI	76.52	321	eP	54	58.00	-0.4	INK	96.14	18	eP	56	33.50	-0.9		0.7s	8.25nm				
	1.5s	42.00nm			4.9mb			1.0s	3.00nm			4.6mb		MAF	150.47	341	ePKP	02	57.30	5.0X
TIY	77.43	317	PcP	55	04.00	0.4	WMQ	96.81	314	P	56	37.30	-0.8		1.0s	14.00nm				
		SS	05	54.00				1.5s	11.00nm			5.0mb		TCF	150.52	341	iPKPc	02	57.40	5.0X
XAN	77.72	312	P	55	05.00	-0.3	YKA	100.31	27	epdiff	56	52.30	-1.1		1.3s	40.05nm				
	1.4s	33.00nm			4.9mb			1.0s	3.50nm			4.8mb		SBF	150.64	332	iPKPc	02	58.40	5.7X
KMI	77.94	302	eP	55	07.00	0.1	OBN	129.04	327	ePKP	02	03.50	-10.5X		1.1s	41.25nm				
	1.2s	60.00nm			5.2mb			1.5s	42.00nm					LSF	150.75	342	iPKPc	02	57.60	4.9X
CHTO	78.37	295	ePc	55	09.80	0.8	SPC	140.68	328	ePKP	02	35.30	-1.0		0.6s	8.20nm				
	1.1s	17.67nm			4.7mb		BRG	142.41	334	ePKP	02	34.20	-4.9X	MFF	150.88	345	ePKP	02	58.00	5.1X
HHC	79.80	319	Pd	55	17.00	0.5		1.2s	11.00nm						0.8s	11.80nm				
	1.2s	23.00nm			4.8mb		SRO	142.55	327	ePKP	02	31.60	-7.8X	PGF	150.93	329	iPKPc	02	58.50	5.3X
CD2	79.87	307	iPd	55	18.00	1.0	PRU	142.82	333	PKP	02	35.50	-4.3X		0.9s	57.35nm				
	1.0s	31.00nm			5.0mb		ZST	142.91	329	ePKP	02	31.60	-8.4X	FRF	151.23	333	ePKP	02	58.80	5.3X
BTO	80.62	319	eP	55	21.00	0.2	MOX	143.52	336	iPKPd	02	38.40	-2.6		1.1s	40.80nm				
LZH	82.34	312	Pc	55	30.50	0.6		1.6s	62.00nm					LRG	151.43	333	ePKP	02	59.60	5.8X
	1.8s	170.00nm			5.5mb		VAY	143.70	315	iPKP	02	38.40	-3.2X	LMR	151.47	333	ePKP	02	59.50	5.6X
KDC	82.64	20	eP	55	29.36	-1.3		1.2s	80.00nm						0.9s	12.60nm				
	1.2s	36.71nm			5.0mb		KHC	143.88	333	PKP	02	39.50	-2.2	LFF	152.17	342	ePKP	03	01.10	6.3X
SVW	84.49	16	eP	55	39.40	-0.6		1.0s	23.00nm					LPO	152.28	341	ePKP	03	01.50	6.5X
	1.2s	82.08nm			5.4mb				e	03	02.50				0.5s	2.60nm				
ANM	85.37	11	eP	55	44.90	0.6			e	03	26.50			LIC	166.28	205	PKP	03	10.98	-0.6
KMPM	85.48	45	eP	55	46.47	1.1			e	03	45.00				1.5s	33.00nm				
SLKM	85.55	19	eP	55	43.11	-2.2	GEC2	144.04	332	PKP	02	39.50	-2.5	KIC	166.29	207	PKP	03	11.08	-0.5
CP2	85.55	18	eP	55	44.63	-0.9		1.2s	11.75nm						1.4s	47.50nm				
BKS	85.56	48	ePc	55	46.26	0.5	SKO	144.12	317	iPKPc	02	40.60	-1.7	LKO	169.49	210	PKPd	03	13.20	-0.5
	1.6s	90.00nm			5.3mb			1.3s	260.00nm						1.3s	26.50nm				
COE	85.67	48	eP	55	46.52	0.2	WET	144.17	333	ePKP	02	40.10	-2.1	S.D. = 1.1 on 117 of 147 obs.						
MHC	85.73	48	ePc	55	47.19	0.4		1.2s	31.00nm					? JAN 15, 1994 03h 19m 02.94± 3.08s						
	1.6s	50.00nm			5.1mb		GRF	144.43	335	iPKP	02	41.40	-1.2	17.740 N ±24.2km 101.440 W ±19.9km						
ARN	85.81	48	eP	55	47.05	0.0	OHR	144.97	316	iPKP	02	42.50	-1.3	DEPTH = 33.0km (normal)						
BCH	85.88	51	eP	55	47.59	0.0		1.1s	170.00nm					3.4mb ( 1 obs.)						
YAK	86.38	343	iPc	55	50.70	1.5	PTJ	145.03	327	iPKP	02	43.20	-0.6	NEAR COAST OF GUERRERO, MEXICO ( 58)						
	1.6s	100.00nm			5.4mb		TNS	145.04	338	ePKPc	02	42.80	-0.8	MRX	1.97	7	iP	19	33.42	-1.2
LGPM	86.58	45	eP	55	50.86	0.1	ZAG	145.07	327	iPKP	02	46.00	2.3			iS	19	01.50		
WDC	86.61	45	eP	55	50.68	-0.1	BHG	145.24	332	iPKPc	02	43.60	-0.4	CRX	2.35	45	iP	19	41.00	0.6
	1.4s	39.81nm			5.1mb															



NR1	0.40	54	11.94	56	52.75	0.15
			iSg	56	59.08	



15d 05h

BDV 0.56 151 iPg 56 55.88 -0.3  
 iSg 57 04.28  
 TTG 0.68 120 iPg 56 58.17 -0.2  
 iSg 57 08.52  
 PLE 0.89 51 ePg 57 01.72 -0.2  
 iSg 57 15.00  
 ULC 1.00 144 ePg 57 03.97 0.2  
 IVA 1.06 84 iPg 57 05.25 0.3  
 iSg 57 21.00  
 PVY 1.13 98 iPg 57 06.35 0.3  
 iSg 57 23.19  
 S.D. = 0.3 on 9 of 9 obs.

% JAN 15, 1994 06h 48m 25.31± 2.45s  
 44.737 N ± 7.2km 6.709 E ± 20.1km  
 DEPTH = 10.0km (geophysicist)  
 FRANCE (538)  
 ML 1.9 (GEN).

RRL 0.19 16 P 48 30.02 0.3  
 S 48 33.13  
 PZZ 0.36 129 P 48 33.22 0.4  
 S 48 38.48  
 BHB 0.41 75 P 48 33.81 0.1  
 S 48 39.67  
 RSP 0.57 43 P 48 36.42 -0.5  
 ENR 0.72 135 P 48 39.17 -0.4  
 S 48 48.73  
 ROB 0.94 118 P 48 43.33 0.0  
 S.D. = 0.5 on 6 of 6 obs.

% JAN 15, 1994 07h 23m 02.19± 0.68s  
 39.977 N ± 5.8km 23.446 E ± 5.2km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 ML 2.1 (THE).

PAIG 0.19 105 iPg 23 06.14 -0.2  
 eSg 23 09.26  
 OUR 0.54 49 ePg 23 13.06 -0.1  
 eSg 23 21.38  
 LIT 0.74 280 ePg 23 16.82 0.0  
 eSg 23 26.86  
 SOH 0.85 355 ePg 23 18.18 -0.4  
 eSg 23 30.46  
 SRS 1.14 6 ePg 23 24.78 1.2  
 eSg 23 40.86  
 KNT 1.26 341 ePb 23 25.10 -0.4  
 eSb 23 42.38  
 GRG 1.26 321 iPb 23 25.38 -0.3  
 eSb 23 42.70  
 AGG 1.29 223 ePb 23 26.26 0.2  
 eSb 23 44.46  
 S.D. = 0.6 on 8 of 8 obs.

JAN 15, 1994 07h 42m 24.52± 0.14s  
 1.979 N ± 2.7km 126.845 E ± 3.8km  
 DEPTH = 27.9km (10 depth phases)  
 5.6mb (69 obs.)

NORTHERN MOLUCCA SEA (266)  
 Mw 5.7 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 45S, 79C  
 Centroid Location:  
 Origin Time 07:42:36.3 0.2  
 Lat 2.00N 0.02 Lon 126.85E 0.02  
 Dep 104.5 1.4 Half-duration 1.3  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 0.58 0.08 Mtt= 2.13 0.12  
 Mff=-2.71 0.16 Mrt=-4.11 0.07  
 Mrf=-1.17 0.08 Mtf= 0.36 0.11  
 Principal Axes:  
 T Val= 5.66 Plg=40 Azm=171  
 N -2.17 29 53  
 P -3.50 36 299  
 Best Double Couple: Mo=4.6\*10\*\*17  
 NP1: Strike=328 Dip=29 Slip= 14  
 NP2: 234 88 119

DAV 5.23 346 eP+ 43 48.00 5.1X  
 CTB 5.82 333 iPc 43 56.00 4.8X  
 eS 44 59.50  
 BIP 6.23 355 iPd 44 00.50 3.4X  
 iS 45 12.00  
 MAP 8.76 341 iPc 44 36.00 3.5X  
 TSM 9.25 285 ePc 44 43.80 4.7X

0.6s 3377.70nm 7.8mb X  
 PPR 11.18 314 ePc 45 10.00 4.3X  
 KKM 11.35 291 ePd 45 16.00 8.0X  
 1.0s 1059.60nm 7.0mb X  
 e 45 35.00  
 GQP 12.62 340 ePc 45 30.00 4.9X  
 PGP 12.85 333 ePc 45 33.50 5.4X  
 QVP 13.82 336 eP 45 46.00 5.0X  
 MTN 15.33 164 eP 46 00.50 -0.2  
 0.4s 496.00nm 6.1mb  
 BCP 15.61 337 eP 46 08.00 3.5X  
 BAG 15.61 337 ePd 46 07.20 2.6  
 eS 48 58.00

OKTD 16.16 117 e(P) 46 28.00 16.5X  
 CVP 16.39 343 ePd 46 19.00 4.7X  
 SZP 16.70 338 iPc 46 23.00 4.7X  
 WWKK 17.67 108 eP 46 32.90 2.4  
 KNA 17.72 174 iPc 46 32.20 1.2  
 0.6s 754.00nm 6.0mb  
 TPI 19.75 256 ePd 46 54.70 -0.7  
 e 51 00.00  
 LEM 21.09 245 ePc 47 11.50 2.1  
 1.0s 50.00nm 4.9mb  
 eS 51 10.50  
 PJG 21.23 56 eP 47 10.00 -0.7  
 GUMO 21.23 56 eP 47 09.60 -1.1  
 1.2s 185.90nm 5.4mb  
 GUA 21.25 56 eP 47 09.70 -1.2  
 1.0s 240.00nm 5.6mb  
 WRA 22.99 162 P 47 28.00 -0.2  
 WB2 23.00 162 iPd 47 27.80 -0.5  
 0.4s 414.90nm 6.3mb  
 eS 51 31.90

PMG 23.18 120 eP 47 29.00 -1.1  
 KGM 23.51 271 ePc 47 35.00 1.7  
 0.6s 83.20nm 5.4mb  
 HKC 23.66 330 P 47 36.30 1.7  
 eS 51 46.00  
 QIZ 23.76 317 iPd 47 36.50 0.9  
 1.0s 340.00nm 5.8mb  
 N 16s 3.20um  
 E 19s 4.17um

S 51 44.00  
 QZH 24.18 341 eP 47 40.00 0.3  
 Z 27s 5.35um 4.9MsZ  
 S 51 52.00  
 GZH 24.73 329 P 47 45.40 0.4  
 1.0s 350.00nm 5.9mb  
 Z 14s 2.01um 4.8MsZ  
 E 12s 1.49um

pP 47 55.00 35km  
 iS 52 04.00  
 iS 52 06.00  
 QIS 25.65 151 iPc 47 53.20 -0.6  
 IPM 25.90 276 ePd 47 56.20 0.0  
 0.8s 166.70nm 5.7mb  
 ASPA 26.40 165 iPc 47 59.50 -1.2  
 0.5s 133.70nm 5.8mb  
 Z 19s 2.70um 4.8MsZ

iS 52 38.90  
 i 52 55.30  
 iScS 58 43.80  
 SNG 26.64 282 eP 48 03.50 0.5  
 1.0s 130.00nm 5.5mb  
 eS 52 36.40

WARB 28.00 180 eP 48 15.20 0.0  
 0.3s 25.00nm 5.4mb  
 PCT 28.10 298 eP 48 17.50 1.2  
 1.0s 3.50nm 4.0mb X

CTA 29.04 140 P 48 24.70 0.0  
 LOE 29.05 303 iPd 48 23.20 -1.6  
 KAGJ 29.30 7 P 48 26.20 -0.7  
 SSE 29.45 350 Pd 48 29.50 1.3  
 1.4s 120.00nm 5.5mb  
 Z 20s 1.10um 4.5MsZ  
 N 10s 0.29um  
 E 10s 0.44um

S 53 18.00  
 sS 53 32.00  
 MEEK 29.54 195 iPc 48 28.80 -0.3  
 0.5s 196.00nm 6.1mb  
 NST 29.64 299 iPd 48 29.70 -0.4  
 KUMJ 30.62 7 P 48 38.30 -0.3  
 WHN 30.78 339 P 48 41.00 1.0  
 1.0s 30.00nm 5.1mb  
 Z 24s 3.75um 5.0MsZ  
 N 20s 2.50um

S 53 40.00  
 sS 54 00.00  
 NJ2 30.85 347 Pc 48 42.00 1.4  
 1.0s 65.00nm 5.4mb  
 Z 22s 0.91um 4.4MsZ  
 N 11s 1.48um  
 E 10s 0.40um  
 GYA 31.12 323 iPd 48 42.80 -0.4  
 1.2s 65.00nm 5.3mb  
 Z 26s 2.00um 4.7MsZ  
 N 12s 1.67um  
 E 12s 1.83um

PcP 51 36.40  
 S 53 40.00  
 ScP 55 15.60  
 PcS 55 23.00  
 ScS 59 08.60

BDT 31.28 301 eP 48 43.00 -1.6  
 1.0s 213.90nm 5.9mb  
 CHTO 32.05 303 iPd 48 51.20 -0.1  
 0.9s 119.35nm 5.8mb  
 eS 54 18.80  
 TKSJ 32.54 11 P 48 54.80 -0.6  
 TKSJ 32.54 11 P 48 55.90 0.5  
 FORT 32.60 178 iPc 48 55.10 -0.8  
 0.5s 132.00nm 6.1mb  
 KMI 32.71 317 Pd 48 57.00 -0.3  
 1.2s 190.00nm 5.9mb  
 Z 20s 1.60um 4.7MsZ  
 N 10s 0.50um  
 E 10s 0.40um

S 54 14.00  
 MRWA 32.71 198 iPc 48 56.90 -0.1  
 WKYJ 33.10 13 P 49 00.30 -0.1  
 WKYJ 33.10 13 P 49 00.40 0.0  
 COOL 33.13 189 iPc 48 59.60 -1.0  
 YONJ 33.61 10 P 49 05.00 0.3  
 BAL 33.81 196 iPc 49 07.10 0.6  
 TSRI 34.45 13 P 49 12.10 0.1  
 KLB 34.48 194 iPc 49 12.00 -0.3  
 IIDJ 34.88 16 P 49 15.20 -0.5  
 TIA 35.23 346 eP 49 18.70 0.0

1.0s 190.00nm 6.0mb  
 Z 45s 2.29um 4.6MsZ  
 S 54 55.00

MUN 35.25 196 iPc 49 28.50 9.7X  
 1.1s 400.00nm 6.3mb  
 CHJJ 35.72 17 P 49 21.40 -1.4  
 NWAQ 35.89 194 iPc 49 27.00 2.8  
 0.4s 90.00nm 6.1mb

MTMJ 35.89 15 P 49 24.00 -0.4  
 MAT 35.96 16 iPd 49 23.50 -1.4  
 1.0s 56.00nm 5.4mb  
 Z 21s 1.79um 4.8MsZ

eS 54 54.00  
 XAN 36.03 334 P 49 24.50 -1.0  
 1.0s 58.00nm 5.5mb  
 Z 28s 1.86um 4.7MsZ

pP 49 33.00 29km  
 sP 49 38.00  
 S 54 56.00  
 sS 55 13.00  
 ScS 59 39.00

CD2 36.13 325 iPd 49 25.90 -0.5  
 1.2s 120.00nm 5.7mb  
 Z 30s 3.51um 5.0MsZ  
 E 10s 1.45um

PP 50 44.00  
 KAKJ 36.22 18 P 49 23.50 -3.5X  
 STK 36.47 159 eP 49 28.10 -1.0  
 0.6s 106.10nm 5.9mb

iPp 49 37.10 30km  
 iPP 50 50.90  
 eScP 54 01.10  
 eS 54 59.70  
 eScS 59 33.10

NIIJ 36.83 16 P 49 31.10 -1.0  
 DL2 37.06 353 P 49 35.50 1.5  
 1.0s 200.00nm 5.9mb  
 Z 18s 0.94um 4.6MsZ

RKG 37.51 193 iPc 49 39.20 1.3  
 0.5s 149.00nm 6.1mb  
 TIY 37.95 341 Pd 49 42.00 0.4  
 0.8s 32.00nm 5.2mb

Z 28s 3.86um 5.1MsZ  
 E 18s 1.06um  
 PP 51 17.00



PMR	85.42	28	eP	55	00.34	-0.2
	1.0s	44.96nm				5.6mb
PMO	85.93	105	iPc	55	04.30	0.4
	1.4s	119.40nm				5.9mb
TPT	86.19	105	iPc	55	06.90	1.7
	1.2s	55.30nm				5.7mb
VAH	86.20	105	iPc	55	05.40	0.2
	1.3s	51.30nm				5.6mb
FBA	86.24	25	eP	55	05.54	0.9
	0.6s	2.32nm				4.6mb X
RUV	86.43	105	iPc	55	07.90	1.5
	1.4s	108.00nm				5.9mb
TOA	86.85	28	eP	55	08.80	1.1
KLU	86.95	29	eP	55	08.74	0.5
OBN	88.53	325	eP	55	15.00	-0.8
	1.2s	60.00nm				5.8mb
Z	26s	0.70um				5.0MsZX
E	25s	0.60um				
		e	55	23.00		25km
		e	56	34.00		
		eSKS	05	47.00		
		(S)	06	07.00		
		ePS	07	37.00		
BALM	88.68	29	eP	55	17.56	1.0
SYO	90.88	201	ePc	55	26.30	-0.2
KAS	91.02	311	eP	55	39.00	11.1X
KAF	93.19	332	eP	55	36.00	-1.3
MBC	93.62	13	eP	55	40.00	0.9
	1.0s	3.00nm				4.7mb
NUR	94.28	331	eP	55	42.00	-0.3
VRI	95.63	316	ePd	55	45.00	-3.9X
SLR	98.57	244	eP	55	55.50	-7.2X
DAG	99.01	352	iPc	56	03.00	-0.5
	0.5s	4.93nm				5.3mb
		iPp	56	14.30		36km
RES	99.50	10	eP	56	06.00	0.1
	0.7s	3.00nm				4.9mb
HFS	99.61	332	eP	56	08.40	1.8
	0.5s	1.60nm				4.8mb
NVL	99.93	198	(P)	56	08.00	0.2
		e	59	27.00		
		e	00	10.00		
YKA	101.03	25	ePdiff56	13.50		0.6
	0.5s	0.80nm				4.5mb X
BRG	102.70	323	iPdiff56	27.50		6.9X
	0.9s	20.00nm				5.8mb
GEC2	103.52	321	Pdiff	56	25.90	1.5
	1.1s	6.61nm				5.3mb
		e	56	31.30		
		e	56	40.50		
		e	00	40.00		
		e	00	52.00		
		e	01	08.00		
MOX	104.17	324	ePdiff56	35.80		8.7X
LPG	109.15	320	ePKP	01	01.20	7.1X
	0.9s	7.20nm				
LPL	109.16	320	ePKP	01	00.60	6.6X
LRM	109.41	40	ePKP	00	59.00	4.5X
FRB	113.44	7	ePKP	01	07.50	6.3X
	1.0s	4.00nm				
RSSD	115.49	38	ePKP	01	03.92	-2.2
TUC	115.78	53	ePKP	01	07.15	0.3
ULM	116.43	29	ePKP	01	06.50	-0.9
ALQ	118.11	48	ePKP	01	10.82	-0.5
LTX	122.56	53	ePKP	01	17.35	-2.5
UYO	127.11	43	iPKPd	01	27.50	-0.9
FVM	127.40	37	ePKP	01	27.06	-1.8
MIAR	127.49	42	ePKP	01	28.12	-1.0
GAC	128.57	20	ePKP	01	35.00	4.2X
ELC	128.58	37	ePKP	01	29.87	-1.2
KIC	130.96	280	PKP	01	36.09	-0.2
	0.5s	410.00nm				
TIC	131.19	281	PKP	01	35.89	-0.9
	0.5s	6.00nm				
LKO	131.26	284	PKP	01	36.63	-0.2
	0.6s	5.50nm				
LIC						



15d 08h

e 02 49.40  
 MOCB 157.31 148 PKP 02 21.00 0.5  
 VAO 158.26 196 ePKP 02 22.20 1.1  
 e 02 55.50  
 e 03 03.90  
 LPB 159.37 135 PKP 02 24.00 1.1  
 SDV 159.51 58 ePKP 02 22.10 -0.8  
 LPAZ 159.52 135 iPKPc 02 23.40 0.1  
 PS 17 24.00  
 LR 58 40.00  
 TOV 159.72 55 ePKP 02 23.00 0.1  
 SIV 164.04 151 PKP 02 27.20 0.1  
 BDFB 165.51 200 ePKP 02 27.67 -0.8  
 ePKPab03 26.16  
 S.D. = 1.0 on 161 of 192 obs.

JAN 15, 1994 08h 51m 51.84± 0.85s  
 40.474 N ± 7.5km 21.777 E ± 6.7km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 1.9 (THE).

FNA 0.43 316 ePg 52 00.56 -0.2  
 LIT 0.66 124 ePg 52 04.24 -0.8  
 eSg 52 14.00  
 GRG 0.68 44 ePg 52 04.41 -0.9  
 OHR 0.98 311 eP 52 10.00 -0.5  
 VAY 1.04 35 eP 52 13.70 2.3  
 KNT 1.09 51 ePg 52 11.68 -0.7  
 eSg 52 25.92  
 SOH 1.25 73 ePb 52 14.60 -0.5  
 AGG 1.51 163 ePb 52 19.80 0.8  
 SKO 1.52 350 eP 52 12.00 -7.0X  
 OUR 1.69 94 ePb 52 21.84 0.3  
 S.D. = 1.2 on 9 of 10 obs.

& JAN 15, 1994 09h 17m 14.63s  
 37.632 N 118.841 W  
 DEPTH = 10.2km  
 CALIFORNIA-NEVADA BORDER REGION ( 40)  
 <GM-P>. MD 2.8 (GM).

CLKR 0.04 162 P 17 15.14 -1.9  
 MCSM 0.06 295 P 17 15.50 -1.6  
 MEMM 0.09 294 iPc 17 17.28 0.1  
 HTRC 0.12 151 P 17 17.62 -0.3  
 MPM 0.15 262 iPc 17 18.10 -0.3  
 CASR 0.24 104 P 17 19.79 -0.1  
 MRMC 0.27 81 iPc 17 20.23 -0.2  
 MTUM 0.36 141 iPd 17 21.70 -0.3  
 BCKR 0.38 80 P 17 22.36 -0.1  
 BHPR 0.44 140 P 17 23.31 -0.3  
 CWCN 0.45 108 P 17 23.47 -0.3  
 BONR 0.54 53 iPc 17 25.03 -0.5  
 FRI 0.94 228 P 17 32.11 -0.4  
 MSTM 1.27 283 P 17 38.04 -0.1  
 CMB 1.29 289 ePc 17 38.07 -0.4  
 TNP 1.36 70 ePc 17 39.89 0.1  
 KVN 1.53 22 eP 17 43.20 1.0  
 WLHM 1.54 164 P 17 42.99 0.6  
 PHEM 1.70 216 P 17 46.25 1.8  
 BRMM 1.77 244 P 17 47.11 1.6  
 PKEM 1.87 213 (P) 17 47.54 0.6  
 VPEN 1.87 154 P 17 49.72 2.7  
 RCWM 1.93 150 P 17 50.63 2.7  
 TOW 2.01 154 P 17 52.22 3.2  
 HVC 2.02 232 P 17 50.86 1.7  
 WOFM 2.09 177 P 17 53.25 2.9  
 LTR 2.11 250 P 17 51.88 1.6  
 ARN 2.16 263 eP 17 52.22 1.0  
 TPNV 2.18 107 ePn 17 51.19 -0.3  
 PHAM 2.19 215 (P) 17 50.62 -0.9  
 BVYM 2.24 248 P 17 53.20 0.9  
 CBO 2.33 258 P 17 55.86 2.3  
 BCH 2.64 203 eP 17 58.11 0.0  
 ABL 2.79 186 eP 17 59.92 -0.5  
 ORV 2.83 313 (P) 18 00.75 0.0  
 GSC 2.85 144 ePn 18 01.14 0.1  
 ARUT 4.29 86 (Pn) 18 23.74 2.2  
 LBFM 4.40 328 (P) 18 23.22 0.1  
 38 obs. associated

& JAN 15, 1994 09h 33m 13.82± 0.53s  
 26.941 S ± 5.8km 26.631 E ± 5.5km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.5 (PRE).

BFS 0.14 73 eP 33 16.60 -0.3  
 PRY 0.75 89 eP 33 28.30 -0.7  
 S 33 35.50  
 KSR 1.10 13 eP 33 34.50 -0.5  
 S 33 47.50  
 SEK 1.63 148 iPd 33 49.70 6.2X  
 S 34 09.50  
 SEK 1.63 148 iPd 33 45.70 2.2X  
 S 34 03.50  
 SLR 1.91 51 iPd 33 47.80 0.4  
 S 34 11.00  
 BLF 2.19 190 iPd 33 52.50 0.9  
 S 34 17.20  
 FRS 3.03 202 iPc 34 03.60 0.3  
 S 34 39.20  
 NWL 3.06 105 eP 34 04.70 0.9  
 S 34 39.00  
 BFT 3.31 69 eP 34 08.00 0.5  
 S 34 46.00  
 PKA 4.37 231 eP 34 22.10 -0.3  
 S 35 13.20  
 GRM 6.35 180 eP 34 49.00 -1.5  
 S 36 00.50  
 POF 6.38 246 eP 35 09.00 18.2X  
 S 36 24.00  
 CIR 7.44 39 iPn 34 47.00 -18.7X  
 eSn 36 06.00  
 iSg 36 43.50  
 CER 9.01 223 eP 35 15.00 -12.6X  
 S 36 54.50  
 WIN 9.69 295 eP 35 37.50 0.3  
 S 37 25.00  
 S.D. = 0.8 on 11 of 16 obs.

& JAN 15, 1994 09h 41m 58.82s  
 62.433 N 151.514 W  
 DEPTH = 97.3km  
 CENTRAL ALASKA ( 1)  
 <AEIC>.

BC3 2.56 35 eP 43 03.73 -1.8  
 BGL 2.56 35 eP 42 21.78 -1.8  
 BKG 2.56 35 eP 42 23.38 -1.8  
 BM3 2.56 35 eP 43 20.97 -1.8  
 BWN 2.56 35 eP 42 30.49 -1.8  
 CCB 2.56 35 eP 42 40.21 -1.8  
 CFI 2.56 35 eP 42 32.86 -1.8  
 CGLM 2.56 35 eP 42 20.38 -1.8  
 CKL 2.56 35 eP 42 22.53 -1.8  
 CKN 2.56 35 eP 42 21.99 -1.8  
 CKT 2.56 35 eP 42 21.52 -1.8  
 CNPM 2.56 35 eP 42 44.57 -1.8  
 CP2 2.56 35 eP 42 21.42 -1.8  
 CRP 2.56 35 eP 42 21.18 -1.8  
 eS 42 38.99  
 CUT 2.56 35 iP 42 14.52 -1.8  
 CVA 2.56 35 eP 42 47.82 -1.8  
 DDM 2.56 35 eP 42 43.53 -1.8  
 DFR 2.56 35 eP 42 30.76 -1.8  
 DHY 2.56 35 eP 42 30.98 -1.8  
 FID 2.56 35 eP 42 42.22 -1.8  
 eS 43 17.24  
 GHO 2.56 35 eP 42 23.77 -1.8  
 eS 42 42.53  
 GLB 2.56 35 eP 42 53.87 -1.8  
 GLM 2.56 35 eP 42 45.41 -1.8  
 HDA 2.56 35 eP 42 41.12 -1.8  
 HIN 2.56 35 eP 42 45.68 -1.8  
 HMT 2.56 35 eP 42 59.29 -1.8  
 HUR 2.56 35 eP 42 18.62 -1.8  
 eS 42 33.78  
 IL1 2.56 35 eP 42 44.66 -1.8  
 ILB 2.56 35 eP 42 44.70 -1.8  
 ILIM 2.56 35 eP 42 36.75 -1.8  
 IM3 2.56 35 eP 42 52.25 -1.8  
 KLU 2.56 35 eP 42 40.26 -1.8  
 KOK 2.56 35 eP 42 28.08 -1.8  
 KTH 2.56 35 eP 42 19.37 -1.8  
 MCK 2.56 35 eP 42 27.57 -1.8  
 MDM 2.56 35 eP 42 42.25 -1.8  
 MLY 2.56 35 eP 42 37.95 -1.8  
 MPA 2.56 35 eP 42 33.49 -1.8  
 MTU 2.56 35 eP 42 42.12 -1.8  
 NCG 2.56 35 eP 42 19.37 -1.8  
 NCT 2.56 35 eP 42 30.86 -1.8  
 NEA 2.56 35 eP 42 35.61 -1.8  
 NKA 2.56 35 eP 42 29.34 -1.8

PAX 2.56 35 eP 42 42.04 -1.8  
 PLRM 2.56 35 eP 42 23.48 -1.8  
 PRP 2.56 35 eP 42 58.92 -1.8  
 PWA 2.56 35 P 42 20.00 -1.8  
 PWL 2.56 35 eP 42 32.85 -1.8  
 RAGM 2.56 35 eP 42 57.20 -1.8  
 RDW 2.56 35 eP 42 32.28 -1.8  
 RED 2.56 35 eP 42 33.13 -1.8  
 REF 2.56 35 eP 42 32.14 -1.8  
 RND 2.56 35 eP 42 24.86 -1.8  
 RS2 2.56 35 eP 42 32.26 -1.8  
 SEW 2.56 35 eP 42 41.39 -1.8  
 SKT 2.56 35 iP 42 13.46 -1.8  
 eS 42 25.04  
 SLKM 2.56 35 eP 42 32.03 -1.8  
 SML 2.56 35 eP 42 26.07 -1.8  
 SPU 2.56 35 eP 42 21.72 -1.8  
 SUA 2.56 35 eP 42 19.34 -1.8  
 SVW 2.56 35 P 42 35.00 -1.8  
 TOA 2.56 35 P 42 37.70 -1.8  
 TRF 2.56 35 eP 42 19.99 -1.8  
 eS 42 36.86  
 TTA 2.56 35 P 42 31.30 -1.8  
 TZL 2.56 35 eP 42 42.93 -1.8  
 VZW 2.56 35 eP 42 40.19 -1.8  
 WRH 2.56 35 eP 42 37.47 -1.8  
 BALM 4.58 104 eP 43 04.41 -2.7  
 68 obs. associated

% JAN 15, 1994 09h 45m 49.80± 0.74s  
 40.576 N ± 6.9km 23.095 E ± 6.9km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 1.4 (THE).

THE 0.11 300 iPg 45 52.30 -0.4  
 eSg 45 53.22  
 SOH 0.31 39 ePg 45 57.66 1.3  
 KNT 0.60 346 iPg 46 01.53 -0.5  
 eSg 46 09.30  
 GRG 0.65 306 ePg 46 02.14 -0.7  
 LIT 0.66 224 ePg 46 04.50 1.5  
 eSg 46 13.98  
 OUR 0.72 109 ePg 46 03.74 -0.2  
 PAIG 0.79 145 ePg 46 04.02 -1.1  
 S.D. = 1.2 on 7 of 7 obs.

% JAN 15, 1994 09h 49m 52.66± 0.94s  
 39.586 N ± 7.6km 29.487 E ± 9.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.66 272 ePg 50 05.70 -0.2  
 eSg 50 17.20  
 ALT 0.72 137 ePg 50 07.00 0.1  
 IZI 0.75 359 iPg 50 06.90 -0.5  
 eSg 50 18.00  
 YLV 0.98 355 ePg 50 12.40 1.0  
 eSg 50 26.00  
 EYL 1.11 28 ePn 50 13.00 -0.5  
 S.D. = 0.9 on 5 of 5 obs.

% JAN 15, 1994 09h 54m 45.26± 0.65s  
 28.003 S ± 5.8km 26.791 E ± 7.7km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.6 (PRE).

SEK 0.80 114 eP 55 02.00 0.6  
 S 55 12.50  
 BFS 1.10 360 eP 55 06.60 0.1  
 S 55 19.70  
 BLF 1.22 206 eP 55 09.00 0.4  
 S 55 29.60  
 KSR 2.13 3 eP 55 23.00 0.8  
 S 55 50.50  
 FRS 2.17 216 eP 55 21.70 -0.7  
 S 55 45.00  
 SLR 2.62 31 eP 55 29.00 -0.1  
 S 55 59.50  
 NWL 2.81 85 eP 55 32.00 0.1  
 S 56 05.00  
 BFT 3.71 52 eP 55 43.50 -1.2  
 S 56 28.50  
 S.D. = 0.8 on 8 of 8 obs.



15d 10h

% JAN 15, 1994 10h 48m 23.91± 0.96s  
39.673 N ± 7.6km 29.511 E ± 9.7km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

IZI	0.66	358	ePg	48	35.80	-1.4
			eSg	48	45.80	
DST	0.68	265	ePg	48	37.70	0.2
			eSg	48	48.00	
ALT	0.77	143	ePg	48	38.90	-0.2
YLV	0.90	353	ePg	48	41.90	0.7
EYL	1.02	29	ePn	48	43.90	0.6
S.D. = 1.2 on 5 of 5 obs.						

% JAN 15, 1994 11h 11m 41.38± 0.95s  
39.578 N ± 8.2km 29.547 E ± 9.3km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.6 (ISK).

ALT	0.68	140	ePg	11	55.00	0.1
DST	0.71	273	ePg	11	55.00	-0.4
			eSg	12	05.60	
IZI	0.76	356	iPg	11	55.50	-0.8
			iSg	12	05.80	
EYL	1.09	25	ePn	12	01.90	-0.1
CTT	1.79	332	ePn	12	13.70	1.2
S.D. = 1.1 on 5 of 5 obs.						

? JAN 15, 1994 12h 03m 56.20± 2.08s  
51.262 N ± 20.1km 15.298 E ± 10.3km  
DEPTH = 10.0km (geophysicist)  
POLAND (548)  
ML 3.4 (VIE).

BRG	0.94	246	iPn	04	15.80	1.7
			iPg	04	17.20	
			iSg	04	37.40	
PRU	1.36	201	ePn	04	19.80	-1.4
	0.7s	62.90nm				
			Pg	04	21.80	
			Sn	04	38.80	
			Sg	04	45.30	
CLL	1.44	273	ePn	04	22.00	-0.3
			iPg	04	26.10	
			iSg	04	52.00	
KHC	2.40	208	Pn	04	35.90	-0.3
			ePg	04	41.60	
			eSn	05	09.00	
			eSg	05	21.00	
MOX	2.41	257	ePg	04	44.70	8.4X
			iSg	05	24.60	
WET	2.63	217	iPnc	04	38.90	-0.5
VKA	3.07	167	iPg	04	49.10	3.4X
			iSg	05	33.80	
ZST	3.28	158	eP	04	51.00	2.3
SPC	3.79	121	e(Pn)	04	55.40	-0.7
			e	05	35.80	
KBA	4.38	198	i(Pn)	05	10.80	6.4X
	0.5s	7.80nm				
			iSg	06	22.40	
WTTA	4.66	212	iPnc	05	07.80	-0.7
	0.8s	8.30nm				
			i	06	20.60	
S.D. = 1.5 on 8 of 11 obs.						

% JAN 15, 1994 12h 09m 57.67± 1.02s  
26.900 S ± 8.0km 26.630 E ± 11.5km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.3 (PRE).

BFS	0.14	89	eP	10	01.00	0.4
			S	10	01.50	
KSR	1.06	13	eP	10	19.00	0.8
			S	10	31.30	
SEK	1.67	148	eP	10	29.00	1.1
			S	10	50.50	
SLR	1.88	52	eP	10	30.90	0.0
			S	10	54.00	
BLF	2.24	190	eP	10	36.00	0.0
			S	11	02.00	
FRS	3.06	202	eP	10	47.00	-0.6
BFT	3.29	69	eP	10	49.50	-1.7
S.D. = 1.1 on 7 of 7 obs.						

\* JAN 15, 1994 12h 23m 35.76± 1.53s  
26.725 N ± 8.4km 140.375 E ± 8.4km  
DEPTH = 503.7 ± 19.0 km  
4.4mb ( 9 obs.)

BONIN ISLANDS REGION (212)

MAT	9.96	350	eP	25	54.00	0.1
	0.5s	4.23nm				4.1mb
			eS	27	45.00	
CHTO	38.87	267	eP	30	18.60	0.2
BDT	39.36	265	eP	30	22.60	0.2
WB2	46.76	188	iPc	31	20.50	0.0
	0.2s	40.60nm				5.6mb X
WRA	46.76	188	P	31	20.80	0.3
	0.7s	5.40nm				4.2mb
GUN	48.09	285	P	31	31.70	0.5
	0.5s	18.00nm				4.8mb
PKI	48.57	284	P	31	34.60	-0.2
	0.6s	12.00nm				4.5mb
KKN	48.63	285	P	31	35.50	0.4
	0.5s	9.00nm				4.5mb
DMN	48.82	284	P	31	36.60	0.0
	0.6s	11.00nm				4.5mb
GKN	49.15	285	P	31	38.60	-0.3
ASPA	50.48	188	eP	31	48.00	-0.5
	0.3s	13.10nm				4.8mb
KLU	59.15	32	ePc	32	48.16	-0.9
GBA	59.99	271	Pd	32	54.50	-0.7
	0.5s	3.00nm				4.0mb
YKA	73.23	28	eP	34	15.00	-1.0
	0.7s	2.90nm				3.9mb
NEW	78.27	42	ePc	34	44.40	0.3
LRM	82.24	42	eP	35	05.90	1.0
GSC	84.55	53	ePd	35	17.18	0.7
S.D. = 0.6 on 17 of 17 obs.						

% JAN 15, 1994 12h 44m 22.84± 1.27s  
11.020 N ± 7.0km 61.758 W ± 16.2km  
DEPTH = 10.0km (geophysicist)

WINDWARD ISLANDS ( 95)  
MD 2.5 (TRN).

TCE	0.32	179	iPc	44	29.96	0.5
			eS	44	35.72	
TRN	0.51	137	iPd	44	33.03	-0.1
			eS	44	40.70	
TPP	0.76	157	iP	44	36.85	-0.8
			eS	44	49.09	
TBH	0.86	128	iPc	44	39.99	0.5
			eS	44	54.12	
GRW	1.14	5	iP	44	44.16	0.0
			iS	45	01.23	
S.D. = 0.8 on 5 of 5 obs.						

? JAN 15, 1994 12h 56m 33.32± 1.97s  
51.345 N ± 17.9km 15.761 E ± 10.0km  
DEPTH = 10.0km (geophysicist)  
POLAND (548)

ML 3.4 (VIE), 2.7 (CLL).

BRG	1.24	248	iPg	56	57.60	1.3
			iSg	57	18.00	
PRU	1.56	210	Pg	57	02.40	1.2
	0.6s	54.50nm				
			Sn	57	20.20	
			Sg	57	25.40	
CLL	1.73	270	iPn	57	02.80	-0.8
			iPg	57	06.50	
			iSg	57	32.00	
OKC	2.14	134	Pg	57	09.90	0.3
			Sg	57	35.40	
KHC	2.62	213	Pn	57	16.00	-0.5
			Pg	57	22.20	
			e	57	24.00	
			eSn	57	50.50	
			eSg	58	00.00	
HOF	2.67	249	eP	57	17.50	0.3
MOX	2.71	257	iPg	57	26.00	8.3X
			iSg	58	05.30	
GEC2	2.83	209	e(Pn)	57	18.70	-0.8
	0.4s	2.00nm				
WET	2.88	221	iPnc	57	19.50	-0.6
SPC	3.60	125	e(Pn)	57	36.10	5.7X
			e	58	17.30	
KBA	4.55	201	iPnc	57	51.40	7.4X
	0.6s	8.90nm				
			i	58	54.30	

WTTA 4.90 215 i 59 01.60  
37.625 N iPnc 57 48.30 -0.6  
DEPTH = 10.2km i 59 13.00  
S.D. = 1.0 on 9 of 12 obs.

& JAN 15, 1994 13h 39m 21.48s  
37.636 N 118.842 W  
DEPTH = 10.2km  
CALIFORNIA-NEVADA BORDER REGION ( 40)  
<GM-P>. MD 2.7 (GM).

MEMM	0.08	291	iPc	39	24.13	0.1
MMPM	0.15	260	eP	39	24.96	-0.3
MRCM	0.27	82	eP	39	27.03	-0.2
MTUM	0.36	142	eP	39	28.52	-0.4
BONR	0.53	53	eP	39	31.78	-0.6
CMB	1.28	289	eP	39	44.96	-0.4
TNP	1.36	70	eP	39	46.77	0.1
KVN	1.53	22	eP	39	49.85	0.9
ARN	2.16	263	eP	39	58.93	0.9
TPNV	2.18	108	eP	39	58.85	0.4
PHAM	2.19	215	(P)	40	00.19	1.8
BCH	2.64	203	eP	40	04.32	-0.7
12 obs. associated						

& JAN 15, 1994 13h 47m 06.38s  
62.625 N 151.297 W  
DEPTH = 97.9km  
CENTRAL ALASKA ( 1)  
<AEIC>.

CUT	0.53	114	iP	47	22.17	-0.2
			eS	47	33.92	
SKT	0.66	190	iP	47	23.28	-0.2
			eS	47	35.46	
HUR	0.84	64	eP	47	24.95	-0.3
			eS	47	38.43	
KTH	0.95	10	iP	47	26.07	-0.4
			eS	47	39.94	
TRF	0.95	29	eP	47	26.17	-0.4
			eS	47	41.51	
PWA	1.18	145	P	47	29.10	0.1
SUA	1.19	167	eP	47	29.09	-0.2
			eS	47	47.15	
NCG	1.29	199	eP	47	30.06	-0.4
RND	1.36	54	eP	47	30.97	-0.3
CGLM	1.36	195	eP	47	30.85	-0.5
GHO	1.40	127	eP	47	32.13	0.3
			eS	47	52.10	
CRP	1.42	197	eP	47	31.33	-0.8
CP2	1.44	199	iPd	47	31.94	-0.4
PLRM	1.45	135	eP	47	32.16	-0.1
PMR	1.45	135	eP	47	31.69	-0.6
BGL	1.46	201	eP	47	32.87	0.3
CKN	1.47	197	eP	47	32.68	0.1
SPU	1.49	194	eP	47	32.45	-0.4
CKT	1.49	197	eP	47	32.68	-0.2
CKL	1.52	199	eP	47	33.03	-0.2
MCK	1.54	43	eP	47	33.58	0.1
			eS	47	53.69	
SML	1.61	119	eP	47	34.22	-0.2
BKG	1.63	197	eP	47	34.34	-0.3
BWN	1.76	27	eP	47	36.83	0.6
KNK						



GLI 2.66 129 eP 47 48.81 0.6  
 ILM 2.68 198 eP 47 48.76 0.2  
 SEW 2.68 160 eP 47 48.49 0.0  
 PAX 2.70 80 eP 47 49.25 0.4  
 MDM 2.71 29 eP 47 48.18 -0.8  
 DDM 2.72 62 eP 47 49.67 0.5  
 VZW 2.74 123 eP 47 48.93 -0.5  
 FBA 2.76 33 iPd 47 48.62 -1.0  
 KLU 2.77 112 eP 47 48.45 -1.4  
 VLZ 2.79 120 eP 47 48.24 -1.7  
 TZL 2.80 99 eP 47 50.06 -0.1  
 GLM 2.94 34 eP 47 51.37 -0.7  
 FID 2.97 127 eP 47 50.88 -1.5  
 HOM 2.98 183 P 47 54.50 1.9  
 CNPM 3.11 179 eP 47 54.86 0.5  
 PDB 3.17 207 eP 47 55.32 0.1  
 MTU 3.18 145 eP 47 54.96 -0.3  
 HIN 3.21 132 eP 47 54.47 -1.2  
 AUL 3.42 199 P 48 01.20 2.7  
 AUE 3.43 198 P 48 00.80 2.1  
 IM3 3.54 344 eP 47 59.65 -0.6  
 IMA 3.61 344 iPd 48 00.42 -0.9  
 GLB 3.72 105 eP 48 01.34 -1.5  
 TMW 3.85 76 eP 48 04.30 -0.3  
 CDD 3.88 198 eP 48 05.60 0.6  
 SYI 4.06 188 eP 48 06.78 -0.7  
 HMT 4.08 121 eP 48 07.09 -0.6  
 BC3 4.38 80 eP 48 10.45 -1.4  
 TGL 4.45 111 eP 48 10.84 -2.0  
 BALM 4.53 107 eP 48 11.88 -2.1  
 CTGM 5.01 105 eP 48 18.99 -1.7  
 EM3 5.58 28 eP 48 26.80 -1.7

78 obs. associated

? JAN 15, 1994 14h 34m 23.19± 6.24s  
 59.539 N ±24.8km 3.065 E ±45.4km  
 DEPTH = 5.0km (geophysicist)  
 NORTH SEA (534)  
 MD 2.1 (BER).

KMY 1.16 105 eP 34 45.42 0.0  
 EGD 1.31 55 eP 34 48.08 0.2  
 ASK 1.43 48 eP 34 49.32 -0.5  
 SUE 1.74 28 eP 34 54.42 0.2  
 S.D. = 0.5 on 4 of 4 obs.

\* JAN 15, 1994 16h 55m 41.51± 0.98s  
 36.659 N ± 8.5km 71.145 E ± 8.0km  
 DEPTH = 209.5 ± 12.6 km  
 4.3mb ( 10 obs.)  
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)

KSH 4.73 52 iPd 56 55.00 1.6  
 QUE 7.34 210 eP 57 28.60 1.3  
 MAIO 9.39 271 ePn 57 52.00 -1.7  
 0.9s 6.39nm 3.9mb  
 eSn 59 30.00  
 NDI 9.45 146 ePc 57 54.00 -0.4  
 0.5s 56.34nm 5.1mb  
 eS 59 32.00  
 GKN 14.29 123 P 58 54.60 -1.3  
 WMQ 14.51 55 P 58 58.00 -0.5  
 0.8s 7.70nm 4.2mb  
 pP 59 01.20  
 S 01 41.00  
 DMN 14.86 123 P 59 02.60 -0.5  
 KKN 14.86 122 P 59 02.00 -1.0  
 PKI 15.09 123 P 59 05.20 -0.8  
 GUN 15.20 121 P 59 06.60 -0.7  
 LSA 18.11 107 P 59 42.90 2.1  
 0.7s 7.00nm 4.2mb  
 HYB 20.26 159 eP 00 05.00 2.7  
 GBA 23.64 165 P 00 36.00 0.9  
 KAF 37.56 327 eP 02 37.00 0.3  
 NUR 37.77 324 eP 02 39.00 0.5  
 0.3s 5.60nm 4.7mb  
 HFS 43.01 322 eP 03 21.00 -0.5  
 0.4s 5.40nm 4.4mb  
 NB2 44.32 323 P 03 31.30 -0.7  
 0.8s 1.60nm 3.5mb  
 MBC 67.17 3 eP 06 15.50 1.3  
 YKA 81.08 3 eP 07 33.90 0.0  
 0.4s 2.10nm 4.2mb

WRA 81.98 122 P 07 38.20 -1.0  
 0.5s 1.30nm 3.9mb  
 WB2 81.98 122 eP 07 37.60 -1.7  
 0.4s 4.60nm 4.6mb  
 S.D. = 1.4 on 21 of 21 obs.  
 JAN 15, 1994 17h 03m 31.00± 0.20s  
 20.849 S ± 6.5km 173.926 W ± 3.6km  
 DEPTH = 36.2km ( 10 depth phases)  
 5.5mb ( 69 obs.) 5.6Msz ( 45 obs.)  
 TONGA ISLANDS (173)  
 Mw 5.7 (HRV). Ms 5.7 (BRK).  
 Mo=9.1\*10\*\*17 Nm (PPT).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 43S, 80C  
 Centroid Location:  
 Origin Time 17:03:33.8 0.2  
 Lat 20.93S 0.03 Lon 173.36W 0.02  
 Dep 38.0 FIX Half-duration 1.7  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 2.66 0.05 Mtt= 0.26 0.10  
 Mff=-2.93 0.08 Mrt= 0.92 0.10  
 Mrf= 1.63 0.12 Mtf=-0.61 0.05  
 Principal Axes:  
 T Val= 3.28 Plg=71 Azm=317  
 N 0.27 10 196  
 P -3.55 16 103  
 Best Double Couple: Mo=3.4\*10\*\*17  
 NP1: Strike=178 Dip=30 Slip= 69  
 NP2: 22 62 102

AFI 7.20 17 eP 05 08.00 -8.7X  
 SVA 7.68 289 ePc 05 21.40 -1.9  
 VUN 7.72 290 iPd 05 20.60 -3.3X  
 MBU 7.95 298 ePc 05 29.80 2.6  
 RAR 13.22 94 P 06 30.00 -8.9X  
 S 09 20.00  
 PVC 17.05 277 iPd 07 31.00 2.7  
 BKM 17.13 278 iPd 07 32.00 2.6  
 DZM 18.31 263 iPd 07 45.10 1.0  
 AFR 23.04 86 iPd 08 33.70 -0.4  
 1.3s 956.00nm 6.1mb  
 PAE 23.20 86 iPd 08 35.10 -0.5  
 1.5s 823.20nm 6.0mb  
 PPT 23.22 86 iPd 08 35.50 -0.4  
 1.6s 1144.30nm 6.1mb  
 Z 28s \*\*\*\*\*um 8.3MszX  
 PPN 23.36 86 iPd 08 36.90 -0.3  
 1.7s 944.00nm 6.0mb  
 TVO 23.48 87 iPd 08 38.20 -0.3  
 1.3s 495.30nm 5.9mb  
 PMO 25.42 81 iPd 08 55.20 -1.9  
 1.2s 282.10nm 5.7mb  
 VAH 25.60 82 iPd 08 56.40 -2.3  
 1.2s 144.60nm 5.4mb  
 TPT 25.68 81 iPd 08 57.40 -2.1  
 1.4s 486.20nm 5.9mb  
 RUV 25.84 82 iPd 08 58.70 -2.3  
 1.4s 432.20nm 5.8mb  
 ARMA 32.38 246 iPd 09 59.60 -0.1  
 0.9s 31.00nm 5.2mb  
 CNB 35.23 238 iPd 10 24.40 0.2  
 1.1s 112.00nm 5.7mb  
 CAN 35.52 238 iPd 10 26.50 -0.2  
 i 10 36.60 34km  
 i 11 11.90  
 BWA 35.78 240 iPd 10 26.40 -2.5  
 i 10 38.40 44km  
 i 11 15.40  
 CTA 37.25 264 P 10 40.90 -0.4  
 1.4s 65.20nm 5.3mb  
 CTAO 37.25 264 eP 10 39.74 -1.6  
 0.6s 18.33nm 5.1mb  
 TOO 38.81 236 iPd 10 54.30 0.0  
 0.8s 84.00nm 5.6mb  
 PMG 39.15 281 eP 10 55.00 -2.2  
 1.1s 81.01nm 5.4mb  
 LAT 40.35 285 eP 11 06.50 -0.7  
 STK 41.09 245 eP 11 12.60 -0.5  
 1.0s 18.00nm 4.8mb  
 ADE 43.77 241 eP 11 35.20 0.2  
 MHA 44.43 25 eP 11 38.74 -1.6  
 ASPA 48.15 256 P 12 08.89 -1.0  
 WB2 48.31 261 eP 12 08.30 -2.9  
 1.2s 18.60nm 5.0mb  
 iPP 13 38.40

WRA 48.33 261 P 12 08.89 -2.4  
 1.0s 15.30nm 5.0mb  
 FORT 52.66 247 eP 12 43.00 -1.1  
 0.6s 18.00nm 5.2mb  
 GUA 52.95 307 eP 12 44.30 -2.1  
 1.1s 425.32nm 6.3mb  
 MTN 52.98 269 eP 12 44.50 -2.2  
 0.8s 116.00nm 5.9mb  
 GUMO 53.01 307 eP 12 44.80 -2.0  
 1.2s 343.50nm 6.2mb  
 eS 20 22.10  
 PJG 53.01 307 eP 12 45.20 -1.7  
 WARB 54.36 252 eP 12 55.00 -1.7  
 1.0s 45.00nm 5.5mb  
 KNA 54.41 265 eP 12 55.50 -1.7  
 COOL 58.57 246 eP 13 24.50 -2.3  
 KLB 61.35 245 eP 13 45.20 -0.7  
 MBL 61.40 257 eP 13 44.00 -2.3  
 MEEK 61.40 250 eP 13 44.50 -1.8  
 NWA0 61.62 243 eP 13 48.00 0.4  
 MUN 62.61 244 iPd 13 54.50 0.3  
 1.0s 70.00nm 5.7mb  
 MRWA 63.23 247 eP 13 58.30 -0.1  
 CSY 65.29 206 eP 14 11.60 0.5  
 0.8s 37.80nm 5.5mb  
 i 14 21.10 30km  
 DAV 65.56 288 ePc 14 11.30 -2.3  
 KAKJ 71.44 322 P 14 49.10 -0.6  
 CHJJ 72.01 321 P 14 52.30 -0.9  
 IIDJ 72.26 320 P 14 54.20 -0.5  
 ADK 72.46 358 eP 14 53.37 -2.1  
 1.2s 78.60nm 5.6mb  
 OFUJ 72.67 325 eP 14 55.80 -1.2  
 MAT 72.81 321 iPd 14 56.80 -1.1  
 1.1s 40.51nm 5.3mb  
 Z 20s 1.06um 5.1Msz  
 eS 24 26.00  
 NIIJ 72.83 322 eP 14 58.20 0.2  
 WKYJ 72.83 318 P 14 57.80 -0.4  
 YAMJ 72.90 324 eP 14 58.30 -0.1  
 MTMJ 73.07 321 P 14 58.80 -0.8  
 TSRJ 73.46 319 eP 14 57.00 -4.7X  
 TKSJ 73.66 317 P 15 02.60 -0.3  
 SMY 74.00 352 P 15 10.00 5.6X  
 Z 20s 4.17um 5.7MszX  
 KAGJ 74.02 313 P 15 04.60 -0.4  
 KUSJ 74.14 330 eP 15 04.80 -0.6  
 BAG 74.16 295 eP+ 15 05.00 -1.3  
 YONJ 74.80 318 P 15 09.90 0.4  
 KUMJ 74.87 314 P 15 09.20 -0.8  
 BCH 75.58 43 eP 15 14.10 0.0  
 SHNJ 75.65 315 eP 15 14.30 -0.1  
 STAN 75.69 40 ePc 15 23.85 9.3X  
 Z 17s 3.50um 5.7MszX  
 eLR 37 55.85  
 SAO 75.73 41 eP 15 13.66 -1.1  
 1.2s 34.28nm 5.2mb  
 Z 19s 4.17um 5.8Msz  
 e 15 26.46 44km  
 SAO 75.73 41 eP 15 17.00 2.2  
 Z 17s 5.00um 5.9MszX  
 eS 25 02.00  
 eSKS 25 05.00  
 ePS 25 52.00  
 eSS 29 52.00  
 eSSS 33 16.00  
 eLQ 34 47.00  
 eLR 37 18.00  
 PRI 75.81 42 iPd 15 16.32 0.9  
 ASAJ 75.89 329 eP 15 16.40 0.9  
 COE 75.90 41 eP 15 14.88 -0.9  
 ABL 75.93 44 eP 15 15.85 -0.4  
 BKS 75.97 40 eP 15 16.51 0.4  
 1.4s 90.00nm 5.6mb  
 Z 17s 4.10um 5.8MszX  
 e 24 50.37  
 eS 25 07.37  
 eSKS 25 14.37  
 ePS 25 48.37  
 eSS 29 53.37  
 eSSS 32 52.37  
 iLQ 34 55.37  
 eLR 38 23.37  
 MHC 75.98 41 eP 15 17.04 0.7  
 1.4s 80.00nm 5.5mb  
 Z 17s 5.00um 5.9MszX  
 eS 25 07.19



IPM		87.00	276	ePc	16	15.60	1.2
		1.1s	106.90nm				6.0mb
SYO		87.21	191	ePd	16	14.80	0.3
GOL		87.78	46	P	16	30.00	12.0X
	Z	19s	1.00um				5.2MsZ
FBA		87.81	11	eP	16	16.28	-1.0
		1.1s	56.09nm				5.8mb
GLD		87.91	46	eP	16	19.54	1.0
		1.3s	20.91nm				5.3mb
	Z	20s	2.72um				5.7MsZ
IMA		88.00	8	eP	16	17.57	-0.7
		1.4s	42.44nm				5.5mb
SNG		88.30	278	eP	16	23.00	2.3
NVL		88.54	182	(P)	16	19.00	-1.8
	Z	18s	1.50um				5.5MsZ
	N	18s	1.00um				
	E	18s	0.50um				
			ePP	20	08.00		
			ePP	21	14.00		
			ePPP	22	18.00		
			eSKS	26	46.00		
			eS	27	13.00		
			ePS	28	32.00		
			e	33	43.00		
			e	36	44.00		
BJI		88.85	314	eP	16	23.50	0.8
		2.0s	64.00nm				5.6mb
	Z	20s	1.21um				5.3MsZ
	N	18s	0.78um				
			ePP	16	35.00		37km
			eSKS	26	52.00		
GYA		90.15	298	iPc	16	31.40	2.1
		1.0s	22.00nm				5.4mb
	Z	24s	1.07um				5.2MsZ
			pP	16	42.00		33km
			SKS	27	02.00		
WMOK		90.18	53	P	16	40.00	10.8X
	Z	20s	1.54um				5.4MsZ
MEO		90.35	53	iPd	16	30.30	0.4
TIY		90.38	310	Pc	16	31.00	1.0
	Z	18s	1.82um				5.6MsZ
	E	21s	1.68um				
			SS	33	20.00		
ACO		90.76	51	iPc	16	32.50	0.7
RSSD		90.79	43	eP	16	31.78	-0.2
		1.4s	41.14nm				5.6mb
LOE		90.98	288	eP	16	35.00	1.9
XAN		91.40	306	P	16	35.50	0.7
		1.0s	27.00nm				5.6mb
	Z	24s	0.97um				5.2MsZ
			pP	16	44.50		28km
			sP	16	50.00		
			SKS	27	08.00		
NST		91.79	286	eP	16	38.50	1.7
HHC		92.35	313	eP	16	40.00	0.9
		1.2s	23.00nm				5.5mb
	Z	24s	1.35um				5.3MsZ
	N	16s	0.58um				
			sP	16	52.00		
			SKS	27	13.00		
TUL		92.89	53	iPd	16	43.80	2.2
KMI		92.92	296	Pc	16	44.00	1.8
		1.0s	20.00nm				5.5mb
	Z	20s	2.90um				5.7MsZ
	N	20s	1.90um				
	E	20s	2.90um				
			pP	16	54.00		31km
			SKS	27	18.00		
UYO		93.21	55	iPc	16	51.00	7.9X
BTO		93.31	312	eP	16	44.50	1.0
	N	16s	0.90um				
	E	16s	0.49um				
BDT		93.36	287	eP	16	45.00	1.0
		1.0s	52.40nm				5.9mb
INK		93.65	14	eP	16	44.50	0.2
		1.0s</					



[illegible]



15d 17h

WRA 48.17 258 P 44 29.00 -0.5  
1.2s 1.70nm 3.8mb  
WARB 54.84 250 eP 45 18.00 -1.6  
MBL 61.54 255 eP 46 04.90 -1.4  
PV09 82.49 46 ePc 48 09.54 -0.9  
PV10 82.50 46 eP 48 09.18 -1.2  
pP 48 14.30 16kmX  
PV08 82.86 46 eP 48 11.29 -1.1  
FBA 84.05 11 eP 48 16.71 -0.7  
1.0s 5.38nm 4.4mb  
CLL 145.03 351 iPKPc 55 23.90 -0.2  
1.3s 21.00nm  
BRG 145.31 350 ePKP 55 25.50 0.9  
1.2s 21.00nm  
MOX 145.86 353 ePKP 55 26.60 1.0  
1.8s 32.00nm  
PRU 146.06 349 ePKP 55 27.00 1.1  
KHC 147.06 350 ePKP 55 30.00 2.4  
1.0s 5.40nm  
GEC2 147.31 350 PKP 55 30.20 2.1  
0.6s 1.20nm  
e 55 33.10  
e 55 34.60  
S.D. = 1.6 on 17 of 17 obs.  
% JAN 15, 1994 18h 10m 48.52± 0.84s  
26.780 S ± 8.4km 26.934 E ± 7.8km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 3.0 (PRE).  
BFS 0.18 228 eP 10 52.10 -0.1  
S 10 53.50  
PRY 0.50 107 eP 10 59.00 0.4  
S 11 05.20  
KSR 0.91 358 eP 11 03.90 -2.7  
S 11 16.50  
SLR 1.60 50 iPd 11 18.70 1.1  
S 11 38.20  
SEK 1.66 158 eP 11 18.50 0.0  
S 11 41.00  
BLF 2.41 196 iPd 11 27.90 -1.5  
S 11 52.50  
NWL 2.85 110 eP 11 35.70 0.1  
S 12 09.00  
BFT 3.00 69 eP 11 38.00 0.2  
S 12 15.00  
SUR 7.72 222 eP 12 55.00 10.6X  
S 14 21.50  
CER 9.32 223 eP 13 01.00 -5.5X  
S 15 40.00  
WIN 9.88 293 eP 13 17.00 2.6  
S 15 06.00  
S.D. = 1.7 on 9 of 11 obs.  
% JAN 15, 1994 18h 41m 21.15± 0.49s  
42.751 N ± 4.5km 19.281 E ± 3.9km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)  
ML 1.9 (TTG).  
NKY 0.22 287 iPgC 41 26.49 0.6  
iSg 41 30.41  
TTG 0.32 183 iPgC 41 28.00 0.2  
iSg 41 33.28  
IVA 0.47 75 iPgC 41 30.59 -0.1  
iSg 41 37.61  
PVY 0.53 107 iPgD 41 32.11 0.1  
iSg 41 40.19  
BRY 0.56 286 iPgD 41 32.05 -0.6  
iSg 41 40.82  
BDV 0.57 216 iPgD 41 32.76 0.0  
iSg 41 42.26  
PLE 0.58 8 iPgC 41 33.15 0.1  
iSg 41 41.20  
HCY 0.65 243 iPgC 41 34.20 0.0  
iSg 41 44.69  
ULC 0.79 182 iPgC 41 36.29 -0.2  
iSg 41 48.79  
S.D. = 0.4 on 9 of 9 obs.  
% JAN 15, 1994 19h 34m 01.17s  
34.319 N 116.643 W  
DEPTH = 0.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 2.8 (GS).

PEC 0.60 225 ePc 34 12.74 -0.5  
SSK 0.88 263 ePc 34 17.70 -1.0  
PLM 0.98 191 ePd 34 19.70 -1.1  
eS 34 32.71  
GSC 0.99 352 ePd 34 19.84 -1.1  
GLA 1.97 129 eP 34 35.09 -1.2  
ABL 2.19 285 eP 34 37.85 -1.8  
TFNV 2.64 7 ePn 34 44.64 -1.3  
BCH 2.96 288 ePn 34 51.22 0.7  
BONR 3.87 340 (Pn) 35 01.86 -1.7  
ARUT 4.33 36 (Pn) 35 12.92 3.0  
10 obs. associated  
\* JAN 15, 1994 20h 05m 18.97± 0.53s  
5.567 S ± 6.8km 130.695 E ± 9.5km  
DEPTH = 33.0km (normal)  
5.0mb ( 8 obs.)  
BANDA SEA (280)  
MTN 7.25 177 eP 07 08.00 2.7  
0.2s 572.00nm 7.2mb X  
KNA 10.29 190 iPc 07 49.10 1.6  
0.3s 102.00nm 6.6mb X  
eS 09 35.00  
WB2 14.73 166 iPd 08 42.90 -3.9X  
0.4s 48.90nm 5.3mb  
iS 11 16.90  
PMG 16.76 104 eP 09 15.00 2.0  
QIS 17.23 151 eP 09 17.50 -1.4  
e 09 19.70  
eS 12 14.30  
ASPA 18.26 171 eP 09 30.40 -1.2  
eS 12 37.20  
MBL 18.74 213 iPc 09 38.20 0.7  
0.4s 21.00nm 4.7mb  
WARB 20.86 190 eP 10 01.50 0.7  
eS 13 42.40  
MEEK 23.92 208 iPc 10 31.20 0.3  
0.4s 8.00nm 4.6mb  
FORT 25.20 185 eP 10 42.50 -0.7  
0.5s 4.00nm 4.3mb  
MRWA 27.32 209 eP 11 02.30 -0.6  
eS 16 13.00  
BAL 28.17 206 eP 11 10.00 -0.5  
KLB 28.59 204 iPc 11 13.30 -1.0  
0.4s 15.00nm 5.0mb  
MUN 29.57 206 eP 11 22.10 -1.0  
NWA0 29.97 203 eP 11 27.00 0.3  
ARMA 31.61 144 iPc 11 40.70 -0.6  
BWA 33.07 153 iPd 11 53.80 -0.1  
CAN 34.08 153 iPd 12 01.50 -1.1  
BDT 38.65 307 eP 12 42.00 0.6  
CHTO 39.57 309 eP 12 50.90 1.8  
e 20 26.00  
GUN 54.55 310 Pc 14 47.40 0.5  
PKI 54.74 309 Pc 14 48.20 -0.1  
0.6s 14.00nm 5.2mb  
KKN 54.95 310 Pc 14 49.80 0.1  
0.7s 26.00nm 5.4mb  
DMN 54.99 309 Pc 14 50.20 0.2  
0.6s 23.00nm 5.4mb  
GKN 55.55 309 Pc 14 54.00 0.1  
GBA 56.19 290 P 14 58.00 -0.5  
HYB 56.32 295 eP 14 58.60 -0.9  
GEC2 111.76 321 PKP 23 50.30 -2.0  
0.5s 0.38nm  
MOCB 148.90 149 PKP 25 05.30 3.0X  
LPB 151.23 140 ePKP 25 14.00 8.1X  
LPZ 151.39 140 PKP 25 11.00 4.6X  
S.D. = 1.2 on 27 of 31 obs.  
% JAN 15, 1994 20h 07m 11.83± 3.96s  
33.606 S ± 8.7km 72.076 W ± 28.1km  
DEPTH = 10.0km (geophysicist)  
OFF COAST OF CENTRAL CHILE (134)  
MD 3.9 (SAN).  
LCCH 0.44 73 iP+ 07 21.73 0.9  
iS 07 26.83  
LNV 0.65 122 iP+ 07 25.60 0.7  
iS 07 34.09  
TACH 0.95 93 iP+ 07 29.51 -0.4  
iS 07 42.81  
ROCH 1.09 55 eP 07 32.46 -0.1  
iS 07 45.99  
CHCH 1.23 106 eP 07 33.93 -0.8  
eS 07 50.75

PEL 1.25 69 iPd 07 35.28 0.1  
iS 07 50.65  
PCH 1.30 91 iPd 07 35.34 -0.7  
CACH 1.33 113 eP 07 36.81 0.4  
FCH 1.52 80 iPd 07 39.22 -0.1  
iS 07 59.37  
JACH 1.55 54 eP 07 39.54 0.0  
iS 07 58.75  
CFA 3.80 59 e(P) 07 38.20 -33.6X  
S.D. = 0.6 on 10 of 11 obs.  
\* JAN 15, 1994 21h 16m 54.57± 0.48s  
31.595 N ± 8.7km 49.030 E ± 7.2km  
DEPTH = 33.0km (normal)  
4.0mb ( 1 obs.)  
WESTERN IRAN (347)  
MJMA 6.59 211 eP 18 32.00 0.2  
TAB 6.83 342 eP 19 08.00 32.9X  
RYD 7.17 198 eP 18 52.00 12.1X  
eS 20 20.00  
QASM 7.30 223 eP 18 41.15 -0.5  
eS 20 05.00  
UQSK 8.23 227 ePc 18 55.00 0.3  
eS 20 26.00  
AFIF 9.08 216 eP 19 10.60 4.1X  
GKN 31.02 87 P 23 12.00 0.3  
DMN 31.53 88 P 23 16.80 0.6  
KKN 31.63 87 P 23 16.80 -0.3  
PKI 31.80 88 P 23 19.00 0.3  
GUN 32.11 87 P 23 20.40 -1.0  
KAF 33.88 341 iP 23 36.10 0.1  
HFS 36.89 331 eP 24 01.50 -0.1  
0.4s 0.90nm 4.0mb  
S.D. = 0.5 on 10 of 13 obs.  
? JAN 15, 1994 21h 26m 13.87± 2.26s  
43.553 N ± 8.9km 5.890 E ± 15.1km  
DEPTH = 10.0km (geophysicist)  
NEAR SOUTH COAST OF FRANCE (379)  
ML 2.7 (LDG), 2.1 (STR).  
LRG 0.36 106 Pg 26 21.70 0.5  
Sg 26 29.60  
LMR 0.50 116 Pg 26 24.40 0.4  
Sg 26 34.30  
FRF 0.55 89 Pg 26 25.90 0.8  
Sg 26 35.40  
CALN 0.75 74 Pg 26 28.80 0.1  
MVIF 0.98 69 Pg 26 32.29 -0.3  
TOUF 1.09 64 Pg 26 33.99 -0.4  
REVF 1.09 80 Pg 26 34.80 0.4  
Sg 26 50.93  
AURF 1.09 72 Pg 26 34.31 -0.2  
Sg 26 50.69  
SBF 1.16 74 Pn 26 35.60 0.0  
Pg 26 36.00  
Sg 26 53.10  
AUTN 1.20 68 Pg 26 35.93 -0.4  
SAOF 1.28 70 Pg 26 37.07 -0.6  
LPG 2.04 17 Pg 26 50.50 1.6X  
LPL 2.05 17 Pg 26 49.80 0.7  
PGF 2.49 113 Pn 26 54.10 -1.1  
Sn 27 24.80  
S.D. = 0.6 on 13 of 14 obs.  
\* JAN 15, 1994 22h 04m 46.87± 0.47s  
50.397 N ± 7.2km 90.740 E ± 9.7km  
DEPTH = 33.0km (normal)  
4.5mb ( 12 obs.)  
RUSSIA-MONGOLIA BORDER REGION (333)  
IRK 8.70 72 eP 07 17.50 24.1X  
0.9s 25.00nm  
ePg 07 21.40  
e 07 32.20  
eSg 09 10.00  
LZH 17.16 141 eP 08 46.50 0.8  
1.5s 26.00nm 4.1mb  
pP 08 51.50  
Lg 13 40.00  
BJI 20.60 110 eP 09 26.00 0.5  
1.0s 28.00nm 4.6mb  
eS 15 48.00  
esS 17 14.00  
GUN 22.76 191 P 09 48.20 0.5  
0.7s 17.00nm 4.6mb



15d 22h

GKN 22.84 194 P 09 48.60 0.4  
0.6s 19.00nm 4.8mb  
KKN 22.96 192 P 09 49.30 -0.1  
0.6s 14.00nm 4.6mb  
DMN 23.16 193 P 09 50.20 -1.3  
0.9s 14.00nm 4.5mb  
YAK 24.19 46 eP 10 00.00 -0.8  
1.0s 50.00nm 5.0mb  
e 15 08.00  
e 17 20.00  
e 17 33.00  
MAIO 26.50 250 eP 10 25.00 2.0X  
KAF 36.10 314 eP 11 53.00 6.0X  
NUR 37.24 312 eP 12 00.00 3.4X  
APO 42.26 314 eP 12 37.70 -0.5  
0.5s 1.60nm 4.0mb  
CLL 46.88 303 iP 13 16.00 0.6  
GEC2 47.80 300 P 13 23.20 0.4  
0.8s 0.58nm 3.7mb  
e 13 26.70  
e 13 28.70  
e 13 39.10  
MBC 52.16 9 eP 13 57.00 1.4  
YKA 65.67 13 eP 15 28.70 -0.8  
1.0s 1.00nm 3.9mb  
WRA 79.89 139 P 16 48.20 -5.5X  
0.8s 0.40nm 3.5mb X  
WB2 79.90 139 eP 16 52.60 -1.1  
0.6s 5.80nm 4.8mb  
i 30 56.10  
eS 33 11.50  
LKO 86.73 281 P 17 21.18 -7.7X  
1.4s 8.00nm 4.8mb  
S.D. = 0.9 on 13 of 19 obs.

\* JAN 15, 1994 22h 11m 21.36± 0.63s  
10.996 N ± 8.4km 62.686 W ± 5.6km  
DEPTH = 5.0km (geophysicist)  
NEAR COAST OF VENEZUELA ( 97)  
MD 3.8 (TRN).

TCE 0.96 108 eP 11 40.24 0.1  
iS 11 51.59  
TRN 1.31 105 iPd 11 46.39 0.4  
eS 12 01.27  
TPP 1.39 119 iPd 11 48.32 1.0  
eS 12 08.08  
GRW 1.53 41 eP 11 51.12 1.6  
iS 12 06.09  
TBH 1.67 108 iPd 11 50.63 -0.8  
eS 12 12.07  
BOT 1.94 85 iPd 11 53.95 -1.3  
SVB 2.66 32 eP 12 05.48 -0.2  
eS 12 37.73  
SVV 2.72 32 eP 12 06.24 -0.3  
SLB 3.24 30 eP 12 13.46 -0.5  
eS 12 50.75  
OLLA 4.16 257 eP 12 29.10 2.0  
eS 13 21.20  
CEOS 5.90 251 eP 12 51.30 -0.3  
eS 13 58.20  
SDV 8.11 256 ePn 13 21.00 -1.8  
S.D. = 1.2 on 12 of 12 obs.

& JAN 15, 1994 22h 31m 41.71s  
59.863 N 153.281 W  
DEPTH = 119.3km  
SOUTHERN ALASKA ( 2)  
<AEIC>.

OPT 0.21 173 eP 31 57.98 1.0  
eS 32 09.89  
ILIM 0.27 36 eP 31 57.83 0.6  
eS 32 12.01  
PDB 0.47 261 iP 31 58.67 -0.9  
eS 32 12.03  
AUL 0.49 189 eP 31 59.35 -0.4  
eS 32 13.08  
AUW 0.50 191 eP 31 59.16 -0.7  
AUE 0.51 185 eP 31 58.98 -0.9  
RED 0.61 24 eP 31 59.89 -0.8  
RSO 0.66 23 eP 32 00.42 -0.8  
RDW 0.66 21 eP 32 00.34 -0.9  
REF 0.69 24 iP 32 00.61 -0.8  
NCT 0.72 14 eP 32 00.77 -0.8  
eS 32 15.82  
DFR 0.79 22 eP 32 01.25 -0.9

HOM 0.85 103 eP 32 00.70 -1.9  
CNPM 1.09 107 eP 32 03.89 -1.0  
eS 32 21.00  
BKG 1.31 22 eP 32 06.67 -0.7  
eS 32 26.00  
SYI 1.34 160 eP 32 06.80 -0.8  
NKA 1.35 48 eP 32 08.33 0.7  
CKL 1.42 19 eP 32 08.24 -0.4  
CKT 1.44 21 eP 32 07.90 -1.0  
SPU 1.46 24 eP 32 08.06 -0.9  
BGL 1.47 17 eP 32 08.53 -0.7  
CP2 1.50 20 eP 32 09.03 -0.6  
CRP 1.51 21 eP 32 09.10 -0.7  
CGLM 1.58 23 eP 32 09.78 -0.7  
NCG 1.64 19 eP 32 09.99 -1.3  
SLKM 1.66 66 eP 32 10.71 -0.7  
SEW 1.94 81 eP 32 13.58 -1.2  
eS 32 38.81  
SUA 2.03 37 eP 32 15.33 -0.8  
MPA 2.06 71 eP 32 15.12 -1.2  
PWL 2.65 66 eP 32 21.73 -2.3  
PLRM 2.68 48 eP 32 22.96 -1.4  
MTU 2.84 85 eP 32 25.45 -1.0  
KNK 2.84 55 eP 32 24.52 -2.0  
GHO 2.87 46 eP 32 25.41 -1.6  
CUT 2.94 28 eP 32 27.47 -0.3  
CFI 3.03 62 eP 32 26.91 -2.1  
SML 3.11 49 eP 32 28.60 -1.6  
FID 3.50 72 eP 32 33.59 -1.8  
KLU 3.97 63 eP 32 39.18 -2.6  
39 obs. associated

? JAN 15, 1994 22h 45m 51.27± 0.74s  
36.166 N ± 19.9km 69.369 E ± 13.6km  
DEPTH = 33.0km (normal)  
4.3mb ( 9 obs.)

HINDU KUSH REGION, AFGHANISTAN (718)

QUE 6.30 199 eP 47 33.50 9.1X  
MAIO 7.98 274 ePn 47 47.00 -0.9  
eSn 49 14.00  
NDI 9.98 136 iPc 48 18.50 3.1  
0.5s 21.13nm 5.7mb X  
eS 50 09.00  
GKN 15.28 118 P 49 25.00 -1.3  
0.5s 20.00nm 4.6mb  
DMN 15.84 118 P 49 33.20 -0.5  
0.5s 11.00nm 4.3mb  
KKN 15.86 117 P 49 33.20 -0.7  
0.5s 28.00nm 4.7mb  
PKI 16.08 118 P 49 35.40 -1.4  
0.7s 19.00nm 4.3mb  
GUN 16.23 116 P 49 38.40 -0.3  
0.4s 10.00nm 4.3mb  
HFS 42.52 322 eP 53 44.60 -0.3  
0.6s 1.50nm 3.9mb  
MBC 67.73 2 eP 56 48.50 1.5  
YKA 81.63 2 eP 58 07.00 0.1  
0.7s 0.50nm 3.6mb  
WRA 82.94 121 P 58 15.40 1.0  
0.4s 0.50nm 4.0mb  
WB2 82.95 121 eP 58 14.00 -0.4  
0.3s 2.40nm 4.8mb  
S.D. = 1.4 on 12 of 13 obs.

% JAN 15, 1994 23h 05m 23.78± 0.64s  
46.073 N ± 5.5km 2.996 E ± 5.7km  
DEPTH = 10.0km (geophysicist)

FRANCE (538)  
ML 2.6 (LDG).

MAF 0.33 297 Pg 05 30.70 0.0  
Sg 05 35.50  
BGF 0.50 348 Pg 05 33.80 0.0  
Sg 05 41.20  
TCF 0.59 292 Pg 05 35.30 -0.4  
Sg 05 43.40  
AVF 0.76 19 Pg 05 38.40 -0.2  
Sg 05 48.50  
SMF 0.82 45 Pg 05 39.10 -0.5  
Sg 05 50.20  
LSF 1.03 280 Pg 05 43.30 0.0  
Sg 05 56.90  
SSF 1.05 19 Pg 05 43.80 0.2  
Sg 05 57.80  
LBF 1.14 36 Pg 05 45.20 0.1  
Sg 06 00.30

RJF 1.29 234 Pg 05 47.40 -0.3  
Sg 06 03.80  
CAF 1.32 210 Pg 05 47.00 -1.2  
Sg 06 04.40  
LOR 1.34 26 Pg 05 48.80 0.4  
Sg 06 06.20  
LPO 1.89 223 Pg 05 58.20 1.9  
Sg 06 21.30

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

JAN 15, 1994 23h 07m 09.07± 0.16s  
0.070 N ± 3.3km 123.648 E ± 4.4km  
DEPTH = 128.8km ( 2 depth phases)  
5.3mb ( 58 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

Mw 5.2 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 12S, 18C

Centroid Location:

Origin Time 23:07:13.2 0.6

Lat 0.17N 0.07 Lon 123.84E 0.07

Dep 116.2 3.6 Half-duration 1.3

Moment Tensor; Scale 10\*\*16 Nm

Mrr= 7.27 0.52 Mtt=-2.25 0.79

Mff=-5.01 1.04 Mrt= 0.10 0.52

Mrf= 0.19 0.53 Mtf=-1.06 0.69

Principal Axes:

T Val= 7.27 Plg=89 Azm=289

N -1.89 0 199

P -5.38 1 109

Best Double Couple:Mo=6.3\*10\*\*16

NP1:Strike=199 Dip=44 Slip= 90

NP2: 19 46 90

MNI 1.81 41 ePd 07 42.50 1.4  
eS 08 05.50

CTB 7.10 4 eP 08 54.50 2.7

TSM 7.13 306 ePc 08 53.10 0.9

0.4s 2729.10nm 7.1mb X

DAV 7.23 15 eP 08 56.80 3.3X

1.5s 3155.56nm 6.6mb X

KKM 9.50 309 ePd 09 31.00 6.8X

0.7s 507.20nm 6.4mb X

e 11 16.50

MAP 10.19 2 ePc 09 36.00 2.8

PGP 13.61 349 ePc 10 22.60 4.5X

QCP 14.69 350 eP 10 35.00 3.2X

MTN 14.82 150 iPd 10 32.20 -1.3

0.8s 372.00nm 5.7mb

TPI 16.23 260 ePc 10 52.50 1.4

e 14 00.00

KNA 16.51 162 eP 10 53.00 -1.5

0.8s 189.00nm 5.4mb

BAG 16.52 350 ePc+ 10 56.10 1.3

1.0s 160.00nm 5.3mb

e 14 02.00

CVP 17.62 354 ePc 11 09.00 1.0

WWKK 20.30 101 eP 11 37.70 0.8

KGM 20.42 276 ePc 11 40.70 2.7

MBL 21.43 190 eP 11 48.00 -0.1

0.5s 6.00nm 4.2mb X

WRA 22.48 153 P 11 58.00 -0.4

0.6s 32.90nm 4.9mb

WB2 22.48 153 iPc 11 57.40 -1.1

0.7s 77.10nm 5.2mb

eP 12 16.80 89kmX

eScP 15 49.40

eS 15 52.90

eScS 22 51.20

IPM 23.04 282 ePc 12 05.10 1.2

1.0s 173.10nm 5.4mb

QIZ 23.21 325 Pc 12 08.00 2.5

1.0s 130.00nm 5.3mb

eS 16 11.00

HKC 23.95 338 iP 12 14.80 2.2

SNG 24.03 288 eP 12 16.20 2.7

LAT 24.24 106 eP 12 16.50 1.0

GZH 24.98 337 iPd 12 24.50 2.2

1.0s 210.00nm 5.6mb

eS 16 40.00

PMG 25.23 113 eP 12 23.00 -1.7

ASPA 25.61 158 P 12 29.10 0.9

QIS 25.77 144 eP 12 29.80 0.1

i 13 00.00

WARB 26.26 174 eP 12 34.00 -0.1

MEEK 26.99 190 eP 12 39.00 -1.8



	1.0s		5.00nm			4.9mb
HFS	99.77	331	eP	20	37.00	-2.6
	0.4s		6.60nm			5.5mb
DAG	100.45	352	iPdiff20	40	8.80	-1.5
	0.5s		9.86nm			5.7mb
RES	101.93	10	ePdiff20	49	0.00	0.1
	0.9s		3.00nm			5.0mb
BRG	102.28	322	ePdiff20	50	4.00	-0.6
	1.2s		15.00nm			5.6mb
GEC2	102.97	320	Pdiff	20	53.10	-1.1
	0.6s		0.65nm			4.6mb
			e	20	54.90	
			e	20	58.00	
			e	25	09.10	
			e	25	13.70	
			e	36	51.20	
YKA	104.08	24	ePdiff20	58	5.50	-0.2
	0.7s		1.10nm			4.9mb
BSF	107.67	321	ePKP	25	21.60	-1.1
	0.8s		8.20nm			
LPG	108.50	319	ePKP	25	24.00	-0.6
	0.5s		1.45nm			
LPL	108.51	319	ePKP	25	23.80	-0.7
	0.6s		2.70nm			
SBF	108.58	317	ePKP	25	24.80	0.3
	0.7s		8.25nm			
FRF	109.22	317	ePKP	25	25.70	0.1
	0.5s		2.60nm			
LOR	109.72	321	ePKP	25	25.80	-0.7
LBF	109.76	321	ePKP	25	25.80	-0.8
	0.6s		5.05nm			
SMF	109.97	321	ePKP	25	26.10	-0.8
SSF	110.02	321	ePKP	25	26.50	-0.5
	0.7s		4.50nm			
AVF	110.23	321	ePKP	25	26.50	-0.9
BGF	110.64	321	ePKP	25	27.70	-0.5
	0.7s		12.00nm			
GRR	112.13	324	ePKP	25	30.60	-0.3
	0.4s		1.95nm			
LPF	112.40	323	ePKP	25	31.20	-0.2
	0.7s		10.35nm			
MFF	112.50	322	ePKP	25	30.90	-0.8
	0.4s		3.05nm			
EPF	113.69	318	ePKP	25	34.00	-0.2
	0.4s		1.95nm			
HVU	114.38	43	ePKP	25	36.16	0.4
DUG	114.99	45	ePKP	25	37.33	0.4
FRB	115.70	6	ePKP	25	36.50	-0.8
MSU	116.10	46	ePKP	25	40.06	0.8
EMUT	116.55	44	ePKP	25	40.29	0.2
SRU	117.04	45	ePKP	25	41.05	0.1
PV09	118.29	45	ePKP	25	43.93	0.4
PV10	118.40	45	ePKP	25	44.11	0.5
PV08	118.60	45	ePKP	25	44.64	0.5
RSSD	118.95	37	ePKP	25	43.68	-0.8
TUC	119.47	52	ePKP	25	47.16	1.6
ULM	119.62	28	ePKP	25	47.00	1.8
GOL	120.34	42	ePKP	25	47.62	0.3
ALQ	121.75	48	ePKP	25	50.61	0.6
LTX	126.26	53	ePKP	25	58.84	0.0
WMOK	127.39	44	ePKP	26	00.38	-0.3
KIC	128.10	278	PKP	26	01.57	-1.0
	0.9s		19.00nm			
TIC	128.35	278	PKP	26	01.99	-1.1
	0.8s		16.00nm			
LIC	128.40	278	PKP	26	02.50	-0.7
	0.8s		14.50nm			
LKO	128.59	282	PKP	26	02.81	-0.7
	0.7s		22.00nm			
TUL	128.77	41	iPKPd	26	04.30	1.0
MIAR	131.04	41	ePKP	26	08.09	0.5
GAC	131.39	18	ePKP	26	08.00	0.1
OXF	133.74	39	ePKP	26	12.68	0.0
PEL	144.44	15				



15d 23h

S.D. = 1.2 on 180 of 187 obs.  
 % JAN 15, 1994 23h 12m 12.61± 0.43s  
 46.379 N ± 6.3km 2.770 E ± 5.7km  
 DEPTH = 10.0km (geophysicist)  
 FRANCE (538)  
 ML 2.6 (LDG).

BGF	0.19	16	Pg	12	17.00	0.2
			Sg	12	20.00	
MAF	0.21	222	Pg	12	16.60	-0.6
			Sg	12	19.00	
TCF	0.40	257	Pg	12	20.60	-0.2
			Sg	12	25.60	
AVF	0.58	44	Pg	12	23.80	-0.5
			Sg	12	31.50	
SMF	0.79	70	Pg	12	27.30	-0.6
			Sg	12	37.70	
SSF	0.85	36	Pg	12	29.00	0.0
			Sg	12	40.20	
LSF	0.87	262	Pg	12	29.30	0.0
			Sg	12	40.20	
LBF	1.03	53	Pg	12	32.40	0.3
			Sg	12	45.30	
LOR	1.16	40	Pg	12	34.70	0.4
			Sg	12	49.80	
RJF	1.39	220	Pg	12	38.30	0.3
			Sg	12	55.30	
CAF	1.54	199	Pg	12	40.80	0.7
			Sg	13	00.40	

S.D. = 0.5 on 11 of 11 obs.  
 ? JAN 15, 1994 23h 18m 30.13± 1.53s  
 35.554 N ± 16.9km 26.072 E ± 14.8km  
 DEPTH = 10.0km (geophysicist)  
 CRETE (370)  
 MD 3.8 (ATH).

NPS	0.47	232	ePg	18	40.00	0.2
VAM	1.53	265	ePb	18	57.00	-0.6
CIN	2.61	38	eP	19	13.00	0.0
VLI	2.79	296	ePn	19	16.00	0.3

S.D. = 0.7 on 4 of 4 obs.  
 & JAN 15, 1994 23h 54m 17.12s  
 59.431 N 153.092 W  
 DEPTH = 90.7km  
 2.8mb ( 1 obs.)  
 SOUTHERN ALASKA ( 2)  
 <AEIC>.

AUE	0.16	243	eP	54	29.77	1.1
AUL	0.18	255	ePd	54	29.75	1.0
			eS	54	38.93	
AUP	0.18	248	eP	54	29.47	0.6
AUH	0.19	250	eP	54	29.77	0.9
AUI	0.20	241	eP	54	29.68	0.9
			eS	54	39.13	
AUW	0.20	253	eP	54	29.86	1.0
OPT	0.23	343	iPd	54	29.83	0.8
			eS	54	38.70	
CDD	0.58	210	ePd	54	31.91	-0.9
			eS	54	43.91	
ILIM	0.65	6	ePd	54	32.49	-1.1
			eS	54	45.04	
PDB	0.66	303	ePc	54	32.75	-0.8
			eS	54	44.84	
XLV	0.70	87	eP	54	33.05	-0.9
			eS	54	45.48	
HOM	0.77	72	ePc	54	34.22	-0.4
			eS	54	46.15	
SYI	0.90	156	iPc	54	34.91	-1.1
			eS	54	48.65	
CNPM	0.95	83	iPc	54	35.58	-1.1
			eS	54	49.98	
RED	1.00	9	iPd	54	36.37	-0.9
			eS	54	51.59	
RS2	1.05	9	iPd	54	37.09	-0.9
RSO	1.05	9	ePd	54	37.07	-0.9
RDW	1.06	8	iPd	54	37.24	-0.9
REF	1.08	10	iPd	54	37.35	-0.9
			eS	54	53.24	
BGM	1.09	269	eP	54	37.28	-1.0
NCT	1.14	4	ePd	54	37.95	-0.9
			eS	54	54.45	
BRK	1.17	72	eP	54	38.14	-1.1
			eS	54	53.56	

DFR	1.18	10	iPd	54	38.50	-0.9
NKA	1.61	34	eP	54	45.67	1.0
BKG	1.70	14	ePd	54	44.94	-1.0
KDC	1.72	169	iPd	54	43.71	-2.4
			eS	55	04.24	
SLKM	1.80	52	eP	54	45.73	-1.6
CKL	1.81	12	eP	54	46.83	-0.7
CKT	1.83	14	iPd	54	46.84	-0.9
			eS	55	09.57	
SPU	1.83	16	iPd	54	46.79	-0.9
CKN	1.86	14	iPd	54	47.37	-0.6
BGL	1.87	10	iPd	54	47.63	-0.6
CP2	1.89	13	iPd	54	47.65	-0.9
CRP	1.90	14	iPd	54	47.41	-1.3
CGLM	1.96	16	ePd	54	48.61	-0.8
SEW	1.96	68	eP	54	48.17	-1.2
			eS	55	10.29	
NCG	2.03	13	ePd	54	49.74	-0.7
SVW	2.10	324	iPc	54	49.99	-1.3
			eS	55	11.62	
SUA	2.35	29	ePd	54	53.87	-0.8
			eS	55	23.76	
SKT	2.67	16	ePd	54	57.82	-1.2
PWA	2.74	34	P	54	58.70	-1.1
PWL	2.78	57	ePd	54	58.13	-2.3
MTU	2.81	76	eP	54	59.35	-1.6
			eS	55	30.93	
PLRM	2.92	40	eP	55	00.15	-2.2
PMR	2.92	40	eP	54	59.82	-2.6
KNK	3.04	47	eP	55	01.60	-2.4
CFI	3.18	54	eP	55	03.33	-2.6
SML	3.34	42	eP	55	06.08	-2.2
MID	3.45	87	P	55	07.50	-2.1
HIN	3.46	71	eP	55	07.03	-2.8
FID	3.57	65	eP	55	07.55	-3.7
VZW	3.65	61	eP	55	09.59	-2.8
VLZ	3.77	60	eP	55	11.74	-2.4
			eS	55	52.32	
TTA	3.79	339	eP	55	12.51	-1.9
CVA	3.85	70	eP	55	12.09	-3.1
HUR	3.93	24	eP	55	15.63	-0.7
KLU	4.11	57	ePd	55	16.05	-2.8
TRF	4.25	17	eP	55	19.30	-1.7
KTH	4.27	13	eP	55	19.37	-1.7
TOA	4.32	49	P	55	19.70	-2.1
RAGM	4.35	74	eP	55	19.97	-2.1
RND	4.48	25	eP	55	21.78	-2.2
DHY	4.58	35	eP	55	23.14	-2.4
TZL	4.59	52	eP	55	24.17	-1.2
MCK	4.75	23	eP	55	26.25	-1.5
GLB	5.02	62	ePc	55	28.26	-3.2
BWN	5.06	18	eP	55	30.49	-1.5
PAX	5.12	43	eP	55	31.01	-1.9
TGL	5.31	71	eP	55	33.10	-2.4
NEA	5.50	18	eP	55	35.38	-2.7
WRH	5.58	23	eP	55	36.62	-2.6
BALM	5.59	69	eP	55	36.57	-2.9
MLY	5.73	10	eP	55	39.79	-1.5
HDA	5.77	28	eP	55	39.24	-2.6
CCB	5.79	23	eP	55	38.93	-3.2
DJE	5.80	34	eP	55	40.72	-1.5
MDM	5.99	20	eP	55	42.19	-2.8
FBA	6.02	22	eP	55	42.08	-3.2
CTGM	6.06	70	eP	55	44.02	-2.0
ILB	6.10	26	eP	55	43.16	-3.2
GLM	6.18	23	eP	55	44.63	-2.9
BC3	6.56	51	eP	55	49.59	-3.2
IM3	6.58	358	eP	55	51.34	-1.7
IMA	6.67	358	eP	55	52.47	-1.9
PRP	7.04	27	eP	55	56.76	-2.7
BM3	8.86	22	eP	56	20.14	-4.2
YKA	18.74	64	eP	58	29.30	-1.8

0.5s 0.30nm 2.8mb  
 87 obs. associated  
 % JAN 16, 1994 00h 41m 42.96± 0.85s  
 39.856 N ± 7.4km 23.238 E ± 6.2km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 PAIG 0.35 78 iPg 41 49.38 -0.7  
 eSg 41 55.34  
 LIT 0.62 293 iPg 41 55.18 -0.4  
 eSg 42 04.62  
 OUR 0.74 50 ePg 41 57.86 0.3  
 SOH 0.97 5 ePg 42 02.50 1.1  
 eSg 42 15.22

AGG	1.09	220	ePg	42	03.90	0.4
GRG	1.27	330	ePb	42	05.70	-0.9
			eSb	42	23.66	
KNT	1.33	349	ePb	42	07.62	0.1
			eSb	42	27.26	

S.D. = 0.9 on 7 of 7 obs.  
 JAN 16, 1994 00h 42m 43.20± 0.29s  
 40.327 N ± 2.9km 76.007 W ± 3.1km  
 DEPTH = 5.0km (geophysicist)  
 4.2mb ( 2 obs.)

PENNSYLVANIA (473)  
 mblg 4.0 (GS). Slight damage in the Reading area. Felt north as far as Allentown and south to Chester County.

MVL	0.42	219	P	42	51.00	-0.6
BWD	0.62	148	iPc	42	55.40	-0.2
NED	0.66	160	iPc	42	56.10	-0.4
BVD	0.68	145	iPc	42	56.90	0.2
GPD	1.36	59	ePd	43	08.22	-0.6
			eS	43	26.53	
GMTN	1.49	68	Pn	43	10.90	0.2
TBR	1.58	58	ePd	43	11.81	-0.1
PAL	1.73	66	ePd	43	14.65	0.5
CRNY	2.11	61	eP	43	20.47	0.9
CBN	2.37	207	eP	43	23.90	0.6
			eS	43	53.00	
LSCT	2.50	56	eP	43	25.36	0.1
			eS	43	56.63	
YSNY	2.87	319	ePc	43	30.57	0.1
CVL	3.02	220	iPd	43	32.92	0.4
MCWV	3.02	258	eP	43	33.50	0.9
STCO	3.73	322	P	43	43.86	1.3
			S	44	27.00	
TYNO	4.00	315	P	43	47.59	1.1
			S	44	32.90	
WLVO	4.01	334	P	43	47.15	0.6
			S	44	31.57	
RSNY	4.36	14	eP	43	50.36	-1.2
ACTO	4.46	319	P	43	53.24	0.2
			S	44	43.30	
BLA	4.64	229	eP	43	55.52	-0.2
LDN	4.73	307	P	43	56.00	-0.9
NAV	4.80	233	ePn	43	55.50	-2.4X
DLA	4.88	303	P	43	56.85	-2.2X
ELF	4.89	308	P	43	57.90	-1.3
LEBH	4.95	36	ePn	43	56.24	-3.7X



16d 01h

New York City. Also felt at  
Toronto, Canada.

BWD	0.64	146	iPc	49	29.30	0.4
NED	0.67	158	iPc	49	30.00	0.3
BVD	0.69	143	iPc	49	30.20	0.2
GPD	1.38	60	ePd	49	41.45	-0.7
GMTN	1.51	68	Pn	49	44.80	0.8
TBR	1.60	59	ePd	49	45.17	0.0
PAL	1.75	67	ePd	49	48.20	0.8
CRNY	2.13	62	ePd	49	53.97	1.1
LSCT	2.52	57	eP	49	58.92	0.4
YSNY	2.85	320	ePc	50	03.94	0.7
			eS	50	38.89	
MCWV	3.00	258	eP	50	06.48	1.2
CVL	3.01	220	eP	50	05.71	0.3
STCO	3.71	322	P	50	16.89	1.5
			S	50	58.58	
TYNO	3.98	315	P	50	21.16	1.9
			S	51	06.49	
WLVO	4.00	335	P	50	19.64	0.2
			S	51	05.46	
RSNY	4.36	14	ePn	50	23.69	-0.9
ACTO	4.44	319	P	50	27.09	1.3
			S	51	16.23	
BLA	4.63	229	ePnd	50	28.87	0.4
LDN	4.71	307	P	50	29.30	-0.3
NAV	4.78	233	ePn	50	30.93	0.3
DLA	4.86	303	P	50	29.60	-2.1X
ELF	4.87	308	P	50	31.10	-0.8
LEBNH	4.96	37	ePn	50	31.83	-1.2
CEH	5.04	209	ePn	50	33.28	-1.0
			eSn	51	32.04	
			eLg	51	55.92	
GAC	5.39	4	eP	50	38.00	-1.1
LHS	6.96	215	ePc	51	00.11	-1.3
UYO	15.90	253	iPc	52	58.80	-3.4X
TUL	16.16	260	iPc	53	03.10	-2.4X
PCO	16.79	264	e(P)	53	10.50	-3.1X
ACO	18.43	266	iPc	53	31.00	-3.1X
MEO	18.70	260	iPd	53	35.00	-2.3X
GLD	22.31	278	eP	54	15.96	-0.3
	1.6s	25.92nm			4.4mb	
GOL	22.43	278	eP	54	16.85	-0.7
	1.2s	33.73nm			4.7mb	
			eSg	00	54.69	
FRB	23.87	8	eP	54	32.00	1.0
	1.0s	8.00nm			4.3mb	
ALQ	24.61	267	eP	54	40.34	1.6
	1.4s	21.06nm			4.6mb	
LTX	25.10	253	eP	54	43.44	0.1
BW06	25.11	287	ePc	54	43.37	-0.2
	0.7s	29.52nm			5.1mb	
PV08	25.17	277	eP	54	45.13	0.9
PV10	25.51	276	eP	54	47.86	0.4
PV09	25.56	277	eP	54	48.14	0.3
SRU	26.46	279	eP	54	56.01	-0.1
EMUT	26.52	280	eP	54	55.87	-0.9
DAU	26.73	282	eP	54	58.60	-0.1
LRM	27.00	294	eP	55	01.40	0.4
HVU	27.61	285	eP	55	05.63	-0.9
MSU	27.86	278	eP	55	09.15	0.2
DUG	27.94	282	eP	55	09.46	-0.1
	1.1s	11.13nm			4.6mb	
ARUT	29.02	277	eP	55	19.01	-0.3
YKA	31.95	327	eP	55	42.50	-2.3
	0.8s	1.50nm			4.0mb	
BONR	32.64	280	eP	55	50.68	-0.8
CMB	34.19	281	eP	56	04.01	-0.6
	0.6s	4.01nm			4.5mb	
ABL	34.40	275	eP	56	07.48	0.9
FBA	46.75	326	eP	57	46.95	-0.8
	0.9s	6.16nm			4.7mb	
PMR	47.74	322	eP	57	54.69	-0.9
	0.9s	15.35nm			5.1mb	
SLKM	48.45	320	eP	58	01.32	0.1
IMA	49.06	328	eP	58	05.27	-0.6
	0.7s	3.44nm			4.5mb	
CRP	49.23	322	eP	58	06.91	-0.4
LPAZ	56.80	171	P	59	03.90	-0.7
LPB	57.05	171	P	58	58.00	-8.1X
GEC2	60.91	49	P	59	32.40	0.2
	0.8s	0.57nm			3.7mb	
			e	59	33.90	
			e	59	36.80	
			PcP	59	41.40	
WB2	147.03	299	ePKP	09	01.10	1.3X

WRA	0.5s	5.50nm				
	147.04	299	PKP	09	02.00	2.2X
	0.8s	2.80nm				
	S.D. = 0.9	on 53 of 62 obs.				
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JAN 16, 1994 03h 23m 51.43± 0.30s						
28.239 N ± 6.5km 43.871 W ± 4.0km						
DEPTH = 10.0km (geophysicist)						
4.6mb ( 26 obs.)						
NORTHERN MID-ATLANTIC RIDGE (403)						
MCWV	31.74	300	eP	30	18.51	0.7
	1.0s	12.48nm			4.8mb	
LPF	38.44	47	eP	31	15.40	0.5
GRR	38.66	47	eP	31	16.90	0.2
	0.7s	5.50nm			4.4mb	
MPF	38.69	50	eP	31	16.80	-0.2
	0.9s	13.10nm			4.6mb	
FRB	38.91	343	eP	31	19.00	0.4
LFF	38.97	52	eP	31	19.00	-0.4
FLN	39.00	46	eP	31	19.60	0.0
LDF	39.18	47	eP	31	21.20	0.1
	0.8s	17.35nm			4.8mb	
FVM	39.83	296	(P)	31	27.40	0.7
LKO	40.48	110	P	31	31.96	-0.2
	1.1s	15.00nm			4.6mb	
BGF	40.71	50	eP	31	33.60	-0.1
	0.9s	14.10nm			4.7mb	
SSF	41.24	50	eP	31	38.10	0.0
	1.1s	19.05nm			4.7mb	
SMF	41.40	50	eP	31	39.80	0.4
	1.0s	18.40nm			4.8mb	
LOR	41.51	49	eP	31	40.30	0.0
	1.0s	9.60nm			4.5mb	
LBF	41.54	50	eP	31	40.60	0.0
	1.3s	30.35nm			4.9mb	
HAU	43.29	49	eP	31	54.70	-0.2
	0.6s	4.35nm			4.4mb	
UYO	43.32	291	iPc	31	56.50	1.3
CDF	43.97	48	eP	32	00.20	-0.2
	0.7s	4.50nm			4.4mb	
TUL	44.23	294	iPc	32	03.20	0.6
ULM	44.80	314	eP	32	08.50	1.5
GRF	46.70	47	ePKP	32	23.30	1.2
			e	33	34.30	
ACO	46.84	295	iPc	32	24.00	0.6
SIV	47.02	203	P	32	25.30	0.4
CLL	48.01	45	e(P)	32	27.00	-5.4X
			e	33	42.00	
KHC	48.19	48	P	32	34.50	0.6
	1.3s	12.70nm			4.8mb	
			e	32	45.50	
			e	33	45.50	
			e	33	51.00	
GEC2	48.25	48	P	32	32.50	-1.9
	1.0s	2.81nm			4.3mb	
			e	32	40.70	
			e	32	45.20	
			e	33	44.80	
			PP	33	50.80	
			e	33	52.70	
			e	33	55.90	
BRG	48.56	46	iP	32	37.00	0.4
	2.0s	34.00nm			5.1mb	
			e	33	48.20	
LJU	48.72	52	eP	32	38.00	0.0
PRU	48.87	47	ePc	32	40.00	1.0
	2.0s	82.10nm			5.4mb	
			e	33	50.30	
			e	34	00.30	
DAG	50.06	7	eP	32	48.00	0.2
	0.8s	5.97nm			4.6mb	
			iPp	34	04.30	373kmX
LPAZ	50.11	211	Pc	32	48.90	-0.7
			i	34	01.50	
LPB	50.31	211	P	32	51.80	0.9
			LR	48	20.00	
			i	34	03.40	
LTX	51.90	286	eP	33	01.81	-0.8
RES	53.04	345	eP	33	10.50	0.1
	1.0s	3.00nm			4.2mb	
MOCB	53.50	205	P	33	13.90	-1.0
BW06	54.13	304	eP	33	17.69	-1.4
	0.9s	12.31nm			4.9mb	
SRU	55.41	300	eP	33	28.30	-0.1
EMUT	55.51	301	(P)	33	28.08	-1.1
DAU	55.74	301	eP	33	30.77	-0.2

LRM	55.82	308	eP	33	31.80	0.4
			e	34	42.00	
KAF	56.21	32	iP	33	32.50	-1.2
	0.7s	2.60nm			4.4mb	
YKA	56.49	328	eP	33	33.90	-1.8
	0.9s	3.00nm			4.3mb	
MLR	56.72	52	ePd	33	38.50	0.8
MSU	56.79	299	eP	33	38.67	0.3
DUG	56.95	301	eP	33	39.50	0.1
	1.1s	14.87nm			4.9mb	
			e	33	45.55	
VRI	57.21	52	eP	33	41.00	0.0
NEW	58.66	311	eP	33	50.25	-0.9
	0.9s	9.02nm			4.9mb	
MBC	59.34	344	eP	33	56.50	1.0
	1.0s	3.00nm			4.4mb	
OBN	62.02	40	iPd	34	13.20	-0.8
	1.0s	21.00nm			5.3mb	
Z	16s	0.10um			4.1MsZx	
			e	34	19.00	
			iPcP	35	24.10	
			i	35	30.90	
			LQ	52	44.00	
			LR	56	40.00	
LBFM	63.41	305	eP	34	23.28	-0.4
INK	63.96	336	eP	34	26.00	-0.7
	1.0s	3.00nm			4.4mb	
CRP	73.84	331	eP	35	26.46	-1.5
WRA	171.58	12	PKP	44	03.00	1.5
	0.7s	0.50nm				
	S.D. = 0.8	on 52 of 53 obs.				
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JAN 16, 1994 03h 25m 02.75± 0.29s						
28.337 N ± 6.9km 43.793 W ± 3.0km						
DEPTH = 10.0km (geophysicist)						
5.0mb ( 45 obs.) 4.5msz ( 1 obs.)						
NORTHERN MID-ATLANTIC RIDGE (403)						
MCWV	31.75	300	eP	31	29.14	0.0
	1.0s	12.48nm			4.8mb	
KDS	33.36	112	eP	31	49.00	5.7X
GOGA	34.28	289	eP	31	52.03	0.8
	1.1s	30.98nm			5.1mb	
MYNC	34.79	291	eP	31	56.61	1.0
	1.0s	33.47nm			5.2mb	
LPF	38.33	47	eP	32	25.50	0.3



16d 03h

BDFB	0.8s	9.40nm	4.7mb	CP2	73.82	331	eP	36	38.32	-0.9				iS	05	27.50					
	43.91	186	eP	33	10.56	-1.0		SVW	75.31	332	eP	36	47.09	-0.6		04	57.00	-1.6			
	0.8s	6.38nm	4.5mb						1.0s	30.75nm	5.3mb				KNA	8.54	182	eP			
ULM	44.78	314	eP	33	19.00	0.8		SLR	87.66	121	eP	37	46.00	-7.1X		0.2s	30.00nm	5.5mb X			
TNS	44.88	46	ePc	33	20.50	1.4		DZM	151.99	276	iPKPc	45	00.40	6.9X		eS	06	26.50			
MEO	46.65	292	iPc	33	33.40	0.2		WRA	171.47	12	PKP	45	14.20	1.4	WRA	13.67	159	P			
WMOK	46.81	292	eP	33	34.33	-0.2			0.9s	0.70nm						0.7s	0.50nm	05			
	1.0s	33.35nm	5.4mb					S.D. = 0.8	on	88	of	92	obs.		WB2	13.68	159	eP			
MOX	46.94	46	ePc	33	36.20	0.9										eS	06	01.70			
	1.9s	42.00nm	5.2mb												MBL	16.56	212	eP			
Z	20s	0.50um	4.5msz					& JAN 16, 1994	04h 09m 42.99s							eS	06	43.00			
TRI	48.07	53	eP	33	45.80	1.6		59.350 N	152.630 W						QIS	16.74	144	eP			
LJU	48.61	52	eP	33	49.00	0.6		DEPTH = 76.3km								eS	09	35.00			
		i	33	54.00				SOUTHERN ALASKA		( 2 )					ASPA	17.04	165	iPc			
PTJ	49.60	52	e(P)	33	56.60	0.4		<AEIC>.								0.6s	19.10nm	4.6mb			
RSSD	50.01	305	eP	33	59.25	-0.3		AUE	0.38	272	eP	09	54.91	-0.6		eS	09	47.70			
	1.2s	9.82nm	4.7mb					AUP	0.41	272	(P)	09	54.18	-1.7		i	10	10.10			
LPAZ	50.23	211	eP	34	01.24	-0.6		AUI	0.41	268	eP	09	55.19	-0.6	WARB	19.06	187	eP			
	0.9s	17.06nm	5.0mb					AUL	0.41	275	eP	09	55.43	-0.4	GUN	54.41	312	P			
GOL	51.38	300	eP	34	10.02	-0.1		AUH	0.42	272	eP	09	55.46	-0.5		0.4s	11.00nm	5.0mb			
	1.3s	22.18nm	4.9mb					AUW	0.43	273	eP	09	55.43	-0.5	PKI	54.58	311	P			
LTX	51.94	286	eP	34	13.06	-1.2		OPT	0.43	315	eP	09	55.37	-0.6	KKN	54.79	311	P			
RES	52.97	345	eP	34	21.50	0.4				eS	10	05.11			0.4s	6.00nm	4.8mb				
	1.0s	5.00nm	4.4mb					XLV	0.48	77	eP	09	55.51	-0.8	DMN	54.82	311	P			
ALQ	53.00	294	eP	34	22.83	0.6		HOM	0.59	58	eP	09	57.11	-0.3	GKN	55.38	311	P			
	1.3s	39.66nm	5.2mb							eS	10	07.06			0.4s	8.00nm	4.9mb				
OHR	53.48	58	eP	34	39.50	14.1X		CDD	0.67	232	eP	09	57.16	-1.1	S.D. = 0.9	on	13	of	15	obs.	
PV08	54.07	299	(P)	34	30.30	0.2		CNPM	0.73	75	eP	09	58.31	-0.7		JAN 16, 1994	05h 14m 32.30±	0.74s			
BW06	54.13	304	eP	34	29.51	-0.9		ILIM	0.75	347	iP	09	58.56	-0.6		40.321 N ±10.3km	76.007 W ± 7.5km				
	0.9s	41.23nm	5.5mb							eS	10	10.47			DEPTH = 5.0km	(geophysicist)					
PV10	54.41	299	eP	34	32.82	0.3		SYI	0.75	170	eP	09	58.25	-0.9	PENNSYLVANIA		(473)				
PV09	54.46	299	eP	34	32.65	-0.3				eS	10	09.47			mbLg 2.9 (GS).						
VAY	54.77	58	eP	34	33.00	-1.9		PDB	0.91	300	iP	10	00.10	-0.9							
SRU	55.42	300	eP	34	39.56	-0.3				eS	10	13.01			GPD	1.37	59	iPc	14	57.49	-0.5
EMUT	55.52	301	eP	34	40.66	0.1		RED	1.07	356	eP	10	02.52	-0.6		eS	15	16.32			
DAU	55.74	301	eP	34	42.38	0.1				eS	10	17.78			PAL	1.74	66	iPd	15	03.58	0.3
KAF	56.09	32	eP	34	42.00	-2.1		RS2	1.12	357	eP	10	03.18	-0.6		S	15	26.91			
	1.0s	9.60nm	4.8mb					RDW	1.14	356	eP	10	03.53	-0.5	CBN	2.36	207	eP	15	41.50	29.1X
YKA	56.45	328	eP	34	45.00	-1.7		REF	1.14	358	eP	10	03.57	-0.5	LSCT	2.50	56	eP	15	14.36	0.0
	1.1s	10.20nm	4.8mb					REF	1.14	358	eP	10	03.52	-0.6		eS	15	46.05			
HVU	56.64	303	eP	34	48.06	-0.5				eS	10	19.17			YSNY	2.87	319	(Pn)	15	18.82	-0.8
MSU	56.80	299	eP	34	50.24	0.4		NCT	1.23	353	eP	10	04.54	-0.5		eS	15	53.53			
DUG	56.96	301	eP	34	50.72	-0.1		NKA	1.56	26	eP	10	10.80	1.4	CVL	3.02	220	eP	15	21.12	-0.5
	1.1s	49.17nm	5.5mb				KDC	1.61	177	P	10	08.70	-1.3		eS	15	57.60				
		e	34	56.27			SLKM	1.68	45	eP	10	10.07	-0.9	MCWV	3.02	259	eP	15	22.61	0.9	
TUC	57.12	292	eP	34	52.94	1.0		BKG	1.74	6	eP	10	11.59	-0.2		eS	16	03.69			
ARUT	57.93	299	eP	34	57.90	0.3		SEW	1.78	63	eP	10	11.94	-0.4	RSNY	4.36	14	(P)	15	41.34	0.6
NEW	58.65	311	eP	35	01.87	-0.5		SPU	1.86	9	eP	10	13.11	-0.4	LBNH	4.95	36	(P)	15	53.10	4.0X
	1.2s	49.86nm	5.5mb				CKT	1.87	6	eP	10	13.50	-0.1		eS	17	01.98				
MBC	59.27	344	eP	35	08.00	1.7		CKN	1.89	7	eP	10	13.96	0.0	CEH	5.05	210	(P)	15	48.50	-2.0X
	1.0s	5.00nm	4.6mb				BGL	1.92	3	eP	10	14.51	0.1		eS	16	46.73				
LNOR	59.84	309	P	35	10.20	-0.5		CP2	1.93	6	eP	10	13.45	-1.2	S.D. = 0.8	on	7	of	10	obs.	
TPNV	60.30	298	eP	35	14.90	0.8		CRP	1.94	7	eP	10	13.81	-0.9		JAN 16, 1994	05h 28m 09.84±	0.61s			
	1.0s	16.99nm	5.1mb				MPA	2.00	54	eP	10	14.66	-0.7		40.293 N ± 4.5km	29.654 E ± 5.5km					
WTV	60.62	311	P	35	14.31	-1.7		NCG	2.07	6	eP	10	16.57	0.1		DEPTH = 10.0km	(geophysicist)				
TNP	60.76	300	eP	35	17.13	-0.1		SVW	2.31	321	eP	10	18.05	-1.6	TURKEY		(366)				
	1.1s	12.00nm	4.9mb				SUA	2.32	23	eP	10	20.14	0.3		ML 2.9 (ISK).						
GSC	61.16	297	eP	35	20.20	0.3		PWL	2.63	53	eP	10	22.66	-1.4	IZI	0.14	288	iPg	28	13.50	0.2
EBG	61.18	310	P	35	19.93	0.1		PWA	2.68	29	P	10	24.70	0.0	EYL	0.47	55	iPg	28	19.50	0.1
KVN	61.19	301	eP	35	19.76	-0.4		SKT	2.69	11	eP	10	24.59	-0.4		eSg	28	28.00			
PEC	61.84	295	eP	35	24.67	0.2		PLRM	2.84	36	eP	10	26.41	-0.5	GBZT	0.52	342	ePg	28	20.80	0.4
	1.2s	24.92nm	5.3mb				PMR	2.84	36	eP	10	26.14	-0.8		eSg	28	28.80				
CROR	61.88	308	P	35	24.78	0.1		KNK	2.93	43	eP	10	26.87	-1.3	HRT	0.53	1	iPg	28	20.00	-0.5
VBEM	62.28	309	P	35	26.53	-0.9		CFI	3.04	51	eP	10	28.17	-1.5	ISK	0.89	330	ePg	28	27.10	0.1
CMB	63.18	301	ePc	35	34.20	0.9		GHO	3.04	35	eP	10	29.47	-0.4		eSg	28	40.10			
	1.6s	40.00nm	5.4mb				SML	3.25	39	eP	10	31.78	-1.0	DST	1.05	229	ePg	28	29.90	0.3	
LMEM	63.39	304	eP	35	35.31	0.5		HIN	3.26	69	eP	10	31.70	-1.2		eSg	28	42.70			
LBFM	63.41	305	eP	35	35.07	0.1		CUT	3.28	20	eP	10	32.69	-0.3	CTT	1.26	313	iPn	28	33.60	0.3
MIN	63.47	303	eP	35	34.95	-0.4		FID	3.39	63	eP	10	32.94	-1.7	ALT	1.29	164	ePn	28	33.80	0.0
	1.2s	40.00nm	5.5mb				VZW	3.48	58	eP	10	34.24	-1.7	EDC	1.37	273	ePn	28	34.00	-1.0	
ORV	63.60	303	eP	35	35.74	-0.3		VLZ	3.61	58	eP	10	37.29	-0.4	S.D. = 0.5	on	9	of	9	obs.	
	1.4s	40.00nm	5.4mb				CVA	3.66	68	eP	10	36.97	-1.4		* JAN 16, 1994	05h 29m 08.39±	1.21s				
PHAM	63.82	298	(P)	35	38.96	1.4		KLU	3.96	54	eP	10	40.40	-2.2		34.212 N ±12.8km	137.884 E ±11.2km				
INK	63.90	336	eP	35	37.00	-0.6									DEPTH = 281.7 ± 9.8 km						
	1.0s	6.00nm	4.7mb												4.5mb ( 16 obs.)						
ARN	64.25	300	eP	35	40.67	0.3									NEAR S. COAST OF HONSHU, JAPAN		(230)				
BALM	69.59	329	eP	36	11.80	-2.1		BANDA SEA			(280)				MAT	2.34	6	iPc	29	56.70	-0.2
FBA	70.36	334	eP	36	17.74	-0.6									eS	30	31.00				
	1.0s	11.60nm	5.0mb					SLKI	2.30	111	iPc	03	37.20	0.8	SNY	13.59	308	iPd	32	12.90	1.2
KLU	71.01	330	eP	36	21.78	-0.7									1.0s	84.00nm	5.0mb				
		e	36	27.38				TLE	3.91	67	iPd	03	56.90	0.1		eS	32	1			



16d 05h

BJI 18.25 295 eP 33 01.50 -1.9  
1.0s 7.00nm 4.1mb  
TIY 20.87 287 eP 33 29.50 -0.2  
HHC 21.85 295 P 33 41.20 2.0  
1.0s 45.00nm 4.8mb  
BTO 22.98 294 eP 33 49.20 -0.8  
XAN 23.95 278 P 33 58.40 -0.6  
1.0s 18.00nm 4.5mb  
LZH 27.82 284 eP 34 33.00 -1.1  
1.5s 21.00nm 4.5mb  
CD2 28.87 273 iPd 34 42.80 -0.6  
0.7s 38.00nm 5.1mb  
WMQ 39.63 299 P 36 15.00 0.5  
PKI 45.11 276 P 36 59.40 0.2  
0.4s 9.00nm 4.5mb  
KKN 45.13 277 P 36 59.80 0.6  
0.6s 19.00nm 4.6mb  
DMN 45.34 277 P 37 01.40 0.5  
GKN 45.58 277 P 37 03.20 0.5  
0.6s 21.00nm 4.6mb  
WRA 53.96 184 P 38 05.70 0.1  
0.6s 4.30nm 4.1mb  
GBA 58.11 265 Pd 38 35.20 0.1  
0.6s 2.00nm 3.9mb  
KAF 69.47 332 iP 39 47.10 -0.8  
0.4s 5.70nm 4.7mb  
NUR 71.06 331 iP 39 56.70 -0.7  
0.3s 11.80nm 5.1mb  
HFS 75.44 335 eP 40 21.80 -0.8  
0.4s 1.70nm 4.1mb  
Z 17s 0.04um 3.8mszX  
LR 17 41.00  
CLL 82.06 329 iP 40 58.60 0.3  
GEC2 83.54 327 P 41 06.20 0.2  
0.6s 2.12nm 4.1mb  
GRF 84.02 328 ePKP 41 09.60 1.3  
S.D. = 0.9 on 24 of 24 obs.  
? JAN 16, 1994 07h 13m 30.96± 1.18s  
31.511 S ± 29.8km 68.702 W ± 28.9km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)  
RTCB 0.09 286 iPd 13 45.00 -0.5  
S 13 55.70  
RTLL 0.27 48 iPd 13 46.00 0.1  
RTCV 0.38 158 iPd 13 46.00 -0.2  
RTPR 2.24 58 eP 14 07.00 -0.1  
S 14 34.00  
S.D. = 0.4 on 4 of 4 obs.  
JAN 16, 1994 07h 43m 19.46± 0.60s  
46.314 N ± 8.7km 13.102 E ± 7.6km  
DEPTH = 5.0km (geophysicist)  
AUSTRIA (546)  
MD 3.3 (LJU), 2.7 (TRI).  
VOY 0.62 117 iPg 43 30.60 -1.2  
eSg 43 40.50  
TRI 0.76 142 ePg 43 32.60 -2.1  
iSg 43 43.70  
KBA 0.78 12 iPg 43 34.00 -1.3  
iSg 43 45.10  
LJU 1.03 105 ePg 43 40.00 0.6  
0.3s 40.00nm  
iSg 43 54.00  
iSg 43 54.90  
CEY 1.09 121 ePg 43 41.80 1.4  
0.4s 80.00nm  
eSg 43 56.50  
SCE 1.20 308 iPg 43 41.50 -0.9  
RIY 1.32 137 iPn 43 44.30 0.0  
iSn 44 03.40  
WTTA 1.38 314 iPg 43 45.50 -0.1  
iSg 44 03.10  
BHG 1.42 354 ePg 43 49.60 3.7X  
WATA 1.46 315 iPg 43 46.80 0.1  
iSg 44 05.60  
OGA 1.54 292 iPd 43 48.80 1.0  
SQTA 1.59 306 iPg 43 48.60 0.2  
i 44 13.30  
VBY 1.71 118 iPnd 43 51.60 1.6  
iSn 44 15.30  
PTJ 2.03 101 i(Pn) 43 57.30 2.5X  
iSn 44 24.00  
KHC 2.84 6 Pn 44 07.00 0.7  
Pg 44 17.00

eSn 44 41.50  
eSg 44 49.00  
PRU 3.80 14 ePg 44 42.20 22.3X  
eSn 45 05.30  
Sg 45 18.20  
S.D. = 1.2 on 13 of 16 obs.  
? JAN 16, 1994 09h 03m 54.35± 1.56s  
31.759 S ± 33.2km 68.282 W ± 38.5km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)  
CFA 0.16 14 ePc 04 09.00 0.1  
S 04 20.20  
RTCV 0.24 245 iPd 04 09.10 -0.1  
S 04 21.00  
RTLL 0.46 339 eP 04 10.00 -0.1  
S 04 22.00  
RTCB 0.52 301 eP 04 10.70 0.1  
S 04 23.20  
S.D. = 0.2 on 4 of 4 obs.  
JAN 16, 1994 09h 17m 16.72± 0.71s  
40.417 N ± 6.2km 21.866 E ± 6.0km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 1.5 (THE).  
FNA 0.52 315 ePg 17 26.04 -1.2  
LIT 0.57 123 ePg 17 28.24 0.0  
eSg 17 38.64  
GRG 0.68 37 ePg 17 29.52 -0.7  
VAY 1.05 30 ePn 17 38.50 1.6  
OHR 1.07 311 ePn 17 36.30 -1.0  
KNT 1.08 46 ePg 17 37.16 -0.3  
SOH 1.20 70 ePg 17 38.80 -0.8  
AGG 1.44 165 ePb 17 43.12 -0.4  
IGT 1.47 234 ePb 17 44.84 0.9  
SKO 1.59 348 ePn 17 47.50 2.0  
e 18 10.00  
e 18 20.00  
S.D. = 1.3 on 10 of 10 obs.  
% JAN 16, 1994 09h 39m 29.19± 1.31s  
26.893 S ± 8.7km 26.757 E ± 14.6km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
BFS 0.03 102 eP 39 29.00 -1.5  
S 39 29.30  
KSR 1.03 7 eP 39 49.00 -0.3  
S 40 04.50  
SEK 1.62 152 eP 40 00.10 1.5  
S 40 22.00  
SLR 1.79 50 eP 40 01.50 0.4  
S 40 23.00  
BLF 2.26 193 eP 40 07.00 -1.0  
S 40 35.00  
S.D. = 1.6 on 5 of 5 obs.  
\* JAN 16, 1994 10h 18m 40.06± 0.45s  
20.365 S ± 12.8km 175.376 W ± 6.1km  
DEPTH = 33.0km (normal)  
4.8mb ( 8 obs.) 5.0msz ( 1 obs.)  
TONGA ISLANDS (173)  
Mw 5.4 (HRV).  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 39S, 76C  
Centroid Location:  
Origin Time 10:18:39.9 0.3  
Lat 20.67S 0.04 Lon 175.24W 0.03  
Dep 15.0 FIX Half-duration 1.5  
Moment Tensor; Scale 10\*\*17 Nm  
Mrr= 1.34 0.03 Mtt=-0.68 0.04  
Mff=-0.66 0.04 Mrt= 0.45 0.13  
Mrf= 0.34 0.12 Mtf= 0.41 0.03  
Principal Axes:  
T Val= 1.51 Plg=73 Azm=320  
N -0.43 17 132  
P -1.08 2 223  
Best Double Couple: Mo=1.3\*10\*\*17  
NP1: Strike=330 Dip=45 Slip= 115  
NP2: 117 50 67  
SVA 6.24 290 eP 20 12.60 0.3  
VUN 6.28 291 eP 20 13.60 0.8

AFI 7.28 29 eP 20 28.00 1.0  
eS 22 16.00  
BKM 15.72 277 iPc 22 30.50 9.7X  
DZM 17.04 261 iPc 22 39.00 1.4  
CTA 35.95 264 P 25 37.90 -1.9  
ASPA 46.95 256 eP 27 05.00 -4.9X  
0.9s 9.80nm 4.8mb  
Z 19s 1.60um 5.0msz  
WB2 47.04 261 eP 27 04.90 -5.7X  
0.7s 4.10nm 4.5mb  
e 28 38.50  
WRA 47.05 261 P 27 05.69 -5.0X  
ABL 76.53 45 eP 30 29.51 0.4  
PLM 77.24 47 eP 30 32.73 -0.3  
PEC 77.34 46 eP 30 33.34 -0.1  
1.1s 12.78nm 4.9mb  
GSC 78.40 45 eP 30 39.24 0.0  
GLA 78.48 48 eP 30 39.93 0.2  
LBFM 78.89 38 (P) 30 41.49 -0.5  
BONR 78.97 43 eP 30 42.81 0.2  
TPNV 79.71 44 eP 30 47.26 0.8  
0.6s 4.57nm 4.7mb  
TUC 80.97 51 eP 30 54.62 1.5  
ARUT 82.03 45 eP 30 59.88 1.2  
VGB 82.17 35 (P) 30 56.81 -2.2  
RMW 82.88 33 eP 31 02.71 0.0  
MSU 83.26 45 eP 31 05.15 0.1  
CP2 83.45 11 eP 31 03.99 -1.5  
TTA 84.41 9 eP 31 05.42 -4.7X  
1.6s 13.83nm 4.9mb  
HVV 84.65 42 eP 31 12.21 0.3  
SRU 84.67 45 eP 31 12.36 0.2  
LTX 84.92 56 eP 31 13.81 0.4  
DPW 85.03 35 (P) 31 13.86 0.4  
PV09 85.29 46 eP 31 14.84 -0.5  
PV10 85.29 46 eP 31 14.84 -0.5  
e 31 48.59  
ALQ 85.41 50 eP 31 16.19 0.3  
1.2s 16.84nm 5.1mb  
PV08 85.66 46 eP 31 16.67 -0.6  
RSSD 91.36 43 eP 31 43.60 -0.5  
1.0s 13.09nm 5.3mb  
INK 93.52 14 eP 31 53.00 -0.2  
YKA 95.37 24 eP 32 00.70 -1.1  
0.9s 1.20nm 4.3mb  
LPB 99.76 112 (P) 32 24.00 0.7  
LPAZ 99.83 111 P 32 25.00 1.1  
LR 05 33.00  
EKA 144.60 8 PKP 38 13.00 -1.5  
0.9s 9.10nm  
DCN 145.83 13 ePKP 38 19.00 2.3X  
DLF 146.02 12 ePKP 38 19.00 2.0X  
CLL 148.42 350 ePKP 38 25.00 4.1X  
BRG 148.68 349 ePKP 38 24.20 2.8X  
MOX 149.28 351 ePKP 38 26.80 4.5X  
2.3s 78.00nm  
PRU 149.41 347 ePKP 38 24.50 2.0X  
GRF 150.27 351 e(PKP) 38 28.90 5.0X  
DOU 150.33 0 PKPc 38 30.90 7.0X  
KHC 150.42 348 ePKP 38 24.00 -0.1  
1.0s 8.60nm  
e 38 28.50  
e 38 34.50  
GEC2 150.67 348 PKP 38 24.70 0.1  
0.9s 0.45nm  
GEC2 150.67 348 PKP 38 28.30 3.7X  
0.9s 3.78nm  
e 38 34.10  
e 38 41.00  
GRR 151.70 8 ePKP 38 33.10 7.1X  
CDF 151.94 356 ePKP 38 31.10 4.6X  
1.1s 8.80nm  
LPF 152.02 8 ePKP 38 33.90 7.4X  
1.0s 35.00nm  
HAU 152.39 358 ePKP 38 32.60 5.5X  
Z 23s 0.25um 5.0mszX  
BSF 152.54 357 ePKP 38 32.10 4.7X  
LJU 153.13 345 ePKP 38 34.00 5.9X  
e 38 43.00  
SSF 153.36 2 ePKP 38 34.90 6.5X  
1.3s 20.95nm  
S.D. = 0.9 on 35 of 56 obs.  
% JAN 16, 1994 10h 40m 07.41± 1.00s  
44.377 N ± 6.3km 7.186 E ± 9.2km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)



16d 10h

ML 2.1 (GEN).						* JAN 16, 1994 11h 46m 33.57± 0.37s 8.708 S ± 5.8km 127.313 E ± 7.9km DEPTH = 28.4km ( 2 depth phases) 4.8mb ( 10 obs.) 4.3MsZ ( 1 obs.) TIMOR REGION, INDONESIA (289)						HYB 54.73 298 eP 56 02.00 -1.2 GKN 55.08 313 P 56 04.80 -0.9 WMQ 63.42 329 P 57 01.40 -1.6 YAK 70.53 1 eP 57 47.60 0.1 MAIO 77.71 310 eP 58 28.00 -1.7 YKA 110.44 26 ePKP 05 03.90 -0.6 0.5s 0.70nm GEC2 111.99 319 PKP 05 10.60 2.6X 0.8s 0.37nm e 05 22.30 GEC2 111.99 319 ePKP 05 18.10 10.1X 0.6s 0.40nm GEC2 111.99 319 PKP 05 15.50 7.5X 0.6s 0.41nm e 05 24.60 e 05 27.90 GEC2 111.99 319 PKP 05 12.00 4.0X 0.9s 0.53nm MSU 119.15 51 ePKP 05 24.59 2.4 e 05 29.87 BW06 119.97 45 (PKP) 05 24.79 1.1 PV10 121.57 50 ePKP 05 28.82 2.0 RSSD 123.30 42 ePKP 05 30.41 0.5 ULM 125.32 33 ePKP 05 35.00 1.7 LKO 133.52 275 PKP 05 52.20 2.1 0.6s 3.50nm MOCB 147.63 157 PKP 06 19.10 3.5X LPB 150.65 149 PKP 06 26.00 5.7X LPBZ 150.84 148 PKP 06 28.00 7.2X SIV 154.09 161 PKP 06 30.70 6.0X S.D. = 1.6 on 49 of 71 obs.						
PZZ	0.14	335	P	40 10.45	0.0	SLKI	4.01	80	ePc	47 34.50	-0.1	& JAN 16, 1994 12h 02m 53.64s 58.965 N 153.911 W DEPTH = 93.4km KODIAK ISLAND REGION ( 13) <AEIC>.	CDD	0.14	104	eP	03 06.34	0.8
STV	0.17	143	P	40 10.95	0.1	AAI	5.06	10	eP	47 51.50	1.9		AUI	0.45	34	eP	03 07.62	-0.9
ENR	0.23	132	P	40 12.27	0.2	MTN	5.57	138	eP	47 54.20	-2.5					eS	03 16.78	
BHB	0.47	7	P	40 16.77	0.0	TLE	6.20	61	ePd	48 03.10	-2.5		AUW	0.47	29	eP	03 08.04	-0.6
ROB	0.50	99	P	40 17.67	0.3	KNA	7.14	169	iPd	48 16.90	-1.9		AGU	0.47	32	eP	03 08.02	-0.8
IMI	0.69	132	P	40 20.80	-0.4	0.3s	104.00nm			6.3mb X			AUH	0.47	31	eP	03 07.99	-0.8
FIN	0.75	103	P	40 22.53	0.0	MKS	8.52	293	iPd	48 46.00	7.9X		AUP	0.47	32	eP	03 08.29	-0.6
PCP	0.99	80	P	40 32.97	0.0	SWI	8.73	27	ePd	48 41.50	0.5		AUE	0.48	35	eP	03 08.19	-0.6
			S	40 26.44	-0.2				eS	50 20.00			AUL	0.49	30	eP	03 08.61	-0.2
			S	40 39.54		WB2	13.08	149	iPc	49 32.50	-7.7X		OPT	0.77	27	eP	03 10.64	-0.8
S.D. = 0.3 on 8 of 8 obs.									iS	51 48.80					eS	03 23.83		
						MBL	14.33	209	eP	49 54.00	-2.6		BGM	0.80	303	eP	03 10.98	-0.8
* JAN 16, 1994 10h 55m 29.46± 1.29s 32.648 S ± 6.7km 72.165 W ± 13.6km DEPTH = 33.0km (normal) OFF COAST OF CENTRAL CHILE (134) MD 4.0 (SAN).						DAV	15.79	354	eP	50 29.00	13.4X		PDB	0.84	350	eP	03 10.97	-1.1
IHA	0.58	131	e(P)	55 42.50	1.3	CTB	16.10	349	ePc	50 35.00	15.3X				eS	03 25.08		
LCCH	0.97	149	iP+	55 46.88	0.2	ASPA	16.16	158	iPc	50 14.40	-6.0X		SYI	0.87	114	eP	03 11.04	-1.3
ROCH	1.02	109	iP+	55 47.44	-0.3	0.5s	55.60nm			4.9mb			ILIM	1.22	23	eP	03 15.12	-1.4
JACH	1.33	92	iP+	55 51.80	-0.1	WARB	17.39	182	eP	50 33.20	-2.7		XLV	1.23	65	eP	03 15.30	-1.3
PEL	1.34	112	iPd	55 52.13	0.1	0.5s	10.00nm			4.2mb			HOM	1.36	58	eP	03 17.00	-1.1
TACH	1.44	135	iP	55 53.16	-0.3	KKM	18.36	323	eP	51 01.50	13.4X				eS	03 35.20		
LNK	1.45	154	eP	55 52.93	-0.6	MAP	19.19	350	eP	51 08.00	9.9X		KDC	1.43	148	eP	03 17.11	-1.9
SAN	1.50	123	iP	55 54.64	0.3	PMG	19.61	94	eP	51 02.00	-0.9				eS	03 36.81		
PCH	1.69	125	iPd	55 56.98	-0.2	LAT	19.62	85	eP	51 15.50	12.6X		CNPM	1.49	67	eP	03 17.99	-1.8
FCH	1.72	114	iPd	55 57.38	-0.4	MEEK	19.65	204	eP	51 03.20	-0.1				eS	03 36.84		
CHCH	1.80	136	iPd	55 58.63	-0.1	FORT	21.97	178	eP	51 28.00	1.0		RSO	1.61	21	eP	03 20.27	-1.3
CACH	1.97	139	iPd	56 01.41	0.2	0.6s	40.00nm			5.0mb					eS	03 40.65		
LPBZ	16.69	14	P	59 23.20	0.1	COOL	22.80	194	eP	51 36.50	1.2		RS2	1.61	21	eP	03 20.32	-1.3
S.D. = 0.5 on 13 of 13 obs.						PGP	22.95	344	eP	51 37.50	0.7		RDW	1.62	20	eP	03 20.40	-1.3
						MRWA	23.01	206	eP	51 39.00	1.8		REF	1.65	21	iP	03 20.67	-1.4
* JAN 16, 1994 11h 18m 28.37± 1.08s 40.982 N ± 16.3km 29.249 E ± 13.4km DEPTH = 10.0km (geophysicist) TURKEY (366) ML 3.0 (ISK).						BAL	23.93	203	eP	51 48.00	1.8				eS	03 41.50		
ISK	0.17	300	iPg	18 32.20	0.0	KLB	24.44	200	eP	51 53.50	2.3		NCT	1.68	17	eP	03 21.01	-1.3
GBZT	0.24	142	ePg	18 33.80	0.3	MUN	25.35	202	eP	52 01.50	1.7		BRLK	1.74	61	eP	03 21.02	-2.1
IZI	0.67	165	iPg	18 41.40	-0.3	BAG	25.83	345	ePc	52 07.00	2.4				eS	03 42.18		
EYL	0.81	121	iPg	18 43.50	-0.6	NWAO	25.84	200	eP	52 07.10	2.7X		DFR	1.75	20	eP	03 21.82	-1.4
GPA	1.06	130	iPg	18 49.00	0.6	STK	26.60	152	iPd	52 10.50	-0.9				eS	03 43.45		
S.D. = 0.6 on 5 of 5 obs.						0.6s	8.40nm			4.5mb		NKA	2.24	36	eP	03 29.18	-0.4	
									iS	57 07.90		BKG	2.27	21	eP	03 28.73	-1.4	
? JAN 16, 1994 11h 43m 25.49± 4.59s 10.800 N ± 20.2km 62.427 W ± 49.3km DEPTH = 100.0km (geophysicist) NEAR COAST OF VENEZUELA (97) MD 3.1 (TRN).						IPM	29.35	296	ePc	52 41.80	5.3X		SVW	2.32	339	eP	03 28.89	-1.9
TCE	0.67	99	eP	43 41.80	-1.1	ARMA	31.35	137	eP	52 54.90	0.7		CKT	2.40	20	eP	03 30.31	-1.6
TRN	1.02	98	iPd	43 46.99	0.6	BWA	32.11	146	e(P)	53 15.10	14.4X		SPU	2.41	22	eP	03 30.30	-1.8
TPP	1.07	117	eP	43 46.90	-0.1	CAN	33.09	146	e(P)	53 10.40	1.1		SLKM	2.43	49	eP	03 29.51	-2.7
TBH	1.37	103	eP	43 51.55	1.0	TOO	33.11	153	eP	53 14.70	5.3X		BGL	2.43	18	eP	03 31.02	-1.3
GRW	1.55	29	eP	43 53.18	0.4	1.0s	39.00nm			5.3mb			CP2	2.45	19	eP	03 31.22	-1.6
BOT	1.72	78	eP	43 53.99	-0.9	NST	36.22	312	eP	53 37.00	0.9		CRP	2.47	20	eP	03 30.68	-2.3
S.D. = 1.1 on 6 of 6 obs.						BDT	38.05	313	iPc	53 51.00	-0.6				eS	04 00.50		
						1.1s	56.60nm			5.3mb								
						CHTO	39.12	314	eP	54 01.00	0.4		CGLM	2.54	21	eP	03 32.06	-1.7
						DZM	39.87	114	iPc	54 08.40	1.6		SEW	2.54	61	eP	03 30.60	-3.2
						GYA	40.30	331	P	54 12.20	1.9		NCG	2.60	19	eP	03 33.22	-1.5
						1.0s	11.00nm			4.6mb								
						NJ2	41.33	349	eP	54 22.00	3.5X							
						CD2	45.41	331	eP	54 51.00	-0.7							
						XAN	45.95	339	P	54 54.00	-2.0							
						1.0s	7.10nm			4.6mb								
						MAT	46.16	12 (P)	55 05.00	7.5X								
						BJI	49.58	349	eP	55 25.00	0.8							
						Z 18s	0.30um			4.3MsZ								
						N 14s	0.48um											
						LZH	49.73	335	eP	55 23.50	-2.1							
						1.5s	21.00nm			4.9mb								
						Z 16s	0.44um			4.6MsZ								
									pP	55 32.50	30km							
									sP	55 41.00								
						KOD	53.06	290	eP	55 53.00	1.7							
						GUN	54.13	314	P	55 56.80	-2.2							
						GBA	54.25	294	P	55 59.00	-0.5							
						GTA	54.25	334	eP	55 58.30	-1.1							
						1.0s	4.00nm			4.4mb								
									pP	56 06.50	27km							
									sP	56 09.50								
						PKI	54.27	313	P	55 59.00	-1.0							
						KKN	54.49	313	P	56 00.00	-1.5							
						DMN	54.51	313	P	55 59.80	-1.9							



16d 12h

MPA	2.77	54	eP	03 34.13	-2.7
SUA	2.96	31	eP	03 38.12	-1.5
			eS	04 12.60	
SKT	3.25	20	eP	03 41.39	-2.1
			eS	04 19.23	
MTU	3.35	70	eP	03 42.24	-2.7
PWA	3.36	35	P	03 42.70	-2.2
PWL	3.39	54	eP	03 42.04	-3.4
PLRM	3.55	40	eP	03 44.39	-3.2
PMR	3.55	40	eP	03 44.26	-3.3
KNK	3.67	46	eP	03 46.04	-3.2
GHO	3.75	39	eP	03 47.85	-2.6
CFI	3.80	52	eP	03 47.48	-3.5
CUT	3.89	26	eP	03 49.55	-2.7
SML	3.97	42	eP	03 50.40	-3.1
HIN	4.02	66	eP	03 50.52	-3.6
TTA	4.11	346	eP	03 53.11	-2.3
FID	4.15	61	eP	03 51.33	-4.6
VZW	4.25	57	eP	03 53.29	-4.0
VLZ	4.38	57	eP	03 55.47	-3.5
CVA	4.42	66	eP	03 55.64	-4.0
HUR	4.53	26	eP	03 58.81	-2.4
KLU	4.72	54	eP	03 59.92	-3.9
TRF	4.83	20	eP	04 02.47	-3.0
RAGM	4.89	69	eP	04 02.70	-3.5
TOA	4.95	47	P	04 04.10	-2.9
RND	5.08	27	eP	04 05.66	-3.2
HMT	5.08	70	eP	04 05.37	-3.5
DHY	5.21	35	eP	04 07.20	-3.5
GLB	5.62	59	eP	04 12.24	-4.0
PAX	5.75	42	eP	04 15.53	-2.6
SNH	5.76	73	eP	04 15.06	-3.2
TGL	5.87	67	eP	04 15.90	-3.8
CYK	5.92	74	eP	04 17.38	-3.0
BALM	6.16	65	eP	04 19.56	-4.3
WRH	6.18	24	eP	04 19.71	-4.2
DDM	6.19	35	eP	04 22.51	-1.7
CCB	6.39	24	eP	04 22.42	-4.4
FBA	6.62	23	eP	04 25.51	-4.4
CTGM	6.63	67	eP	04 27.10	-3.2
ILB	6.70	27	eP	04 26.64	-4.5
GLM	6.78	24	eP	04 27.98	-4.3
BC3	7.18	50	eP	04 34.69	-3.1
PRP	7.65	27	eP	04 40.08	-4.2
BM3	9.46	22	eP	05 02.97	-5.8

79 obs. associated

? JAN 16, 1994 12h 18m 36.45± 4.31s  
37.475 N ± 43.3km 35.754 E ± 17.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.7 (BHL), 3.2 (CSS).

ADAT	0.52	218	iPgd	18 47.00	0.0
			eSg	18 54.90	
GAZ	1.20	104	iPg	18 58.80	0.0
			eSg	19 11.80	
BNN	1.37	4	ePn	19 16.50	14.8X
CSS	3.18	219	eP	19 27.50	0.0
			eS	20 06.00	
BHL	3.56	181	Pn	19 33.00	0.0
			Sn	20 18.00	

S.D. = 0.0 on 4 of 5 obs.

% JAN 16, 1994 12h 37m 30.99± 0.74s  
42.354 N ± 5.5km 19.377 E ± 5.7km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)  
ML 2.0 (TTG).

TTG	0.11	311	iPgc	37 35.13	1.3
			iSg	37 38.46	
ULC	0.40	194	iPgc	37 39.14	-0.1
			iSg	37 45.91	
BDV	0.41	260	iPgc	37 39.48	0.0
			iSg	37 46.23	
PVY	0.50	61	iPgc	37 41.16	-0.1
			iSg	37 49.28	
NKY	0.54	329	iPgd	37 41.32	-0.6
			iSg	37 50.14	
HCY	0.66	278	iPgc	37 43.75	-0.3
			iSg	37 53.88	
BRY	0.82	312	iPgc	37 46.72	-0.3
			iSg	37 59.46	
PLE	0.98	1	iPgc	37 49.63	0.0
			iSg	38 04.22	

S.D. = 0.6 on 8 of 8 obs.

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% JAN 16, 1994 13h 18m 33.67± 0.82s  
33.685 S ± 5.2km 70.680 W ± 6.6km  
DEPTH = 31.3 ± 8.5 km  
CHILE-ARGENTINA BORDER REGION (127)  
MD 3.4 (SAN).

PCH	0.15	65	iPd	18 39.67	-0.1
			iS	18 43.22	
TACH	0.22	278	iP+	18 40.37	0.1
			iS	18 44.58	
CHCH	0.25	175	iPd	18 40.57	-0.1
			iS	18 44.92	
CACH	0.44	171	iPd	18 43.58	0.2
			iS	18 50.92	
FCH	0.48	43	iP+	18 44.06	-0.1
			iS	18 51.21	
PEL	0.54	360	iP+	18 45.02	0.2
			iS	18 53.17	
LNV	0.67	246	iP+	18 46.47	-0.2
			iS	18 55.42	
ROCH	0.76	339	eP	18 48.33	0.0
			iS	18 59.16	
LCCH	0.77	285	iP	18 48.30	0.1
			iS	18 58.85	

S.D. = 0.2 on 9 of 9 obs.

? JAN 16, 1994 13h 44m 09.01± 6.02s  
33.769 S ± 14.3km 71.900 W ± 50.2km  
DEPTH = 33.0km (normal)  
NEAR COAST OF CENTRAL CHILE (135)  
MD 3.6 (SAN).

LCCH	0.40	43	iP+	44 17.84	-0.3
			iS	44 24.94	
LNV	0.45	115	iP+	44 18.46	-0.4
			iS	44 26.00	
TACH	0.81	82	iP+	44 23.37	-0.6
			iS	44 35.02	
CHCH	1.05	99	iP+	44 27.41	-0.1
			iS	44 42.14	
ROCH	1.09	43	iP	44 28.09	-0.1
			iS	44 42.75	
CACH	1.14	108	iP+	44 29.45	0.7
			iS	44 45.72	
PCH	1.17	83	iP+	44 29.05	-0.1
			iS	44 44.17	
PEL	1.19	59	eP	44 30.17	0.7
			iS	44 46.23	
FCH	1.41	72	iPd	44 33.25	0.3
			eS	44 51.44	

S.D. = 0.5 on 9 of 9 obs.

% JAN 16, 1994 14h 11m 15.50± 1.02s  
42.973 N ± 8.9km 18.733 E ± 6.4km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)  
ML 1.5 (TTG).

BRY	0.16	243	iPgc	11 19.50	0.3
			iSg	11 22.13	
NKY	0.25	129	iPgc	11 21.24	0.3
			iSg	11 25.82	
HCY	0.55	198	iPgd	11 26.47	-0.3
			iSg	11 34.53	
PLE	0.60	53	iPgd	11 27.45	-0.3
			iSg	11 36.32	
TTG	0.67	144	iPgd	11 28.19	-0.6
			iSg	11 38.95	
PVY	0.99	112	iPgc	11 34.77	0.4
			iSg	11 49.62	

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

? JAN 16, 1994 14h 22m 38.39± 2.23s  
26.403 N ± 34.7km 89.119 E ± 7.3km  
DEPTH = 33.0km (normal)  
3.9mb ( 1 obs.)  
INDIA-BANGLADESH BORDER REGION (315)  
ML 4.1 (BJI).

GUN	3.25	298	P	23 28.60	0.0
PKI	3.51	290	P	23 32.40	0.1
KKN	3.69	293	P	23 34.40	-0.3
LSA	3.74	28	Pn	23 35.40	-0.2
			Pg	23 41.60	
			Sn	24 23.00	
DMN	3.78	289	P	23 36.20	0.3

GKN	4.30	293	P	23 43.00	-0.3
NDI	10.80	285	eP	25 09.00	-4.9X
HYB	13.26	230	eP	26 02.00	15.0X
POO	16.13	244	eP	26 33.50	9.1X
GBA	16.80	223	P	26 44.00	11.3X
			S	29 42.00	
WMQ	17.42	357	eP	26 43.60	3.1X
XAN	18.71	61	P	26 55.00	-1.5
	1.0s		8.90nm		3.9mb
TIY	22.69	54	Pc	27 38.00	-0.3
HHC	23.51	47	P	27 48.60	2.3

S.D. = 1.1 on 9 of 14 obs.

? JAN 16, 1994 14h 50m 15.46± 1.35s  
39.705 N ± 9.7km 29.659 E ± 22.8km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

IZI	0.65	347	iPg	50 28.00	-0.5
			eSg	50 37.80	
ALT	0.74	152	ePg	50 30.00	0.0
			eSg	50 41.00	
YLV	0.89	346	ePn	50 33.00	0.5
EYL	0.94	24	ePn	50 33.50	0.0

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

\* JAN 16, 1994 15h 03m 21.32± 1.08s  
53.515 N ± 22.6km 170.191 W ± 12.1km  
DEPTH = 33.0km (normal)  
4.2mb ( 7 obs.)  
FOX ISLANDS, ALEUTIAN ISLANDS ( 9)

ADK	4.27	250	eP	04 24.56	-1.1
			eS	05 11.79	
SDN	5.95	68	(P)	04 50.84	1.5
PMR	13.85	46	(P)	06 37.49	0.3
IMA	15.01	27	(P)	06 50.64	-1.9
	0.9s		1.95nm		3.4mb
KLU	15.22	49	eP	06 52.13	-3.1X
FBA	16.06	36	(P)	07 06.21	0.3
	0.9s		3.36nm		3.5mb
BALM	16.73	52	(P)	07 12.49	-2.0
YKA	29.88	50	eP	09 26.80	-0.7
	0.5s		1.10nm		3.9mb
KAF	63.98	351	iP	13 54.20	1.2
	0.5s		3.80nm		4.7mb
NUR	65.71	352	iP	14 05.20	1.1
	0.5s		5.00nm		4.9mb
HFS	66.66	358	eP	14 10.50	0.3
	0.4s		3.00nm		4.8mb
GUN	75.74	298	P	15 06.20	0.5
KKN	76.16	298	P	15 08.20	0.3
PKI	76.27	298	P	15 08.60	0.0
GKN	76.33	299	P	15 08.80	0.0
DMN	76.39	298	P	15 09.60	0.3
GEC2	77.96	357	P	15 18.60	1.2
	0.8s		1.26nm		4.0mb
HYB	88.17	297	eP	16 09.00	-1.2

S.D. = 1.1 on 17 of 18 obs.

JAN 16, 1994 15h 19m 25.41± 0.26s  
11.540 S ± 6.1km 164.731 E ± 5.5km  
DEPTH = 33.0km (normal)  
5.0mb ( 18 obs.) 4.7msz ( 1 obs.)  
SANTA CRUZ ISLANDS REGION (183)

BKM	6.98	151	iPd	21 07.50	-0.5
			iS	22 22.20	
DZM	10.60	171	iPc	21 57.30	-0.9
			iS	23 52.30	
PMG	17.41	275	eP	23 28.00	0.5
CTA	19.69	242	P	23 56.09	1.1
ARMA	22.38	211	eP	24 24.60	2.1
	0.9s		25.00nm		4.7mb
STK	29.41	223	eP	25 28.20	0.1
	2.5s		3.00nm		3.6mb X
WB2	30.37	250	iPd	25 34.90	-1.9
	0.9s		11.40nm		4.7mb
WRA	30.38	250	P	25 35.50	-1.4
	0.5s		3.00nm		4.3mb
TOO	31.14	210	eP	25 44.40	1.0
	0.6s		9.00nm		4.8mb
ASPA	31.68	243	iPc	25 46.40	-2.0
	0.8s		17.00nm		5.0mb
Z	20s		1.80um		4.7msz
MTN	32.86	264	iPc	25 57.20	-1.4



0.7s	25.00nm	5.2mb	BC3	1.75	21	eP	49	26.57	-0.7				eS	55	42.20	
KNA	35.17	259 eP	26	18.00	-0.6	BGL	1.75	21	eP	49	08.80	-0.7	EHUE	1.26	9 eP	55 27.00 0.9
WARB	38.71	242 eP	26	48.20	-0.1	BKG	1.75	21	eP	49	08.85	-0.7			eS	55 45.80
	0.9s	54.00nm				BM3	1.75	21	eP	49	47.74	-0.7	EMEL	1.27	184 eP	55 26.20 0.0
MBL	44.00	252 eP	27	32.30	0.5	BWN	1.75	21	eP	48	57.80	-0.7	MAL	1.27	278 eP	55 25.50 -0.7
MEEK	45.84	244 iPd	27	47.10	0.7	CCB	1.75	21	eP	49	05.60	-0.7	EMAL	1.29	279 eP	55 25.55 -1.0
BAG	51.75	302 ePc	28	31.50	-1.0	CFI	1.75	21	eP	49	05.01	-0.7			eS	55 43.20
IPM	65.35	280 ePd	30	07.00	-0.2	CGLM	1.75	21	eP	49	06.77	-0.7	ELUQ	1.51	312 eP	55 31.72 1.7
BJI	68.24	322 eP	30	27.00	1.9	CKL	1.75	21	eP	49	08.57	-0.7			eS	55 51.20
TIY	69.25	318 eP	30	28.00	-3.5X	CKN	1.75	21	eP	49	08.37	-0.7	EALH	1.72	41 iPc	55 32.35 -0.6
	Z	16s	0.71um		5.0MsZx	CKT	1.75	21	eP	49	08.28	-0.7			eS	55 56.60
		S	39	34.00		CNPM	1.75	21	eP	49	26.03	-0.7	ZAI	1.76	177 eP	55 33.00 -0.5
XAN	69.72	313 P	30	33.00	-1.4	CP2	1.75	21	eP	49	07.39	-0.7			eS	55 52.50
	1.0s	7.10nm			4.7mb	CRP	1.75	21	eP	49	07.15	-0.7	EBAN	1.76	335 eP	55 34.03 0.4
KMI	70.53	302 eP	30	41.50	1.8	CTGM	1.75	21	eP	49	37.44	-0.7			eS	55 57.70
		sP	30	54.80		CUT	1.75	21	eP	48	49.45	-0.7	EPRU	1.96	282 eP	55 36.52 0.1
CHTO	71.52	294 eP	30	45.50	0.0	CVA	1.75	21	eP	49	18.55	-0.7	EVIA	2.09	7 eP	55 39.48 1.1
HHC	71.57	320 P	30	45.60	0.1	DDM	1.75	21	eP	49	06.45	-0.7			eS	56 05.20
CD2	72.11	308 eP	30	48.50	-0.4	DFR	1.75	21	eP	49	16.93	-0.7	LIJA	2.09	280 eP	55 42.00 3.6X
BTO	72.41	319 eP	30	50.00	-0.5	DHY	1.75	21	eP	48	54.24	-0.7	EJIF	2.12	268 eP	55 37.02 -1.7
LZH	74.35	313 eP	31	03.20	1.1	DOT	1.75	21	eP	49	14.51	-0.7			eS	56 03.60
	1.8s	53.00nm			5.2mb	FBA	1.75	21	ePc	49	08.90	-0.7	ALJ	2.22	274 eP	55 44.00 3.6X
	Z	16s	0.49um		4.9MsZx	FID	1.75	21	eP	49	13.27	-0.7	EHOR	2.29	304 eP	55 40.40 -0.9
GTA	78.69	314 eP	31	26.50	0.3	GHO	1.75	21	eP	48	55.78	-0.7			eS	56 10.10
	1.5s	19.00nm			4.9mb								MOMI	2.33	265 eP	55 46.00 4.2X
		pP	31	37.50	36kmX	GLB	1.75	21	eP	49	20.08	-0.7	PLAT	2.39	260 eP	55 44.50 1.8
		sP	31	43.50		GLM	1.75	21	eP	49	10.91	-0.7	BIT	2.51	249 iP	55 47.00 2.7
SVW	78.89	18 eP	31	26.13	-0.7	HDA	1.75	21	eP	49	05.97	-0.7			eS	56 12.50
	1.0s	21.96nm			5.1mb	HMT	1.75	21	eP	49	26.74	-0.7	GIBL	2.51	277 eP	56 00.00 15.6X
TTA	80.19	17 eP	31	33.40	-0.4	HUR	1.75	21	eP	48	46.92	-0.7	PAB	3.20	339 ePn	55 55.50 1.3
PMR	81.36	20 eP	31	40.06	0.2	IL1	1.75	21	eP	49	09.55	-0.7			ePb	56 03.00
	1.0s	18.64nm			5.1mb									eSg	56 50.00	
TOA	82.74	21 eP	31	46.70	-0.4	ILB	1.75	21	eP	49	09.47	-0.7	EVAL	3.28	289 eP	55 53.43 -1.9
IMA	83.25	16 eP	31	48.84	-0.9	IMA	1.75	21	eP	49	29.60	-0.7			eS	56 32.10
	1.1s	10.06nm			4.8mb	KLU	1.75	21	eP	49	08.33	-0.7	ECHE	3.36	26 eP	55 56.21 -0.3
BALM	83.46	23 eP	31	49.95	-1.0	KNK	1.75	21	eP	49	00.56	-0.7	MIF	3.66	211 eP	56 00.50 -0.2
FBA	84.10	18 eP	31	52.45	-1.5	KTH	1.75	21	iP	48	53.48	-0.7			eS	56 41.50
	0.8s	14.78nm			5.2mb	MCK	1.75	21	eP	48	53.55	-0.7	GUD	4.20	346 eP	56 07.35 -1.0
ARN	84.34	50 eP	31	56.06	0.3	MDM	1.75	21	eP	49	09.09	-0.7			eS	56 57.00
LGPM	84.58	47 eP	31	57.39	0.4	MLY	1.75	21	eP	49	09.85	-0.7	EPLA	4.32	325 eP	56 08.85 -1.2
ORV	85.08	48 eP	31	58.79	-0.6	MPA	1.75	21	eP	49	12.29	-0.7		S.D. = 1.2	on 24	of 28 obs.
		e	34	25.14		PAX	1.75	21	eP	49	05.25	-0.7				
CMB	85.42	50 eP	32	00.30	-0.9	PLRM	1.75	21	eP	48	57.10	-0.7	? JAN 16, 1994	16h	21m	56.43± 1.19s
	1.4s	22.43nm			5.2mb	PMR	1.75	21	eP	48	57.30	-0.7		16.198 N ±10.8km		61.167 W ±12.8km
GUN	85.69	299 PKP	32	04.60	1.5					48	58.80			DEPTH = 10.0km	(geophysicist)	
PKI	86.00	299 PKP	32	05.80	1.1					eS	49	16.50	LEEWARD ISLANDS		( 92)	
	0.8s	13.00nm			5.2mb	PMS	1.75	21	eP	49	01.70	-0.7		ML 2.4 (FDF).		
KKN	86.17	299 PKP	32	06.60	1.3	PWA	1.75	21	P	48	56.70	-0.7	SFG	0.06	333 ePd	21 59.54 0.9
DMN	86.27	299 PKP	32	07.40	1.5	PWL	1.75	21	eP	49	07.61	-0.7	DEG	0.15	42 iPc	21 59.45 -0.6
PEC	86.69	55 eP	32	07.11	-0.4	RED	1.75	21	eP	49	19.87	-0.7			S	22 02.91
	1.4s	42.37nm			5.5mb	RND	1.75	21	eP	48	50.13	-0.7	MGG	0.31	207 eP	22 03.52 0.6
		e	34	23.68		SEW	1.75	21	eP	49	17.12	-0.7			S	22 09.10
GKN	86.78	299 PKP	32	07.60	-0.6	SKT	1.75	21	eP	48	57.19	-0.7	DOG	0.46	249 eP	22 04.87 -1.0
GMW	86.93	40 eP	32	08.17	-0.2					eS	49	14.69		S.D. = 1.6	on 4	of 4 obs.
GSC	87.37	53 eP	32	11.00	0.2	SLKM	1.75	21	eP	49	12.04	-0.7				
RMW	87.52	41 eP	32	11.24	0.0	SML	1.75	21	eP	48	56.30	-0.7				
		e	34	47.54		SPU	1.75	21	eP	49	07.16	-0.7				
TPNV	88.25	52 eP	32	15.29	0.2	SUA	1.75	21	eP	49	00.80	-0.7				
GLA	88.35	56 eP	32	16.07	0.5	SVW	1.75	21	eP	49	24.50	-0.7		JAN 16, 1994	16h	58m 13.13± 0.23s
WMQ	88.74	315 eP	32	15.50	-1.7	TGL	1.75	21	eP	49	30.11	-0.7			49.106 N ± 3.5km	103.276 E ± 5.2km
ARUT	90.63	52 eP	32	26.85	0.6	THY	1.75	21	eP	49	05.71	-0.7			DEPTH = 12.4km	( 2 depth phases)
TUC	91.49	57 eP	32	32.23	2.0	TMW	1.75	21	eP	49	19.81	-0.7			4.8mb ( 34 obs.)	4.7MsZ ( 2 obs.)
		e	32	58.48		TOA	1.75	21	P	49	03.50	-0.7	MONGOLIA			(334)
MSU	91.77	51 eP	32	32.16	0.6	TRF	1.75	21	iP	48	50.83	-0.7	ZAK	1.28	0 iPgc	58 38.00 1.4
		e	33	01.76						eS	49	04.46			eSg	58 56.00
		e	33	55.75		TTA	1.75	21	P	49	19.30	-0.7	ARS	2.85	349 eP	59 01.90 2.6
		e	34	49.95		TZL	1.75	21	eP	49	08.17	-0.7			ePg	59 06.10
HVU	92.07	48 eP	32	33.40	0.6	VLZ	1.75	21	eP	49	09.27	-0.7			iSg	59 46.30
PTI	92.62	47 eP	32	36.13	0.8	VZW	1.75	21	eP	49	09.43	-0.7	MOY	2.97	331 iPc	59 02.90 2.1
		e	35	03.67		WRH	1.75	21	eP	49	02.98	-0.7			iPgc	59 07.80
YKA	95.87	27 eP	32	47.70	-1.9	BALM	3.86	115	eP	49	30.56	-2.0	IRK	3.24	11 iPc	59 06.00 1.3
	0.8s	2.60nm			4.7mb									ePg	59 11.00	
MBC	97.81	14 eP	32	59.00	0.9									eSg	59 55.00	
LPZA	120.85	117 iPkPc	38	17.80	0.2								IRK	3.24	11 iPc	59 06.10 1.4
		LR	17	32.00										0.7s	421.00nm	
GEC2	135.69	333 PKP	38	44.20	-0.2										ePg	59 11.00
	0.8s	0.77nm													eSg	59 55.00
		e	38	49.30									KAB	3.65	35 iPgd	59 20.00 9.5X
		e	38	57.70											iSg	00 08.00
	S.D. = 1.0	on 58	of 59	obs.									CIT	7.19	62 eP	59 59.50 -1.0
															ePg	00 24.00
															eSg	01 56.00
& JAN 16, 1994	15h	48m	34.24s			EGUA	0.64	295 iPc	55	14.85	-0.1					
	62.853 N		149.547 W					eS	55	22.50		BTO	9.76	148 P	00 34.00 -2.2	
	DEPTH = 90.4km					ENIU	0.65	51 iPc	55	14.87	-0.4			eS	02 26.50	
CENTRAL ALASKA			( 1)					eS	55	23.50						
<AEIC>.						ECOG	0.92	321 iPc	55	20.10	-0.2	GTA	10.01	196 eP	00 36.80 -2.9	
								eS	55	30.50			1.0s	10.00nm		5.2mb
													Z	11s	9.96um	4.4MsZ
						ELOJ	1.20	299 eP	55	25.60	0.5			eS	02 27.00	



16d 17h

HHC	10.12	142 P	00 37.50	-3.8X	GUN	25.05	219 P	03 38.60	-0.2	PV10	88.31	25 eP	11 06.33	0.4
	1.2s	180.00nm		6.4mb X	KKN	25.40	220 P	03 42.40	0.4	ALQ	92.24	24 eP	11 24.83	0.7
Z	10s	8.89um		4.7MsZ	GKN	25.49	221 P	03 42.80	0.0		1.1s	15.17nm		5.3mb
		eS	02 31.00		PKI	25.54	219 P	03 43.40	-0.1	ACO	92.28	18 iPc	11 24.50	0.4
WMQ	11.97	250 P	01 06.00	-0.4	DMN	25.64	220 P	03 44.60	0.3	WMOK	94.25	18 eP	11 32.95	-0.3
	12s	5.56um				0.8s	46.00nm		5.2mb		0.9s	10.34nm		5.2mb
		PP	01 15.10		CHTO	30.42	188 eP	04 29.20	1.8	SIV	144.59	333 PKP	17 48.40	-2.8
BJI	12.90	130 eP	01 16.50	-2.2	QIZ	30.47	168 eP	04 30.00	2.2	LPZ	146.53	345 PKP	17 54.20	-1.0
	12s	6.64um			E	14s	1.82um			LPB	146.76	345 PKP	17 56.00	0.7
LZH	13.02	178 iPc	01 22.50	1.9	HYB	37.43	221 eP	05 26.40	-1.4	ARE	147.16	351 ePKP	17 59.00	3.2X
	1.6s	110.00nm		5.8mb	GBA	41.30	220 P	06 00.00	0.1	MOCB	150.83	338 PKP	18 06.60	5.1X
	12s	4.16um		5.3MsZ	TAB	41.78	277 eP	06 03.00	-0.9		S.D. = 1.3	on 92 of 99 obs.		
		pP	01 26.00		KAF	42.70	318 iP	06 10.10	-0.8					
		PP	01 31.50			0.8s	10.20nm		4.6mb		JAN 16, 1994	17h 03m 08.23± 0.58s		
TIY	13.18	146 eP	01 25.10	2.5	NUR	44.02	316 eP	06 24.00	2.4		36.604 N ± 4.9km	2.821 W ± 5.0km		
	12s	5.30um			KOD	44.33	218 eP	06 27.00	2.0		DEPTH = 5.0km (geophysicist)			
	11s	1.94um			HFS	49.08	319 eP	06 59.80	-1.8		STRAIT OF GIBRALTAR		(385)	
XAN	15.63	162 P	01 53.50	-1.1		0.6s	4.70nm		4.7mb		mbLg 3.5 (MDD).	Felt (III) in		
	1.0s	80.00nm		4.9mb	DAG	49.22	345 iPc	07 01.40	-1.0		the Adra area, Spain.			
	15s	2.92um		4.3MsZ		1.0s	10.00nm		4.8mb					
	12s	2.31um			IMA	51.12	31 eP	07 16.81	-0.5					
		pP	02 01.00			1.1s	7.86nm		4.6mb	ENIJ	0.61	53 iPc	03 20.37	-0.2
SNY	15.97	109 Pc	02 01.80	2.9X	MBC	51.97	12 eP	07 24.00	0.6		eS	03 28.60		
	1.4s	36.00nm		4.3mb	TTA	52.10	35 eP	07 23.60	-1.0	EGUA	0.64	291 iPc	03 20.23	-0.8
	11s	4.78um				1.1s	8.28nm		4.6mb		eS	03 28.00		
CN2	16.15	101 eP	02 03.40	2.1	SVW	53.31	36 eP	07 34.20	0.5	ECOG	0.90	319 iPd	03 25.77	-0.2
	1.0s	7.00nm		3.7mb X	FBA	53.79	30 eP	07 36.65	-0.4		eS	03 35.00		
	10s	2.23um		5.3MsZ		0.6s	6.17nm		4.8mb	ELOJ	1.20	297 eP	03 30.70	-0.4
	10s	2.76um			BRG	53.98	308 eP	07 38.90	0.2		eS	03 47.60		
	10s	2.79um				1.8s	34.00nm		5.1mb	EHUE	1.22	8 eP	03 31.62	0.1
		epP	02 09.00			e	07 42.60		12km		eS	03 49.80		
TIA	16.39	137 Pc	02 06.40	2.0	CLL	54.21	309 eP	07 40.00	-0.3	MAL	1.28	276 eP	03 31.50	-1.0
	12s	3.05um			PWA	55.15	34 eP	07 46.70	-0.4		eS	03 49.50		
	11s	1.42um				0.7s	33.40nm		5.5mb	EMAL	1.30	277 iPc	03 31.05	-1.7
	11s	2.47um			MOX	55.31	309 eP	07 49.80	1.4		eS	03 47.70		
CD2	18.18	179 iPd	02 28.00	1.2		z	20s	0.70um	4.7MsZ	EMEL	1.31	185 eP	03 34.00	1.2
	1.2s	69.00nm		4.7mb	GEC2	55.31	307 PKP	07 45.90	-2.7	EALH	1.68	41 eP	03 38.73	0.4
	12s	3.14um		4.4MsZ		1.4s	3.58nm		4.2mb		eS	04 02.30		
	11s	4.64um			INK	55.54	22 eP	07 49.00	-0.8	EBAN	1.74	334 eP	03 39.73	0.5
MDJ	18.51	94 eP	02 31.20	0.5	SLKM	55.76	35 eP	07 50.05	-1.5		eS	04 02.10		
	1.3s	50.00nm		4.5mb	RES	55.90	6 eP	07 51.50	-0.8	ZAI	1.80	178 eP	03 38.50	-1.6
	12s	6.99um		4.4MsZ	TOA	56.17	32 eP	07 54.80	0.2		eS	03 56.00		
	10s	5.31um			KLU	56.68	32 eP	07 56.29	-1.9	EPRU	1.97	281 eP	03 43.55	0.9
YAK	19.58	39 eP	02 42.00	-1.5	BALM	58.24	31 eP	08 08.30	-1.0		eS	04 07.70		
	1.3s	112.00nm		5.0mb	YKA	64.74	18 eP	08 51.20	-1.6	EVIA	2.05	7 eP	03 44.73	0.9
		epP	03 32.00			0.8s	7.10nm		4.9mb		eS	04 09.00		
		e	06 46.00		FRB	67.31	356 eP	09 08.00	-1.2	LIJA	2.10	279 eP	03 46.00	1.4
		i	07 58.00		WRA	74.10	150 P	09 48.79	-1.9	EJIF	2.14	267 eP	03 45.36	0.3
		iS	08 17.00			0.6s	1.70nm		4.3mb		eS	04 10.30		
		iS	10 04.00		WB2	74.10	150 iPc	09 48.40	-2.3	ALJ	2.24	273 eP	03 48.00	1.4
		iSS	11 13.00			0.8s	5.50nm		4.6mb	EHOR	2.29	303 eP	03 45.81	-1.4
		iScS	12 09.00		MCW	74.79	30 eP	09 54.22	-0.2		eS	04 14.90		
NJ2	20.67	140 Pc	02 57.00	1.8	GMW	75.79	30 eP	09 59.93	-0.2	MOMI	2.35	264 eP	03 50.00	1.8
	16s	1.45um		4.4MsZ	RMW	76.19	30 eP	10 02.69	0.2	PLAT	2.42	259 eP	03 50.50	1.4
	11s	2.66um			NEW	76.92	26 eP	10 05.97	-0.6	GIBL	2.53	276 eP	04 00.00	9.4X
	11s	0.87um				0.8s	6.91nm		4.8mb	BIT	2.54	249 iP	03 52.50	1.7
LSA	21.48	210 P	03 03.50	-0.4							eS	04 21.50		
	1.0s	23.00nm		4.5mb	DPW	76.95	27 eP	10 06.86	0.1	PAB	3.18	338 ePn	04 01.10	1.2
	12s	1.90um		4.7MsZ	ASPA	77.43	151 P	10 07.69	-1.8		ePb	04 08.50		
	12s	1.58um				0.7s	6.50nm		4.8mb		ePg	04 12.10		
KSH	21.69	254 P	03 06.50	0.8	ASPA	77.43	151 eP	10 01.60	-7.9X	EVAL	3.29	288 eP	03 59.87	-1.6
	1.0s	30.00nm		4.7mb		1.1s	4.20nm		4.4mb		eS	04 38.30		
	20s	2.41um		4.6MsZ	VGB	78.24	30 eP	10 13.80	0.0	ECHE	3.32	26 eP	04 02.10	0.2
	10s	3.00um			CTA	78.78	139 P	10 13.60	-3.4X		eS	04 39.60		
	10s	3.49um			ULM	79.67	12 eP	10 22.50	1.0	MIF	3.70	211 eP	04 05.00	-2.3
		pP	03 10.00	13km	LRM	80.46	24 eP	10 26.30	0.1		iS	04 43.00		
		sP	03 13.00		LGPM	81.58	34 eP	10 32.16	0.2	GUD	4.17	346 eP	04 13.40	-0.6
		PP	03 34.00		PTI	83.20	26 eP	10 40.48	0.1		eS	05 00.40		
		PcP	07 00.00		BW06	84.06	24 eP	10 43.44	-1.4	ETOR	4.25	8 eP	04 14.43	-0.7
		sS	07 14.00			1.0s	5.73nm		4.8mb		eS	05 02.70		
		eScP	10 37.00		HVU	84.09	26 eP	10 45.06	0.1	EPLA	4.30	324 eP	04 15.02	-0.8
		PcS	10 39.00		RSSD	84.13	19 eP	10 44.27	-0.9		eS	05 02.70		
		ScS	14 21.00			1.2s	32.95nm		5.4mb		S.D. = 1.2	on 27 of 28 obs.		
SSE	22.51	136 P	03 14.50	0.8	DUG	85.54	27 eP	10 52.51	0.3					
	1.5s	24.00nm		4.5mb		1.0s	12.92nm		5.1mb		JAN 16, 1994	17h 13m 42.27± 0.47s		
	13s	2.20um		4.8MsZ	GAC	85.57	359 eP	10 52.50	0.5		42.563 N ± 4.0km	19.066 E ± 4.2km		
	11s	0.90um			BONR	85.81	32 eP	10 54.90	1.1		DEPTH = 10.0km (geophysicist)			
	11s	0.50um			MEMM	85.85	32 eP	10 55.00	1.5		NORTHWESTERN BALKAN REGION		(383)	
GYA	22.76	172 P	03 18.00	1.6	EMUT	86.47	26 eP	10 57.20	0.2		ML 2.7 (TTG).			
	14s	1.18um		4.5MsZ	RSNY	86.71	358 eP	10 57.35	-0.4	TTG	0.20	133 iPgC	13 47.18	0.6
	12s	0.92um				0.9s	38.27nm		5.6mb		iSg	13 50.76		
	12s	0.46um			SRU	87.21	26 eP	11 01.22	0.7	NKY	0.25	349 iPgD	13 48.21	0.5
KMI	23.94	181 eP	03 28.40	0.4	MSU	87.28	27 eP	11 01.39	0.5		iSg	13 52.44		
	1.0s	20.00nm		4.6mb	TFNV	87.42	31 (P)	11 00.87	-0.6	BDV	0.33	212 iPgD	13 49.39	0.3
	12s	2.40um		4.9MsZ	GOL	88.02	22 eP	11 04.65	0.2		iSg	13 54.68		
	11s	1.60um				1.0s	22.21nm		5.4mb	HCY	0.44	255 iPgD	13 50.91	-0.2
	10s	0.90um			PV09	88.17	25 eP	11 05.49	0.2		iSg	13 58.13		
					PV08	88.23	24 eP	11 05.44	-0.2					



16d 17h

BRY 0.51 311 iPg 13 52.56 -0.1  
 iSg 14 00.47  
 ULC 0.61 167 iPg 13 54.27 -0.4  
 iSg 14 03.56  
 PVY 0.67 87 iPg 13 55.41 -0.3  
 iSg 14 05.50  
 IVA 0.69 63 iPg 13 55.79 -0.1  
 iSg 14 05.86  
 PLE 0.80 17 iPg 13 57.76 -0.2  
 iSg 14 09.92

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

JAN 16, 1994 17h 14m 00.92± 0.43s  
 42.564 N ± 4.1km 19.017 E ± 3.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 3.2 (TTG).

TTG 0.22 127 iPg 14 05.76 0.0  
 iSg 14 09.13  
 NKY 0.25 357 iPg 14 06.69 0.4  
 iSg 14 10.68  
 BDV 0.31 207 iPg 14 07.77 0.3  
 iSg 14 12.41  
 HCY 0.40 253 iPg 14 09.12 0.0  
 iSg 14 15.60  
 BRY 0.48 314 iPg 14 10.86 0.1  
 iSg 14 18.63  
 ULC 0.62 164 iPg 14 12.76 -0.7  
 iSg 14 22.03  
 PVY 0.71 87 iPg 14 14.24 -0.7  
 iSg 14 24.38  
 IVA 0.72 64 iPg 14 14.59 -0.5  
 iSg 14 25.09  
 PLE 0.81 20 iPg 14 16.69 -0.1  
 iSg 14 28.57  
 SKO 1.89 107 ePn 14 35.00 1.4  
 OHR 1.97 137 ePn 14 38.20 3.5X  
 HVAR 1.99 289 iP 14 34.50 -0.4  
 iSn 15 01.80  
 VAY 2.93 114 ePn 14 48.60 0.3  
 S.D. = 0.7 on 12 of 13 obs.

% JAN 16, 1994 17h 18m 15.79± 0.45s  
 42.559 N ± 3.8km 19.064 E ± 4.0km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.0 (TTG).

TTG 0.19 132 iPg 18 20.24 0.2  
 iSg 18 23.48  
 NKY 0.26 349 iPg 18 21.33 0.0  
 iSg 18 25.59  
 BDV 0.33 212 iPg 18 22.73 0.2  
 iSg 18 27.68  
 HCY 0.43 255 iPg 18 24.41 -0.2  
 iSg 18 30.91  
 BRY 0.51 312 iPg 18 26.26 0.0  
 iSg 18 34.05  
 ULC 0.61 167 iPg 18 28.06 -0.1  
 iSg 18 37.00  
 PVY 0.67 87 iPg 18 29.17 -0.1  
 iSg 18 39.20  
 IVA 0.69 63 iPg 18 29.27 -0.2  
 iSg 18 39.71  
 PLE 0.81 17 iPg 18 31.74 0.2  
 iSg 18 43.59

S.D. = 0.2 on 9 of 9 obs.

? JAN 16, 1994 19h 12m 58.16± 1.03s  
 8.746 S ± 7.8km 114.699 E ± 12.8km  
 DEPTH = 115.2 ± 11.1 km  
 5.0mb ( 4 obs.)  
 BALI REGION, INDONESIA (283)

KHKI 0.98 67 iPd 13 20.00 0.2  
 i(S) 13 31.20  
 e 18 21.50  
 MBL 13.30 159 eP 15 57.20 -6.4X  
 eS 18 12.00  
 MEEK 18.18 169 eP 17 03.50 -1.2  
 eS 20 09.00  
 MRWA 20.40 177 eP 17 22.50 -5.5X  
 eS 21 02.00  
 WARB 20.72 148 eP 17 31.00 -0.3  
 eS 21 13.50  
 WB2 22.02 122 eP 17 43.50 -0.8

0.3s 56.00nm 5.4mb X  
 eS 21 38.40  
 COOL 22.83 166 eP 17 52.50 0.4  
 eS 21 56.50  
 KLB 22.91 173 eP 17 54.00 1.2  
 MUN 23.16 177 eP 18 11.00 15.8X  
 eS 22 10.50  
 NWA0 24.18 175 eP 18 04.50 -0.5  
 CHTO 31.49 330 eP 19 12.20 1.0  
 STK 33.96 136 eP 19 32.40 -0.2

0.4s 11.70nm 5.0mb  
 ARMA 40.65 127 eP 20 30.50 1.8  
 0.6s 5.00nm 4.5mb  
 HYB 44.18 306 eP 20 57.00 -0.5  
 GUN 45.88 324 P 21 11.40 0.1  
 0.6s 17.00nm 5.0mb  
 PKI 45.91 323 P 21 11.40 -0.1  
 DMN 46.12 323 P 21 13.20 0.2  
 KKN 46.15 323 P 21 13.20 0.0  
 GKN 46.69 323 P 21 17.00 -0.4

0.4s 11.00nm 5.0mb  
 MAT 50.17 25 (P) 21 43.00 -1.0  
 PPD 146.48 204 (PKP) 32 30.00 3.3X  
 S.D. = 0.9 on 17 of 21 obs.

% JAN 16, 1994 19h 18m 01.60± 1.64s  
 41.998 N ± 11.2km 19.484 E ± 8.1km  
 DEPTH = 10.0km (geophysicist)  
 ALBANIA (391)  
 ML 2.1 (TTG).

ULC 0.18 259 iPg 18 05.95 0.3  
 iSg 18 09.31  
 TTG 0.46 339 iPg 18 10.79 -0.2  
 iSg 18 18.75  
 BDV 0.57 301 iPg 18 12.63 -0.4  
 iSg 18 21.76  
 PVY 0.70 31 iPg 18 15.02 -0.5  
 iSg 18 25.96  
 HCY 0.86 302 iPg 18 17.76 -0.4  
 iSg 18 31.26  
 NKY 0.89 336 ePg 18 18.99 0.2  
 iSg 18 33.08  
 IVA 0.93 19 iPg 18 19.43 0.1  
 iSg 18 33.75  
 BRY 1.14 323 iPg 18 23.23 0.2  
 iSg 18 41.20  
 PLE 1.33 357 iPg 18 26.87 0.6  
 iSg 18 47.34

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

JAN 16, 1994 19h 28m 27.58± 0.36s  
 3.710 N ± 5.3km 126.328 E ± 9.4km  
 DEPTH = 33.0km (normal)  
 4.8mb ( 18 obs.)  
 TALAUD ISLANDS, INDONESIA (263)

MNI 2.70 213 ePc 29 12.00 2.4  
 DAV 3.44 347 ePd 29 20.80 0.6  
 eS 30 04.00  
 CTB 4.06 329 ePd 29 30.00 1.0  
 iS 30 22.00  
 BIP 4.49 359 ePd 29 37.00 1.9  
 MAP 6.97 341 eP 30 09.50 -0.6  
 BAG 13.83 336 eP 31 49.00 5.2X  
 KNA 19.48 173 eP 32 53.00 -1.9  
 0.9s 36.00nm 4.7mb  
 WB2 24.79 162 eP 33 46.80 -1.3  
 0.3s 15.40nm 5.1mb  
 SSE 27.67 350 eP 34 20.00 5.5X  
 pP 34 28.50 30kmX  
 ASPA 28.19 165 eP 34 20.50 1.1  
 CHTO 30.69 301 eP 34 42.10 0.3  
 MEEK 31.08 193 eP 34 45.00 -0.1  
 XAN 34.25 334 P 35 10.50 -2.3  
 1.0s 8.90nm 4.6mb  
 TIY 36.15 341 Pc 35 30.30 1.4  
 BJI 37.31 347 eP 35 37.50 -1.0  
 1.0s 9.00nm 4.6mb  
 SNY 38.03 357 iPd 35 45.00 0.5  
 1.0s 50.00nm 5.3mb  
 STK 38.26 159 eP 35 46.90 0.4  
 0.4s 4.10nm 4.6mb  
 HHC 39.29 342 P 35 55.00 -0.3  
 1.0s 16.00nm 4.7mb  
 CN2 39.93 359 eP 35 59.60 -0.7  
 0.8s 5.90nm 4.4mb

MDJ 40.84 4 Pd 36 08.90 1.1  
 1.2s 54.00nm 5.2mb  
 ARMA 41.67 146 eP 36 15.80 0.9  
 1.0s 14.00nm 4.6mb

LSA 42.15 312 P 36 19.80 0.4  
 GUN 45.41 306 P 36 45.20 -0.5  
 PKI 45.65 306 P 36 46.80 -0.7  
 KKN 45.85 306 P 36 48.80 -0.1  
 DMN 45.91 306 P 36 49.20 -0.3  
 GKN 46.45 306 P 36 53.60 0.0  
 DZM 46.85 125 iPc 36 55.20 -1.6  
 HYB 48.74 290 eP 37 11.00 -0.6  
 GBA 49.23 285 Pc 37 15.20 -0.1

0.8s 4.00nm 4.5mb  
 WMQ 52.51 325 P 37 37.50 -2.4  
 1.2s 6.50nm 4.5mb  
 YAK 58.23 2 eP 38 19.50 -1.2  
 1.4s 37.00nm 5.3mb  
 TTA 81.10 27 eP 40 42.20 1.3  
 IMA 82.56 24 eP 40 49.80 1.3  
 0.7s 7.30nm 4.9mb  
 PMR 84.15 29 eP 40 56.80 0.3  
 OBN 86.83 325 ePd 41 09.30 -0.6  
 2.0s 80.00nm 5.6mb

KAF 91.43 332 iP 41 30.10 -1.4  
 0.8s 8.00nm 5.2mb  
 NUR 92.53 331 iP 41 36.00 -0.5  
 0.6s 2.50nm 4.8mb  
 YKA 99.68 24 eP 42 09.20 0.0  
 0.9s 1.20nm 4.4mb  
 KIC 130.13 281 PKP 47 38.00 1.0  
 TIC 130.35 282 PKP 47 38.80 1.4  
 LIC 130.44 281 PKP 47 38.40 0.8  
 S.D. = 1.2 on 40 of 42 obs.

\* JAN 16, 1994 19h 48m 50.86± 0.56s  
 15.053 S ± 24.1km 173.606 W ± 14.7km  
 DEPTH = 28.6km ( 11 depth phases)  
 5.0mb ( 17 obs.) 4.9Msz ( 6 obs.)  
 TONGA ISLANDS (173)

Mw 5.2 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 12S, 25C  
 Centroid Location:  
 Origin Time 19:48:56.7 0.6  
 Lat 14.77S FIX; Lon 173.98W FIX  
 Dep 15.0 FIX Half-duration 1.2  
 Moment Tensor; Scale 10\*\*16 Nm  
 Mrr=-2.87 0.40 Mtt=-1.83 0.56  
 Mff= 4.70 0.49 Mrt=-2.13 0.97  
 Mrf=-2.22 1.17 Mtf= 6.55 0.44  
 Principal Axes:  
 T Val= 9.49 Plg=14 Azm=122  
 N -3.44 70 254  
 P -6.04 14 29  
 Best Double Couple: Mo=7.8\*10\*\*16  
 NP1: Strike=166 Dip=70 Slip=-180  
 NP2: 76 90 -20

AFI 2.10 58 iPd 49 19.00 -5.9X  
 DZM 20.15 247 iPc 53 26.90 1.0  
 WB2 49.72 256 eP 57 40.00 -2.8  
 0.7s 7.20nm 4.8mb  
 WRA 49.73 256 P 57 41.20 -1.7  
 0.8s 4.00nm 4.5mb  
 CMB 72.64 42 eP 00 16.77 -1.1  
 0.9s 7.85nm 4.7mb

LGPM 72.86 38 eP 00 18.55 -0.7  
 LBFM 73.69 38 eP 00 25.87 1.7  
 BONR 73.94 43 eP 00 25.48 -0.3  
 TUC 76.33 51 eP 00 40.26 0.9  
 RMW 77.53 33 eP 00 45.36 -0.3  
 e 00 54.99 31km  
 MSU 78.32 45 eP 00 51.08 0.6  
 e 01 00.79 31km

DUG 78.74 43 eP 00 52.18 -0.4  
 1.1s 15.50nm 4.9mb  
 TTA 78.94 8 eP 00 50.71 -2.4  
 1.4s 17.11nm 4.9mb  
 HVU 79.58 42 eP 00 57.29 0.2  
 e 01 06.66 30km  
 SRU 79.74 45 eP 00 58.50 0.4  
 e 01 07.59 29km  
 DAU 79.88 43 eP 00 59.37 0.4  
 e 01 08.37 29km  
 PTI 80.40 41 eP 01 01.60 0.1



FORT	23.18	181	iPc	17	14.30	1.0
	0.5s	73.00nm				5.4mb
COOL	24.26	195	iPc	17	23.40	-0.4
	0.4s	37.00nm				5.3mb
MRWA	24.60	207	eP	17	21.50	-5.4X
		e	17	54.00	161kmX	
		eS	22	01.00		
BAG	24.98	342	ePd	17	30.50	-0.3
		eS	21	40.90		
BAL	25.50	204	iPc	17	34.80	-0.5
	0.3s	30.00nm				5.3mb
		e	18	05.00	146km	
		eS	22	18.00		
CVP	25.87	345	ePd	17	38.00	-0.7
KLB	25.98	201	eP	17	39.50	-0.1
	0.4s	34.00nm				5.3mb
		eS	22	34.00		
KGM	26.79	290	eP	17	47.90	0.7
MUN	26.91	203	eP	17	47.50	-0.6
		e	18	26.00	191kmX	
		eS	22	56.50		
STK	27.19	155	eP	17	50.00	-0.6
	0.8s	54.10nm				5.2mb
		eP	18	14.80	114kmX	
		eS	22	50.70		
NWAO	27.37	201	iPc	17	52.10	-0.2
		iS	23	06.60		
ADE	28.93	162	iPc	18	07.00	0.6
RKG	28.94	200	iPc	18	08.30	1.9
	0.4s	18.00nm				5.1mb
		iS	23	45.50		
IPM	29.87	293	ePd	18	14.90	0.1
	0.5s	15.30nm				5.0mb
ARMA	31.50	139	iPd	18	30.30	1.2
	0.6s	15.00nm				4.9mb
BWA	32.52	148	iPc	18	39.40	1.6
		e	19	37.30	294kmX	
		i	19	49.60		
CAN	33.51	149	iPc	18	47.10	0.7
		e	19	24.90	179kmX	
		iScP	24	52.10		
QZH	33.63	344	Pc	18	46.80	-0.6
CNB	33.70	148	iPd	18	48.80	0.8
	1.3s	68.00nm				5.2mb
TOO	33.71	155	iPc	18	49.50	1.5
	0.9s	222.00nm				5.9mb
NST	36.28	309	eP	19	11.00	1.1
BDT	38.09	310	iPd	19	25.00	-0.1
	1.1s	49.90nm				5.2mb
SSE	38.98	350	iPd	19	32.50	0.1
	0.6s	26.00nm				5.1mb
Z	24s	0.50um				4.3MszX
		pP	20	08.50	165kmX	
CHTO	39.11	312	ePc	19	34.50	0.9
	1.2s	41.32nm				5.0mb
DZM	39.36	116	iPc	19	37.30	1.5
GYA	39.82	329	P	19	40.40	0.9
	1.0s	24.00nm				4.9mb
		PcP	21	43.80		
NJ2	40.37	347	P	19	44.50	0.8
	1.0s	65.00nm				5.3mb
		ScP	25	21.50		
KMI	40.95	323	eP	19	50.60	1.7
	1.0s	20.00nm				4.7mb
TKSJ	41.58	7	P	19	53.80	0.1
WKYJ	42.02	9	P	19	58.10	0.7
YONJ	42.70	6	P	20	03.10	0.3
CHJY	44.42	12	P	20	14.80	-1.9
MTMJ	44.71	11	P	20	18.00	-1.0
MAT	44.74	11	iPd	20	17.40	-1.8
	0.6s	22.00nm				5.0mb
KAKJ	44.83	13	P	20	18.60	-1.3
CD2	44.91	329	eP	20	20.80	0.1
Z	20s	0.56um				4.5Msz
		eS	26	43.70		
XAN	45.25	337	P	20	22.50	-0.9
	1.0s	40.00nm				5.0mb
Z	15s					



LZH	49.13 334 P	20 54.30 0.6	SSF	118.86 320 ePKP	30 51.50 0.0	BAG	19.42 359 eP	51 02.90 -2.3
	1.5s 110.00nm	5.4mb		0.9s 11.95nm		IPM	21.18 291 ePc	51 25.30 1.9
	pP 21 26.00 138km		BGF	119.47 320 ePKP	30 52.80 0.1		0.8s 20.80nm	4.6mb
	S 27 46.00			0.9s 10.15nm		WB2	21.32 143 eP	51 22.10 -2.7X
HHC	50.54 343 P	21 04.40 0.1	TCF	119.98 320 ePKP	30 53.80 0.1		0.8s 28.50nm	4.7mb
	1.0s 22.00nm	4.9mb		1.0s 12.20nm			eScP 57 08.20	
BTO	50.77 342 eP	21 06.00 0.0	MFF	121.35 321 ePKP	30 56.20 0.0	WARB	23.60 167 eP	51 48.50 1.2
MRRJ	50.99 12 P	21 06.90 -0.6	RSSD	121.65 42 ePKPd	30 57.11 0.0	ASPA	24.03 149 iPc	51 51.50 0.0
CN2	51.11 357 eP	21 07.60 -0.8	FRB	122.52 9 ePKP	30 57.50 -0.3		0.8s 22.60nm	4.8mb
	0.6s 11.00nm	4.8mb		0.8s 3.00nm		Z	19s 0.40um	3.9Msz
HOOJ	51.44 14 P	21 11.10 0.2	ULM	123.68 33 ePKP	31 05.00 4.4X	QIS	25.23 135 eP	52 02.20 -0.8
LSA	51.50 318 P	21 13.00 0.8	KIC	133.53 272 ePKP	31 21.69 1.2	GYA	32.43 336 P	53 08.00 0.1
	1.3s 30.00nm	4.9mb		0.5s 1.00nm		SSE	34.04 1 eP	53 32.50 10.9X
MDJ	51.87 1 eP	21 13.80 -0.3	LIC	133.81 271 PKP	31 22.13 1.1		1.0s 8.00nm	
KUSJ	52.47 15 P	21 18.70 0.1		0.4s 2.50nm		SSE	34.04 1 eP	53 12.50 -9.1X
MCQ	52.88 158 eP	21 22.50 1.0	RSTA	147.97 184 ePKP	31 44.90 -0.9		1.0s 8.00nm	4.6mb
ASAJ	52.94 13 P	21 21.50 -0.5		e 31 50.30		STK	34.65 148 eP	53 25.90 -1.0
GTA	53.67 333 iPc	21 27.60 -0.1		e 32 27.00			0.6s 8.30nm	4.8mb
	1.4s 41.00nm	5.1mb	MOCB	148.27 154 PKP	31 48.50 1.5	CD2	37.55 336 iPc	53 51.00 -0.4
Z	24s 0.84um	4.7MszX	NNA	148.27 127 ePKP	31 48.50 1.9		1.0s 39.00nm	5.2mb
	pP 22 02.50 151km			0.8s 26.12nm		XAN	38.63 344 P	54 00.00 -0.5
	PcP 22 30.00		ARE	149.09 140 ePKP	31 54.00 5.8X		1.0s 8.90nm	4.5mb
	ScP 26 16.50		PPD	150.67 180 ePKP	31 56.20 6.2X		pP 54 04.00 14kmX	
	eS 28 47.00		LPB	151.06 146 PKP	31 53.80 2.5X	CAN	41.34 144 eP	54 22.20 -0.7
	ScS 30 58.00			1.0s 140.00nm		LZH	42.11 339 eP	54 29.00 -0.3
KOD	53.73 288 eP	21 30.00 1.3	LPB	151.06 146 PKP	31 53.80 2.5X		1.5s 19.00nm	4.6mb
GUN	54.12 312 P	21 30.20 -1.3		i 31 59.00		BJI	43.17 355 eP	54 41.00 3.3X
PKI	54.28 312 P	21 30.80 -1.8		LR 35 47.00			1.5s 14.00nm	4.5mb
	0.8s 32.00nm	5.2mb	CDCB	151.65 194 iPKPc	31 58.90 7.3X	LSA	43.25 321 P	54 40.60 1.5
KKN	54.50 312 P	21 33.30 -0.8		i 32 08.30			0.7s 6.00nm	4.4mb
	0.8s 38.00nm	5.3mb	SIV	154.84 158 PKP	31 57.10 1.0	HHC	44.58 350 eP	54 40.80 -8.4X
DMN	54.53 312 P	21 33.40 -0.9		S.D. = 1.1 on 115 of 129 obs.		HYB	46.39 298 eP	55 03.00 -0.9
	0.8s 47.00nm	5.4mb		JAN 16, 1994 20h 39m 30.28± 0.45s		GTA	46.53 338 eP	55 00.00 -4.8X
GBA	54.81 292 Pc	21 33.90 -2.2		41.970 N ± 4.3km 19.489 E ± 4.7km			1.0s 9.00nm	4.7mb
	0.9s 6.00nm	4.4mb		DEPTH = 10.0km (geophysicist)		MAIO	69.18 311 eP	57 43.00 -1.1
GKN	55.09 312 P	21 37.40 -0.8		ALBANIA (391)		LPB	158.58 156 PKP	06 36.80 1.7
HYB	55.16 297 iPd	21 37.50 -1.2		ML 2.6 (TIR), 2.5 (TTG).		LPB	158.79 156 PKP	06 37.70 2.1
	1.2s 64.30nm	5.4mb					S.D. = 1.2 on 22 of 31 obs.	
POO	59.73 296 eP	22 09.50 -1.2	SDA	0.08 5 ePg	39 33.80 1.1		JAN 16, 1994 21h 13	



iS 24 36.30







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NP2: 150 85 36					N 13s 0.88um					WRA 45.97 165 P 27 55.00 0.2				
					E 12s 0.79um					0.6s 20.10nm 5.0mb				
QZH	3.94	271	iPd	20 42.40 -0.2	ePP 24 15.00					WB2 45.97 165 iPc 27 54.70 -0.1				
SSE	6.32	346	iPc	21 15.50 0.5	S 27 27.00					0.8s 6.70nm 4.4mb				
1.0s 1230.00nm 6.2mb X					LZH 19.81 309 iPd 24 06.20 0.6					iPcP 30 50.90				
					1.6s 1030.00nm 6.0mb					eS 34 28.00				
PIP	6.92	199	iPc	21 23.30 0.1	pP 24 32.00 153kmX					QIS 48.04 159 eP 28 11.30 0.3				
CVP	7.27	188	ePd	21 27.00 -0.9	S 27 43.00					MEEK 51.44 185 iPc 28 35.70 -1.2				
SZP	7.70	198	ePc	21 33.20 -0.5	SS 28 21.00					0.8s 32.00nm 5.2mb				
					ScP 31 42.00					ADK 52.62 43 eP 28 44.30 -1.1				
					ScS 35 22.00					MRWA 54.26 187 eP 28 56.00 -1.6				
NJ2	7.94	334	Pc	21 37.60 0.7	KKM 19.86 200 ePd 24 10.00 3.8X					MAIO 54.89 298 eP 29 02.00 -0.4				
					0.8s 59.40nm 5.0mb					eS 36 40.00				
HKC	8.45	254	eP	21 43.30 -0.5	MDJ 20.36 14 Pc 24 10.50 -0.5					COOL 55.53 182 eP 29 05.50 -1.3				
					1.0s 95.00nm 5.1mb					BAL 55.55 187 eP 29 05.80 -1.1				
BCP	8.75	195	eP	21 48.00 0.0	TSM 21.10 194 eP 24 19.50 0.9					KLB 56.43 185 iPc 29 12.40 -0.8				
BAG	8.77	195	ePc+	21 46.90 -1.3	LOE 21.13 253 iPd 24 19.80 1.0					0.8s 38.00nm 5.4mb				
1.3s 573.08nm 6.1mb					i 31 45.00					MUN 56.96 187 eP 29 16.20 -0.7				
					CHTO 23.06 259 iPd 24 39.00 1.2					NWAO 57.80 186 eP 29 22.40 -0.4				
GZH	8.96	260	iPd	21 50.50 -0.1	1.0s 150.00nm 5.3mb					RKG 59.45 186 eP 29 34.00 -0.2				
WHN	9.43	308	Pd	21 58.00 1.1	eS 28 49.80					ADE 61.43 165 eP 29 48.00 0.3				
1.0s 210.00nm 5.8mb					NST 23.25 251 eP 24 41.50 1.9					ARMA 61.53 152 eP 29 49.20 0.6				
					BDT 23.58 256 eP 24 43.00 0.2					0.8s 22.00nm 5.2mb				
QCP	10.40	190	eP	22 25.50 15.8X	1.0s 110.40nm 5.3mb					TTA 64.06 30 eP 30 03.80 -1.0				
QVP	10.42	190	eP	22 09.60 -0.5	GTA 24.22 312 iPd 24 48.50 -0.5					SVW 64.40 32 eP 30 06.90 -0.1				
TGY	10.94	190	ePc	22 18.00 1.0	1.5s 270.00nm 5.5mb					IMA 64.82 27 eP 30 09.10 -0.6				
GQP	10.99	182	ePd	22 19.00 1.5	Z 12s 0.66um 4.3MsZx					0.9s 5.50nm 4.5mb				
PGP	11.53	190	ePc	22 25.60 0.9	pP 25 18.00 145kmX					CNB 64.94 156 eP 30 11.10 0.3				
TIA	12.29	337	eP	22 37.10 2.5	eS 28 54.00					0.9s 29.00nm 5.2mb				
1.2s 230.00nm 5.6mb					ScP 31 52.00					TOO 65.70 160 eP 30 15.40 -0.1				
Z 12s 0.98um 5.3MsZx					PcS 32 07.00					0.6s 34.00nm 5.5mb				
E 10s 0.99um					ScS 35 37.50					iPp 30 56.90 175kmX				
					NNT 25.12 245 iPc 24 57.80 0.4					PWA 67.06 31 eP 30 22.80 -1.1				
QIZ	13.49	247	P	22 50.50 0.3	e 31 54.70					0.7s 39.20nm 5.4mb				
N 13s 2.20um					SHL 28.06 278 iP 25 23.50 -0.8					FBA 67.41 28 eP 30 25.90 -0.1				
					e 30 00.00					OBN 67.88 322 iPc 30 28.10 -1.0				
DL2	13.97	356	P	22 59.00 2.7	LSA 28.58 287 P 25 29.00 -0.3					1.4s 90.00nm 5.4mb				
1.2s 470.00nm 5.7mb					0.1s 79.00nm 6.4mb X					e 30 58.00 121km				
Z 10s 0.89um 4.4MsZ					sP 26 15.00					TOA 68.69 30 eP 30 34.20 0.1				
N 10s 0.86um					IRK 30.74 337 eP 25 48.00 0.3					SDF 69.70 336 eP 30 39.00 -1.1				
					1.3s 36.00nm 4.9mb					KAF 71.29 330 iP 30 48.00 -1.7				
MAP	14.57	176	ePd	23 07.00 3.0	e 26 13.30 115kmX					0.6s 10.30nm 4.8mb				
GYA	14.74	279	iPd	23 07.00 0.7	e 26 20.20					MBC 72.18 13 eP 30 54.50 -0.3				
1.2s 690.00nm 5.8mb					e 26 33.00					1.0s 12.00nm 4.6mb				
Z 10s 1.90um 4.7MsZ					e 34 00.00					NUR 72.56 329 iP 30 56.20 -1.1				
					e 34 38.00					0.6s 18.20nm 5.0mb				
XAN	15.19	310	P	23 12.50 0.7	GUN 33.23 283 P 26 09.40 -0.7					DAG 75.88 352 iPc 31 14.80 -1.3				
1.0s 290.00nm 5.5mb					PKI 33.67 283 P 26 12.60 -1.2					0.9s 5.88nm 4.4mb				
Z 10s 1.08um 4.2MsZ					KKN 33.77 283 P 26 14.20 -0.4					MLR 77.27 314 eP 31 29.00 4.4X				
					DMN 33.94 283 P 26 15.60 -0.4					RES 77.66 10 eP 31 25.00 -1.0				
TIY	15.56	327	Pd	23 20.50 4.1X	WMQ 34.31 312 Pc 26 17.50 -1.3					0.6s 4.00nm 4.4mb				
					1.5s 32.00nm 4.9mb					HFS 77.68 331 eP 31 24.90 -1.4				
					Z 11s 0.55um 4.5MsZx					0.8s 20.20nm 5.0mb				
BJI	16.09	341	Pc	23 24.50 1.6	E 12s 1.21um					Z 17s 0.10um 4.2MsZx				
1.2s 82.00nm 4.9mb					PP 27 38.00					LR 02 02.00				
					PcP 28 51.00					NB2 78.30 332 P 31 28.50 -1.3				
SNY	16.85	2	iPc	23 32.00 -0.3	S 31 34.00					0.6s 4.20nm 4.4mb				
1.5s 440.00nm 5.5mb					SS 32 21.00					SRS 80.60 311 eP 31 40.66 -1.8				
Z 14s 2.62um 4.8MsZx					ScP 32 23.50					PAIG 81.04 310 eP 31 41.02 -3.7X				
					PcS 32 33.00					KNT 81.05 311 iP 31 44.70 -0.2				
MAT	17.47	45	eP	23 38.00 -1.9	ScS 36 24.00					VAY 81.21 311 iP 31 45.40 -0.2				
0.8s 16.42nm 4.4mb					GKN 34.32 284 P 26 18.60 -0.6					1.0s 50.00nm 5.2mb				
					YAK 37.35 5 iPc 26 42.00 -2.1					GRG 81.48 311 eP 31 46.66 -0.5				
					0.9s 179.00nm 5.9mb					YKA 81.66 23 P 31 47.20 -0.3				
CTB	17.68	176	ePd	23 43.50 0.9	ePP 27 13.00 138km					0.7s 15.00nm 4.9mb				
DAV	17.93	171	eP	23 40.00 -5.6X	ePP 28 09.00					SKO 81.69 312 iP 31 48.40 0.3				
CD2	17.95	294	iPd	23 45.00 -0.8	eS 32 10.00					0.9s 43.00nm 5.2mb				
1.4s 960.00nm 5.9mb					eSS 33 18.00					LIT 81.79 310 eP 31 47.22 -1.5				
					eSS 35 07.00					BRG 82.11 323 iP 31 50.20 0.1				
KMI	18.30	275	Pd	23 50.00 0.1	eScS 36 38.00					0.6s 16.00nm 5.0mb				
1.8s 540.00nm 5.5mb					eSSS 39 08.00					i 31 52.40 7kmX				
					MTN 38.40 167 eP 26 53.00 -0.3					PRU 82.22 322 P 31 51.00 0.3				
					0.6s 58.00nm 5.6mb					CLL 82.40 323 iPd 31 51.20 -0.4				
NDI	40.78	286	iP	27 13.00 0.0	KSH 41.82 302 iPd 27 23.00 1.4					1.3s 23.00nm 4.8mb				
					1.0s 40.00nm 5.1mb					e 32 32.00 164kmX				
Z 20s	1.23um 4.8MsZ									KHC 83.19 321 P 31 56.00 0.2				
N 10s	1.00um									1.2s 15.00nm 4.7mb				
E 10s	1.00um									e 32 36.50 162kmX				
					PP 29 01.00					GEC2 83.26 321 e(P) 31 56.20 -0.1				
					SS 33 33.00					0.7s 6.00nm 4.6mb				
					SS 36 31.00					MOX 83.50 323 eP 31 57.80 0.5				
GBA	44.21	264	Pd	27 41.60 0.6	HOF 83.53 323 iPc 31 57.80 0.3					1.4s 15.00nm 4.7mb				
					0.7s 37.00nm 5.2mb					WET 83.58 322 iPc 31 58.30 0.5				
POO	45.84	272	iPd	27 55.00 1.1	LJU 84.19 318 iP 32 00.70 -0.1					84.22 323 eP 32 01.60 0.7				
					1.0s 70.00nm 5.3mb					GRF 1.2s 17.00nm 4.8mb				
MBL	45.92	184	eP	27 53.10 -1.2										



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BHG	84.31	320	iPc	32	02.20	0.8	BRLK	0.56	178	eP	05	42.01	-0.7	LIT	0.68	121	ePg	58	47.80	0.3	
VOY	84.58	319	iP	32	02.20	-0.7			eS	05	51.60			GRG	0.72	46	ePg	58	48.33	0.2	
		i		32	04.50	7kmX	HOM	0.76	209	eP	05	44.82	-0.3			iSg	58	57.77			
FUR	85.00	321	iPd	32	05.50	0.6			eS	05	55.24			KNT	1.13	51	ePg	58	53.92	-1.3	
	1.0s	56.00nm				5.4mb	SEW	0.77	106	eP	05	44.19	-1.0			eSg	59	10.20			
WTS	85.27	326	eP	32	07.00	0.9	MPA	0.79	77	eP	05	44.86	-0.7	SOH	1.29	73	ePb	58	57.56	-0.4	
	0.7s	8.20nm				4.7mb	CNPM	0.82	191	iP	05	45.11	-0.8	IGT	1.41	230	ePb	58	58.84	-0.9	
OGA	85.83	320	iPc	32	09.50	0.2			eS	05	56.58			PAIG	1.59	109	ePb	59	03.36	1.2	
ENN	86.44	325	eP	32	12.00	0.1	REF	0.90	281	iP	05	46.32	-0.8		S.D. = 1.1	on	7	of	7	obs.	
	1.0s	16.00nm				4.9mb	DFR	0.91	288	eP	05	46.37	-0.8								
JCW	86.93	37	P	32	15.30	0.9	RSO	0.92	279	eP	05	46.58	-0.8		% JAN 17, 1994	09h	11m	02.59±	0.64s		
WLF	86.96	324	iPc	32	15.31	0.9	RS2	0.92	279	eP	05	46.62	-0.8								
	1.1s	14.90nm				4.9mb	RED	0.92	277	eP	05	46.45	-0.9								
CDF	87.09	323	eP	32	14.70	-0.5			eS	05	59.49										
	1.1s	26.35nm				5.1mb	RDW	0.95	280	eP	05	47.05	-0.7								
BMW	87.16	39	P	32	16.68	1.1	BKG	1.00	319	eP	05	47.68	-0.6		FNA	0.48	301	iPg	11	11.72	-0.6
DOU	87.52	325	Pc	32	17.40	0.3	NCT	1.02	284	eP	05	48.07	-0.6				eSg	11	19.76		
	0.9s	25.00nm				5.2mb	SPU	1.02	328	iP	05	47.96	-0.7	GRG	0.56	41	ePg	11	14.60	0.6	
BSF	87.69	323	eP	32	17.10	-1.0			eS	06	02.24			LIT	0.62	135	iPg	11	14.69	-0.4	
FMW	87.79	38	P	32	19.51	0.7	ILIM	1.05	257	iP	05	47.99	-1.0				eSg	11	23.00		
LON	87.82	38	P	32	19.35	0.6			eS	06	02.44			THE	0.81	83	ePg	11	17.72	-0.5	
HAU	87.83	323	eP	32	17.80	-0.9	CKT	1.08	325	eP	05	48.71	-0.8				eSg	11	29.08		
	1.0s	11.60nm				4.9mb	CKN	1.09	326	eP	05	49.13	-0.5	KNT	0.97	50	ePg	11	20.80	-0.3	
ASR	88.28	39	P	32	21.97	0.9	CKL	1.12	322	eP	05	49.54	-0.5	SOH	1.13	75	ePg	11	24.08	0.3	
WTV	88.30	37	P	32	21.48	0.5	CGLM	1.12	332	eP	05	49.56	-0.5	SRS	1.40	65	ePb	11	28.40	0.2	
EBG	88.42	38	P	32	22.72	1.1	CRP	1.12	328	eP	05	49.01	-1.1				eSb	11	46.40		
SAW	88.60	37	P	32	23.00	0.6			eS	06	03.84			IGT	1.58	231	ePb	11	31.24	0.6	
LPG	89.06	321	eP	32	24.60	-0.4	CP2	1.14	326	ePd	05	49.64	-0.8		S.D. = 0.6	on	8	of	8	obs.	
	1.0s	19.00nm				5.1mb	SUA	1.15	4	eP	05	49.83	-0.6								
LPL	89.06	321	eP	32	24.50	-0.4	BGL	1.18	323	eP	05	50.42	-0.5		? JAN 17, 1994	09h	45m	13.04±	1.44s		
	1.0s	19.00nm				5.1mb	NGC	1.24	331	iP	05	51.27	-0.4								
WAH2	89.07	38	P	32	25.74	1.1	OPT	1.34	241	eP	05	52.59	-0.4								
CROR	89.30	40	P	32	26.63	0.8	PWL	1.39	66	iP	05	52.35	-1.3								
LOR	89.62	323	eP	32	26.90	-0.3			eS	06	09.85										
	0.8s	3.35nm				4.5mb	PWA	1.42	21	P	05	54.00	-0.2		WESTERN IRAN					(347)	
LBF	89.73	323	eP	32	26.70	-1.1	PLRM	1.54	34	eP	05	54.70	-1.1								
	1.0s	14.40nm				5.0mb	PMR	1.54	34	eP	05	54.00	-1.8	MJMA	6.66	215	eP	46	51.30	0.1	
VIPM	89.79	40	P	32	29.28	1.0	AUE	1.57	233	eP	05	55.44	-0.7				eS	48	10.00		
SSF	89.94	323	eP	32	27.70	-1.0	AUL	1.58	234	eP	05	56.40	0.0	RYD	7.14	202	eP	46	58.60	0.7	
SMF	90.01	323	eP	32	28.20	-0.8	AUH	1.60	234	eP	05	56.64	0.0				eS	48	17.00		
	1.0s	19.60nm				5.1mb	AUW	1.60	234	eP	05	56.42	-0.2	QASM	7.45	226	eP	47	06.00	3.7X	
YBH	90.13	43	ePc	32	30.86	1.1	KNK	1.63	47	iP	05	55.84	-1.2				eS	48	25.60		
	1.3s	20.00nm				5.0mb	MTU	1.67	100	iP	05	55.94	-1.7	UQSK	8.41	230	iPc	47	16.10	0.4	
AVF	90.19	323	eP	32	28.90	-0.9	SKT	1.69	350	eP	05	57.34	-0.5				eS	48	48.60		
	1.2s	22.30nm				5.1mb	PDB	1.73	253	eP	05	57.41	-1.0	AFIF	9.19	219	eP	47	30.60	4.2X	
LNOR	90.31	38	P	32	30.74	0.3	GHO	1.75	33	eP	05	57.80	-1.0				eS	49	14.00		
LMR	90.46	319	eP	32	30.40	-0.7	CFI	1.77	60	eP	05	57.26	-1.8	KMSA	11.88	203	ePc	48	02.00	-1.2	
	1.2s	25.00nm				5.2mb	SYI	1.88	204	eP	05	59.62	-0.9				eS	50	20.00		
LRG	90.48	319	eP	32	30.80	-0.4	SML	1.95	39	eP	06	00.42	-1.2	BADA	12.89	261	eP	48	28.00	11.4X	
WDC	90.88	44	eP	32	33.95	0.8	CDD	1.97	226	eP	06	01.02	-0.8	GEC2	32.05	313	P	51	46.00	7.1X	
	1.4s	30.00nm				5.3mb	HIN	2.20	86	eP	06	02.23	-2.9		0.5s	0.46nm		3.6mb			
MAF	90.97	323	eP	32	33.10	-0.3	FID	2.24	77	eP	06	02.30	-3.3				e	51	50.50		
	1.3s	31.05nm				5.3mb	VZW	2.27	69	eP	06	03.66	-2.5	KAF	34.17	341	eP	51	57.00	0.0	
TCF	91.12	323	eP	32	33.80	-0.3	VLZ	2.40	68	eP	06	05.60	-2.2	HFS	37.24	331	eP	52	22.30	-0.7	
FRB	91.15	5	eP	32	33.00	-0.9	CVA	2.58	83	eP	06	08.00	-2.3		0.4s	2.70nm		4.4mb			
	1.0s	4.00nm				4.5mb	KLU	2.71	62	eP	06	10.34	-2.0	YKA	85.55	353	eP	57	49.40	0.7	
MIN	91.60	44	eP	32	37.15	0.5	TOA	2.91	50	P	06	14.00	-1.3		0.6s	0.90nm		4.2mb			
	1.1s	10.00nm				4.9mb	TZL	3.17	55	eP	06	17.41	-1.5		S.D. = 0.9	on	7	of	11	obs.	
CAF	92.05	322	eP	32	38.60	0.1	GLB	3.65	69	eP	06	22.62	-3.1								
	1.0s	18.40nm				5.3mb	PAX	3.72	42	eP	06	25.30	-1.4	? JAN 17, 1994	10h	14m	54.25±	4.88s			
RJF	92.11	323	eP	32	38.80	0.1	FBA	4.81	16	eP	06	39.72	-2.3								
	1.2s	44.65nm				5.6mb	IL1	4.84	21	eP	06	40.48	-1.9								
ORV	92.12	44	ePc	32	39.49	0.6	ILB	4.84	21	eP	06	40.69	-1.7		CHILE-ARGENTINA BORDER REGION					(127)	
	1.0s	10.00nm				5.0mb	BC3	5.15	54	eP	06	44.14	-2.6		MD 3.8 (SAN).						
CMB	93.71	45	ePc	32	46.95	0.7															
	1.0s	30.00nm				5.5mb								JACH	1.03	196	iP+	15	18.46	-0.3	
ULM	97.62	24	eP	33	06.00	2.2											iS	15	37.54		
KIC	120.35	294	PKP	38	15.20	-5.9X								ROCH	1.43	207	iPd	15	22.92	0.1	
TOV	143.32	21	ePKP	39	02.10	-2.2											iS	15	44.90		
SDV	143.87	23	iPKPd	39	03.30	-2.1								PEL	1.49	194	iPd	15	23.46	0.1	
LPB	166.54	52	PKP	39	35.70	0.6											iS	15	45.46		
		i		40	37.10												iP+	15	25.32	0.1	
		LR		51	16.00												iS	15	49.57		
LPB	166.72	53	PKPc	39	37.20	2.3								PCH	1.93	186	iP	15	28.67	0.2	
	</																				



17d 11h

13.016 N  $\pm 15.2$ km 60.542 W  $\pm 35.0$ km  
 DEPTH = 70.0km (geophysicist)  
 WINDWARD ISLANDS ( 95 )  
 MD 3.1 (TRN).

SVV	0.72	295	eP	37	32.77	-0.2
			eS	37	41.99	
SVB	0.74	290	eP	37	33.20	0.1
			eS	37	43.00	
SLB	0.94	329	eP	37	35.75	0.1
			eS	37	48.05	
GRW	1.39	232	eP	37	41.49	0.0
			eS	37	58.15	
MVM	1.57	347	eP	37	43.83	0.0
			S	38	02.70	
BIM	1.58	341	eP	37	43.60	-0.4
FDF	1.81	341	eP	37	47.60	0.4
	S.D. = 0.3	on	7 of 7 obs.			

& JAN 17, 1994 12h 03m 27.40s  
 60.330 N 150.936 W  
 DEPTH = 59.4km  
 2.6mb ( 1 obs.)  
 KENAI PENINSULA, ALASKA ( 14 )  
 <AEIC>. ML 2.8 (AEIC).

SLKM	0.40	63	eP	03	37.89	-0.5
NKA	0.44	340	eP	03	40.02	1.3
BRLK	0.57	177	eP	03	39.51	-0.7
			eS	03	48.88	
HOM	0.76	208	eP	03	42.20	-0.3
SEW	0.78	106	eP	03	41.50	-1.1
			eS	03	53.72	
MPA	0.80	78	eP	03	42.19	-0.7
CNPM	0.82	191	eP	03	42.47	-0.8
			eS	03	53.93	
REF	0.89	281	eP	03	43.70	-0.6
DFR	0.91	288	eP	03	43.72	-0.7
RSO	0.91	279	eP	03	43.96	-0.6
RS2	0.91	279	eP	03	44.00	-0.6
RED	0.92	276	eP	03	43.81	-0.7
RDW	0.94	280	eP	03	44.27	-0.7
BKG	0.99	319	iP	03	45.04	-0.5
			eS	03	59.15	
NCT	1.02	284	eP	03	45.33	-0.5
SPU	1.02	328	eP	03	45.32	-0.5
ILIM	1.04	257	iP	03	45.32	-0.8
			eS	03	59.44	
CKT	1.07	325	iP	03	46.09	-0.5
CKN	1.09	326	eP	03	46.50	-0.3
CKL	1.11	322	eP	03	46.78	-0.4
CGLM	1.11	332	eP	03	46.88	-0.3
CRP	1.11	328	eP	03	46.33	-0.9
CP2	1.14	326	eP	03	46.98	-0.6
SUA	1.14	5	eP	03	47.20	-0.4
			eS	04	03.33	
BGL	1.18	323	eP	03	47.77	-0.3
OPT	1.34	240	eP	03	49.63	-0.6
PWL	1.39	66	eP	03	49.70	-1.2
PWA	1.42	21	P	03	51.20	-0.1
PLRM	1.54	34	eP	03	52.02	-0.9
PMR	1.54	34	eP	03	51.72	-1.2
AUE	1.57	233	eP	03	53.01	-0.3
AUL	1.58	234	eP	03	53.35	-0.1
AUH	1.59	234	eP	03	53.61	-0.2
AUW	1.60	234	eP	03	53.68	-0.1
AUI	1.61	233	eP	03	53.51	-0.4
KNK	1.63	47	eP	03	53.24	-1.0
MTU	1.68	100	eP	03	53.28	-1.6
SKT	1.68	350	eP	03	54.70	-0.2
PDB	1.72	253	eP	03	54.69	-0.8
GHO	1.75	33	eP	03	55.06	-0.9
CFI	1.78	60	eP	03	54.57	-1.6
SYI	1.88	204	eP	03	56.82	-0.8
SML	1.95	39	eP	03	57.67	-1.0
CDD	1.97	226	eP	03	58.24	-0.7
CUT	2.11	8	eP	04	00.55	-0.3
HIN	2.20	86	eP	03	59.61	-2.7
FID	2.24	77	eP	03	59.65	-3.1
VZW	2.28	69	eP	04	01.03	-2.3
VLZ	2.40	68	eP	04	02.80	-2.1
CVA	2.58	83	eP	04	04.93	-2.5
KDC	2.71	198	(P)	04	10.36	-1.0
KLU	2.71	62	eP	04	07.66	-1.8
TOA	2.91	50	P	04	11.50	-0.8
TZL	3.18	55	eP	04	14.76	-1.2
DHY	3.24	30	eP	04	16.69	-0.3

TTA 3.56 319 eP 04 19.03 -2.4  
 YKA 17.37 67 eP 07 23.60 -3.2  
 0.7s 0.30nm 2.6mb  
 57 obs. associated

& JAN 17, 1994 12h 30m 55.39s  
 34.213 N 118.537 W  
 DEPTH = 18.4km  
 6.4mb (142 obs.) 6.8Msz ( 38 obs.)  
 SOUTHERN CALIFORNIA ( 43 )  
 Mw 6.7 (GS), 6.7 (HRV). <PAS-P>.  
 Mw 6.7 (PAS). ML 6.7 (BRK).  
 Mo=3.6\*10\*\*19 Nm (PPT).  
 Mo=1.2\*10\*\*19 Nm (BRK). Sixty  
 people were killed, more than  
 7,000 injured, 20,000 homeless  
 and more than 40,000 buildings  
 damaged in Los Angeles, Ventura,  
 Orange and San Bernardino  
 Counties. Severe damage occurred  
 in the San Fernando Valley:  
 maximum intensities of (IX) were  
 observed in and near Northridge  
 and in Sherman Oaks. Lesser, but  
 still significant damage  
 occurred at Fillmore, Glendale,  
 Santa Clarita, Santa Monica,  
 Simi Valley and in western and  
 central Los Angeles. Damage was  
 also sustained to Anaheim  
 Stadium. Collapsed overpasses  
 closed sections of the Santa  
 Monica Freeway, the Antelope  
 Valley Freeway, the Simi Valley  
 Freeway and the Golden State  
 Freeway. Fires caused additional  
 damage in the San Fernando  
 Valley and at Malibu and Venice.  
 Preliminary estimates of damage  
 are between 13 and 20 billion  
 U.S. dollars. Felt throughout  
 much of southern California and  
 as far away as Turlock,  
 California; Las Vegas, Nevada;  
 Richfield, Utah and Ensenada,  
 Mexico. The maximum recorded  
 acceleration exceeded 1.0g at  
 several sites in the area with  
 the largest value of 1.8g  
 recorded at Tarzana, about 7 km  
 south of the epicenter. A  
 maximum uplift of about 15 cm  
 occurred in the Santa Susana  
 Mountains and many rockslides  
 occurred in mountain areas,  
 blocking some roads. Some ground  
 cracks were observed at Granada  
 Hills and in Potrero Canyon.  
 Some liquefaction occurred at  
 Simi Valley and in some other  
 parts of the Los Angeles Basin.  
 Two events about 2.3 seconds  
 apart. Depth 19.4 km from  
 broadband displacement  
 seismograms, based on first  
 event.  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=282 Dip=60 Slip= 112  
 NP2: 63 37 57  
 Principal Axes:  
 T Plg=67 Azm=235  
 P 12 356  
 Comment: The focal mechanism is  
 moderately well controlled  
 and corresponds to reverse  
 faulting with a moderate left-  
 lateral strike-slip  
 component. The preferred  
 fault plane is NP2.  
 RADIATED ENERGY  
 No. of sta: 16 Focal mech. M  
 Energy 1.1 $\pm$ 0.1\*10\*\*14 Nm  
 MOMENT TENSOR SOLUTION  
 Dep 21 No. of sta: 17  
 Moment Tensor; Scale 10\*\*19 Nm  
 Mrr= 1.08 Mtt=-1.07  
 Mff=-0.01 Mrt=-0.25

Mrf=-0.19 Mtf= 0.34  
 Principal axes:  
 T Val= 1.15 Plg=76 Azm=125  
 N 0.04 13 284  
 P -1.19 5 15  
 Best Double Couple:Mo=1.2\*10\*\*19  
 NP1:Strike=119 Dip=42 Slip= 110  
 NP2: 274 51 73  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 43S, \*\*C M.W.: 42S, 83C  
 Centroid Location:  
 Origin Time 12:31: 3.5 0.1  
 Lat 34.44N 0.01 Lon 118.64W 0.01  
 Dep 16.8 0.4 Half-duration 5.4  
 Moment Tensor; Scale 10\*\*19 Nm  
 Mrr= 1.08 0.01 Mtt=-0.94 0.01  
 Mff=-0.14 0.01 Mrt= 0.05 0.02  
 Mrf=-0.40 0.03 Mtf= 0.44 0.01  
 Principal Axes:  
 T Val= 1.20 Plg=73 Azm= 97  
 N -0.05 16 297  
 P -1.15 6 205  
 Best Double Couple:Mo=1.2\*10\*\*19  
 NP1:Strike=278 Dip=42 Slip= 65  
 NP2: 130 53 111

TPRS	0.13	198	iPd	30	58.97	-0.5
GFP	0.21	114	iPc	30	59.83	-0.7
PAS	0.31	102	iPc	31	01.56	-0.6
MWC	0.40	88	iPd	31	03.19	-0.6
LEOC	0.46	25	iPd	31	03.81	-1.0
LOMS	0.47	153	iPc	31	04.71	-0.1
LCL	0.47	143	iPd	31	05.74	0.8
PVRC	0.48	163	iPd	31	04.50	-0.5
TCC	0.49	116	eP	31	04.86	-0.3
PEM	0.56	95	iPc	31	05.62	-0.7
SSK	0.70	90	eP	31	08.31	-0.6
CIS	0.81	172	iPd	31	09.83	-0.9
ABL	0.85	319	iPd	31	10.35	-1.1
SS2	0.86	90	eP	31	11.22	-0.4
PLEC	0.87	330	iPd	31	11.40	-0.4
RVR	0.99	102	iPc	31	12.66	-1.0
SNS	1.13	133	iPc	31	14.78	-1.3
PEC	1.19	105	iPc	31	15.33	-1.7
MDA	1.31	103	eP	31	17.70	-1.1
CRGC	1.42	317	P	31	19.87	-0.5
BCH	1.60	308	iPd	31	22.35	-0.7
PLM	1.64	121	ePc	31	22.01	-1.6
PSP	1.70	104	iPc	31	23.41	-1.0
GSC	1.79	52	eP	31	24.97	-0.8
INDC	1.96	101	iPc	31	27.25	-0.8
PMGM	2.03	307	P	31	27.93	-1.3
COY	2.04	114	ePc	31	27.57	-1.7
FRGC	2.11	102	iPc	31	28.98	-1.4
PSRM	2.18	319	P	31	29.94	-1.4
PHAM	2.23	317	iPd	31	30.75	-1.2
PKEM	2.25	326	eP	31	31.23	-1.1
PSTM	2.35	317	P	31	32.75	-1.0
PARM	2.51	324	P	31	34.99	-1.0
IKP	2.56	127	iPd	31	35.59	-1.2
SUP	2.59	118	iPc	31	34.71	-2.4
PWMM	2.60	329	P	31	37.84	0.5
PSAM	2.64	314	P	31	36.06	-1.8
LRC	2.88	315	P	31	39.27	-2.0
MTUM	3.13	360	ePd	31	45.02	0.0
BAPM	3.21	308	P	31	43.52	-2.5
RUN	3.22	112	iPc	31	43.77	-2.3
TPNV	3.31	34	ePnd	31	46.57	-0.9
			ePb	31	56.08	
			ePg	32	02.21	
			eSg	32	44.56	
BPOM	3.32	308	P	31	44.88	-2.6
BHRM	3.35	319	P	31	46.64	-1.3
BPRM	3.41	311	P	31	46.10	-2.7
MMPM	3.41	353	eP	31	48.95	-0.2
BSLM	3.44	319	P	31	47.65	-1.4
MRCM	3.45	0 (P)		31	48.88	-0.7
MEMM	3.46	355	eP	31	49.98	0.5
SAO	3.48	318	ePnd	31	47.07	-2.7
			eS	32	38.71	
HSFM	3.54	318	P	31	49.29	-1.4
DIL	3.64	317	P	31	49.47	-2.6
ANZ	3.65	318	P	31	50.43	-1.7
HERM	3.65	316	P	31	50.02	-2.2
CBC	3.72	318	P	31	51.40	-1.8
BONR	3.74	3	eP	31	53.76	0.0



17d 12h

HSPM	3.78	321	P	31	52.00	-2.1	ERK	12.42	348	P	33	54.10	0.0	epPd	37	20.44	20kmX				
ARN	3.97	323	eP	31	54.07	-2.6	HBMT	12.42	20	iPd	33	56.23	1.9	esPd	37	23.25					
COE	3.97	321	eP	31	54.18	-2.4	MXC	12.42	354	P	33	55.42	1.4	TYNO	31.24	62	P	37	17.28	1.3	
TNP	4.01	15	iPd	31	57.29	-0.1	LRM	12.49	20	iPd	33	57.55	2.3	SGS	31.53	81	eP	37	17.28	-1.3	
MHC	4.01	322	ePd	31	55.24	-2.2	OT2	12.51	358	P	33	56.60	1.4	HBFB	31.70	81	eP	37	18.64	-1.4	
			eS	32	52.96		WAH2	12.55	357	P	33	57.15	1.4	STCO	31.76	62	P	37	22.10	1.6	
CMB	4.10	339	ePd	31	57.19	-1.4	GLK	12.56	350	P	33	56.88	0.9	CEH	32.19	76	iPc	37	22.13	-2.2	
			eS	32	53.67		CRF	12.62	357	P	33	57.78	1.2		0.6s	117.39nm			6.0mb		
STAN	4.34	318	eP	31	59.89	-2.1	NAC	12.63	353	P	33	57.76	0.9		ec	37	24.45				
JEGM	4.58	317	eP	32	02.14	-3.3	BUT	12.64	19	iPd	33	59.20	2.1		epP	37	27.93	20kmX			
BKS	4.73	322	ePd	32	04.29	-3.2	WPW	12.68	351	P	33	58.57	1.0		esPd	37	30.99				
			eS	33	11.44		WRD	12.75	358	P	33	59.52	1.1	YSNY	32.20	63	ePc	37	22.80	-1.6	
HMR	4.74	327	eP	32	06.02	-1.6	BMW	12.76	345	eP	33	57.71	-0.9		ec	37	25.37		6.4mb		
KVN	4.84	4	eP	32	09.12	-0.1	LMW	12.76	348	P	33	59.24	0.5		epP	37	28.51	20kmX			
NTYM	5.33	323	eP	32	13.24	-2.8	LON	12.77	350	eP	33	58.79	0.1		esPd	37	31.49				
ARUT	5.46	48	eP	32	17.41	-0.6	EBG	12.78	354	P	33	59.95	1.1	KLU	32.43	336	eP	37	26.28	0.1	
ORV	5.84	337	ePd	32	21.29	-1.8	REMR	12.84	350	P	34	00.96	1.2	CVL	32.43	72	eP	37	24.45	-1.9	
			eS	33	31.14		RCS	12.87	350	P	34	02.04	1.6	KDC	32.75	326	eP	37	28.10	-0.8	
MIN	6.59	339	ePd	32	31.88	-2.0	FMW	12.92	350	P	34	02.07	1.1		1.5s	603.02nm			6.3mb		
MSU	6.69	48	eP	32	35.26	-0.1	TBM	13.04	354	P	34	03.85	1.5	TOA	32.94	336	eP	37	31.90	1.2	
LMEM	6.76	340	eP	32	36.47	0.2	EPH	13.15	357	P	34	04.03	0.3	CBN	33.26	71	eP	37	32.50	-1.1	
TUC	6.77	104	eP	32	33.59	-2.7	SXM	13.16	23	iPd	34	06.97	2.8		e	38	31.00				
	0.7s	21.49nm			5.3mb	X	OD2	13.17	359	P	34	07.85	3.9		e	38	58.00				
WDC	7.11	335	eP	32	37.99	-3.0	GSM	13.21	350	P	34	05.57	1.0	SLKM	33.35	332	eP	37	34.01	-0.2	
	1.1s	195.63nm			6.1mb	X	MEW	13.34	348	P	34	08.12	1.9	PMR	33.63	334	eP	37	36.64	0.1	
LGPM	7.50	334	eP	32	44.09	-2.6	ETW	13.45	355	P	34	08.48	0.7		1.2s	1093.17nm			6.7mb		
DUG	7.52	36	eP	32	45.79	-1.1	RMW	13.46	350	eP	34	07.89	0.0	Z	20s	151.96um			6.7Msz		
LBPM	7.60	341	eP	32	46.98	-1.1	HRY	13.48	20	ePd	34	10.34	2.1	AUP	34.02	328	eP	37	39.05	-1.0	
KMPM	7.62	326	eP	32	46.43	-1.9	SAW	13.49	357	P	34	08.71	0.4	GAC	34.55	58	eP	37	43.00	-1.7	
FHC	7.87	328	eP	32	49.38	-2.4	WTW	13.51	356	P	34	09.52	0.9	CRP	34.57	332	eP	37	44.31	-0.6	
SRU	8.08	50	eP	32	55.42	0.6	LTX	13.55	107	eP	34	07.17	-2.0	CP2	34.60	332	eP	37	44.87	-0.3	
EMUT	8.33	46	eP	32	59.45	1.1	DPW	13.65	1	eP	34	10.83	0.5	RSNY	35.17	60	eP	37	48.43	-1.6	
DAU	8.48	41	eP	33	01.11	0.6	GMW	13.70	348	eP	34	09.42	-1.6		1.0s	129.71nm			5.8mb		
LAB	8.51	342	P	33	01.57	0.9	HTW	13.79	351	P	34	12.44	0.2	COL	35.45	339	ePc	37	52.09	-0.1	
VRG	8.61	341	P	33	05.12	3.2	NEW	14.08	4	eP	34	16.56	0.6		1.5s	696.49nm			6.3mb		
PV09	8.71	58	eP	33	03.53	-0.1	OWW	14.16	344	P	34	17.01	-0.1		ec	37	54.41				
PV10	8.72	59	eP	33	02.90	-0.9	JCW	14.20	351	P	34	21.18	3.7		epPd	37	57.72	19kmX			
HVU	8.81	29	eP	33	04.85	-0.1	STW	14.44	346	P	34	23.35	2.6		esPd	37	59.54				
PV08	9.08	59	eP	33	08.37	-0.5	MCW	14.80	349	eP	34	24.80	-0.7	FBA	35.45	339	eP	37	51.15	-1.0	
BBOR	9.25	341	P	33	12.56	1.6	RSSD	14.96	44	eP	34	27.04	-0.7	GMTN	35.49	66	iP	37	51.70	-1.1	
DBO	9.62	339	P	33	16.11	0.1		1.5s	3117.22nm			6.5mb	PAL	35.69	66	eP	37	53.34	-1.1		
NCOR	9.69	349	P	33	19.46	2.4	MZX	15.26	133	iP	34	33.20	1.7	SDN	35.77	319	eP	37	54.40	-0.5	
PTI	9.90	27	(P)	33	20.90	1.0	ACO	16.00	76	iPc	34	41.20	0.2		1.3s	581.20nm			6.3mb		
HSO	9.95	340	P	33	22.96	2.4	WMOK	16.30	83	eP	34	44.52	-0.4	MHA	35.84	257	(P)	37	54.42	-1.5	
ALQ	9.99	82	eP	33	19.56	-1.6		1.1s	1027.48nm			5.9mb	SVW	35.87	330	eP	37	54.95	-0.9		
			eS	36	08.62		MEO	16.46	82	iPd	34	46.40	-0.5		0.9s	375.79nm			6.3mb		
HBO	10.06	344	P	33	24.45	2.4	OCO	17.34	80	e(P)	35	00.00	2.1	HPO	36.13	255	(P)	37	57.42	-0.9	
TCO	10.16	347	P	33	26.65	3.1	PCO	17.73	76	iPc	35	04.20	1.3	LSCT	36.16	64	ePc	37	57.62	-0.9	
GMO	10.38	350	P	33	28.64	2.1	TUL	18.69	78	iPd	35	14.30	-0.4		1.6s	670.31nm			6.3mb		
VIEM	10.41	352	P	33	28.60	1.7	UYO	19.91	83	iPc	35	26.70	-2.1			ePP	39	15.35			
FBO	10.56	344	P	33	30.31	1.5	MRX	21.12	129	iPc	35	43.80	2.5	KKH	36.20	256	eP	37	58.79	-0.2	
BPO	10.70	348	P	33	33.13	2.1	CRX	22.32	127	iP	35	56.50	2.7	OPA	36.81	261	eP	38	03.35	-0.8	
CROR	10.92	351	P	33	35.48	1.7	CCM	22.34	72	ePc	35	53.77	0.2	DHH	36.85	260	eP	38	04.34	-0.1	
MPOR	10.98	341	P	33	35.61	0.9		1.7s	2986.41nm			6.5mb	HON	36.98	260	P	38	14.79	9.3		
SSOR	11.05	345	P	33	36.20	0.6	UNM	22.71	126	iP	36	01.20	3.6	Z	18s	110.39um			6.7Msz		
VTHM	11.06	353	P	33	37.30	1.6	FVM	22.99	72	eP	35	59.47	-0.5		S	44	12.86				
BW06	11.07	37	eP	33	36.16	0.2		1.2s	1038.35nm			6.2mb	TTA	37.01	332	eP	38	04.33	-1.1		
	2.5s	201.87nm			6.0mb	X	ULM	23.07	39	eP	36	02.00	1.4		1.0s	231.18nm			5.9mb		
VBEM	11.08	349	P	33	38.80	2.7	PPM	23.27	125	iP	36	05.50	2.2	LBNH	37.03	60	ePc	38	04.93	-0.8	
JBO	11.28	355	P	33	40.68	2.0	ELC	23.94	74	eP	36	08.69	-0.5		1.3s	505.02nm			6.2mb		
GT2	11.30	346	P	33	39.90	1.0	OXF	24.01	81	ePc	36	10.07	0.2	Z	19s	104.88um			6.6Msz		
TDH	11.34	348	P	33	41.22	1.6		2.1s	1495.03nm			6.2mb			ePP	39	24.42				
VGB	11.42	352	eP	33	41.76	1.2	SIT	25.54	339	eP	36	24.65	0.3	HRV	37.36	63	ePc	38	08.34	-0.1	
LTMT	11.43	24	ePd	33	43.38	2.4		1.2s	409.36nm			6.0mb			es	43	57.13				
MCMT	11.47	21	iPd	33	44.64	3.2	Z	19s	122.10um			6.4Msz			epPd	38	14.14	19kmX			
VLL	11.49	349	P	33	43.73	2.1	OXX	25.94	126	iP	36	31.20	2.6		esPd	38	16.95				
VLMM	11.63	348	P	33	44.70	1.3	MYNC	28.24	78	ePc	36	47.94	-1.4	IMA	38.05	338	eP	38	13.97	-0.3	
LNOR	11.65	1	P	33	45.83	2.2		1.4s	814.26nm			6.3mb			1.3s	518.95nm			6.2mb		
TPMT	11.76	25	ePd	33	47.83	2.4	YKA	28.41	4	P	36	50.40	-0.1	ANM	41.44	332	eP	38	42.10	0.0	
GL2	11.86	352	P	33	47.91	1.3		1.0s	87.00nm			5.5mb	BRU	41.59	119	iPc	38	47.04	2.7		
GOL	11.87	59	eP	33	47.49	0.6	GOGA	29.07	82	ePc	36	55.43	-1.3	DVD	41.92	119	iPc	38	49.73	3.2	
GULW	11.93	350	P	33	48.82	1.3		1.4s	467.61nm			6.1mb	LMN	42.02	57	eP	38	47.50	0.4		
GLD	11.99	59	eP	33	49.24	0.7	PRM	29.84	80	eP	37	02.50	-1.2	MBC	42.12	360	Pc	38	49.30	1.8	
PRW	12.02	356	P	33	50.53	1.9	DLA	29.98	62	P	37	05.10	0.3		1.0s	5051.00nm			7.2mb		
BGMT	12.08	22	ePd	33	52.59	2.9	ELF	30.19	62	P	37	05.80	-1.0		PP	40	34.10				
MTMW	12.13	348	P	33	50.27	0.1	LDN	30.28	62	P	37	06.60	-0.9		PcP	40	44.40				



UPA	43.70 Z 20s	116 iP+ 39.01um	39 00.71 6.3Msz	-0.4 169kmX
		pP eS	39 38.00 45 24.00	
ADK	44.74 1.0s	312 ePc 165.63nm	39 07.82 5.9mb	-1.3
		ec epPd	39 09.97 39 13.62	19kmX
SJG	49.16 1.7s	95 ePc 1945.26nm	39 43.34 6.9mb	-0.9
		ec epPd	39 45.74 39 49.05	19kmX
GDH	49.63 2.0s	25 ePc 4411.77nm	39 52.36 46 46.50	-0.7
		i iPc	46 55.00 39 52.00	2.6
BMG	49.81 50.34	112 iPc 313 P-	39 58.33 47 12.53	5.5
SMY		S SS	51 07.92 39 56.00	
PSO	50.59	122 eP	39 54.30	-1.2
SDV	50.59	108 ePc	39 57.50	1.5
BOG	50.63	115 iP	47 14.00	
		eS	39 55.90	-0.4
TOV	50.72	107 ePc	39 57.40	0.9
CANV	50.76	105 eP	39 53.10	-7.4
MORO	51.26	105 eP	40 08.00	-2.5
CAR	52.59	104 iPd	40 05.00	-10.2
BPA	53.24	94 eP	40 15.00	-5.0
PAG	53.89	95 eP	40 16.00	-6.7
DEG	54.26	94 eP	40 25.67	-2.5
FDF	55.00	96 eP	53 18.00	
		S	40 30.75	-1.5
SLB	55.56	97 eP	40 33.00	-0.1
SVB	55.68	97 eP	40 37.20	0.5
TPT	56.21	214 iPd	40 38.30	0.6
		1.8s 2085.40nm	6.9mb	
PMO	56.36	215 iPd	40 38.90	0.6
		1.7s 2070.40nm	7.0mb	
VAH	56.44	214 iPd	40 42.00	-0.4
		1.7s 2623.30nm	6.8mb	
TRN	56.99	100 eP	40 55.00	-2.0
DAG	59.19	15 iPd+	40 58.80	0.6
		1.3s 1096.15nm	7.0mb	
PPN	59.27	215 iPd	40 59.50	0.6
		1.6s 2208.90nm	7.2mb	
PPT	59.37	215 iPd	7.5MszX	
		1.5s 2741.10nm	8.5MszX	
Z	36s	7250.00um	7.1mb	
TVO	59.41	214 iPd	40 59.90	0.7
		1.4s 2049.30nm	0.1	
PET	59.43	316 eP	40 59.00	0.1
		eS	49 11.00	
AFR	59.44	215 iPd	41 00.10	0.7
		1.2s 847.30nm	6.7mb	
PAE	59.46	215 iPd	41 00.00	0.5
		1.6s 2995.00nm	7.2mb	
NNA	60.66	132 iPc	41 06.70	-1.2
		1.5s 805.56nm	6.6mb	
REY	62.55	29 iP	41 21.40	1.5
AKU	63.43	27 iP	41 24.60	-1.1
		1.1s 232.91nm	6.3mb	
KBS	63.57	9 iPc	41 26.10	-0.5
		i	50 04.80	
JNW	64.17	20 eP	41 35.50	4.9
ARE	67.40	130 iPc	41 52.00	-0.3
RAR	67.66	222 ePc	41 53.43	0.0
		1.0s 121.18nm	6.0mb	
		ec	41 55.66	
LPAZ	69.44	128 ePc	41 59.47	19kmX
		esPd	42 02.12	
		ec	42 03.61	-1.8
		ec	42 06.26	
		epPc	42 09.07	18kmX
		esPd	42 12.55	
		PP	44 34.80	
		ScP	46 37.00	
		S	51 07.00	
		SS	55 54.70	
		LQ	59 30.40	
		LR	06 53.10	
YAK	69.59 1.8s	332 iPc 1555.00nm	42 03.00	-1.9
		6.8mb	6.9Msz	
Z	21s	68.10um		
N	18s	20.00um		
E	22s	47.20um		
		iPcP	42 26.00	
		ePP	44 02.00	
		ePPP	45 51.00	
		iS	51 13.00	
		iPS	51 30.00	
		eSCS	51 48.00	
		eSS	55 29.00	
		eSSS	57 58.00	
LPB	69.64 1.0s	128 iPc 540.00nm	42 05.40	-0.9
		S	51 21.00	6.6mb
		LR	07 00.00	
AFI	69.64	236 ePc	42 05.02	-0.9



TBT	82.36	61 ePc	43 18.17	0.5	HAU	84.47	34 eP	43 26.60	-1.5		e	56 07.00	
	1.1s	315.06nm		6.3mb		1.5s	683.20nm		6.7mb		e	58 06.00	
		ec	43 20.07		Z	21s	77.00um		7.1Msz		e	00 34.00	
		epPd	43 23.55	17kmX	OGE	84.47	40 P	43 28.83	0.6		e	03 36.00	
MEM	82.42	32 iPc	43 17.60	0.1	ESCF	84.48	41 P	43 29.24	1.0	EMS	86.16	35 iPd	43 36.80 0.0
		esPd	43 26.69		PYM	84.49	37 P	43 27.83	-0.5	MTHF	86.23	39 P	43 38.40 1.4
		e	46 11.00		EVAL	84.52	48 P	43 28.85	0.3	RSL	86.30	35 P	43 36.59 -0.9
		S	53 43.00		SHK	84.52	308 ePc	43 28.70	0.1	DIX	86.38	34 ePd	43 39.00 1.0
		ScS	53 50.70				e	43 58.00		BIT	86.38	49 iP	43 39.50 1.7
		PS	54 35.00		CDF	84.59	33 P	43 28.40	-0.4	CPS	86.39	49 iP	43 40.00 2.2
BSD	82.50	25 iPc	43 17.90	0.1	CAF	84.59	38 eP	43 27.40	-1.4	TSY	86.41	49 iP	43 40.00 2.1
	0.8s	182.00nm		6.2mb		1.5s	927.65nm		6.8mb	RIFB	86.43	117 eP	43 37.90 -0.4
KLL	82.52	32 iPc	43 18.10	0.0	JAU	84.62	40 P	43 29.41	0.3	PRU	86.44	28 P	43 37.30 -0.5
BNS	82.67	31 iPc	43 17.50	-1.3	WLS	84.62	33 P	43 28.24	-0.7		1.9s	835.00nm	6.6mb
	1.9s	975.00nm		6.6mb	PLDF	84.64	36 P	43 28.51	-0.6	Z	17s	96.40um	7.3MszX
	Z	17s	144.00um	7.4MszX	ECH	84.68	33 P	43 28.66	-0.5	N	20s	56.90um	
		iPP	46 35.80		PAB	84.70	45 iP+	43 28.80	-0.7	E	18s	60.70um	
		iS	53 37.10				iS	53 58.00				ipP	43 38.30 3kmX
		iSS	57 19.80		MOX	84.76	29 iPc	43 29.40	-0.1			ePP	46 59.40
		iSSS	03 19.10			1.9s	1186.00nm		6.8mb			eSKS	54 07.00
STB	82.79	32 iPc	43 19.60	0.1	Z	18s	61.00um		7.0Msz			S	54 21.50
	1.8s	417.00nm		6.3mb			ePP	46 49.60				e	55 07.00
PUL	82.89	15 ePc	43 20.00	0.2			iSKS	53 52.00		WET	86.44	30 eP	43 37.50 -0.4
		(S)	53 43.00		CLL	84.79	28 iPc	43 29.10	-0.5	JHA	86.45	54 iP	43 40.00 1.8
CN2	82.94	319 Pd	43 19.80	-0.6		1.7s	800.00nm		6.7mb	LPL	86.47	35 eP	43 36.80 -1.6
	1.2s	410.00nm		6.5mb	Z	18s	80.00um		7.1Msz		0.9s	67.15nm	5.9mb
	Z	20s	15.50um	6.4Msz			eSKS	53 57.00		LPG	86.50	35 eP	43 37.20 -1.4
	N	18s	13.30um				P'P'	09 57.00			1.5s	228.75nm	6.2mb
	E	18s	12.90um		BSF	84.80	34 P	43 29.52	-0.3	FUR	86.53	31 ePc	43 38.40 0.0
		pP	43 29.80	32kmX	PPD	84.90	121 iPc	43 30.80	0.3	Z	15s	63.70um	7.1MszX
		SKS	53 40.00				i	43 35.80				e	43 40.50
MOE	82.94	48 eP	43 20.00	-0.5	LIBD	84.93	33 P	43 30.87	0.5			ePP	47 00.60
		i	44 03.00		MOF	84.94	33 P	43 29.94	-0.6			e	54 12.00
WLF	83.17	33 iPc	43 21.90	0.5	LBL	84.98	37 P	43 30.41	-0.4			e	54 23.00
	1.4s	238.50nm		6.2mb	EPF	85.00	40 eP	43 29.70	-1.2	EROQ	86.56	42 P	43 39.20 0.6
HYF	83.24	36 eP	43 20.80	-1.1		1.7s	867.55nm		6.7mb	BKM	86.60	246 iPd	43 44.20 5.2
	1.6s	2328.35nm		7.1mb	HOF	85.12	29 iPd	43 31.70	0.4	ECHE	86.62	43 P	43 40.56 1.5
BGG	83.29	32 iPc	43 22.30	0.3	ENSF	85.16	40 P	43 32.51	0.7	ECOG	86.65	46 P	43 39.02 -0.3
	2.1s	326.00nm		6.1mb	LOMF	85.17	34 P	43 31.38	-0.3	MMK	86.66	34 iPd	43 40.60 1.3
KOE	83.30	31 iPc	43 24.30	2.2	ETOR	85.18	43 P	43 32.16	0.3	LSD	86.72	35 P	43 39.03 -0.6
BDFB	83.32	114 iPc	43 22.59	-0.2	EGRA	85.22	41 P	43 34.50	2.6	ETER	86.84	39 iPd	43 42.42 2.4
		ec	43 25.24		CFTV	85.25	59 iPd	43 25.00	-7.4	EHUE	86.87	45 iPc	43 39.34 -1.0
		ipPd	43 28.88	20kmX	EHOR	85.28	47 iPd	43 32.61	0.3	RRL	86.94	35 P	43 40.47 -0.2
		esPd	43 32.35		SNY	85.29	318 eP	43 32.00	-0.2	ORX	86.98	34 P	43 39.49 -1.2
EPLA	83.35	46 P	43 22.59	0.0		1.7s	740.00nm		6.6mb	RSP	86.99	35 P	43 40.29 -0.5
LSF	83.40	37 eP	43 21.40	-1.3	Z	10s	28.00um		6.9MszX	CIA	87.01	54 iP	43 44.00 3.1
	1.6s	1069.65nm		6.8mb	N	22s	13.00um			GEC2	87.01	29 e(P)	43 49.40 8.6
CTFE	83.66	60 iPd	43 26.00	1.6	E	15s	17.20um				1.1s	32.80nm	5.5mb
TCF	83.72	37 eP	43 22.90	-1.5			sP	43 41.00		TMA	87.03	34 iPd	43 41.90 0.8
	1.5s	940.15nm		6.8mb			S	53 58.00		MOTA	87.09	32 iPc	43 40.70 -0.6
ECRI	83.74	42 P	43 25.59	1.0			SS	59 33.00				iPP	47 08.40
TNS	83.76	31 iPc	43 24.40	-0.1	FEL	85.32	33 P	43 31.81	-0.7	OSS	87.17	33 ePd	43 42.70 1.0
		iPPd	46 42.00		GRF	85.33	30 eP	43 32.80	0.4	BHB	87.22	35 P	43 40.93 -0.9
		eS	53 48.90			1.6s	587.00nm		6.6mb	SQTA	87.23	32 iPd	43 42.00 0.1
		e	54 50.30		Z	21s	93.00um		7.2Msz		1.3s	105.00nm	5.9mb
SSF	83.81	36 eP	43 23.40	-1.4	BBS	85.40	33 P	43 32.23	-0.6			i	43 43.80
	1.6s	1437.80nm		6.9mb	BRG	85.50	28 iPc	43 32.80	-0.4	WATA	87.30	31 iPc	43 41.70 -0.6
LOR	83.83	35 eP	43 23.60	-1.3		1.7s	950.00nm		6.7mb			i	43 43.90
	1.5s	1149.10nm		6.9mb	Z	19s	110.00um		7.3Msz			iPP	47 10.00
	Z	18s	61.00um	7.0Msz	N	19s	64.00um			WTTA	87.38	31 iPc	43 42.00 -0.7
BGF	83.84	36 eP	43 23.50	-1.5	E	19s	29.00um				1.0s	69.80nm	5.9mb
	1.6s	1616.90nm		7.0mb			iS	53 59.00				i	43 44.40
LFF	83.91	39 eP	43 24.40	-0.9			eP'P'	09 37.70		PZZ	87.39	36 P	43 42.39 -0.4
	1.6s	1890.55nm		7.1mb	SSB	85.58	36 P	43 33.41	-0.4	EALH	87.53	45 P	43 46.06 2.7
ELIZ	83.91	41 P	43 26.12	0.7	SLE	85.62	33 ePd	43 34.30	0.4	ACU	87.68	44 P	43 48.81 4.7
AVF	83.93	36 eP	43 23.70	-1.6	CNIL	85.72	48 eP	43 36.00	1.5	STV	87.70	36 P	43 43.70 -0.5
	1.5s	1128.20nm		6.9mb	GRBF	85.77	40 P	43 36.13	1.3	ENR	87.75	36 P	43 44.07 -0.4
MAF	83.94	37 eP	43 24.10	-1.4	LIJA	85.78	48 eP	43 36.00	1.1	LRG	87.80	37 eP	43 42.70 -1.8
	1.6s	1681.60nm		7.0mb	ZLA	85.78	33 ePd	43 35.30	0.6		1.5s	295.65nm	6.4mb
RJF	84.05	38 eP	43 24.70	-1.3	EPRU	85.84	48 P	43 36.20	1.0	Z	20s	59.00um	7.0Msz
	1.6s	1686.55nm		7.0mb		1.5s	226.40nm		6.2mb	GUA	87.81	285 eP	43 43.30 -1.7
	Z	20s	76.00um	7.1Msz	EBAN	85.93	46 P	43 36.22	0.6		0.9s	336.13nm	6.7mb
LBF	84.09	35 eP	43 24.70	-1.6	MOMI	85.96	48 eP	43 34.00	-1.7	Z	18s	21.66um	6.6Msz
	1.6s	1034.80nm		6.8mb	EJIF	86.03	48 P	43 38.13	2.0	KMR	87.81	30 eP	43 39.00 -5.5
GUD	84.10	44 P	43 26.70	0.2		2.6s	1593.00nm		6.8mb			i	43 48.40
VITF	84.15	34 P	43 26.19	-0.3	PLAT	86.06	48 iP	43 34.00	-2.3	GUMO	87.81	285 ePc	43 43.12 -1.9
FIG	84.15	49 eP	43 29.00	2.3	IRK	86.09	335 iPc+	43 35.00	-1.1		1.2s	536.80nm	6.7mb
ELYF	84.19	41 P	43 28.29	1.4		Z	20s	38.34um	6.8Msz	Z	22s	10.30um	6.2Msz
BOH	84.23	41 P	43 28.89	1.8		N	18s	24.89um				ec	43 46.01
SMF	84.27	36 eP	43 25.40	-1.7		E	20s	28.18um				epPd	43 49.99 22kmX
	1.6s	898.00nm		6.7mb			e	43 41.50		PJG	87.82	285 eP	43 42.70 -2.3
MADF	84.30	41 P	43 26.90	-0.5			e	44 04.50		OUK	87.82	53 iP	43 43.50 -1.3
LPO	84.31	39 eP	43 26.30	-1.1			e	44 16.00		TGT	87.82	50 iP	43 44.00 -0.8
	1.6s	1169.15nm		6.9mb			e	46 02.00		TOUF	87.83	36 P	43 43.76 -1.2
AGO	84.34	37 P	43 26.02	-1.5			ePP	47 03.00		CALN	87.85	36 P	43 43.67 -1.3
LANF	84.41	32 P	43 27.73	0.0			eS	54 02.00					
ATE	84.41	41 P	43 26.92	-1.0			e	54 59.00					



	N	15s	15.60um	PP	48	03.00	
				SKS	54	49.00	
CMP	94.28	25	ePd	44	18.00	3.2	
SGO	94.29	33	P	44	16.81	2.0	
	1.2s		44.90nm				5.8mb
VRI	94.33	24	eP	44	13.50	-1.4	
IVA	94.38	29	iPd	44	15.23	-0.1	
MLR	94.40	24	ePc	44	19.00	3.6	
BDV	94.43	30	iPd	44	15.23	-0.2	
TTG	94.49	30	iPd	44	15.76	0.1	
PVY	94.64	29	iPd	44	16.61	0.0	
NJ2	94.80	314	Pd	44	16.50	-0.8	
	1.4s		50.00nm				5.7mb
Z	20s		15.70um				6.5Msz
N	17s		33.10um				
E	16s		49.50um				
				SKS	54	48.00	
				S	55	25.00	
ULC	94.87	30	iPd	44	17.68	0.2	
BRT	94.89	32	P	44	17.79	0.2	
	1.5s		454.70nm				6.7mb
SDA	94.90	30	eP	44	17.60	0.0	
ISR	94.91	24	eP	44	18.00	0.3	
ORI	95.21	33	P	44	19.29	0.2	
	0.3s		*****nm				9.6mb X
LACI	95.33	30	eP	44	18.50	-1.1	
BUC	95.39	25	ePd	44	20.00	0.2	
CFR	95.40	23	eP	44	19.00	-0.8	
BUC1	95.43	25	eP	44	18.00	-2.0	
TIR	95.64	30	eP	44	23.50	2.5	
SKO	95.76	29	iPc	44	20.00	-1.6	
	1.7s		390.00nm				6.6mb
			i	44	20.50		
			i	44	25.50		
			iPP	48	17.50		
			iPS	57	10.00		
			i	57	52.00		
			i	00	30.00		
			iSS	02	25.50		
			i	09	44.00		
KDS	96.11	70	eP	44	22.00	-1.5	
FAI	96.12	36	P	44	26.37	3.1	
	1.6s		176.10nm				6.3mb
GRI	96.20	34	P	44	23.29	-0.4	
	1.4s		145.00nm				6.3mb
VLO	96.21	31	eP	44	16.20	-7.4	
OHR	96.22	30	iP	44	22.70	-1.1	
	1.3s		270.00nm				6.6mb
			i	48	16.80		
FNA	96.73	29	eP	44	24.84	-1.2	
VAY	96.76	28	iP	44	25.40	-0.7	
	1.3s		320.00nm				6.7mb
			i	44	32.00		
			i	48	22.00		
SRN	96.92	31	eP	44	27.00	0.2	
LSK	96.95	30	eP	44	25.00	-2.1	
KEK	96.97	31	eP	44	28.80	1.7	
SNZO	96.99	224	(P)	44	37.20	10.4	
			e	48	03.00		
			PP	48	34.00		
			(SKS)	54	59.60		
			e	56	08.00		
SNZO	96.99	224	ePc	44	26.67	-0.1	
			epPd	44	33.13	20kmX	
			esPd	44	35.86		
			e	48	03.00		
			PP	48	34.00		
			(SKS)	54	59.60		
			e	56	08.00		
GRG	97.00	29	eP	44	27.80	0.6	
KNT	97.02	28	iP	44	26.30	-1.0	
KZN	97.30	29	eP	44	28.00	-0.7	
SRS	97.33	28	eP	44	27.44	-1.3	
IGT	97.35	31					



PP 48 32.00										PP 49 30.00										2.0s 200.00nm									
SKS 55 10.00										SKS 55 50.00										Z 19s 22.00um 6.9Msz									
S 55 58.00										S 57 04.00										N 19s 9.00um									
VLS 98.59 31 eP	44 34.80	0.4								SS 04 22.00										E 19s 11.00um									
GTA 98.60 331 eP	44 35.00	0.4								ARMA 106.25 244 ePKP	49 26.70	6.2								e 50 24.00									
1.8s 36.00nm 5.7mb										1.0s 14.00nm										ePP 52 53.00									
Z 16s 48.10um	7.1MszX								CSS 106.32 24 ePKP	49 10.50	-9.9								eSKP 53 47.00										
N 15s 15.30um								DAV 106.89 291 ePdiff	45 07.00	-4.8								ePPP 55 54.00											
pP 44 46.00 35kmX										CTB 107.88 292 ePKP	49 20.00	-3.9								eSKS 57 20.00									
SKS 55 10.00										BHL 108.04 22 Pdiff	45 18.00	1.3								e 59 55.00									
SS 56 06.00										SKS 55 54.00										eSKSP 02 50.00									
WMQ 98.74 341 iPDIFc	44 35.27	0.2								RIV 108.29 241 ePdiff	45 28.00	10.4								e 04 46.00									
1.5s 87.00nm 6.1mb										ePP 49 32.00										eSS 10 54.00									
Z 32s 41.50um	6.7MszX								e 59 35.00										eSSS 16 10.00										
E 16s 32.50um								eSS 05 22.00										WIN 139.57 85 ePKP 50 14.00 -10.2											
ec 44 37.18										KMI 109.16 321 Pdiffc	45 20.00	-2.0								Z 1.5s 170.00nm 7.3Msz									
epPd 44 41.07 18kmX										Z 20s 23.20um	6.7Msz								Z 18s 54.90um										
esPd 44 44.46										N 20s 17.50um								NAI 139.93 40 ePKP+ 50 16.00 -9.2											
PP 48 43.00										E 17s 14.10um								SYO 143.04 167 ePKPc+50 21.30 -7.4											
SKS 55 12.00										PP 49 55.00										POF 144.57 94 iPKPc 50 30.50 -2.0									
SS 02 56.00										MAIO 109.83 2 ePdiff	45 31.00	6.4								1.5s 944.44nm									
XAN 98.83 322 P	44 34.00	-1.6								i 48 41.00										BLE 144.72 102 iPKPd 50 30.00 -2.6									
1.6s 64.00nm 6.0mb										QIZ 109.84 311 Pdiff	45 25.00	0.2								CVN 145.02 97 ePKP 50 32.30 -1.1									
Z 15s 25.70um	6.8MszX								N 18s 8.05um										CER 145.12 101 ePKP 50 20.00 -13.4										
N 16s 10.10um								E 18s 16.30um										1.5s 2520.00nm											
E 16s 19.60um								PP 50 01.00										UPI 145.31 92 iPKPc 50 33.80 -0.1											
pP 44 41.50 23kmX										SS 05 18.00										MAW 146.56 181 iPKPd 50 35.10 0.5									
PP 48 39.00										CNB 110.30 241 ePdiff	45 38.00	11.3								0.9s 184.68nm									
SKS 55 16.00										ePP 50 05.00										Z 17s 21.26um 7.0MszX									
S 56 04.00										eSP 59 40.00										ePP 53 58.10									
ITU 99.32 24 iPc	44 36.00	-1.6								eSS 05 53.00										iPKKS 04 15.80									
LZH 99.65 326 Pc	44 39.00	-0.5								NIL 111.59 349 iPdiff	45 35.10	2.7								iSKPP 07 02.90									
2.0s 170.00nm 6.2mb										MTN 113.86 270 ePKP	49 34.00	-1.2								PKA 146.98 93 ePKP 50 37.90 1.3									
Z 22s 52.30um	7.0Msz								0.8s 47.00nm										BEW 147.57 98 ePKP 50 38.70 1.2										
N 18s 33.20um								SHL 113.91 330 ePdiff	45 42.00	-1.1								1.5s 700.00nm											
pP 44 51.00 39kmX										ePP 50 12.00										SWZ 148.27 87 ePKP 50 40.30 1.5									
PP 48 43.00										TOO 114.10 240 ePKP	49 35.60	0.4								0.6s 238.00nm									
SKS 55 12.00										e 50 49.90										KSR 149.06 84 iPKPd 50 29.50 -10.7									
SS 02 56.00										WB5 114.74 262 ePKP	49 35.00	-1.8								1.0s 94.00nm									
QZH 100.00 309 Pc	44 41.00	0.0								i 49 41.00										BFS 149.37 86 ePKP 50 41.10 0.5									
Z 19s 17.50um	6.6Msz								iPP 50 43.50										1.2s 900.00nm										
N 19s 17.70um								e 50 47.00										BLF 149.64 90 iPKPd 50 41.00 0.1											
PP 48 40.00										e 52 28.50										1.5s 920.00nm									
SKS 55 14.00										WB2 114.78 262 iPKPc	49 35.10	-1.8								SOE 150.10 97 iPKPc 50 47.10 5.7									
ePdiff 44 43.20 2.2										ePKKP 00 18.40										SLR 150.14 83 iPKPd 50 40.50 -1.3									
ePP 48 48.00										1.1s 6.90nm										Z 1.0s 1550.00nm									
eSKS 55 21.50										i 49 41.40										Z 18s 96.90um 7.6Msz									
es 56 22.00										ePP 50 01.10										CIR 150.56 71 iPKPd 50 27.00 -15.3									
ePS 57 52.80										iPKKP 00 17.80										SEK 150.58 88 iPKPc 50 42.90 0.5									
IZI 100.16 24 ePdiff	44 41.90	0.4								eSKKP 03 18.40										SEK 150.58 88 iPKPc 50 46.00 3.6									
EYL 100.19 24 ePdiff	44 40.80	-0.8								WRA 114.79 262 Pdiff	45 55.80	8.9								1.2s 1060.00nm									
VLI 100.82 31 ePdiff	44 45.00	0.6								0.8s 0.40nm										GRM 151.06 98 ePKP 50 44.00 1.2									
KVT 101.51 19 ePdiff	44 49.00	1.6								NDI 115.69 345 ePKP	49 38.00	-0.4								1.0s 1940.00nm									
ALT 101.53 24 ePdiff	44 46.20	-1.4								PP 52 45.00										Z 20s 23.30um 7.0Msz									
FRU 102.39 350 ePdiff	44 50.00	-1.2								e 50 47.00										BFT 151.57 81 iPKPd 50 45.50 1.5									
eSKS 55 30.00										e 52 28.50										1.2s 520.00nm									
VAM 102.47 30 ePdiff	44 52.00	0.3								LOE 115.93 317 ePKP	49 38.00	-1.1								NWL 152.29 85 ePKP 50 45.70 0.8									
LKO 103.09 69 Pdiff	44 53.14	-1.9								CHTO 116.33 320 ePKP	49 39.60	-0.3								1.2s 880.00nm									
1.3s 34.00nm 5.9mb										BDT 117.58 319 ePKP	49 41.00	-1.2								696 obs. associated									
CD2 103.93 323 Pdiff	44 58.00	-0.4								ADE 118.01 245 ePKP+	49 36.80	-5.9								-----									
N 16s 24.10um										NST 118.23 317 ePKP	49 43.50	0.0								& JAN 17, 1994 12h 39m 39.80s									
E 20s 40.30um								RYD 119.72 16 ePdiff	46 27.00	18.2								34.261 N 118.534 W											
PP 49 20.00										es 13 01.00										DEPTH = 14.8km									
KSL 103.96 26 ePdiff	44 46.10	-12.2								NNT 120.93 315 ePKP	49 47.20	-1.5								SOUTHERN CALIFORNIA (43)									
BAG 104.54 302 ePdiff	45 02.00	0.4								BCAO 124.20 55 iPKPc	49 51.00	-4.1								<PAS-P>. ML 4.5 (PAS), 5.0 (GS).									
e 55 34.00										i 49 54.90										Double event.									
GZH 104.65 312 Pdiff	45 02.00	0.3								i 51 35.40										FTC 0.68 334 P 39 52.22 -0.6									
Z 18s 15.10um	6.6Msz								i 54 21.20										SSK 0.70 94 (P) 39 51.13 -2.2										
PP 49 20.00										PORT 124.63 254 ePKP	49 54.00	-1.4								PLEC 0.83 328 P 39 55.29 -0.2									
SS 04 14.00										0.8s 17.00nm										SNDC 0.90 12 P 39 57.40 0.7									
HKC 104.70 310 Pdiff	45 03.00	1.1								IPM 126.33 308 ePKPc	49 59.80	0.5								TMB 1.17 315 P 40 00.82 -0.4									
CTAO 105.18 256 (Pdiff)	45 04.67	0.5								KGM 126.68 304 ePKP	50 00.00	0.1								CRGC 1.38 315 P 40 04.05 -0.6									
TIC 105.32 71 Pdiff	45 05.24	0.4								MBL 127.34 268 ePKP	50 01.00	0.1								SCCM 1.51 297 P 40 06.42 0.1									
1.3s 28.00nm 6.1mb										LEM 129.50 292 ePKPd	50 05.20	-0.2								WCHM 1.66 13 P 40 07.98 -0.8									
KSH 105.48 348 ePdiff	45 08.00	2.8								es 02 13.00										WLHM 1.90 5 P 40 11.75 -0.4									
Z 20s 55.60um	7.1Msz								GBA 130.08 340 PKP	50 04.90	-1.3								PMGM 2.01 306 P 40 12.22 -1.3										
N 10s 18.90um								COOL 130.20 256 ePKP	50 05.50	-0.7								PKEM 2.21 325 (P) 40 15.10 -1.4											
E 10s 22.80um								MEEK 130.69 263 ePKP	50 07.00	-0.2								PADM 2.36 306 P 40 16.68 -1.9											
LIC 105.57 71 Pdiff	45 06.54	0.6								ARO 131.19 25 ePKP+	50 09.00	0.5								PSMM 2.47 317 P 40 19.40 -0.8									
1.5s 70.50nm 6.4mb										AAE 131.91 31 PKP	50 11.50	1.3								PTV 2.57 316 P 40 20.09 -1.5									
KIC 105.71 71 Pdiff	45 07.30	0.7								KLB 133.17 257 ePKP	50 11.50	-0.2								PAPM 2.84 306 P 40 22.88 -2.7									
1.3s 57.50nm 6.4mb										BAL 133.70 258 ePKP	50 12.20	-0.6								BHPR 3.03 1 P 40 28.55 0.2									
TGY 105.84 300 ePKPd	49 33.00	13.0								MRWA 133.80 261 ePKP	50 12.00	-1.0								MTUM 3.09 360 eP 40 29.02 0.0									
GYA 105.99 319 Pdiff	45 08.00	0.2								NWAO 134.01 255 ePKP	50 14.20	0.9								SHG 3.09 315 P 40 26.22 -2.7									
Z 24s 28.80um	6.7MszX								MUN 134.55 257 ePKP	50 14.00	-0.3								TPNV 3.26 34 eP 40 30.54 -1.1										
N 20s 21.40um								RKG 134.67 253 ePKP	50 15.50	1.0								MMPM 3.37 353 eP 40 33.42 0.2											
E 20s 10.90um								NVL 134.91 159 iPKPd	50 13.00	-0.8																			



17d 12h

BSLM 3.40 318 P 40 32.64 -0.7  
 MRCM 3.40 0 eP 40 33.35 -0.2  
 MEMM 3.41 355 eP 40 33.17 -0.3  
 BCKR 3.43 2 P 40 42.24 8.3  
 HCOM 3.68 316 P 40 34.75 -2.6  
 JELM 3.78 316 P 40 36.56 -2.2  
 JBZM 3.82 317 P 40 37.75 -1.5  
 CMB 4.05 339 ePn 40 41.60 -1.0  
 NTYM 5.30 322 eP 40 57.70 -2.5  
 29 obs. associated

& JAN 17, 1994 12h 49m 38.00s  
 34.309 N 118.447 W  
 DEPTH = 1.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS).

SSK 0.63 99 (P) 49 47.99 -2.6  
 FTC 0.67 327 P 49 50.59 -0.8  
 RYS 0.82 294 P 49 53.13 -1.2  
 PLEC 0.83 322 P 49 54.02 -0.6  
 SNDC 0.84 8 P 49 56.13 1.3  
 TEJ 0.94 348 P 49 53.82 -2.9  
 MARC 1.01 313 P 49 56.29 -1.6  
 LPC 1.06 280 P 49 56.66 -2.2  
 TMB 1.19 311 P 49 59.91 -1.0  
 WOFM 1.24 350 P 50 00.93 -1.0  
 WBSM 1.25 12 P 50 02.63 0.5  
 WORM 1.39 7 P 50 03.40 -1.1  
 WASM 1.43 356 P 50 04.69 -0.4  
 SCCM 1.56 294 P 50 05.57 -1.3  
 WLHM 1.84 3 P 50 11.50 0.3  
 15 obs. associated

& JAN 17, 1994 12h 51m 04.89s  
 34.318 N 118.478 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS).

SSK 0.66 99 eP 51 17.14 -0.9  
 SNDC 0.84 10 P 51 22.14 0.6  
 TEJ 0.93 349 P 51 21.35 -2.0  
 MARC 0.99 314 P 51 23.21 -1.3  
 LPC 1.04 280 P 51 26.27 0.8  
 WJFM 1.09 360 P 51 25.34 -1.0  
 WOFM 1.23 351 P 51 27.73 -1.1  
 CRGC 1.38 312 P 51 30.09 -1.2  
 WASM 1.42 357 P 51 31.38 -0.6  
 NMC 1.59 17 P 51 34.77 0.3  
 WCHM 1.60 12 P 51 35.11 0.4  
 TOW 1.60 21 P 51 36.04 1.5  
 VPEN 1.72 18 P 51 37.36 1.0  
 PKEM 2.19 323 (P) 51 42.20 -0.9  
 MTUM 3.03 359 (P) 51 55.36 0.1  
 MEMM 3.36 354 (P) 52 00.13 0.4  
 eS 52 49.81  
 16 obs. associated

& JAN 17, 1994 12h 54m 07.73s  
 34.349 N 118.637 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS). Double event.

FTC 0.56 338 P 54 18.29 -0.7  
 RYS 0.66 297 P 54 20.43 -0.5  
 ABL 0.69 316 eP 54 20.24 -1.4  
 PLEC 0.71 330 P 54 21.47 -0.5  
 ARVC 0.79 349 P 54 22.32 -1.2  
 MARC 0.87 319 P 54 24.13 -0.7  
 LPC 0.90 280 P 54 24.28 -1.2  
 TMB 1.04 315 P 54 27.05 -0.8  
 WJFM 1.07 7 P 54 27.65 -0.6  
 WOFM 1.19 357 P 54 29.06 -1.2  
 WBSM 1.25 19 P 54 31.51 0.0  
 WASM 1.39 3 P 54 32.72 0.9  
 SCCM 1.40 295 P 54 32.22 -1.6  
 WCHM 1.60 17 P 54 38.08 1.2  
 VPEN 1.73 23 P 54 39.61 0.9  
 PAPM 2.72 306 P 54 49.40 -3.5  
 FRP 3.34 317 P 54 58.59 -3.0  
 JBZM 3.70 317 P 55 04.34 -2.3  
 18 obs. associated

& JAN 17, 1994 12h 55m 46.82s

34.269 N 118.576 W  
 DEPTH = 16.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.1 (PAS).

FTC 0.65 337 P 55 58.74 -0.7  
 RYS 0.74 300 P 56 00.47 -0.6  
 ABL 0.79 318 ePd 56 00.80 -1.0  
 PLEC 0.81 330 P 56 02.01 -0.1  
 TEJ 0.96 354 P 56 03.33 -1.4  
 MARC 0.97 320 P 56 04.30 -0.4  
 CRGC 1.35 316 P 56 10.68 -0.4  
 WASM 1.47 1 P 56 12.53 -0.2  
 WLHM 1.89 6 P 56 18.70 -0.3  
 PMGM 1.97 306 P 56 18.70 -1.2  
 PAPM 2.81 306 P 56 29.46 -2.5  
 BAPM 3.15 308 P 56 36.68 -0.1  
 DIL 3.58 317 P 56 40.20 -2.6  
 HERM 3.59 316 P 56 40.68 -2.3  
 HCOM 3.65 317 P 56 41.75 -2.1  
 JUCM 3.93 315 P 56 44.59 -3.1  
 16 obs. associated

& JAN 17, 1994 12h 57m 56.75s  
 34.354 N 118.425 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.7 (PAS), 3.9 (GS).

PLEC 0.81 319 P 58 12.25 -0.7  
 RYS 0.82 291 P 58 11.75 -1.4  
 LPC 1.07 278 P 58 15.71 -1.7  
 TMB 1.17 309 P 58 18.29 -0.8  
 WOFM 1.20 349 P 58 19.46 -0.2  
 CRGC 1.39 310 P 58 21.63 -1.1  
 PTRM 1.96 312 P 58 30.19 -0.7  
 PMCM 2.10 311 P 58 31.87 -1.1  
 PHBM 2.33 325 P 58 36.58 0.4  
 PADM 2.38 303 P 58 34.04 -2.9  
 10 obs. associated

& JAN 17, 1994 13h 01m 01.19s  
 34.354 N 118.622 W  
 DEPTH = 10.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS).

FTC 0.56 337 P 01 11.50 -1.1  
 PLEC 0.71 329 P 01 14.82 -0.5  
 MARC 0.88 318 P 01 17.51 -0.5  
 CRGC 1.27 315 P 01 23.72 -1.1  
 WORM 1.38 13 P 01 26.12 -0.3  
 SCCM 1.41 295 P 01 25.46 -1.4  
 NMC 1.60 21 P 01 30.54 0.9  
 RCWM 1.78 26 P 01 34.27 2.0  
 PTRM 1.84 315 P 01 31.87 -1.2  
 PANM 2.35 308 P 01 38.13 -2.4  
 PTV 2.45 316 P 01 39.93 -2.0  
 LRC 2.74 314 P 01 43.08 -2.9  
 SHG 2.97 314 P 01 46.09 -3.2  
 BAPM 3.07 307 P 01 47.36 -3.3  
 BPRM 3.26 310 P 01 50.77 -2.7  
 ORC 3.27 360 P 01 59.12 5.3  
 BSLM 3.28 318 P 01 50.49 -3.2  
 JBZM 3.70 317 P 01 57.38 -2.3  
 JSMM 4.05 316 P 02 00.93 -3.7  
 19 obs. associated

& JAN 17, 1994 13h 06m 27.89s  
 34.254 N 118.545 W  
 DEPTH = 0.0km  
 4.3mb (2 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.6 (PAS), 4.7 (BRK), 4.5 (GS).

ABL 0.82 317 iPd 06 42.95 -1.2  
 WBSM 1.32 14 P 06 52.38 -1.0  
 NMC 1.67 18 P 06 56.49 -2.1  
 VPEN 1.79 19 P 06 58.41 -2.1  
 PHAM 2.19 317 eP 07 02.35 -3.8  
 PKEM 2.21 325 eP 07 02.29 -4.1  
 CTM 2.23 319 P 07 05.82 -0.9  
 WKR 2.24 315 P 07 04.34 -2.5  
 PHBM 2.35 328 P 07 08.93 0.5  
 PRI 2.56 318 eP 07 09.20 -2.3  
 PHCM 2.57 304 P 07 08.80 -2.8

LRC 2.85 315 P 07 11.98 -3.6  
 FRI 2.89 341 iPd 07 11.01 -5.1  
 BMSM 3.02 323 P 07 15.07 -2.9  
 SHG 3.09 315 P 07 14.92 -3.9  
 MTUM 3.09 360 eP 07 17.60 -1.5  
 BCWM 3.21 311 P 07 17.75 -3.0  
 TPNV 3.28 34 eP 07 19.43 -2.2

MMPM 3.37 353 ePn 07 22.23 -1.0  
 ePg 07 28.28  
 BPRM 3.38 310 P 07 19.53 -3.5  
 MCSM 3.41 355 P 07 23.80 0.1  
 MRCM 3.41 1 ePn 07 22.99 -0.7  
 eS 08 13.44

BVYM 3.42 318 P 07 20.50 -3.1  
 MEMM 3.42 355 ePn 07 20.32 -3.2  
 SAO 3.45 317 iPd 07 19.75 -4.2  
 DIL 3.61 316 P 07 22.37 -3.9  
 HERM 3.62 315 P 07 22.98 -3.4  
 BONR 3.70 3 (Pn) 07 26.06 -1.8

JBZM 3.82 317 P 07 26.57 -2.7  
 CBO 3.83 319 P 07 25.72 -3.7  
 ARN 3.93 323 eP 07 26.44 -4.4  
 COE 3.93 321 ePn 07 27.67 -3.2  
 TNP 3.97 15 eP 07 29.91 -1.7  
 CMB 4.06 339 ePn 07 30.38 -2.3  
 JBLM 4.11 315 P 07 28.86 -4.6

MNHM 4.30 335 P 07 33.34 -2.6  
 HMR 4.70 327 (P) 07 38.65 -3.1  
 ZSP 4.75 322 eP 07 39.08 -3.4  
 KVN 4.80 4 ePn 07 40.29 -3.1  
 NTYM 5.30 322 ePn 07 46.28 -3.9  
 ARUT 5.44 48 ePn 07 50.72 -1.7  
 ORV 5.80 337 ePn 07 53.44 -3.8

MSU 6.67 49 ePn 08 07.77 -2.0  
 LMEM 6.72 340 (Pn) 08 08.26 -2.2  
 LBFM 7.56 340 ePn 08 18.62 -3.6  
 KMPM 7.59 326 ePn 08 19.54 -2.9  
 SRU 8.06 51 ePn 08 27.96 -1.3  
 EMUT 8.30 46 (Pn) 08 30.36 -2.4

DAU 8.45 41 (Pn) 08 33.08 -1.8  
 PV09 8.69 58 ePn 08 36.89 -1.3  
 PV10 8.70 59 ePn 08 36.56 -1.8  
 HVU 8.78 30 ePn 08 39.03 -0.2  
 PTI 9.86 27 (P) 08 55.15 0.9  
 ALQ 9.99 83 ePn 08 55.72 -0.3  
 MCMT 11.43 21 eP 09 17.30 1.5

LRM 12.46 20 eP 09 30.40 0.8  
 RSSD 14.93 44 eP 10 00.87 -1.4  
 1.3s 23.20nm 4.6mb  
 ULM 23.04 39 eP 11 35.50 -0.1  
 MBC 42.08 360 eP 14 22.50 -0.1  
 1.0s 4.00nm 4.1mb

FRB 42.39 30 eP 14 29.00 3.8  
 60 obs. associated  
 & JAN 17, 1994 13h 08m 34.93s  
 34.296 N 118.453 W  
 DEPTH = 1.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.6 (PAS), 3.9 (GS).

ABL 0.84 311 eP 08 50.14 -1.6  
 MTUM 3.05 358 (Pn) 09 22.84 -2.6  
 TPNV 3.20 34 (Pn) 09 25.79 -1.6  
 MRCM 3.37 359 (P) 09 29.32 -0.6  
 TNP 3.91 14 ePg 09 49.22 11.6  
 CMB 4.05 338 (P) 09 40.13 0.8  
 6 obs. associated

\* JAN 17, 1994 13h 10m 57.73±2.84s  
 34.457 N ±20.3km 118.775 W ±12.3km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)

FTC 0.42 347 P 11 06.46 0.1  
 RYS 0.51 291 P 11 09.50 1.4  
 PLEC 0.56 335 P 11 09.96 0.7  
 ARVC 0.67 356 P 11 10.97 -0.1  
 TEJ 0.77 5 P 11 11.64 -1.2  
 LPC 0.78 273 P 11 13.14 0.2  
 WBSM 1.20 26 P 11 19.84 -0.3  
 SCCM 1.25 293 P 11 18.77 -2.2  
 WASM 1.29 8 P 11 21.69 -0.1  
 WORM 1.31 19 P 11 21.76 -0.3  
 WLHM 1.73 13 P 11 30.21 1.9

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



JAN 17, 1994 13h 13m 27.33± 1.71s  
34.391 N ±13.3km 118.766 W ± 6.0km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)

FTC	0.49	348 P	13	36.90	-0.4
RYS	0.55	298 P	13	39.30	0.9
PLEC	0.63	337 P	13	40.32	0.3
ARVC	0.74	356 P	13	41.60	-0.2
MARC	0.77	322 P	13	42.84	0.4
LPC	0.79	278 P	13	43.15	0.4
SNDC	0.84	27 P	13	43.45	-0.2
TMB	0.94	318 P	13	45.45	0.1
WJFM	1.04	13 P	13	46.22	-0.9
WOFM	1.14	2 P	13	48.27	-0.5
CRGC	1.16	317 P	13	49.38	0.3
SCCM	1.28	296 P	13	50.93	-0.2
WASM	1.35	7 P	13	52.79	0.4
WCHM	1.59	21 P	13	55.72	-0.2
WSHM	1.62	40 P	13	55.66	-0.4
VPWM	1.74	26 P	13	58.58	0.7
WLHM	1.80	12 P	14	00.83	2.0
BHPR	2.91	4 P	14	20.22	5.5X
BPOM	3.06	308 P	14	14.23	-2.4
PKH	3.27	320 P	14	14.23	-5.4X

S.D. = 0.9 on 18 of 20 obs.

JAN 17, 1994 13h 15m 42.28± 0.70s  
34.260 N ± 6.3km 118.494 W ± 4.7km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 3.7 (GS).

FTC	0.69	332 P	15	54.72	-1.3
RYS	0.81	299 P	15	58.25	0.2
ABL	0.84	315 eP	15	57.76	-0.9
PLEC	0.85	326 P	15	58.58	-0.2
ARVC	0.91	342 P	15	58.72	-0.9
MARC	1.02	317 P	16	01.60	0.1
LPC	1.04	284 P	16	02.18	0.3
WJFM	1.15	1 P	16	02.69	-1.1
TMB	1.19	314 P	16	04.63	0.1
WOFM	1.29	352 P	16	05.40	-0.8
WORM	1.45	8 P	16	08.09	-0.5
WASM	1.48	358 P	16	08.42	-0.7
SCCM	1.54	297 P	16	11.23	1.4
BCH	1.60	306 (P)	16	11.46	0.6
FLM	1.63	123 eP	16	09.56	-1.8
NMC	1.65	17 P	16	11.39	-0.1
WCHM	1.66	12 P	16	12.96	1.2
VPWM	1.77	18 P	16	14.14	0.8
RCWM	1.82	22 P	16	15.02	1.0
WLHM	1.89	4 P	16	17.19	2.0
GLA	3.29	110 (Pn)	16	35.56	0.7
MRCM	3.40	360 (Pn)	16	36.00	-0.7
		ePg		16 42.95	
BONR	3.69	2 (Pn)	16	41.36	0.5
TNP	3.95	15 ePn	16	44.54	0.1

S.D. = 1.0 on 24 of 24 obs.

& JAN 17, 1994 13h 17m 44.35s  
34.305 N 118.483 W  
DEPTH = 20.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.6 (PAS), 3.7 (GS).

FTC	0.66	329 P	17	55.81	-1.3
RYS	0.79	295 P	18	00.85	1.4
ABL	0.82	312 eP	17	58.91	-1.0
PLEC	0.82	324 P	18	00.29	0.4
SNDC	0.85	10 P	18	01.82	1.4
TEJ	0.94	350 P	17	59.64	-2.2
MARC	0.99	315 P	18	02.87	0.2
LPC	1.04	281 P	18	04.25	0.7
WJFM	1.10	0 P	18	04.38	-0.3
TMB	1.17	312 P	18	05.09	-0.5
WOFM	1.24	351 P	18	07.05	0.3
WBSM	1.26	13 P	18	07.26	0.2
CRGC	1.38	313 P	18	09.85	1.1
WORM	1.40	8 P	18	08.81	-0.1
WASM	1.43	358 P	18	10.14	0.7
SCCM	1.53	295 P	18	11.36	0.6
WSHM	1.55	31 P	18	12.64	1.5
BCH	1.58	304 ePn	18	12.18	0.6
NMC	1.61	17 P	18	13.22	1.3
PLM	1.65	125 ePn	18	11.13	-1.5

VPWM	1.73	18 P	18	16.32	2.6
RCWM	1.78	22 P	18	17.20	2.8
WLHM	1.85	4 P	18	18.60	3.0
GLA	3.29	111 (Pn)	18	37.53	1.6
MRCM	3.36	360 ePg	18	45.18	8.1
BONR	3.65	2 ePg	18	50.71	9.5
TNP	3.91	15 ePg	18	56.08	11.3

27 obs. associated

& JAN 17, 1994 13h 22m 49.64s  
34.364 N 118.619 W  
DEPTH = 6.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.9 (PAS), 4.0 (GS).

ABL	0.69	315 eP	23	01.90	-1.7
ARVC	0.78	347 P	23	03.97	-1.2
SNDC	0.82	18 P	23	05.46	-0.5
WOFM	1.17	356 P	23	10.81	-1.2
CRGC	1.26	314 P	23	12.42	-1.1
SCCM	1.40	295 P	23	14.01	-1.8
BCH	1.46	305 eP	23	14.49	-2.1
PMRM	1.94	317 P	23	21.31	-2.2
PMCM	1.98	314 P	23	22.21	-1.8
PHAM	2.07	316 eP	23	22.32	-3.0
PKEM	2.09	325 eP	23	23.28	-2.3
WKR	2.12	314 P	23	23.81	-2.3
PSMM	2.35	317 P	23	27.48	-2.0
PSAM	2.49	312 P	23	28.44	-2.9
HVC	2.69	319 P	23	35.34	1.0
PAPM	2.73	305 P	23	31.01	-3.9
FRI	2.77	342 P	23	32.97	-2.4
BHPR	2.93	2 P	23	43.22	5.3
MTUM	2.98	1 eP	23	37.15	-1.4
BRMM	3.05	325 P	23	37.36	-1.9
TPNV	3.22	36 ePn	23	39.78	-2.1
MMFM	3.26	354 ePn	23	40.53	-2.0
BSLM	3.28	318 P	23	40.30	-2.2
MCSM	3.29	356 P	23	49.43	6.4
BSRM	3.30	315 P	23	39.54	-3.3
MRCM	3.30	2 ePn	23	41.70	-1.4
MEMM	3.31	356 ePn	23	41.57	-1.4
GLA	3.42	111 (P)	23	40.16	-4.5
BONR	3.59	4 ePg	23	54.64	7.3
JTGM	3.75	316 P	23	46.09	-3.3
COE	3.81	320 eP	23	45.40	-4.7
TNP	3.88	17 ePg	23	59.64	8.3
CMB	3.93	339 (P)	23	49.02	-2.9
JSM	4.05	316 P	23	50.40	-3.1
KVN	4.70	5 (Pn)	24	02.24	-0.7
ARUT	5.41	49 (P)	24	09.99	-3.0
ORV	5.67	337 eP	24	13.24	-3.3
MSU	6.64	50 (Pn)	24	28.08	-2.4
MCMT	11.35	21 eP	25	38.00	2.4
ULM	22.99	39 eP	27	56.00	0.1

40 obs. associated

& JAN 17, 1994 13h 25m 04.29s  
34.350 N 118.470 W  
DEPTH = 0.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.4 (PAS), 3.7 (GS).

FTC	0.63	326 P	25	16.19	-0.6
RYS	0.78	292 P	25	19.32	-0.6
PLEC	0.79	322 P	25	19.75	-0.3
ABL	0.80	309 eP	25	18.50	-1.7
ARVC	0.83	339 P	25	20.68	-0.2
TEJ	0.90	348 P	25	19.68	-2.5
MARC	0.97	313 P	25	22.86	-0.7
LPC	1.04	278 P	25	23.15	-1.8
WJFM	1.06	360 P	25	23.93	-1.3
TMB	1.14	310 P	25	25.71	-1.0
WOFM	1.20	351 P	25	26.94	-0.7
WBSM	1.21	13 P	25	26.82	-1.2
CRGC	1.36	311 P	25	29.32	-1.1
WASM	1.39	357 P	25	30.45	-0.5
SCCM	1.52	293 P	25	31.68	-1.2
NMC	1.56	17 P	25	33.40	0.0
WCHM	1.56	12 P	25	34.16	0.5
BCH	1.57	303 eP	25	31.19	-2.4
VPWM	1.68	18 P	25	35.34	0.1
RCWM	1.73	23 P	25	36.65	0.7
WLHM	1.80	4 P	25	38.79	1.6
TPNV	3.16	34 (P)	25	55.43	-1.0

22 obs. associated

& JAN 17, 1994 13h 26m 44.72s  
34.317 N 118.455 W  
DEPTH = 2.3km  
4.2mb (5 obs.)  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 4.7 (PAS), 4.6 (GS),  
4.6 (BRK). Mo=2.3\*10\*\*16 Nm  
(BRK).

ABL	0.83	310 eP	26	59.86	-1.4
ARVC	0.87	339 P	27	01.23	-0.8
MARC	1.00	313 P	27	03.23	-1.2
CRGC	1.39	312 P	27	10.51	-0.7
TOW	1.59	21 P	27	14.69	0.7
BCH	1.60	303 eP	27	11.89	-2.2
PAGM	2.04	314 P	27	20.05	-0.4
PHAM	2.20	314 eP	27	20.86	-1.9
PKEM	2.21	323 eP	27	21.00	-1.8
PSMM	2.48	316 P	27	25.13	-1.7
LRC	2.86	313 P	27	29.19	-3.0
MTUM	3.03	358 ePn	27	34.55	-0.2
TPNV	3.18	34 ePn	27	36.25	-0.6
HTCR	3.22	356 P	27	43.27	5.7
BPOM	3.31	306 P	27	34.95	-3.7
MMFM	3.32	352 ePn	27	38.25	-0.8
MRCM	3.35	359 ePn	27	46.40	7.1
MEMM	3.37	353 ePn	27	39.90	0.6
BVYM	3.42	316 P	27	37.79	-2.4
SAO	3.45	316 ePn	27	38.20	-2.4
SAO	3.45	316 eP	27	41.85	1.3
BONR	3.63	2 (Pn)	27	43.63	0.2
CSR	3.67	317 P	27	42.12	-1.5
HCOM	3.69	315 P	27	43.27	-0.7
EUC	3.86	316 P	27	45.02	-1.4
TNP	3.89	15 ePg	27	56.38	9.4
COE	3.93	319 eP	27	43.88	-3.5
MHC	3.98	320 eP	27	50.36	2.2
CMMM	3.99	323 P	27	46.77	-1.5
CMB	4.03	338 eP	27	48.07	-0.7
SEC	4.20	316 P	27	49.45	-1.7
STAN	4.31	317 eP	27	52.30	-0.5
JEGM	4.56	316 eP	27	51.95	-4.3
HMR	4.69	326 eP	27	56.31	-1.8
KVN	4.73	3 ePg	28	12.68	13.7
NTYM	5.29	321 (P)	28	02.63	-4.1
ORV	5.77	336 eP	28	11.18	-2.2
ORV	5.77	336 eP	27	22.86	-50.5
MSU	6.57	49 ePn	28	24.86	-0.1
LBFM	7.53	340 (P)	28	38.10	-0.2
KMPM	7.58	325 eP	28	36.36	-2.5
SRU	7.96	51 ePn	28	44.96	0.5
EMUT	8.21	46 ePn	28	47.29	-0.6
DAU	8.36	41 (P)	28	49.53	-0.5
MCMT	11.35	21 eP	29	34.50	3.4
LRM	12.37	20 eP	29	45.10	0.1
RSSD	14.84	44 eP	30	16.84	-0.7
	1.2s	22.18nm		4.6mb	
TUL	18.61	79 iPc	31	05.20	0.1
UYO	19.83	84 iPc	31	21.70	2.0
ULM	22.94	39 eP	31	51.00	-0.1
YKA	28.30	4 eP	32	39.00	-2.3
	0.8s	0.90nm		3.6mb	
MBC	42.02	360 eP	34	39.00	0.5
	1.0s	2.00nm		3.8mb	
FRB	42.29	30 eP	34	39.50	-1.4
	0.9s	5.00nm		4.2mb	
NNA	60.68	132 eP	36	57.00	-2.9
	1.0s	10.00nm		4.9mb	
LPZ	69.45	128 P	37	54.00	-3.4
LPB	69.65	128 eP	38	00.00	1.6
SIV	74.01	123 P	38	20.40	-3.5

57 obs. associated

& JAN 17, 1994 13h 28m 13.36s  
34.252 N 118.581 W  
DEPTH = 13.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.9 (GS).

ABL	0.80	319 eP	28	27.77	-0.9
		eS		28 36.94	
BCH	1.55	307 eP	28	41.10	0.5
MEMM	3.42	355 ePg			



17d 13h

34.342 N 118.476 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 4.0 (GS).

ABL 0.80 310 eP 29 31.13 -0.3  
 BCH 1.57 303 eP 29 43.32 -0.7  
 eS 30 07.06  
 2 obs. associated

% JAN 17, 1994 13h 29m 18.54± 0.90s  
 39.666 N ± 7.1km 29.473 E ± 8.9km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.5 (ISK).

DST 0.66 265 ePg 29 31.50 -0.1  
 eSg 29 42.50  
 IZI 0.67 0 ePg 29 31.30 -0.6  
 eSg 29 40.80  
 ALT 0.78 141 ePg 29 34.00 0.1  
 YLV 0.90 355 ePg 29 36.80 0.9  
 EYL 1.04 30 ePn 29 38.00 -0.3  
 S.D. = 0.8 on 5 of 5 obs.

& JAN 17, 1994 13h 32m 20.33s  
 34.317 N 118.431 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.7 (PAS).

FTC 0.67 326 P 32 33.27 -0.4  
 PLEC 0.84 321 P 32 37.02 0.0  
 MARC 1.01 313 P 32 39.12 -1.3  
 LPC 1.08 280 P 32 39.77 -1.8  
 TMB 1.19 311 P 32 42.25 -1.3  
 WORM 1.39 6 P 32 46.06 -0.8  
 CRGC 1.41 311 P 32 46.34 -0.9  
 WSHM 1.52 30 P 32 47.59 -1.3  
 NMC 1.58 16 P 32 49.38 -0.4  
 TOW 1.59 20 P 32 50.40 0.6  
 RCWM 1.75 21 P 32 53.22 1.0  
 PMCM 2.12 312 P 32 57.20 -0.4  
 WKR 2.27 312 P 32 59.58 -0.1  
 PSMM 2.49 315 P 33 03.18 0.3  
 LRC 2.88 313 P 33 08.14 -0.2  
 BHPR 2.98 359 P 33 15.59 5.6  
 ORC 3.32 357 P 33 21.17 6.4  
 FRP 3.48 315 P 33 14.76 -2.2  
 HCOM 3.70 315 P 33 17.80 -2.2  
 19 obs. associated

& JAN 17, 1994 13h 37m 48.16s  
 34.351 N 118.606 W  
 DEPTH = 5.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 4.2 (GS).

ABL 0.71 315 eP 38 00.42 -2.0  
 PLEC 0.72 328 P 38 02.09 -0.6  
 SNDC 0.83 17 P 38 04.63 -0.1  
 LPC 0.93 279 P 38 05.21 -1.2  
 WBSM 1.24 18 P 38 10.81 -1.0  
 WASM 1.38 2 P 38 14.46 0.2  
 SCCM 1.42 295 P 38 12.85 -1.8  
 NMC 1.60 21 P 38 17.67 0.5  
 VPBM 1.72 22 P 38 21.15 2.1  
 PAGM 1.93 316 P 38 20.69 -1.2  
 PKEM 2.10 325 eP 38 22.45 -2.0  
 PADM 2.26 305 P 38 23.38 -3.3  
 PHCM 2.48 303 P 38 26.62 -3.2  
 HVC 2.71 319 P 38 32.12 -1.0  
 PAPM 2.74 305 P 38 29.79 -3.9  
 BHPR 2.94 2 P 38 34.34 -2.3  
 MTUM 3.00 1 ePn 38 36.31 -1.0  
 BCWM 3.11 310 P 38 36.10 -2.8  
 BPRM 3.27 310 P 38 37.86 -3.3  
 MRCM 3.31 1 ePn 38 40.75 -1.1  
 MEMM 3.32 355 (Pn) 38 39.04 -2.7  
 GLA 3.41 111 ePn 38 37.40 -5.6  
 DIL 3.50 316 P 38 40.72 -3.6  
 BONR 3.61 4 ePn 38 45.92 -0.1  
 ePg 38 53.68  
 JBZM 3.71 317 P 38 44.86 -2.5  
 COE 3.82 320 ePn 38 45.48 -3.5  
 TNP 3.89 16 ePn 38 48.28 -1.7  
 CMB 3.95 339 (P) 38 48.97 -1.7

HMR 4.59 327 (Pn) 38 57.06 -2.7  
 KVN 4.71 5 (Pn) 39 01.40 -0.3  
 ARUT 5.41 49 ePn 39 09.63 -1.9  
 MSU 6.64 49 ePn 39 27.20 -1.8  
 SRU 8.04 51 (P) 39 46.38 -2.2  
 MBC 41.98 360 eP 45 41.50 0.4  
 34 obs. associated

\* JAN 17, 1994 13h 42m 22.87± 2.08s  
 34.323 N ± 16.3km 118.691 W ± 7.6km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.5 (GS).

FTC 0.57 343 P 42 34.29 -0.2  
 RYS 0.63 301 P 42 36.22 0.5  
 PLEC 0.71 334 P 42 37.50 0.5  
 LPC 0.86 282 P 42 39.74 0.2  
 MARC 0.86 322 P 42 39.79 0.3  
 SNDC 0.88 21 P 42 40.20 0.4  
 TEJ 0.90 0 P 42 39.08 -1.1  
 WJPM 1.10 9 P 42 43.10 -0.5  
 WOFM 1.21 359 P 42 45.20 -0.3  
 CRGC 1.25 317 P 42 46.95 0.8  
 WBSM 1.29 20 P 42 47.14 0.2  
 SCCM 1.37 297 P 42 48.32 0.3  
 WASM 1.42 4 P 42 48.77 -0.1  
 TOW 1.67 27 P 42 54.54 2.3X  
 VPBM 1.77 24 P 42 55.34 1.4  
 RCWM 1.84 27 P 42 56.56 1.8  
 WLHM 1.85 10 P 42 57.45 2.2X  
 PAPM 2.70 307 P 43 05.15 -2.1  
 BHPR 2.97 3 P 43 17.37 6.2X  
 TPNV 3.29 37 ePn 43 13.65 -2.0  
 ORC 3.31 0 P 43 23.34 7.4X  
 S.D. = 1.1 on 17 of 21 obs.

& JAN 17, 1994 13h 44m 33.57s  
 34.345 N 118.545 W  
 DEPTH = 1.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 4.0 (BRK), 3.6 (GS).

FTC 0.60 331 P 44 45.00 -0.5  
 PLEC 0.76 325 P 44 48.59 -0.1  
 ARVC 0.81 343 P 44 48.84 -1.0  
 TEJ 0.89 352 P 44 50.20 -1.2  
 MARC 0.93 315 P 44 51.25 -0.8  
 WJPM 1.06 3 P 44 53.97 -0.5  
 WOFM 1.20 353 P 44 56.24 -0.5  
 WBSM 1.23 16 P 44 57.47 0.0  
 WORM 1.37 10 P 44 58.82 -0.9  
 SCCM 1.47 294 P 45 00.57 -0.6  
 BCH 1.52 304 eP 45 00.32 -1.7  
 NMC 1.58 19 P 45 01.83 -1.1  
 WLHM 1.81 6 P 45 08.21 1.8  
 PTRM 1.89 314 P 45 06.09 -1.2  
 PMGM 1.95 304 P 45 06.17 -2.0  
 PHAM 2.13 315 eP 45 08.50 -2.2  
 PKEM 2.14 324 (P) 45 09.32 -1.5  
 WKR 2.18 313 P 45 10.22 -1.2  
 PHBM 2.28 327 P 45 12.69 -0.2  
 PAPM 2.79 305 P 45 17.12 -3.1  
 BHPR 2.95 1 P 45 26.36 3.7  
 TPNV 3.20 35 (P) 45 31.12 5.0  
 MMPM 3.28 353 (P) 45 27.87 0.4  
 BPRM 3.32 309 P 45 25.10 -2.6  
 SAO 3.38 316 eP 45 25.60 -2.9  
 DIL 3.54 315 P 45 27.82 -3.0  
 CMB 3.97 339 eP 45 36.18 -0.8  
 27 obs. associated

& JAN 17, 1994 13h 45m 12.80s  
 34.377 N 118.620 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 4.1 (GS).

BMT 0.76 1 P 45 24.56 -3.4  
 SNDC 0.81 19 P 45 28.98 0.1  
 WOFM 1.16 356 P 45 34.70 -0.8  
 WBSM 1.22 19 P 45 36.60 0.0  
 PHAM 2.06 315 P 45 44.07 -5.1  
 PKEM 2.08 324 (P) 45 46.60 -2.7  
 PANM 2.34 307 P 45 49.74 -3.5  
 PSAM 2.48 312 P 45 52.00 -3.2

PAPM 2.72 305 P 45 54.72 -3.9  
 LRV 2.83 317 P 45 57.15 -3.0  
 BCWM 3.08 309 P 46 00.60 -3.2  
 TPNV 3.21 36 (P) 46 06.29 0.6  
 MMPM 3.24 354 (P) 46 05.10 -1.2  
 BPRM 3.25 309 P 46 02.03 -4.1  
 MEMM 3.29 356 (P) 46 03.28 -3.4  
 SAO 3.31 317 eP 46 03.39 -3.6  
 FRP 3.33 316 P 46 03.79 -3.5  
 DIL 3.48 316 P 46 05.19 -4.1  
 HERM 3.49 315 P 46 05.90 -3.6  
 CSR 3.53 318 P 46 07.25 -2.8  
 CBC 3.55 317 P 46 07.82 -2.5  
 JBZM 3.69 317 P 46 09.71 -2.5  
 CBO 3.70 318 P 46 09.19 -3.2  
 EUC 3.72 317 P 46 10.35 -2.5  
 CMB 3.92 339 (P) 46 12.80 -2.9  
 SEC 4.06 317 P 46 12.97 -4.7  
 ORV 5.66 337 eP 46 37.61 -2.7  
 27 obs. associated

& JAN 17, 1994 13h 46m 48.89s  
 34.321 N 118.403 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.7 (GS).

PLM 1.61 127 (P) 47 19.73 1.0  
 eS 47 38.98  
 BCH 1.63 302 eP 47 18.26 -0.8  
 TPNV 3.15 33 (Pn) 47 44.00 3.1  
 MMPM 3.32 351 ePg 47 49.17 5.7  
 4 obs. associated

& JAN 17, 1994 13h 56m 02.42s  
 34.285 N 118.624 W  
 DEPTH = 19.4km  
 4.9mb (14 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.4 (PAS), 4.6 (GS), 4.7 (BRK).

GVR 0.48 119 P 56 11.69 -0.4  
 FOX 0.55 36 P 56 13.47 0.1  
 TPO 0.68 29 P 56 15.05 -0.4  
 RYS 0.70 301 P 56 15.26 -0.7  
 ABL 0.75 319 iPd 56 15.64 -1.2  
 PLEC 0.77 332 P 56 16.73 -0.4  
 SSK 0.77 95 eP 56 15.98 -1.2  
 CIS 0.90 168 P 56 19.80 0.6  
 LPC 0.93 283 P 56 18.95 -0.8  
 TEJ 0.94 357 P 56 19.27 -0.7  
 SNS 1.23 133 P 56 23.63 -1.0  
 WOFM 1.25 357 P 56 24.50 -0.5  
 PEC 1.28 107 iPd 56 24.06 -1.2  
 CRGC 1.32 317 P 56 25.46 -0.4  
 WASM 1.45 2 P 56 28.21 0.3  
 BCH 1.50 307 eP 56 27.92 -0.6  
 WWPM 1.51 17 P 56 28.09 -0.6  
 XMS 1.62 40 P 56 29.68 -0.5  
 TOW 1.68 25 P 56 30.78 -0.2  
 RMR 1.70 92 P 56 31.40 -0.1  
 PLM 1.74 122 eP 56 30.95 -1.1  
 VPBM 1.79 21 P 56 32.15 -0.6  
 PMGM 1.93 307 P 56 33.40 -1.3  
 PAGM 1.97 318 P 56 35.20 0.0  
 INDC 2.04 103 P 56 36.34 0.1  
 PHAM 2.12 317 iPd 56 36.41 -1.1  
 COY 2.13 115 P 56 39.40 1.8  
 PKEM 2.15 326 eP 56 37.18 -0.6  
 WKR 2.17 315 P 56 37.09 -1.1  
 PCR 2.34 321 P 56 39.59 -0.9  
 CBKC 2.41 124 P 56 41.75 0.2  
 PRI 2.49 319 iPd 56 41.68 -1.1  
 PHCM 2.50 305 P 56 41.06 -1.8  
 GRP 2.55 77 P 56 41.90 -1.7  
 MOP 2.62 318 P 56 43.09 -1.5  
 SUP 2.69 119 P 56 46.90 1.4  
 BTW 2.77 318 P 56 45.02 -1.6  
 FRI 2.84 342 iPd 56 46.20 -1.4  
 BHPR 3.01 2 P 56 56.25 6.0  
 SHG 3.02 315 P 56 47.75 -2.4  
 LTC 3.06 104 P 56 49.25 -1.5  
 MTUM 3.06 1 eP 56 50.88 -0.1  
 BPRM 3.31 311 P 56 51.56 -2.7  
 MMPM 3.33 354 ePn 56 54.94 0.0  
 HJSM 3.34 320 P 56 54.08 -0.6



17d 13h

BVYM	3.35	318	P	56	52.70	-2.2	LOR	83.81	35	eP	08	31.60	-0.1	MEMM	3.30	356	ePn	04	54.25	1.0
SAO	3.38	318	eP	56	53.09	-2.2		0.8s	8.35nm			5.0mb		GLA	3.43	111	ePn	04	53.26	-1.9
MRCM	3.38	2	ePn	56	56.62	1.1	BGF	83.83	36	eP	08	31.70	-0.1	DIL	3.48	316	P	04	52.18	-3.6
MEMM	3.38	356	ePn	56	56.15	0.9		0.7s	7.95nm			5.0mb		HCOM	3.55	316	P	04	53.75	-3.0
GLA	3.40	110	ePn	56	55.39	-0.2	AVF	83.91	36	eP	08	31.80	-0.3	JUCM	3.83	314	P	04	56.54	-4.2
DIL	3.54	317	P	56	54.95	-2.6		0.8s	7.80nm			5.0mb		CMB	3.93	339	(P)	04	59.82	-2.4
HCOM	3.61	317	P	56	56.43	-2.2	MAF	83.93	37	eP	08	32.20	-0.1	MSU	6.65	50	(P)	05	37.48	-3.4
BONR	3.67	4	ePn	56	58.03	-1.7		0.9s	10.00nm			5.0mb		29 obs. associated						
ARN	3.86	323	eP	56	59.60	-2.6	RJF	84.04	38	eP	08	32.80	-0.1	-----						
COE	3.87	321	eP	56	59.77	-2.4		0.8s	11.30nm			5.1mb		& JAN 17, 1994 14h 06m 56.16s						
MHC	3.91	322	eP	57	01.58	-1.4	HAU	84.45	34	eP	08	34.70	-0.2	34.314 N 118.532 W						
TNP	3.96	16	eP	57	03.09	-0.5		0.5s	4.30nm			4.9mb		DEPTH = 6.7km						
CMB	4.00	340	eP	57	03.56	-0.6	CDF	84.57	33	eP	08	35.40	-0.2	SOUTHERN CALIFORNIA (43)						
JJRM	4.22	317	P	57	05.93	-1.2	CAF	84.58	38	eP	08	35.50	-0.1	<PAS-P>. ML 3.7 (PAS), 3.8 (GS).						
STAN	4.24	318	eP	57	05.22	-2.3		0.8s	6.70nm			4.9mb		FTC 0.63 332 P 07 07.01 -1.8						
SFT	4.24	318	P	57	06.03	-1.5	BSF	84.78	33	eP	08	36.50	-0.1	SSK 0.70 98 (P) 07 05.36 -4.9						
BGH	4.29	316	P	57	05.52	-2.7	LPL	86.45	35	eP	08	45.10	-0.1	RYS 0.75 296 P 07 10.78 -0.5						
JHPM	4.34	318	P	57	06.69	-2.2	LPG	86.48	35	eP	08	45.40	0.0	ARVC 0.85 343 P 07 11.93 -0.9						
JCPM	4.46	319	P	57	09.96	-0.6	GEC2	86.98	29	PKP	08	46.70	-0.8	TEJ 0.92 352 P 07 11.26 -2.9						
JEGM	4.48	317	eP	57	07.74	-3.2		0.8s	0.81nm			4.0mb		MARC 0.96 316 P 07 13.89 -0.8						
CSVM	4.50	324	P	57	12.78	1.6	SLR	150.21	82	iPKPd	15	53.00	4.3	LPC 0.99 281 P 07 13.69 -1.7						
SAC	4.51	318	P	57	11.00	-0.2		1.0s	15.00nm					TMB 1.13 313 P 07 16.68 -1.0						
JSBM	4.56	319	P	57	09.76	-2.3	135 obs. associated						PEC 1.21 110 eP 07 17.06 -2.0							
BKS	4.63	322	eP	57	10.45	-2.5	-----						WOFM 1.23 353 P 07 18.98 -0.4							
HMR	4.64	327	eP	57	12.17	-1.0	& JAN 17, 1994 13h 58m 26.18s						CRGC 1.35 314 P 07 20.93 -0.5							
ZSP	4.69	322	iP	57	12.87	-1.0		34.356 N 118.471 W					WORM 1.40 10 P 07 21.10 -1.1							
JPRM	4.69	319	P	57	13.42	-0.5	DEPTH = 0.1km						SCCM 1.49 295 P 07 22.60 -0.8							
CPIM	4.70	323	P	57	13.40	-0.7	SOUTHERN CALIFORNIA (43)						BCH 1.55 305 (P) 07 22.21 -2.1							
AGC	4.72	320	P	57	13.46	-0.8	<PAS-P>. ML 3.1 (PAS), 3.0 (GS).						WCHM 1.61 13 P 07 24.14 -1.2							
KVN	4.78	5	(Pn)	57	15.66	0.4	SSK	0.66	102	eP	58	38.90	-0.5	TOW 1.62 23 P 07 26.79 1.5						
NOLM	5.04	319	P	57	16.72	-2.1	ABL	0.79	309	eP	58	41.22	-0.8	VPEN 1.73 20 P 07 28.76 1.7						
LOC	5.08	321	P	57	19.32	0.0	PEC	1.18	113	(P)	58	47.43	-1.7	WLHM 1.84 6 P 07 28.37 -0.4						
NTYM	5.23	323	eP	57	18.58	-2.9	BCH	1.56	302	(P)	58	54.82	-0.6	PAPM 2.82 305 P 07 38.97 -3.6						
NMTM	5.46	327	P	57	25.36	0.6	PLM	1.67	126	(P)	58	57.43	0.4	BMSM 2.98 322 P 07 42.58 -2.2						
ARUT	5.46	49	eP	57	24.32	-0.7	5 obs. associated						MTUM 3.03 360 (Pn) 07 41.09 -4.6							
GARM	5.50	329	P	57	24.27	-1.0	-----						CWCR 3.18 3 P 07 54.88 7.1							
FTR	5.59	320	P	57	25.61	-1.0	& JAN 17, 1994 14h 00m 42.86s						TPNV 3.22 35 (Pn) 07 46.99 -1.3							
GSVM	5.63	325	P	57	29.23	1.9		34.253 N 118.622 W					eS 08 37.22							
ORV	5.74	337	eP	57	26.11	-2.6	DEPTH = 6.0km (geophysicist)						GLA 3.34 111 (P) 07 53.71 3.8							
MGL	5.99	338	P	57	31.38	-1.0	SOUTHERN CALIFORNIA (43)						MCSM 3.35 355 P 07 53.64 3.4							
MSU	6.70	49	ePn	57	42.01	-0.4	<PAS-P>. ML 3.2 (PAS), 3.3 (GS).						MRCM 3.35 0 (P) 07 51.71 1.5							
LGPM	7.41	334	eP	57	52.41	0.1	FTC	0.66	340	P	00	54.77	-1.2	MEMM 3.36 354 (P) 07 49.42 -0.7						
DUG	7.50	36	ePn	57	54.01	0.4	RYS	0.72	303	P	00	56.27	-1.0	BVYM 3.38 317 P 07 49.30 -1.2						
			eP	58	23.15		ABL	0.77	321	eP	00	56.52	-1.9	CMB 4.00 339 (P) 07 58.51 -0.8						
			eS	59	57.31			eS	01	07.81			29 obs. associated							
LBFM	7.51	341	(Pn)	57	53.23	-0.5	PLEC	0.80	333	P	00	57.86	-1.0	-----						
KMPM	7.52	326	eP	57	53.54	-0.3	LPC	0.93	285	P	01	00.62	-0.5	& JAN 17, 1994 14h 08m 07.50s						
FHC	7.77	328	(P)	57	55.99	-1.3	MARC	0.95	322	P	01	00.30	-1.1	34.326 N 118.414 W						
SRU	8.09	51	ePn	58	02.76	0.8	TMB	1.12	318	P	01	03.54	-0.8	DEPTH = 0.4km						
EMUT	8.33	46	eP	58	05.56	0.3	CRGC	1.34	318	P	01	06.63	-1.4	SOUTHERN CALIFORNIA (43)						
DAU	8.47	42	ePn	58	08.49	1.2	SCCM	1.45	299	P	01	08.76	-0.9	<PAS-P>. ML 3.8 (PAS), 4.1 (GS).						
PV09	8.73	58	ePn	58	09.89	-1.0	BCH	1.52	308	eP	01	09.44	-1.3	FTC 0.67 324 P 08 20.57 -0.3						
PV10	8.74	59	ePn	58	09.89	-1.2	TPNV	3.31	35	ePn	01	33.00	-3.4	RYS 0.84 292 P 08 24.05 -0.2						
PV08	9.11	59	ePn	58	17.05	0.9	12 obs. associated						PLEC 0.84 320 P 08 24.09 -0.1							
PTI	9.87	28	(P)	58	26.43	0.0	-----						MARC 1.02 312 P 08 27.17 -0.5							
BW06	11.05	37	eP	58	42.81	0.1	& JAN 17, 1994 14h 03m 59.39s						PEC 1.13 112 eP 08 27.79 -1.7							
VGB	11.34	352	(P)	58	46.04	-0.4		34.364 N 118.630 W					TMB 1.20 310 P 08 29.63 -1.1							
MCMT	11.43	21	ePc	58	51.70	3.9	DEPTH = 1.3km						WBSM 1.23 10 P 08 31.13 -0.3							
			e	58	56.90		SOUTHERN CALIFORNIA (43)						WOFM 1.23 349 P 08 30.84 -0.5							
LRM	12.45	20	eP	59	04.30	2.7	<PAS-P>. ML 3.7 (PAS), 3.7 (GS).						WORM 1.37 6 P 08 33.38 -0.4							
LON	12.68	350	eP	59	03.95	-0.6	Double event.						CRGC 1.41 311 P 08 34.09 -0.4							
RMW	13.38	351	(P)	59	11.90	-1.8	FTC	0.55	337	P	04	10.05	-0.3	WASM 1.41 355 P 08 33.68 -0.8						
RSSD	14.96	45	eP	59	33.04	-1.6	RYS	0.66	295	P	04	12.35	-0.2	NMC 1.57 15 P 08 36.50 -0.2						
	1.0s	14.17nm			4.3mb		ARVC	0.78	348	P	04	14.26	-0.7	SCCM 1.57 293 P 08 38.36 1.6						
ACO	16.05	76	e(P)	59	49.50	0.9	LPC	0.91	279	P	04	16.34	-1.1	WCHM 1.58 10 P 08 36.25 -0.8						
MEO	16.52	83	iPc	59	57.60	2.9	TMB	1.04	314	P	04	19.03	-0.8	BCH 1.62 302 (P) 08 36.18 -1.3						
TUL	18.75	79	iPc	00	23.00	0.7	CRGC	1.26	315	P	04	22.42	-1.2	VPEN 1.69 17 P 08 39.95 1.4						
UYO	19.98	83	iPc	00	34.60	-1.8	PEC	1.31	111	eP	04	22.06	-2.4	WLHM 1.82 3 P 08 41.45 0.8						
ULM	23.05	39	eP	01	09.00	1.6	WASM	1.37	2	P	04	24.89	-0.8	MTUM 3.02 358 ePg 09 02.82 5.1						
YKA	28.34	4	eP	01	55.30	-1.5	SCCM	1.40	295	P	04	24.15	-1.8	MMPM 3.31 352 (Pn) 09 00.80 -1.2						
	0.6s	0.60nm			3.5mb X		BCH	1.45	305	eP	04	24.44	-2.4	TNP 3.87 14 ePn 09 10.14 0.4						
MBC	42.05	360	eP	03	55.50	1.7	WCHM	1.58	17	P	04	27.15	-1.7	ARUT 5.31 48 ePn 09 31.04 0.9						
	1.0s	5.00nm			4.2mb		TOW	1.61	26	P	04	30.68	1.7	MSU 6.54 48 (Pn) 09 48.11 0.6						
RES	42.10	9	eP	03	54.50	0.3							22 obs. associated							
FRB	42.39	30	eP	03	56.50	-0.3	WLFM	1.80	8	P	04	32.38	0.3	-----						
	1.0s	8.00nm			4.4mb		PTRM	1.83	315	P	04	30.69	-1.5	& JAN 17, 1994 14h 14m 30.31s						
LPZ	69.54	128	iPc	07	10.90	-2.0	PSMM	2.34	317	P	04	37.47	-2.2	34.331 N 118.442 W						
LPB	69.74	128	(P)	07	14.00	0.2	PAPM	2.72	305	P	04	41.22	-3.9	DEPTH = 1.9km						
SIV	74.11	122	P	07	38.10	-1.3	LRC	2.72	314	P	04	41.72	-3.3	3.6mb ( 1 obs.)						
MOCB	74.76	129	P	07	43.20	-0.4	MTUM	2.98	1	(Pn)	04	47.68	-1.2	SOUTHERN CALIFORNIA (43)						
HFS	78.09	22	eP	08	00.00	-1.2	BPOM	3.17	307	P	04	47.36	-4.0	<PAS-P>. ML 4.5 (PAS), 4.5 (GS),						
	0.8s	7.10nm			4.8mb		TPNV	3.23	36	ePn	04	50.40	-1.9	4.4 (BRK).						
LSF	83.39	37	eP	08	29.50	-0.1	MCSM	3.29	356	P	04	59.79	6.4	SNDC 0.82 8 P 14 47.88 1.2						
TCF	83.70	37	eP	08	30.90	-0.3	MRCM	3.30	2	(Pn)	04	52.74	-0.7	ABL 0.83 309 iPd 14 45.82 -1.0						
	1.1s	16.85nm			5.2mb															
SSF	83.79	36	eP	08	31.50	-0.1														
	0.8s	6.30nm			4.9mb															



17d 14h

LPC 1.06 279 P 14 50.41 -0.8  
 PEC 1.15 112 iPc 14 50.74 -1.9  
 WASM 1.41 356 P 14 56.50 -0.6  
 SCCM 1.55 294 P 14 57.68 -1.4  
 BCH 1.60 303 ePn 14 57.38 -2.4  
 PLM 1.64 126 eP 14 57.51 -2.9  
 WLHM 1.82 3 P 15 02.49 -0.7  
 PMCM 2.11 312 P 15 05.63 -1.4  
 PHAM 2.20 314 eP 15 06.48 -1.9  
 PKEM 2.20 322 eP 15 06.98 -1.4  
 PADM 2.38 304 P 15 08.89 -2.1  
 PRI 2.56 315 iP 15 15.20 1.5  
 PHCM 2.60 302 P 15 11.81 -2.3  
 FRI 2.85 339 iP 15 15.67 -2.0  
 LRC 2.86 313 P 15 15.43 -2.4  
 PAMP 2.87 304 P 15 14.94 -3.1  
 BMSM 3.01 321 P 15 17.85 -2.2  
 MTUM 3.02 358 ePn 15 18.51 -1.7  
 CWCN 3.16 2 P 15 27.75 5.5  
 TPNV 3.16 34 eP 15 21.05 -1.2  
 eS 16 13.23  
 GLA 3.27 112 ePn 15 18.39 -5.3  
 MMPM 3.31 352 ePn 15 24.51 0.0  
 BPOM 3.31 306 P 15 20.76 -3.5  
 MRCM 3.33 359 ePn 15 25.88 1.1  
 eS 16 16.23  
 MCSM 3.34 354 P 15 32.00 7.1  
 MEMM 3.35 353 ePn 15 25.33 0.6  
 HJSM 3.40 318 P 15 24.63 -0.9  
 BSRM 3.42 314 P 15 23.32 -2.5  
 SAO 3.45 316 ePn 15 23.22 -3.0  
 BONR 3.62 2 ePn 15 28.73 -0.1  
 CBC 3.69 316 P 15 28.86 -0.7  
 JRRM 3.81 316 P 15 29.35 -2.0  
 ARN 3.92 321 ePn 15 30.93 -2.0  
 COE 3.93 319 ePn 15 30.16 -2.8  
 MHC 3.97 320 eP 15 32.50 -1.2  
 CMB 4.02 338 eP 15 33.94 -0.3  
 PSD 4.28 313 P 15 35.88 -2.0  
 HMR 4.68 326 (P) 15 40.97 -2.7  
 KVN 4.72 3 (Pn) 15 44.34 -0.1  
 ZSP 4.75 321 iP 15 43.37 -1.2  
 NTYM 5.29 321 ePn 15 49.36 -2.9  
 ARUT 5.32 48 ePn 15 51.79 -1.1  
 ePg 16 08.00  
 MSU 6.55 49 ePn 16 08.40 -2.0  
 TUC 6.72 105 (Pn) 16 09.46 -3.1  
 LBPM 7.52 340 (Pn) 16 23.14 -0.7  
 KMPM 7.57 325 (P) 16 23.48 -1.0  
 SRU 7.95 51 ePn 16 29.51 -0.3  
 EMUT 8.19 46 (Pn) 16 33.84 0.5  
 DAU 8.34 41 (P) 16 39.12 3.7  
 FV10 8.59 59 ePn 16 36.87 -2.1  
 FV08 8.95 59 ePn 16 42.95 -1.1  
 LRM 12.35 20 eP 17 42.80 12.4  
 ULM 22.92 39 eP 19 37.00 0.4  
 YKA 28.29 4 eP 20 24.30 -2.6  
 1.1s 1.10nm 3.6mb  
 LPAZ 69.45 128 P 25 39.50 -3.6  
 LPB 69.65 128 P 25 42.00 -2.0  
 SIV 74.01 123 P 25 52.50 -17.1  
 MOCB 74.67 130 P 26 11.70 -2.2  
 60 obs. associated

& JAN 17, 1994 14h 16m 48.73s  
 34.325 N 118.436 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 2.9 (GS).

ABL 0.83 309 eP 17 04.01 -1.4  
 eS 17 16.78  
 PEC 1.14 112 (P) 17 10.21 -0.9  
 BCH 1.61 303 eP 17 18.61 0.1  
 PLM 1.63 126 eP 17 16.04 -2.9  
 4 obs. associated

& JAN 17, 1994 14h 22m 50.02s  
 34.320 N 118.425 W  
 DEPTH = 0.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS).

SSK 0.62 100 eP 23 01.88 -0.4  
 MMPM 3.32 352 (Pn) 23 44.63 0.1  
 ePg 23 49.25  
 MEMM 3.37 353 (Pn) 23 43.83 -1.1

ePg 23 51.48  
 TNP 3.88 14 (Pn) 23 51.84 -0.6  
 4 obs. associated

& JAN 17, 1994 14h 26m 51.81s  
 34.378 N 118.466 W  
 DEPTH = 0.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 3.9 (GS).

FTC 0.60 325 P 27 03.30 -0.6  
 SSK 0.66 104 eP 27 04.54 -0.5  
 BMTC 0.76 352 P 27 05.53 -1.5  
 PLEC 0.77 320 P 27 07.09 -0.1  
 SNDC 0.78 10 P 27 11.55 4.3  
 RYS 0.78 290 P 27 08.47 1.1  
 ABL 0.78 307 ePn 27 06.06 -1.3  
 ARVC 0.81 338 P 27 06.82 -1.1  
 MARC 0.95 311 P 27 09.60 -1.2  
 WJPM 1.03 359 P 27 14.21 2.0  
 LPC 1.04 277 P 27 10.44 -1.9  
 TMB 1.13 309 P 27 15.06 1.2  
 WOFM 1.17 350 P 27 14.40 -0.2  
 PEC 1.19 114 eP 27 12.67 -2.1  
 WBSM 1.19 13 P 27 15.39 0.4  
 WORM 1.33 8 P 27 18.53 1.3  
 CRGC 1.35 310 P 27 16.82 -0.8  
 WSHM 1.49 32 P 27 19.73 0.0  
 SCCM 1.51 292 P 27 19.60 -0.6  
 NMC 1.53 17 P 27 21.15 0.7  
 TOW 1.54 22 P 27 21.56 1.0  
 BCH 1.56 302 ePn 27 19.83 -1.0  
 VPEN 1.66 19 P 27 23.53 1.3  
 PLM 1.68 127 ePd 27 20.94 -1.7  
 WLHM 1.77 4 P 27 25.37 1.2  
 PAGM 1.99 313 P 27 29.85 2.8  
 PHAM 2.15 313 ePn 27 28.39 -0.9  
 PHBM 2.29 325 P 27 33.81 2.5  
 PADM 2.34 303 P 27 30.79 -1.3  
 PANM 2.44 306 P 27 30.18 -3.4  
 LRC 2.81 312 P 27 37.30 -1.5  
 PAMP 2.82 304 P 27 37.15 -1.9  
 MTUM 2.97 359 ePn 27 41.64 0.4  
 TPNV 3.14 34 ePn 27 42.75 -0.7  
 eS 28 36.58  
 MMPM 3.26 352 ePn 27 47.04 1.7  
 eS 28 36.68  
 MRCM 3.29 359 (Pn) 27 47.00 1.3  
 MEMM 3.30 353 ePn 27 50.02 4.3  
 GLA 3.31 113 ePn 27 43.93 -1.9  
 BPOM 3.35 308 P 27 45.18 -1.3  
 BONR 3.57 2 ePn 27 51.30 1.5  
 PEV 3.77 314 P 27 52.04 -0.4  
 TNP 3.83 15 ePn 27 54.66 1.2  
 ARN 3.87 321 ePn 27 54.32 0.4  
 COE 3.88 319 (Pn) 27 51.20 -2.7  
 CMB 3.97 338 ePn 27 55.27 0.1  
 ARUT 5.30 49 ePn 28 15.62 1.3  
 MSU 6.54 49 ePn 28 33.10 1.3  
 SRU 7.93 51 (Pn) 28 50.90 -0.4  
 48 obs. associated

& JAN 17, 1994 14h 28m 03.78s  
 34.193 N 118.529 W  
 DEPTH = 16.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 3.7 (GS).

SSK 0.69 88 eP 28 16.24 -0.9  
 FTC 0.74 336 P 28 17.20 -0.7  
 ABL 0.87 319 ePn 28 19.02 -1.2  
 PLEC 0.89 330 P 28 20.34 -0.2  
 SNDC 0.97 11 P 28 22.59 0.8  
 PEC 1.18 104 eP 28 23.76 -1.6  
 TMB 1.22 317 P 28 26.11 0.1  
 WBSM 1.38 13 P 28 28.05 -0.4  
 CRGC 1.44 317 P 28 29.60 0.4  
 WORM 1.52 9 P 28 29.87 -0.4  
 WASM 1.54 359 P 28 30.62 -0.1  
 BCH 1.62 308 P 28 30.82 -1.0  
 WCHM 1.73 12 P 28 32.77 -0.7  
 PAMP 2.89 307 P 28 48.09 -1.9  
 BCWM 3.26 311 P 28 52.93 -2.4  
 TPNV 3.32 33 (Pn) 28 55.07 -1.1  
 BPOM 3.34 308 P 28 54.50 -1.8  
 DIL 3.66 317 P 28 58.65 -2.2  
 JBZM 3.87 318 P 29 02.54 -1.3

ARUT 5.47 48 (Pn) 29 27.16 0.5  
 20 obs. associated

& JAN 17, 1994 14h 29m 39.89s  
 34.330 N 118.414 W  
 DEPTH = 1.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.3 (GS).

FTC 0.67 324 P 29 52.62 -0.6  
 RYS 0.83 292 P 29 55.97 -0.6  
 ABL 0.84 308 ePn 29 55.30 -1.5  
 ARVC 0.87 337 P 29 56.25 -0.9  
 MARC 1.02 312 P 29 59.27 -0.7  
 WJPM 1.08 357 P 30 00.09 -1.0  
 LPC 1.09 279 P 29 59.95 -1.3  
 TMB 1.19 310 P 30 02.22 -0.8  
 WBSM 1.23 11 P 30 03.50 -0.2  
 WOFM 1.23 349 P 30 02.48 -1.2  
 WASM 1.41 355 P 30 07.23 0.4  
 SCCM 1.57 293 P 30 08.76 -0.3  
 WCHM 1.57 10 P 30 09.56 0.3  
 BCH 1.62 302 ePn 30 06.57 -3.2  
 VPEN 1.69 17 P 30 12.60 1.8  
 PHBM 2.35 325 P 30 21.55 1.3  
 PRCM 2.64 317 P 30 22.85 -1.5  
 PAMP 2.89 304 P 30 24.84 -3.2  
 BHPR 2.96 359 P 30 35.27 6.1  
 TPNV 3.15 33 (Pn) 30 34.56 2.8  
 HTCR 3.21 355 P 30 39.95 7.2  
 21 obs. associated

& JAN 17, 1994 14h 31m 02.71s  
 34.342 N 118.565 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.0 (GS).

SSK 0.73 100 eP 31 17.00 -0.4  
 ABL 0.74 313 (P) 31 16.72 -0.8  
 eS 31 30.99  
 BCH 1.51 304 eP 31 29.35 -1.8  
 3 obs. associated

? JAN 17, 1994 14h 32m 40.30± 1.72s  
 34.303 N ±22.5km 118.485 W ±10.1km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.0 (GS).

SSK 0.66 98 eP 32 53.53 -0.1  
 eS 33 03.97  
 ABL 0.82 312 eP 32 55.86 -0.4  
 BCH 1.58 304 eP 33 08.96 0.4  
 TPNV 3.21 34 (Pn) 33 31.99 0.1  
 S.D. = 0.6 on 4 of 4 obs.

& JAN 17, 1994 14h 33m 42.10s  
 34.308 N 118.478 W  
 DEPTH = 2.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.2 (GS).

FTC 0.66 329 P 33 54.34 -0.9  
 SSK 0.66 98 iPc 33 54.52 -0.7  
 RYS 0.80 295 P 33 56.81 -1.2  
 PLEC 0.82 324 P 33 57.66 -0.8  
 BMTC 0.83 353 P 33 56.20 -2.5  
 ARVC 0.87 341 P 33 58.82 -0.6  
 TEJ 0.94 349 P 33 58.27 -2.5  
 MARC 0.99 315 P 34 00.11 -1.5  
 LPC 1.04 281 P 34 00.48 -2.0  
 WJPM 1.10 360 P 34 02.90 -0.7  
 TMB 1.17 312 P 34 03.36 -1.3  
 WOFM 1.24 351 P 34 05.05 -0.9  
 WBSM 1.26 13 P 34 05.57 -0.8  
 CRGC 1.39 313 P 34 07.15 -1.3  
 SCCM 1.53 295 P 34 09.64 -0.9  
 WSHM 1.55 31 P 34 09.85 -1.0  
 NMC 1.60 17 P 34 12.13 0.6  
 WCHM 1.61 12 P 34 10.14 -1.7  
 PLM 1.65 125 eP 34 10.26 -2.1  
 VPEN 1.73 18 P 34 12.31 -1.1  
 WLHM 1.85 4 P 34 16.25 0.9  
 TPNV 3.20 34 (P) 34 33.69 -0.8  
 ARN 3.92 322 (Pn) 34 45.41 0.7  
 23 obs. associated



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 % JAN 17, 1994 14h 36m 20.03± 0.91s  
 40.179 N ± 8.6km 21.964 E ± 6.3km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 1.7 (THE).

LIT	0.41	101	iPg	36	27.78	-0.5
FNA	0.75	324	ePg	36	33.70	-1.5
			eSg	36	46.78	
GRG	0.85	23	ePg	36	36.98	0.1
THE	0.89	59	iPg	36	37.21	-0.3
KNT	1.21	36	iPb	36	44.57	1.5
SOH	1.24	58	ePb	36	43.82	0.3
OHR	1.29	317	e(Pn)	36	42.00	-2.4X
PAIG	1.34	100	ePb	36	44.70	-0.5
IGT	1.41	243	ePb	36	47.34	0.9

S.D. = 1.1 on 8 of 9 obs.

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 & JAN 17, 1994 14h 45m 54.42s  
 34.294 N 118.644 W  
 DEPTH = 0.3km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.2 (PAS), 3.3 (GS).

FTC	0.61	341	P	46	06.07	-0.5
ABL	0.73	320	iPd	46	07.92	-1.1
			eS	46	17.86	
PLEC	0.76	333	P	46	09.21	-0.3
SSK	0.79	96	eP	46	10.43	0.2
WJPM	1.12	7	P	46	15.25	-1.2
WOFM	1.24	357	P	46	17.52	-0.9
PEC	1.29	108	(P)	46	19.32	0.0
BCH	1.48	307	ePn	46	20.31	-2.2
WLHM	1.87	8	P	46	29.59	1.3
PHAM	2.11	317	(P)	46	35.97	4.6
BHPR	3.00	2	P	46	48.95	4.6
MTUM	3.05	1	(Pn)	46	43.90	-1.1
TPNV	3.29	36	ePn	46	44.65	-3.7
MRCM	3.37	2	ePn	46	56.05	6.4
MEMM	3.37	356	ePn	46	54.21	4.8
BONR	3.66	4	(Pn)	46	51.79	-2.0

16 obs. associated

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 & JAN 17, 1994 14h 46m 12.07s  
 38.801 N 122.451 W  
 DEPTH = 11.3km  
 NORTHERN CALIFORNIA ( 36)  
 <GM-P>. MD 4.1 (GM), ML 4.1  
 (BRK), 4.0 (GS). Felt in Napa  
 County.

NMHH	0.19	227	P	46	16.68	0.1
NBPM	0.24	123	P	46	17.89	0.6
GWKM	0.25	353	P	46	17.46	-0.1
GMKM	0.31	303	P	46	18.79	0.1
GCVM	0.44	266	P	46	21.29	0.2
NTYM	0.44	202	iPd	46	21.23	0.1
GHLM	0.50	299	P	46	22.22	-0.1
GHCM	0.62	252	P	46	24.56	0.2
NTBM	0.67	214	P	46	25.44	0.2
NOLM	0.81	200	P	46	27.36	-0.2
HMR	0.82	141	ePc	46	27.64	-0.2
CPIM	0.83	167	P	46	27.87	-0.2
DUC	0.85	155	P	46	28.22	-0.1
AGC	0.94	179	P	46	29.09	-0.8
BKS	0.94	170	ePc	46	28.86	-1.0
			iS	46	43.96	
GNAM	1.00	294	P	46	30.31	-0.6
ORV	1.06	44	iPd	46	28.96	-2.9
AHRM	1.08	87	P	46	29.75	-2.5
LKC	1.10	164	P	46	31.78	-0.9
MGA	1.16	181	P	46	32.34	-1.3
ARJM	1.17	95	P	46	31.30	-2.6
SAC	1.22	179	P	46	32.95	-1.6
JEGM	1.28	180	eP	46	33.47	-2.3
AODM	1.36	97	P	46	34.50	-2.4
STAN	1.41	171	eP	46	35.64	-2.0
JJRM	1.47	172	P	46	36.70	-1.7
MHC	1.59	156	iPc	46	38.19	-2.1
JSMM	1.60	172	P	46	38.79	-1.5
ARN	1.62	153	eP	46	38.46	-2.2
COE	1.66	158	ePc	46	39.28	-1.9
MIN	1.67	23	eP	46	38.83	-2.7
JBLM	1.68	172	P	46	39.45	-2.2
AMC	1.71	164	P	46	40.04	-1.8
JHLM	1.76	164	P	46	40.77	-1.9

WDC	1.78	358	eP	46	39.04	-3.8
CMB	1.79	115	iPc	46	41.18	-2.0
			iS	47	04.25	
JUCM	1.82	170	P	46	41.25	-2.3
JRRM	1.84	162	P	46	41.74	-2.0
MSTM	1.84	118	P	46	42.30	-1.5
LMEM	1.86	21	eP	46	41.47	-2.8
PEV	1.89	165	P	46	42.77	-1.7
HGWM	1.89	160	P	46	42.52	-2.0
CDC	1.93	156	P	46	43.34	-1.8
HCOM	2.00	163	P	46	43.79	-2.3
DIL	2.06	162	P	46	44.52	-2.5
KMPM	2.07	322	eP	46	45.80	-1.3
LTR	2.12	154	P	46	45.49	-2.3
LGPM	2.13	352	eP	46	44.54	-3.6
SAO	2.18	158	ePn	46	45.39	-3.4
FHC	2.32	330	eP	46	50.07	-0.7
EKH	2.36	154	P	46	51.90	0.6
LBFM	2.58	9	eP	46	52.18	-2.4
TNP	4.17	98	(Pn)	47	13.72	-3.5
ARUT	7.16	95	(Pn)	47	55.51	-3.8
DUG	7.58	76	(P)	48	01.24	-4.0

MSU	8.05	89	ePn	48	06.99	-4.9
DAU	8.79	76	(P)	48	19.22	-3.1
UYO	22.94	93	iPc	51	16.80	-0.3
YKA	24.20	9	eP	51	27.10	-2.0
			0.9s	0.70nm	3.3mb X	
YKA	24.20	9	eP	51	46.70	17.6
			0.8s	0.50nm		
WRA	112.31	262	Pdiff	00	51.00	-2.6
			0.4s	0.20nm		

61 obs. associated

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 % JAN 17, 1994 14h 46m 20.04± 4.95s  
 41.854 N ±35.2km 19.572 E ±13.3km  
 DEPTH = 10.0km (geophysicist)  
 ALBANIA (391)  
 ML 1.9 (TTG).

ULC	0.26	295	iPg	46	25.46	-0.2
			iSg	46	30.13	
TTG	0.62	338	iPg	46	32.04	-0.5
			iSg	46	41.88	
BDV	0.70	308	iPg	46	33.48	-0.4
			iSg	46	44.28	
PVY	0.80	22	iPg	46	35.01	-0.6
			iSg	46	47.26	
HCY	0.99	307	iPg	46	38.96	0.1
			iSg	46	54.23	
IVA	1.05	13	iPg	46	39.75	-0.1
			iSg	46	55.58	
NKY	1.05	336	ePg	46	39.99	0.1
			iSg	46	56.04	
BRY	1.29	324	iPg	46	44.46	0.4
			iSg	47	04.22	
PLE	1.48	355	iPg	46	47.90	1.1
			iSg	47	10.38	

S.D. = 0.6 on 9 of 9 obs.

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 & JAN 17, 1994 14h 50m 38.29s  
 34.309 N 118.474 W  
 DEPTH = 2.5km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.8 (PAS), 4.1 (GS).

FTC	0.66	329	P	50	50.65	-0.8
ABL	0.82	311	eP	50	52.63	-2.0
PLEC	0.82	324	P	50	53.90	-0.8
SNDC	0.84	10	P	50	56.09	1.0
PEC	1.17	111	iPc	50	59.00	-1.8
TMB	1.17	312	P	50	59.68	-1.2
WBSM	1.26	13	P	51	01.33	-1.1
CRGC	1.39	313	P	51	03.33	-1.3
WASM	1.43	357	P	51	04.11	-1.2
BCH	1.59	304	eP	51	05.53	-2.0
TOW	1.61	21	P	51	06.26	-1.5
PLM	1.65	125	eP	51	05.94	-2.5
VPBM	1.72	18	P	51	10.78	1.2
WLHM	1.84	4	P	51	12.22	0.8
PAGM	2.03	315	P	51	14.50	0.6
PHAM	2.19	315	eP	51	13.63	-2.6
PKEM	2.20	323	ePn	51	14.24	-2.1
PANM	2.48	307	P	51	17.04	-3.3
PTV	2.57	315	P	51	19.20	-2.4
BMSM	3.01	322	P	51	24.26	-3.7
MTUM	3.04	359	ePn	51	27.64	-0.8

CWCR	3.18	2	P	51	36.84	6.4
TPNV	3.20	34	ePn	51	27.97	-2.7
GLA	3.29	111	ePn	51	28.58	-3.3
BPOM	3.31	306	P	51	28.04	-4.0
MMPM	3.32	352	eP	51	32.83	0.2
MRCM	3.36	360	ePn	51	31.11	-1.9
MEMM	3.37	354	ePn	51	31.14	-1.8
BSLM	3.40	317	P	51	31.57	-1.8
SAO	3.45	316	ePn	51	29.71	-4.3
BONR	3.64	2	ePn	51	35.93	-1.2
CBO	3.83	318	P	51	37.81	-1.7
TNP	3.90	15	ePn	51	39.49	-1.2
ARN	3.92	322	eP	51	38.28	-2.6
COE	3.93	319	ePn	51	38.29	-2.6
CMB	4.03	338	eP	51	41.47	-0.8
LT3	4.23	315	P	51	44.58	-0.6
KVN	4.74	4	(P)	51	58.93	6.3
ARUT	5.36	48	ePn	51	59.90	-1.4
MSU	6.59	49	ePn	52	17.49	-1.3
MCMT	11.36	21	eP	53	27.70	2.8

41 obs. associated

\* JAN 17, 1994 14h 58m 11.18± 1.76s  
 34.347 N ±14.1km 118.524 W ± 6.8km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.1 (GS).

FTC	0.60	330	P	58	22.68	-0.8
RYS	0.74	294	P	58	25.96	0.1
PLEC	0.77	324	P	58	26.44	0.2
BMTC	0.79	356	P	58	26.04	-0.6
TEJ	0.89	351	P	58	26.01	-2.3
MARC	0.94	314	P	58	28.93	-0.1
LPC	0.99	279	P	58	30.18	0.1
WJPM	1.06	2	P	58	31.85	0.6
TMB	1.11	312	P	58	32.31	0.2
WOFM	1.20	353	P	58	33.62	0.0
WBSM	1.23	15	P	58	34.32	0.1
SCCM	1.48	294	P	58	38.02	0.1
WSHM	1.54	33	P	58	38.99	0.3
WCHM	1.58	13	P	58	40.79	1.3
TOW	1.59	23	P	58	41.20	1.8
GSC	1.71	56	ePn	58	39.52	-1.7
RCWM	1.75	24	P	58	41.04	-0.9
WLHM	1.81	5	P	58	45.14	2.2
MTUM	3.00	359	(Pn)	58	57.70	-2.1
MMPM	3.28	353	(Pn)	59	05.75	1.8
MEMM	3.33	354	ePn	59	04.07	-0.2
BONR	3.61	3	ePg	59	17.20	8.7X
TNP	3.87	15	ePg	59	22.76	10.5X

S.D. = 1.2 on 21 of 23 obs.

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 & JAN 17, 1994 15h 00m 27.75s  
 34.348 N 118.498 W  
 DEPTH = 0.4km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.1 (PAS), 3.2 (GS).

FTC	0.61	328	P	00	39.52	-0.5
SSK	0.68	101	eP	00	40.93	-0.4
RYS	0.76	293	P	00	42.56	-0.4
PLEC	0.78	323	P	00	43.08	-0.2
BMTC	0.79	354	P	00	42.50	-1.0
TEJ	0.89	350	P	00	43.18	-2.4
MARC	0.95	314	P	00	46.02	-0.7
LPC	1.02	279	P	00	46.45	-1.5
WJPM	1.06	1	P			



17d 14h

28 obs. associated					MRCM 3.36 360 ePg 08 04.77 6.8					WLS 0.83 317 Pg 10 55.59 0.2				
					MEMM 3.38 354 ePn 07 56.13 -1.8					CDF 0.87 315 Sg 11 07.16				
% JAN 17, 1994 15h 02m 54.98± 1.02s					BVYM 3.42 316 P 07 55.79 -2.8					Pn 10 56.00 0.0				
42.999 N ± 8.1km 18.735 E ± 6.6km					SAO 3.45 316 ePn 07 56.13 -2.9					Pg 10 56.50				
DEPTH = 10.0km (geophysicist)					FRP 3.47 316 P 07 55.29 -4.0					Sg 11 08.60				
NORTHWESTERN BALKAN REGION (383)					DIL 3.61 315 P 07 58.40 -2.9					BSF 0.95 272 Pn 10 57.50 0.1				
ML 1.6 (TTG).					BONR 3.65 2 ePn 07 59.78 -2.3					Pg 10 58.20				
					TNP 3.90 15 ePn 08 04.54 -1.1					Sg 11 11.10				
BRY 0.17 235 iPg 02 59.29 0.3					ARN 3.93 322 ePn 08 03.56 -2.2					LOMF 1.03 244 Pg 11 00.06 1.2				
					COE 3.93 319 ePn 08 03.94 -1.9					Sg 11 14.86				
NKY 0.27 134 iPg 03 01.14 0.4					MHC 3.98 321 eP 08 06.64 0.1					LLS 1.08 150 iPd 10 59.30 -0.4				
					CMB 4.03 338 eP 08 06.00 -1.3					SRBF 1.13 348 Pg 11 00.78 0.3				
HCY 0.58 198 iPg 03 06.36 -0.3					JSM 4.18 315 P 08 08.26 -1.0					Sg 11 15.86				
					HMR 4.69 326 (P) 08 14.43 -2.1					LANF 1.21 348 Pn 11 00.13 -1.6				
PLE 0.58 55 iPg 03 06.68 -0.2					KVN 4.75 4 ePn 08 16.47 -1.1					Pg 11 01.90				
					ARUT 5.36 48 eP 08 24.93 -1.3					Sg 11 17.79				
TTG 0.69 146 iPg 03 08.24 -0.4					ORV 5.77 336 ePn 08 30.66 -1.2					HAU 1.26 280 Pn 11 02.00 -0.7				
					MSU 6.59 49 ePn 08 42.65 -1.0					Pg 11 03.50				
BDV 0.72 174 iPg 03 09.03 -0.1					TUC 6.74 105 ePn 08 41.81 -3.8					Sg 11 21.50				
					DUG 7.41 36 ePn 08 54.41 -0.7					KTD 1.52 357 ePg 11 07.80 1.3				
IVA 0.86 98 iPg 03 11.88 0.2					SRU 7.98 51 ePn 09 01.73 -1.4					VITF 1.54 286 Pn 11 06.18 -0.6				
					EMUT 8.23 46 ePn 09 05.31 -1.3					Pg 11 09.53				
S.D. = 0.4 on 7 of 7 obs.					PV09 8.61 58 ePn 09 10.06 -2.0					Sg 11 30.14				
					PV10 8.63 59 ePn 09 10.87 -1.3					OSS 1.73 129 iPc 11 08.40 -1.3				
& JAN 17, 1994 15h 03m 39.89s					PV08 8.99 59 ePn 09 16.55 -0.8					MMK 1.76 185 ePd 11 12.40 2.2				
34.333 N 118.431 W					MCMT 11.37 21 eP 09 52.30 2.5					DIX 1.81 198 iPd 11 13.60 2.7X				
DEPTH = 0.1km					ULM 22.96 39 eP 12 10.00 0.3					TOD 1.85 12 ePg 11 07.80 -3.4X				
SOUTHERN CALIFORNIA (43)					YKA 28.32 4 eP 12 57.30 -2.6					EMS 1.94 207 iPc 11 16.10 3.3X				
<PAS-P>. ML 3.1 (PAS).					0.6s 0.30nm 3.3mb X					RUP 2.04 339 ePg 11 17.40 3.3X				
					MBC 42.03 360 eP 14 57.50 0.5					FUR 2.10 79 ePn 11 16.80 1.9				
ABL 0.83 309 eP 03 55.45 -1.0					56 obs. associated					ABH 2.12 349 ePg 11 18.60 3.4X				
PLM 1.63 126 eP 04 09.78 -0.4										OGA 2.14 115 iPd 11 18.10 2.5				
MTUM 3.02 358 (Pn) 04 30.50 0.5					& JAN 17, 1994 15h 10m 11.62s					WLF 2.30 325 iPc 11 22.85 5.1X				
TPNV 3.16 34 ePn 04 31.04 -0.9					34.312 N 118.463 W					LPL 2.50 204 Pg 11 26.50 5.7X				
MMPM 3.31 352 (Pn) 04 33.80 -0.5					DEPTH = 1.5km					LPG 2.51 204 Pg 11 26.40 5.3X				
MRCM 3.33 359 (Pn) 04 34.16 -0.4					SOUTHERN CALIFORNIA (43)					Sg 11 58.00				
MEMM 3.35 353 (Pn) 04 35.00 0.4					<PAS-P>. ML 3.9 (PAS), 4.0 (GS).					GRF 2.75 46 iPg 11 28.90 4.7X				
BONR 3.62 2 (Pn) 04 38.09 -0.5										iSg 12 03.40				
					SSK 0.65 99 P 10 24.20 -0.3					LBF 2.98 256 Pn 11 27.50 0.0				
TNP 3.87 14 (Pn) 04 43.12 1.0					ABL 0.82 311 eP 10 26.52 -1.6					Pg 11 35.50				
9 obs. associated					MARC 1.00 314 P 10 30.22 -1.1					Sg 12 14.00				
					PEC 1.16 111 (P) 10 32.17 -1.9					LOR 2.99 261 Pn 11 26.50 -1.1				
& JAN 17, 1994 15h 03m 48.58s					TMB 1.17 312 P 10 33.52 -0.9					Pg 11 35.60				
34.301 N 118.544 W					WOFM 1.24 351 P 10 35.22 -0.3					Sg 12 13.80				
DEPTH = 0.3km					CRGC 1.39 312 P 10 36.65 -1.5					SMF 3.19 250 Pn 11 30.10 -0.3				
SOUTHERN CALIFORNIA (43)					WORM 1.39 7 P 10 37.70 -0.4					Pg 11 39.80				
<PAS-P>. ML 3.2 (PAS), 3.3 (GS).					WASM 1.42 357 P 10 39.54 0.8					Sg 12 19.70				
					SCCM 1.54 294 P 10 39.47 -0.8					SSF 3.27 259 Pn 11 30.50 -1.1				
ABL 0.78 315 (P) 04 02.75 -1.5					BCH 1.59 304 eP 10 36.96 -4.1					Pg 11 41.20				
PLM 1.69 124 (P) 04 17.73 -1.9					WCHM 1.60 11 P 10 41.50 0.2					Sg 12 22.70				
MMPM 3.33 353 (P) 04 37.74 -5.5					PLM 1.64 125 (P) 10 39.48 -2.3					DOU 3.30 315 iP 11 41.80 9.8X				
3 obs. associated					VPEM 1.72 18 P 10 43.70 0.8					WET 3.39 65 iPnc 11 40.20 6.9X				
					WLHM 1.84 4 P 10 46.02 1.2					AVF 3.45 255 Pn 11 33.70 -0.4				
& JAN 17, 1994 15h 07m 03.15s					PTRM 1.96 314 P 10 46.88 0.5					Pg 11 44.80				
34.304 N 118.473 W					PHAM 2.20 314 (P) 10 49.31 -0.5					Sg 12 28.70				
DEPTH = 2.3km					PHBM 2.34 326 P 10 52.15 0.3					HOF 3.49 43 iPd 11 43.00 8.4X				
SOUTHERN CALIFORNIA (43)					PSAM 2.62 311 P 10 53.61 -2.1					KBA 3.57 100 iPg 11 43.90 8.0X				
<PAS-P>. ML 4.2 (PAS), 4.3 (BRK), 4.0 (GS). Double event.					PAPM 2.86 305 P 10 55.88 -3.5					i 12 15.50				
					TPNV 3.19 34 eP 11 02.59 -1.4					iSg 12 27.70				
SSK 0.65 98 ePc 07 15.35 -0.8					GLA 3.28 111 (P) 11 03.42 -1.8					MOX 3.62 37 ePn 11 32.30 -4.2X				
FTC 0.66 329 P 07 15.88 -0.5					CLKR 3.28 355 P 11 11.96 6.5					iPg 11 44.80				
ABL 0.82 312 iPc 07 18.27 -1.3					BPOM 3.31 306 P 11 01.84 -3.8					iSg 12 31.50				
PLEC 0.82 324 P 07 19.32 -0.3					MRCM 3.35 359 (P) 11 06.28 -0.1					KHC 3.82 68 ePn 11 38.00 -1.3				
SNDC 0.85 9 P 07 20.80 0.7					BPRM 3.39 309 P 11 03.20 -3.6					ePg 11 47.00				
PEC 1.16 110 iPc 07 23.84 -1.8					JTGM 3.88 315 P 11 10.19 -3.5					e 11 55.00				
TMB 1.17 312 P 07 24.78 -1.1					TNP 3.89 15 (Pn) 11 14.17 0.1					eSn 12 14.00				
WBSM 1.26 12 P 07 26.47 -0.9					CMB 4.03 338 P 11 16.75 1.0					eSg 12 34.50				
WSHM 1.55 31 P 07 29.94 -1.9					29 obs. associated					BGF 3.86 253 Pn 11 39.20 -0.7				
BCH 1.59 304 eP 07 30.30 -2.2										Pg 11 52.10				
WCHM 1.61 12 P 07 31.44 -1.5					JAN 17, 1994 15h 10m 39.23± 0.40s					Sg 12 42.20				
PLM 1.64 125 iPc 07 30.70 -2.6					47.805 N ± 4.3km 8.201 E ± 3.6km					MAF 4.17 250 Pn 11 43.30 -1.0				
VPEM 1.73 18 P 07 35.29 0.8					DEPTH = 10.0km (geophysicist)					Pg 11 56.60				
PTRM 1.96 314 P 07 38.27 0.5					SWITZERLAND (544)					Sg 12 52.00				
PMGM 2.02 304 P 07 36.32 -2.4					ML 3.4 (FUR), 3.3 (GRF), 3.3 (LDG), 3.2 (VIE), 3.0 (KRW), 3.0 (STR).					CLL 4.70 40 ePg 12 06.00 14.2X				
PHAM 2.20 315 eP 07 38.21 -3.0										eSg 13 04.00				
PKEM 2.21 323 ePn 07 39.91 -1.4										PRU 4.72 60 Pn 12 05.00 12.9X				
PSMM 2.47 316 P 07 43.38 -1.8										Sg 13 03.40				
PHCM 2.59 303 P 07 44.38 -2.5					FEL 0.15 299 ePg 10 43.50 0.8					BRG 4.85 49 iPg 12 08.50 14.5X				
PAPM 2.86 305 P 07 46.77 -4.0					SLE 0.20 101 iPd 10 41.80 -1.9					iSg 13 08.90				
MTUM 3.04 359 ePn 07 52.89 -0.5					ZLA 0.35 158 iPc 10 45.80 -0.6					S.D. = 1.2 on 29 of 46 obs.				
BAPM 3.20 307 P 07 52.84 -2.6					LIBD 0.53 311 Pg 10 50.41 0.5					& JAN 17, 1994 15h 12m 05.78s				
TPNV 3.20 34 ePn 07 54.16 -1.4					BBS 0.58 234 Pg 10 51.62 0.6					34.317 N 118.449 W				
BCWM 3.22 309 P 07 53.38 -2.5					MOF 0.72 274 Pg 10 54.28 0.8					DEPTH = 1.1km				
GLA 3.29 111 ePn 07 53.88 -2.8					Sg 11 04.85					SOUTHERN CALIFORNIA (43)				
CLKR 3.29 355 P 08 00.45 3.4					ECH 0.81 301 Pg 10 55.33 0.3					<PAS-P>. ML 2.9 (PAS).				
MMPM 3.33 352 ePn 07 56.78 -0.8					Sg 11 06.82									



17d 15h

ABL 0.83 310 (P) 12 20.35 -2.0  
 PEC 1.15 111 (P) 12 26.32 -1.8  
 BCH 1.60 303 (P) 12 33.11 -2.3  
 3 obs. associated

& JAN 17, 1994 15h 14m 26.72s  
 34.352 N 118.459 W  
 DEPTH = 0.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 3.5 (GS).

FTC 0.63 326 P 14 38.59 -0.7  
 PLEC 0.79 321 P 14 42.16 -0.4  
 ABL 0.80 309 iPd 14 41.70 -1.0  
 ARVC 0.83 339 P 14 42.22 -1.1  
 MARC 0.97 312 P 14 45.02 -1.0  
 WJPM 1.06 359 P 14 46.18 -1.4  
 WOFM 1.20 350 P 14 48.65 -1.4  
 WORM 1.35 8 P 14 51.72 -0.9  
 CRGC 1.37 311 P 14 52.06 -0.8  
 WSHM 1.50 32 P 14 53.40 -1.6  
 NMC 1.56 17 P 14 57.14 1.5  
 WCHM 1.56 12 P 14 55.06 -0.9  
 BCH 1.57 302 eP 14 55.15 -0.8  
 VPEN 1.68 18 P 14 58.63 1.1  
 PAGM 2.01 314 P 15 01.69 -0.6  
 PADM 2.36 304 P 15 05.00 -2.2  
 PANM 2.46 306 P 15 06.36 -2.4  
 PAFM 2.84 304 P 15 11.36 -2.9  
 TPNV 3.15 34 ePn 15 17.76 -0.9  
 BCWM 3.20 308 P 15 17.46 -1.9  
 CLKR 3.25 355 P 15 28.15 8.1  
 BPRM 3.37 308 P 15 19.05 -2.6  
 BSRM 3.40 314 P 15 20.80 -1.3  
 SAO 3.42 316 ePn 15 19.60 -2.8  
 CMB 3.99 338 eP 15 28.32 -2.1  
 MSU 6.55 49 ePn 16 08.02 1.2  
 PTI 9.75 27 (P) 16 50.87 -0.4  
 27 obs. associated

& JAN 17, 1994 15h 15m 20.94s  
 34.297 N 118.528 W  
 DEPTH = 2.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS).

ABL 0.80 314 eP 15 34.47 -2.4  
 BCH 1.56 305 (P) 15 48.01 -1.8  
 2 obs. associated

& JAN 17, 1994 15h 16m 04.54s  
 34.301 N 118.402 W  
 DEPTH = 2.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS).

ABL 0.87 309 eP 16 19.21 -2.9  
 BCH 1.64 303 (P) 16 34.54 -0.1  
 2 obs. associated

& JAN 17, 1994 15h 20m 50.80s  
 34.369 N 118.613 W  
 DEPTH = 12.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.6 (GS).

PLEC 0.71 328 P 21 04.23 -0.4  
 ARVC 0.78 347 P 21 05.01 -0.7  
 SSK 0.78 101 eP 21 05.03 -0.9  
 TEJ 0.86 356 P 21 05.77 -1.5  
 LPC 0.92 278 P 21 07.19 -1.1  
 TMB 1.04 314 P 21 09.89 -0.5  
 WJPM 1.05 6 P 21 09.72 -0.7  
 WOFM 1.17 356 P 21 11.92 -0.6  
 CRGC 1.26 314 P 21 13.39 -0.8  
 PEC 1.30 111 eP 21 12.77 -1.9  
 WORM 1.36 13 P 21 16.02 0.4  
 WASM 1.37 2 P 21 16.06 0.2  
 WCHM 1.57 16 P 21 17.84 -1.0  
 VPEN 1.71 22 P 21 22.42 1.8  
 PLM 1.77 124 eP 21 18.58 -3.1  
 PTRM 1.83 315 P 21 21.64 -0.8  
 PKEM 2.09 324 eP 21 24.94 -1.1  
 PAFM 2.73 305 P 21 32.24 -3.1  
 LRC 2.73 314 P 21 32.70 -2.5  
 BMSM 2.89 323 P 21 36.20 -1.4  
 BHPR 2.93 2 P 21 44.04 5.9

MTUM 2.98 1 ePn 21 39.12 0.3  
 TPNV 3.21 36 ePn 21 41.44 -0.8  
 BPRM 3.26 309 P 21 40.25 -2.5  
 MRCM 3.30 1 ePg 21 49.36 5.9  
 MEMM 3.30 356 eP 21 42.68 -0.6  
 DIL 3.49 316 P 21 43.20 -2.7  
 BONR 3.59 4 ePg 21 52.68 5.0  
 COE 3.81 320 ePn 21 48.22 -2.3  
 TNP 3.87 17 ePg 22 00.78 9.2  
 CMB 3.93 339 ePn 21 51.27 -1.0  
 31 obs. associated

JAN 17, 1994 15h 22m 15.66± 0.65s  
 29.209 N ± 8.4km 130.698 E ± 7.1km  
 DEPTH = 34.3km (2 depth phases)  
 4.4mb (18 obs.)

RYUKYU ISLANDS (238)

KAGJ 1.98 5 eP 22 47.50 0.1  
 KUMJ 3.32 2 eP 23 06.70 0.2  
 SHNJ 4.91 4 eP 23 28.20 -0.9  
 TKSJ 5.55 30 P 23 37.10 -1.0  
 SHK 5.57 17 eP 23 40.00 1.7  
 YONJ 6.41 21 P 23 48.70 -1.4  
 WKYJ 6.51 39 P 23 50.50 -1.1  
 TSJ 7.73 34 P 24 08.00 -0.7  
 IIDJ 8.73 42 P 24 21.80 -0.9  
 MAT 9.66 39 eP 24 35.00 -0.4  
 NJ2 10.59 288 Pc 24 47.50 -0.6  
 SNY 13.85 337 Pc 25 34.40 2.6  
 Z 15s 3.52um  
 CN2 15.16 345 eP 25 54.00 5.2X  
 1.0s 70.00nm 4.9mb  
 BJI 16.09 316 eP 26 02.50 1.7  
 1.2s 10.00nm 3.8mb  
 Z 16s 2.05um 3.9Msz  
 N 12s 1.48um  
 E 13s 1.44um  
 TIY 17.42 304 eP 26 19.60 1.9  
 Z 13s 2.63um  
 N 12s 1.27um  
 E 12s 0.82um

XAN 19.15 290 P 26 36.50 -2.4  
 1.0s 37.00nm 4.6mb  
 HHC 19.46 312 Pd 26 43.60 1.1  
 1.0s 20.00nm 4.3mb  
 BTO 20.36 309 eP 26 58.00 6.0X  
 N 15s 1.33um  
 E 14s 1.25um

GYA 21.42 268 iPd 27 02.80 -0.2  
 1.0s 13.00nm 4.3mb  
 Z 16s 1.76um 4.6MszX  
 N 14s 1.11um  
 E 14s 0.85um

CD2 23.36 281 eP 27 21.40 -0.6  
 LZH 23.58 294 eP 27 23.50 -0.8  
 2.0s 43.00nm 4.6mb  
 Z 16s 1.81um 4.6MszX  
 E 13s 1.18um

pP 27 34.50 42km  
 sP 27 39.50  
 KMI 25.18 267 eP 27 40.00 0.2  
 GTA 27.35 300 eP 28 02.00 2.4  
 1.0s 13.00nm 4.5mb

pP 28 09.50 26km  
 GUN 39.21 279 P 29 42.30 -0.6  
 0.3s 13.00nm 5.2mb  
 PKI 39.69 279 P 29 45.60 -1.2  
 KKN 39.75 279 P 29 46.20 -1.0

0.6s 15.00nm 4.9mb  
 DMN 39.94 279 P 29 46.20 -2.6  
 GKN 40.26 280 P 29 49.60 -1.7  
 0.5s 8.00nm 4.7mb

WB2 48.99 175 eP 31 02.20 1.2  
 0.7s 3.20nm 4.5mb  
 i 31 14.40  
 ASPA 52.66 176 eP 31 30.80 1.9  
 1.4s 5.30nm 4.3mb

IMA 57.87 28 (P) 32 06.91 0.6  
 MBC 66.42 14 eP 33 04.00 0.9  
 1.0s 3.00nm 4.3mb

RES 72.21 12 eP 33 38.50 -0.2  
 1.0s 4.00nm 4.4mb  
 DAG 72.60 353 iPd 33 43.20 2.3  
 1.0s 7.00nm 4.6mb  
 YKA 74.91 26 eP 33 54.20 -0.3  
 0.6s 0.80nm 3.9mb  
 CLL 82.94 326 eP 34 42.00 3.7X  
 GEC2 84.13 324 P 34 44.20 -0.3  
 0.6s 0.25nm 3.5mb

e 34 46.70  
 e 34 50.50  
 GEC2 84.13 324 P 34 44.30 -0.2  
 0.6s 0.26nm 3.6mb

e 34 46.70  
 e 34 50.50  
 FRB 86.12 8 eP 34 54.00 0.0  
 ULM 90.78 28 eP 35 20.50 4.0X  
 S.D. = 1.4 on 36 of 40 obs.

& JAN 17, 1994 15h 24m 05.18s  
 34.370 N 118.615 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.5 (PAS), 3.6 (GS).

FTC 0.55 336 P 24 15.84 -0.3  
 PLEC 0.70 328 P 24 19.05 -0.2  
 ARVC 0.78 347 P 24 19.88 -0.8  
 SSK 0.78 102 eP 24 20.08 -0.7  
 TEJ 0.86 356 P 24 20.57 -1.8  
 MARC 0.87 317 P 24 21.72 -0.8  
 LPC 0.92 278 P 24 22.01 -1.5  
 TMB 1.04 314 P 24 24.84 -1.0  
 WBSM 1.23 18 P 24 27.90 -1.2  
 CRGC 1.26 314 P 24 28.63 -0.9  
 PEC 1.30 111 eP 24 27.66 -2.5  
 WORM 1.36 13 P 24 30.81 -0.4  
 WCHM 1.57 16 P 24 33.38 -1.3  
 NMC 1.58 21 P 24 34.79 0.2  
 TOW 1.60 26 P 24 35.11 0.3  
 VPEN 1.71 22 P 24 36.63 0.2  
 RCWM 1.76 26 P 24 39.02 1.8  
 PLM 1.78 124 eP 24 33.68 -3.9  
 PADM 2.24 305 P 24 40.93 -3.2  
 PAFM 2.73 305 P 24 47.40 -3.7  
 BHPR 2.93 2 P 24 59.04 5.0  
 MTUM 2.98 1 ePn 24 53.99 -0.8  
 TPNV 3.21 36 ePn 24 56.08 -2.0  
 BPRM 3.26 310 P 24 55.06 -3.5  
 MRCM 3.30 1 eP 24 58.78 -0.5  
 MEMM 3.30 356 ePn 24 59.09 0.0  
 SAO 3.32 317 (P) 24 56.14 -3.3  
 JELM 3.65 315 P 25 05.98 1.8  
 TNP 3.87 17 ePg 25 15.62 8.1  
 CMB 3.93 339 ePn 25 07.41 -0.7  
 30 obs. associated

& JAN 17, 1994 15h 42m 12.42s  
 34.313 N 118.420 W  
 DEPTH = 2.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 3.8 (GS).

SSK 0.61 99 eP 42 24.00 -0.6  
 FTC 0.68 325 P 42 25.29 -0.7  
 SNDC 0.83 7 P 42 30.10 1.0  
 ABL 0.85 309 iPd 42 27.84 -1.8  
 TEJ 0.94 346 P 42 28.15 -3.0  
 LPC 1.09 280 P 42 31.59 -2.0  
 PEC 1.13 112 eP 42 32.59 -1.7  
 TMB 1.20 310 P 42 34.43 -1.2  
 WBSM 1.24 11 P 42 35.80 -0.6  
 WORM 1.39 6 P 42 37.88 -0.9  
 WSHM 1.52 30 P 42 39.32 -1.4  
 NMC 1.58 15 P 42 41.91 0.3  
 TOW 1.59 20 P 42 42.68 1.0  
 PLM 1.61 126 ePc 42 39.74 -2.4  
 BCH 1.62 303 eP 42 40.65 -1.6  
 WLHM 1.84 3 P 42 46.36 0.8  
 PHAM 2.22 314 eP 42 50.55 -0.3  
 PAFM 2.89 304 P 42 56.70 -3.8  
 BHPR 2.98 359 P 43 07.38 5.5  
 MTUM 3.04 358 (Pn) 43 01.85 -0.7  
 TPNV 3.17 33 eP 43 02.97 -1.4  
 GLA 3.25 112 ePn 43 03.68 -1.8  
 MMPM 3.33 352 ePn 43 06.06 -0.8  
 MRCM 3.35 359 ePg 43 13.55 6.4



17d 15h

MEMM 3.37 353 ePn 43 05.76 -1.4  
 BONR 3.64 1 ePg 43 19.30 8.1  
 CSR 3.69 317 P 43 15.03 3.4  
 GHS 3.71 319 P 43 08.77 -3.3  
 HSPM 3.76 319 P 43 08.50 -4.3  
 HGWM 3.77 317 P 43 11.07 -1.8  
 JRRM 3.84 316 P 43 11.56 -2.3  
 JJBZM 3.85 316 P 43 13.60 -0.3  
 ADR 3.86 318 P 43 09.89 -4.2  
 TNP 3.88 14 eP 43 13.89 -0.8  
 ARN 3.95 321 eP 43 12.15 -3.2  
 COE 3.95 319 (P) 43 11.34 -4.1  
 CMB 4.04 337 ePn 43 13.67 -3.0  
 KVN 4.74 3 (Pn) 43 26.93 0.2  
 ARUT 5.32 48 ePn 43 33.91 -1.1  
 ORV 5.78 336 (Pn) 43 40.47 -0.9  
 MSU 6.55 48 ePn 43 51.97 -0.5  
 DUG 7.38 36 ePg 44 29.61 25.7  
 SRU 7.94 51 ePn 44 10.92 -1.0  
 43 obs. associated

& JAN 17, 1994 15h 43m 04.62s  
 34.185 N 118.512 W  
 DEPTH = 18.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.2 (GS).

SSK 0.68 88 (P) 43 17.05 -0.7  
 ABL 0.89 319 (P) 43 21.22 -0.1  
 PEC 1.16 104 (P) 43 25.91 0.1  
 PLM 1.61 121 eP 43 31.53 -0.9  
 BCH 1.64 308 (P) 43 32.70 0.0  
 5 obs. associated

JAN 17, 1994 15h 44m 37.81± 0.42s  
 34.259 N ± 4.0km 118.474 W ± 2.8km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.3 (GS).

SSK 0.65 94 ePd 44 50.88 0.0  
 FTC 0.70 331 P 44 51.47 -0.2  
 RYS 0.82 298 P 44 53.93 0.1  
 ABL 0.85 314 eP 44 53.99 -0.4  
 PLEC 0.86 325 P 44 54.77 0.3  
 ARVC 0.91 341 P 44 55.43 0.1  
 TEJ 0.98 350 P 44 55.09 -1.4  
 MARC 1.03 316 P 44 57.29 0.0  
 LPC 1.05 283 P 44 58.06 0.3  
 WJPM 1.15 360 P 44 59.62 0.2  
 PEC 1.15 108 eP 44 59.27 -0.1  
 TMB 1.20 314 P 45 00.54 0.2  
 WOFM 1.29 351 P 45 01.92 0.1  
 WBSM 1.30 12 P 45 02.20 0.1  
 CRGC 1.42 314 P 45 03.73 -0.1  
 WORM 1.45 7 P 45 04.40 0.3  
 WASM 1.48 357 P 45 05.07 0.4  
 WSHM 1.59 30 P 45 06.47 0.4  
 BCH 1.62 305 eP 45 06.64 0.1  
 PLM 1.62 123 eP 45 06.58 -0.1  
 TOW 1.65 20 P 45 09.98 3.0X  
 VPEN 1.77 18 P 45 11.61 2.8X  
 WLHM 1.89 4 P 45 10.96 0.2  
 PHAM 2.23 315 eP 45 14.82 -0.5  
 MTUM 3.09 359 (Pn) 45 28.03 0.3  
 TPNV 3.24 33 ePn 45 29.44 -0.4  
 MMPM 3.37 353 ePg 45 38.58 6.7X  
 MRCM 3.41 360 ePn 45 40.51 8.3X  
 MEMM 3.42 354 ePg 45 39.49 7.3X  
 BONR 3.69 2 ePg 45 45.65 9.2X  
 TNP 3.95 15 ePg 45 52.15 12.2X  
 S.D. = 0.4 on 24 of 31 obs.

& JAN 17, 1994 15h 45m 11.75s  
 34.369 N 118.619 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 3.8 (GS),  
 4.0 (BRK).

FTC 0.55 336 P 45 21.88 -0.9  
 ABL 0.69 314 eP 45 23.95 -1.7  
 SSK 0.78 101 (P) 45 25.00 -2.5  
 PEC 1.30 111 eP 45 33.71 -2.5  
 SCCM 1.40 294 P 45 36.79 -1.1  
 BCH 1.46 304 (P) 45 36.97 -1.7  
 WCHM 1.58 16 P 45 41.77 1.2

PTRM 1.83 315 P 45 42.52 -1.5  
 PMCM 1.97 314 P 45 44.04 -2.0  
 PHAM 2.07 316 eP 45 45.18 -2.2  
 PKEM 2.08 325 eP 45 46.34 -1.3  
 PANM 2.35 308 P 45 48.32 -3.2  
 PRI 2.44 317 iP 45 50.85 -2.0  
 PHCM 2.46 303 P 45 50.18 -2.9  
 BTW 2.71 316 P 45 53.81 -2.8  
 PAPM 2.72 305 P 45 53.22 -3.7  
 FRI 2.76 342 iP 45 54.73 -2.6  
 LRV 2.84 317 P 45 55.84 -2.6  
 BMSM 2.89 323 P 45 57.09 -2.2  
 MTUM 2.98 1 (Pn) 45 58.95 -1.6  
 BAPM 3.06 307 P 45 58.02 -3.7  
 BCWM 3.09 310 P 45 59.25 -2.9  
 CWCR 3.13 5 P 46 08.68 5.9  
 TPNV 3.22 36 ePn 46 02.69 -1.3  
 MMPM 3.25 354 ePg 46 08.95 4.3  
 BPRM 3.25 310 P 46 00.65 -3.7  
 HJSM 3.28 319 P 46 02.14 -2.5  
 BVYM 3.29 317 P 46 01.90 -3.0  
 MRCM 3.30 2 ePg 46 09.72 4.6  
 MEMM 3.30 356 ePg 46 10.46 5.5  
 SAO 3.32 317 eP 46 01.98 -3.3  
 DIL 3.48 316 P 46 03.77 -3.8  
 HCOM 3.56 316 P 46 05.34 -3.2  
 BONR 3.59 4 ePg 46 15.89 6.5  
 COE 3.80 320 eP 46 08.97 -3.2  
 TNP 3.87 17 ePg 46 21.91 8.6  
 CMB 3.93 339 eP 46 12.38 -1.6  
 KVN 4.69 5 ePg 46 34.69 9.7  
 ORV 5.67 337 eP 46 35.77 -2.8  
 39 obs. associated

& JAN 17, 1994 15h 45m 58.08s  
 34.422 N 118.620 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 3.8 (GS).

ABL 0.65 311 eP 46 10.40 -0.8  
 SSK 0.80 105 (P) 46 12.43 -1.6  
 PLM 1.81 126 (P) 46 30.34 0.1  
 TPNV 3.17 37 ePn 46 49.90 0.2  
 MMPM 3.20 354 eP 46 49.04 -1.1  
 MRCM 3.24 2 (Pn) 46 50.38 -0.3  
 MEMM 3.25 356 ePn 46 49.52 -1.0  
 BONR 3.54 4 (Pn) 46 55.40 0.5  
 COE 3.76 320 (P) 46 56.62 -1.3  
 TNP 3.82 17 (Pn) 46 57.74 -1.2  
 ePg 47 09.27  
 10 obs. associated

& JAN 17, 1994 15h 49m 52.91s  
 34.359 N 118.476 W  
 DEPTH = 0.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS).

FTC 0.62 326 P 50 04.46 -0.7  
 RYS 0.78 292 P 50 08.22 -0.2  
 PLEC 0.78 321 P 50 08.07 -0.4  
 BMTG 0.78 353 P 50 07.40 -1.1  
 SNDC 0.80 10 P 50 10.05 1.3  
 ARVC 0.82 339 P 50 08.19 -1.1  
 WJPM 1.05 360 P 50 11.55 -2.1  
 TMB 1.14 310 P 50 14.10 -1.0  
 WOFM 1.19 351 P 50 15.05 -1.0  
 WORM 1.35 8 P 50 18.01 -0.7  
 CRGC 1.35 311 P 50 17.62 -1.2  
 WSHM 1.51 32 P 50 21.18 0.0  
 SCCM 1.51 293 P 50 20.04 -1.3  
 WCHM 1.56 12 P 50 20.52 -1.6  
 TOW 1.56 22 P 50 23.20 1.3  
 VPEN 1.68 19 P 50 24.46 0.8  
 WLHM 1.79 4 P 50 25.18 -0.4  
 PTRM 1.92 313 P 50 30.60 3.4  
 BHPR 2.93 360 P 50 46.88 5.0  
 BPRM 3.35 308 P 50 44.75 -2.9  
 20 obs. associated

& JAN 17, 1994 15h 50m 45.40s  
 34.350 N 118.603 W  
 DEPTH = 11.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS).

FTC 0.57 335 P 50 55.95 -1.0  
 RYS 0.68 296 P 50 58.22 -0.8  
 PLEC 0.73 328 P 50 59.22 -0.4  
 ARVC 0.80 347 P 51 00.74 0.0  
 LPC 0.93 279 P 51 01.99 -1.1  
 TMB 1.06 314 P 51 05.01 -0.4  
 WOFM 1.19 356 P 51 07.65 0.1  
 WBSM 1.24 18 P 51 09.05 0.5  
 WSHM 1.57 35 P 51 13.88 0.6  
 WCHM 1.59 16 P 51 14.89 1.1  
 VPEN 1.72 22 P 51 17.81 2.2  
 WLHM 1.81 7 P 51 19.07 2.0  
 PMGM 1.91 305 P 51 19.46 1.3  
 PAPM 2.75 305 P 51 27.48 -2.8  
 MCSM 3.31 356 P 51 28.76 -9.6  
 15 obs. associated

& JAN 17, 1994 15h 54m 10.75s  
 34.374 N 118.622 W  
 DEPTH = 12.0km  
 4.9mb (15 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.8 (PAS), 4.8 (GS),  
 5.0 (BRK). Felt.

STTC 0.43 18 P 54 19.22 -0.5  
 LRRC 0.51 73 P 54 20.47 -0.8  
 FTC 0.54 336 P 54 20.87 -0.9  
 LJB 0.68 71 P 54 23.13 -0.9  
 ABL 0.69 314 eP 54 23.09 -1.2  
 SSK 0.79 102 eP 54 25.26 -0.7  
 MARC 0.86 317 P 54 26.52 -0.6  
 WOFM 1.16 356 P 54 31.57 -0.8  
 SME 1.19 117 P 54 31.25 -1.5  
 WBSM 1.23 19 P 54 33.09 -0.4  
 PEC 1.30 111 iPd 54 33.11 -1.6  
 SCCM 1.40 294 P 54 34.40 -1.7  
 BCH 1.45 304 eP 54 35.67 -1.2  
 WSCM 1.46 24 P 54 35.80 -1.1  
 WSHM 1.56 36 P 54 36.99 -1.4  
 RMR 1.70 95 P 54 40.27 -0.3  
 PLM 1.78 124 eP 54 39.65 -2.1  
 CSSM 1.79 23 P 54 38.63 -3.1  
 PTRM 1.83 315 P 54 41.63 -0.6  
 PMCM 1.97 314 P 54 43.02 -1.2  
 PHAM 2.06 316 eP 54 44.19 -1.4  
 PKEM 2.08 325 eP 54 45.09 -0.7  
 LAQC 2.08 110 P 54 44.54 -1.3  
 WKR 2.11 313 P 54 45.20 -1.2  
 TPC 2.15 96 P 54 46.18 -0.7  
 PHBM 2.22 328 P 54 49.31 1.4  
 YAQ 2.24 122 P 54 46.88 -1.4  
 PSMM 2.34 317 P 54 48.41 -1.3  
 PANM 2.34 307 P 54 47.34 -2.3  
 BATC 2.49 111 P 54 55.27 3.7  
 GRP 2.53 79 P 54 50.64 -1.7  
 LRC 2.72 314 P 54 52.80 -2.3  
 FRI 2.76 342 P 54 54.04 -1.5  
 BMSM 2.89 323 P 54 55.91 -1.5  
 MTUM 2.97 1 eP 54 58.85 0.1  
 BRMM 3.04 324 P 54 58.18 -1.3  
 EKH 3.09 318 P 55 00.00 -0.2  
 TPNV 3.21 36 eP 55 01.17 -1.0  
 MMPM 3.25 354 ePn 55 03.07 0.3  
 BSLM 3.27 318 P 55 02.00 -0.8  
 MRCM 3.29 2 (Pn) 55 03.50 0.2  
 MEMM 3.30 356 ePn 55 03.28 0.1  
 SAO 3.31 317 eP 55 01.04 -2.4  
 FRP 3.33 316 P 55 01.34 -2.4  
 GLA 3.43 112 ePn 55 02.58 -2.5  
 DIL 3.48 316 P 55 03.51 -2.2  
 HCOM 3.55 316 P 55 04.59 -2.2  
 CBC 3.55 317 P 55 05.84 -1.0  
 BONR 3.58 4 ePn 55 07.80 0.3  
 HGWM 3.61 318 P 55 05.09 -2.5  
 JTGM 3.75 316 P 55 07.32 -2.3  
 ARN 3.79 322 ePn 55 08.01 -2.3  
 COE 3.80 320 ePn 55 08.50 -1.8  
 MHC 3.84 321 ePd 55 08.94 -2.2  
 TNP 3.87 17 eP 55 11.13 -0.4  
 CMB 3.92 339 ePc 55 10.49 -1.6  
 eS 56 00.90  
 JJRM 4.15 317 P 55 13.53 -1.8  
 BGH 4.23 316 P 55 13.89 -2.5  
 JHPM 4.28 317 P 55 14.82 -2.3  
 CSVN 4.43 323 P 55 19.62 0.4  
 CVPM 4.56 321 P 55 19.82 -1.3



17d 15h

BKS 4.56 321 ePd 55 18.64 -2.4  
 DUC 4.56 324 P 55 21.50 0.4  
 HMR 4.56 327 ePn 55 20.03 -1.1  
 KVN 4.69 5 ePn 55 22.94 -0.2  
 SNT 4.90 322 P 55 28.17 2.2  
 APRM 4.95 336 P 55 25.77 -0.9  
 NOLM 4.97 319 P 55 24.84 -2.1  
 NPRM 5.07 317 P 55 23.06 -5.2  
 AVRm 5.11 336 P 55 27.81 -1.0  
 NTYM 5.16 322 ePn 55 27.20 -2.4  
 ARUT 5.40 49 ePn 55 32.77 -0.5  
 GWKM 5.61 327 P 55 34.30 -1.7  
 ORV 5.66 337 eP 55 35.21 -1.5  
 OGOM 5.79 336 P 55 37.77 -0.6  
 LMEM 6.58 340 ePn 55 49.64 -0.3  
 MSU 6.64 50 ePn 55 50.73 0.0  
 TUC 6.87 105 ePn 55 51.67 -2.2  
 WDC 6.93 334 eP 55 52.20 -2.4  
 LGPM 7.33 334 ePn 55 59.53 -0.7  
 LBPM 7.42 341 ePn 56 01.40 -0.3  
 DUG 7.43 37 ePn 56 01.87 0.2  
 KMPM 7.45 326 ePn 56 00.70 -1.2  
 FHC 7.70 328 eP 56 04.65 -0.7  
 SRU 8.04 52 ePn 56 10.22 0.0  
 EMUT 8.27 47 ePn 56 13.72 0.2  
 DAU 8.41 42 ePn 56 16.75 1.2  
 PV09 8.68 59 ePn 56 19.45 0.1  
 PV10 8.70 60 ePn 56 19.31 -0.2  
 HVU 8.71 30 ePn 56 20.30 0.7  
 PV08 9.06 60 ePn 56 24.50 -0.1  
 PTI 9.79 28 ePn 56 35.93 1.5  
 ALQ 10.04 83 ePn 56 36.93 -1.0  
 VGB 11.25 352 ePn 56 54.35 0.0  
 MCMT 11.35 21 eP 56 58.40 2.6  
 GLD 11.97 59 (Pn) 57 04.25 0.0  
 SHW 12.12 348 (Pn) 57 07.30 1.1  
 LRM 12.37 21 eP 57 20.40 10.8  
 LON 12.60 350 ePn 57 12.55 0.0  
 RMW 13.29 351 ePn 57 21.71 0.0  
 DPW 13.49 1 (Pn) 57 23.37 -1.0  
 GMW 13.53 348 ePn 57 23.46 -1.4  
 LTX 13.67 107 ePn 57 25.38 -1.4  
 NEW 13.92 4 (P) 57 29.30 -0.7  
 1.3s 18.76nm 4.7mb  
 RSSD 14.89 45 ePd 57 41.40 -1.6  
 ACO 16.02 76 iPc 58 01.40 3.9  
 MEO 16.51 83 iPc 58 06.30 2.6  
 TUL 18.73 79 iPd 58 31.30 0.0  
 UYO 19.96 84 iPd 58 42.90 -2.7  
 ULM 22.99 39 eP 59 17.50 1.5  
 FVM 23.01 73 (P) 59 16.08 -0.3  
 0.6s 8.05nm 4.4mb  
 PPM 23.42 126 iP 59 23.20 2.1  
 YKA 28.25 4 eP 00 03.70 -1.7  
 0.8s 1.40nm 3.8mb X  
 PMR 33.45 334 (P) 00 50.32 -1.0  
 1.0s 35.64nm 5.3mb  
 GAC 34.53 58 eP 00 58.50 -2.3  
 SVW 35.70 330 eP 01 09.20 -1.5  
 IMA 37.88 338 eP 01 27.82 -1.2  
 1.1s 6.28nm 4.3mb  
 MBC 41.96 360 eP 02 04.00 1.5  
 1.0s 9.00nm 4.5mb  
 FRB 42.32 30 eP 02 05.00 -0.5  
 1.0s 7.00nm 4.3mb  
 DAG 59.05 15 iPd 04 09.90 -2.5  
 0.8s 5.97nm 4.8mb  
 NNA 60.82 132 eP 04 23.80 -1.5  
 1.0s 10.00nm 4.9mb  
 LPAZ 69.59 128 iPc 05 20.10 -2.6  
 LPB 69.79 128 P 05 22.10 -1.5  
 SIV 74.16 122 P 05 46.80 -2.4  
 KAF 79.76 16 eP 06 18.00 -1.7  
 TCF 83.63 37 eP 06 39.60 -0.7  
 SSF 83.72 36 eP 06 40.10 -0.6  
 LOR 83.74 35 eP 06 40.30 -0.5  
 1.1s 16.35nm 5.2mb  
 BGF 83.75 36 eP 06 40.20 -0.7  
 1.1s 25.15nm 5.3mb  
 LFF 83.82 39 eP 06 41.20 0.0  
 AVF 83.84 36 eP 06 40.50 -0.8  
 1.3s 21.30nm 5.2mb  
 MAF 83.85 37 eP 06 40.90 -0.5  
 1.2s 20.55nm 5.2mb  
 RJF 83.97 38 eP 06 41.50 -0.5

LBF 84.00 35 eP 06 41.40 -0.8  
 LPO 84.23 38 eP 06 43.00 -0.3  
 HAU 84.37 34 eP 06 43.40 -0.6  
 CDF 84.49 33 eP 06 43.90 -0.8  
 CAF 84.51 38 eP 06 44.20 -0.6  
 MOX 84.65 29 eP 06 45.20 -0.1  
 1.6s 17.00nm 5.0mb  
 CLL 84.68 28 eP 06 45.00 -0.4  
 BSF 84.70 33 eP 06 44.90 -0.9  
 EPF 84.93 40 eP 06 46.50 -0.4  
 BRG 85.39 28 iP 06 49.40 0.4  
 1.4s 24.00nm 5.2mb  
 1 i 06 53.80  
 GEC2 86.90 29 P 06 54.90 -1.8  
 0.8s 0.82nm 4.0mb  
 e 07 00.20  
 e 07 07.30  
 WRA 114.74 262 PKP 12 51.80 -1.5  
 0.9s 0.50nm  
 SLR 150.19 82 ePKP 14 02.10 3.8  
 1.0s 15.00nm  
 146 obs. associated  
 -----  
 JAN 17, 1994 15h 57m 25.19± 0.66s  
 34.212 N ± 6.1km 118.539 W ± 4.1km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.9 (GS).  
 SSK 0.70 90 eP 57 38.79 -0.4  
 FTC 0.72 336 P 57 38.88 -0.5  
 RYS 0.80 303 P 57 41.40 0.6  
 ABL 0.85 319 eP 57 41.26 -0.5  
 PLEC 0.87 330 P 57 42.20 0.2  
 ARVC 0.94 345 P 57 42.82 -0.3  
 SNDC 0.95 12 P 57 44.50 1.1  
 TEJ 1.02 353 P 57 42.64 -1.9  
 MARC 1.03 320 P 57 44.18 -0.4  
 PEC 1.19 105 eP 57 47.13 -0.3  
 eS 58 03.16  
 TMB 1.20 317 P 57 47.86 0.3  
 WOFS 1.33 354 P 57 49.41 -0.4  
 WBSM 1.36 14 P 57 49.66 -0.7  
 CRGC 1.42 317 P 57 51.68 0.6  
 WORM 1.50 9 P 57 52.38 0.2  
 WASM 1.52 359 P 57 52.09 -0.6  
 SCCM 1.53 299 P 57 53.75 1.1  
 BCH 1.60 308 eP 57 53.86 0.2  
 PLM 1.64 121 eP 57 54.20 -0.1  
 WSHM 1.66 31 P 57 54.52 0.0  
 WCHM 1.71 13 P 57 54.50 -1.0  
 VPEN 1.83 19 P 57 59.00 1.9  
 WLHM 1.94 5 P 58 00.90 2.0  
 PHAM 2.23 317 eP 58 01.55 -1.1  
 PAPM 2.87 307 P 58 11.57 -0.3  
 MTUM 3.13 360 (P) 58 16.53 0.8  
 GLA 3.31 109 (P) 58 21.11 3.0X  
 TPNV 3.31 34 ePn 58 18.31 0.1  
 CLKR 3.38 356 P 58 27.52 8.2X  
 MMPM 3.41 353 eP 58 19.47 -0.4  
 S.D. = 0.9 on 28 of 30 obs.  
 -----  
 \* JAN 17, 1994 15h 59m 47.33± 0.78s  
 26.366 S ± 7.2km 27.504 E ± 7.7km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.4 (PRE).  
 PRY 0.56 183 eP 00 00.20 1.6  
 KSR 0.74 312 eP 00 02.50 0.4  
 S 00 12.50  
 SLR 0.94 48 eP 00 05.50 -0.3  
 S 00 17.00  
 SEK 1.95 177 eP 00 19.10 -2.5  
 S 00 42.10  
 SWZ 2.11 247 eP 00 23.90 0.0  
 S 00 44.60  
 BFT 2.38 74 eP 00 28.00 0.1  
 S 00 56.00  
 NWL 2.57 122 eP 00 31.30 0.9  
 S 00 58.30  
 BLF 2.97 203 eP 00 36.00 -0.2  
 S 01 11.00  
 S.D. = 1.4 on 8 of 8 obs.  
 -----  
 \* JAN 17, 1994 16h 08m 32.16± 1.12s  
 34.298 N ± 27.9km 118.531 W ± 16.4km

DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.1 (GS).  
 SSK 0.70 97 eP 08 46.30 0.2  
 ABL 0.79 314 eP 08 47.36 -0.4  
 PEC 1.21 109 eP 08 54.58 -0.1  
 eS 09 11.02  
 BCH 1.56 305 eP 09 00.40 0.4  
 PLM 1.68 124 eP 09 01.77 -0.1  
 BONR 3.65 3 ePg 09 39.81 9.6X  
 S.D. = 0.4 on 5 of 6 obs.  
 -----  
 \* JAN 17, 1994 16h 16m 01.64s  
 34.290 N 118.479 W  
 DEPTH = 1.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 3.6 (GS).  
 SSK 0.66 97 eP 16 14.07 -0.7  
 FTC 0.67 330 P 16 14.42 -0.6  
 ABL 0.83 313 eP 16 16.76 -1.4  
 PLEC 0.83 325 P 16 17.62 -0.7  
 ARVC 0.88 341 P 16 18.20 -1.1  
 TEJ 0.95 350 P 16 18.12 -2.5  
 LPC 1.04 282 P 16 20.44 -1.7  
 WJPM 1.12 360 P 16 22.39 -1.1  
 PEC 1.16 110 eP 16 22.34 -1.8  
 WOFS 1.26 351 P 16 24.92 -0.9  
 CRGC 1.40 313 P 16 26.52 -1.7  
 WORM 1.42 8 P 16 27.06 -1.4  
 WASM 1.45 357 P 16 27.84 -1.2  
 SCCM 1.54 295 P 16 28.77 -1.5  
 BCH 1.60 304 eP 16 29.28 -1.8  
 WCHM 1.62 12 P 16 29.86 -1.8  
 PLM 1.64 124 eP 16 29.38 -2.4  
 VPEN 1.74 18 P 16 35.22 2.0  
 RCWM 1.79 22 P 16 35.36 1.4  
 WLHM 1.86 4 P 16 33.84 -1.3  
 PHAM 2.20 315 eP 16 37.15 -2.7  
 PKEM 2.22 323 eP 16 36.79 -3.2  
 PTV 2.58 315 P 16 42.88 -2.3  
 PAPM 2.86 305 P 16 45.56 -3.8  
 BHPR 3.00 360 P 16 57.18 5.8  
 MTUM 3.06 359 eP 16 51.26 -0.9  
 TPNV 3.22 34 ePn 16 52.46 -1.9  
 GLA 3.29 111 ePn 16 54.95 -0.3  
 MMPM 3.34 353 ePn 16 55.63 -0.7  
 MRCM 3.37 360 ePg 17 02.90 6.2  
 MEMM 3.39 354 ePn 16 56.15 -0.5  
 BPRM 3.39 309 P 16 52.95 -3.9  
 SAO 3.46 316 eP 16 53.85 -3.8  
 DIL 3.62 315 P 16 56.91 -3.0  
 BONR 3.66 2 eP 16 59.97 -0.8  
 TNP 3.92 15 ePn 17 03.22 -1.2  
 ARN 3.93 322 ePn 17 02.41 -2.1  
 CMB 4.04 338 ePn 17 04.67 -1.3  
 KVN 4.76 4 (Pn) 17 15.60 -0.8  
 ARUT 5.37 48 ePn 17 24.55 -0.4  
 MSU 6.60 49 ePn 17 41.93 -0.5  
 SRU 8.00 51 ePn 18 02.69 0.8  
 PV10 8.64 59 (Pn) 18 11.51 0.6  
 43 obs. associated  
 -----  
 \* JAN 17, 1994 16h 19m 24.09s  
 34.347 N 118.449 W  
 DEPTH = 0.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.6 (PAS), 3.5 (GS).  
 BMTC 0.80 351 P 19 38.88 -1.1  
 RYS 0.80 292 P 19 39.99 -0.1  
 PLEC 0.80 321 P 19 40.04 -0.1  
 ABL 0.81 309 ePd 19 39.17 -1.1  
 ARVC 0.84 338 P 19 40.34 -0.5  
 TEJ 0.90 347 P 19 39.43 -2.7  
 MARC 0.98 312 P 19 42.52 -1.1  
 LPC 1.06 278 P 19 43.70 -1.2  
 TMB 1.16 310 P 19 45.84 -0.8  
 CRGC 1.38 311 P 19 49.59 -0.8  
 SCCM 1.54 293 P 19 51.95 -0.9  
 BCH 1.58 302 eP 19 52.13 -1.4  
 PLM 1.65 126 eP 19 53.10 -1.4  
 PHAM 2.18 313 eP 20 00.87 -1.2  
 WKR 2.24 311 P 20 03.10 0.2  
 PAPM 2.85 304 P 20 08.85 -2.9  
 BMSM 3.00 321 P 20 13.63 -0.1



17d 16h

MTUM 3.00 358 (Pn) 20 14.31 0.4  
 TPNV 3.15 34 eP 20 15.11 -0.9  
 GLA 3.28 112 eP 20 22.24 4.4  
 MMPM 3.29 352 eP 20 17.66 -0.5  
 MRCM 3.32 359 (Pn) 20 20.72 2.3  
 MEMM 3.34 353 eP 20 18.54 0.1  
 BPRM 3.38 308 P 20 16.22 -2.9  
 BONR 3.60 2 (Pn) 20 23.18 0.6  
 TNP 3.86 15 (Pn) 20 27.27 1.1  
 ARN 3.90 321 eP 20 25.86 -0.8  
 KVN 4.70 3 (Pn) 20 40.78 2.7  
 ARUT 5.31 48 eP 20 47.15 0.4  
 29 obs. associated

& JAN 17, 1994 16h 21m 05.43s  
 34.398 N 118.600 W  
 DEPTH = 13.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

FTC 0.53 333 P 21 15.46 -0.7  
 RYS 0.67 292 P 21 18.02 -0.5  
 ABL 0.68 312 eP 21 17.55 -1.3  
 PLEC 0.69 326 P 21 19.13 0.3  
 MARC 0.86 315 P 21 21.31 -0.3  
 LPC 0.93 276 P 21 21.12 -1.8  
 TMB 1.03 312 P 21 24.38 -0.3  
 CRGC 1.25 313 P 21 27.94 -0.6  
 SCCM 1.40 293 P 21 29.75 -0.9  
 BCH 1.45 303 eP 21 30.85 -0.6  
 PLM 1.78 125 (P) 21 36.76 0.5  
 TPNV 3.18 36 (Pn) 21 57.59 1.3  
 12 obs. associated

& JAN 17, 1994 16h 22m 47.18s  
 34.329 N 118.433 W  
 DEPTH = 1.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.5 (GS).

RYS 0.82 293 P 23 01.90 -1.7  
 PLEC 0.83 321 P 23 03.49 -0.2  
 LPC 1.07 279 P 23 06.34 -1.9  
 TMB 1.18 310 P 23 08.81 -1.3  
 WOVM 1.23 349 P 23 10.13 -0.8  
 WBSM 1.23 11 P 23 10.59 -0.4  
 WORM 1.37 7 P 23 12.64 -0.8  
 WASM 1.41 356 P 23 13.81 -0.3  
 SCCM 1.56 294 P 23 15.11 -1.0  
 NMC 1.57 16 P 23 16.43 0.1  
 BCH 1.61 303 eP 23 14.86 -2.0  
 PLM 1.63 126 eP 23 14.79 -2.5  
 RCWM 1.74 21 P 23 19.43 0.6  
 WLHM 1.82 3 P 23 21.00 0.8  
 PHBM 2.34 325 P 23 28.88 1.4  
 PAPM 2.87 304 P 23 31.12 -4.0  
 BHPR 2.96 359 P 23 41.86 5.3  
 TPNV 3.16 34 ePn 23 37.89 -1.3  
 ORC 3.30 357 P 23 45.63 4.3  
 MMPM 3.31 352 ePg 23 46.12 4.6  
 MRCM 3.34 359 ePg 23 48.19 6.4  
 MEMM 3.36 353 ePg 23 47.09 5.3  
 BPRM 3.40 309 P 23 39.86 -2.7  
 BONR 3.62 2 ePn 23 46.05 0.2  
 TNP 3.87 14 ePg 23 58.91 9.5  
 ARUT 5.32 48 ePn 24 07.31 -2.5  
 26 obs. associated

& JAN 17, 1994 16h 26m 03.38s  
 34.288 N 118.483 W  
 DEPTH = 2.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS).

SSK 0.66 97 ePd 26 15.75 -0.8  
 es 26 24.31  
 FTC 0.67 330 P 26 16.17 -0.6  
 RYS 0.80 297 P 26 18.59 -0.8  
 ARVC 0.88 341 P 26 20.70 -0.3  
 TEJ 0.95 350 P 26 19.85 -2.4  
 MARC 1.00 316 P 26 22.01 -1.1  
 LPC 1.04 282 P 26 22.23 -1.5  
 WJPM 1.12 0 P 26 24.17 -1.0  
 TMB 1.18 313 P 26 25.23 -0.9  
 WOVM 1.26 351 P 26 26.64 -0.9  
 WBSM 1.28 13 P 26 26.88 -1.0  
 CRGC 1.40 313 P 26 29.00 -0.9

WSHM 1.57 31 P 26 32.88 0.6  
 NMC 1.62 17 P 26 34.56 1.5  
 TOW 1.63 21 P 26 34.45 1.3  
 VPBM 1.75 18 P 26 36.61 1.7  
 RCWM 1.79 22 P 26 37.41 1.8  
 WLHM 1.87 4 P 26 38.02 1.2  
 18 obs. associated

JAN 17, 1994 16h 27m 03.85s 0.89s  
 34.168 N ± 8.5km 118.631 W ± 5.0km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.5 (GS). Double event.

FTC 0.73 343 P 27 17.80 -0.5  
 SSK 0.78 87 eP 27 17.45 -1.7  
 PLEC 0.88 336 P 27 21.09 0.3  
 ARVC 0.97 350 P 27 21.96 -0.3  
 SNDC 1.01 15 P 27 23.48 0.4  
 MARC 1.02 325 P 27 23.52 0.4  
 TMB 1.18 321 P 27 26.70 0.7  
 WOVM 1.37 357 P 27 28.56 -0.5  
 WBSM 1.42 16 P 27 30.60 0.6  
 SCCM 1.49 302 P 27 31.94 1.3  
 WORM 1.56 12 P 27 32.93 1.2  
 BCH 1.57 311 eP 27 32.54 0.6  
 WCHM 1.77 15 P 27 34.66 -0.3  
 VPBM 1.90 20 P 27 39.59 2.9X  
 PMCM 2.11 318 P 27 39.97 0.3  
 PAPM 2.84 309 P 27 49.09 -1.0  
 BHPR 3.13 2 P 28 00.58 6.3X  
 BPOM 3.29 310 P 27 55.20 -1.3  
 GLA 3.36 108 (Pn) 27 58.94 1.4  
 TPNV 3.39 34 (Pn) 27 57.80 -0.2  
 DIL 3.62 318 P 27 59.97 -1.2  
 JBZM 3.83 319 P 28 03.76 -0.4  
 S.D. = 0.9 on 20 of 22 obs.

& JAN 17, 1994 16h 31m 34.63s  
 34.431 N 118.586 W  
 DEPTH = 1.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.3 (GS).

FTC 0.51 330 P 31 44.36 -0.4  
 RYS 0.67 289 P 31 47.77 -0.2  
 PLEC 0.67 324 P 31 47.74 -0.2  
 BMTC 0.70 359 P 31 47.72 -0.9  
 ARVC 0.72 344 P 31 48.20 -0.9  
 SNDC 0.75 18 P 31 49.66 0.1  
 TEJ 0.80 354 P 31 48.77 -1.9  
 MARC 0.84 313 P 31 50.52 -0.9  
 LPC 0.93 274 P 31 52.27 -1.0  
 TMB 1.02 310 P 31 53.50 -1.3  
 WOVM 1.11 355 P 31 54.95 -1.4  
 WBSM 1.16 18 P 31 56.18 -1.2  
 CRGC 1.24 311 P 31 57.22 -1.3  
 SCCM 1.40 292 P 32 01.91 0.6  
 WSHM 1.50 37 P 32 02.36 -0.4  
 WCHM 1.51 16 P 32 02.28 -0.8  
 WLHM 1.73 7 P 32 07.63 1.3  
 PTRM 1.81 313 P 32 06.03 -1.2  
 TPNV 3.15 36 (Pn) 32 27.23 0.7  
 19 obs. associated

& JAN 17, 1994 16h 40m 59.07s  
 34.329 N 118.461 W  
 DEPTH = 1.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 2.8 (GS).

SSK 0.65 100 eP 41 11.50 -0.5  
 ABL 0.81 310 eP 41 15.00 -0.3  
 PEC 1.16 112 eP 41 16.98 -4.6  
 es 41 35.16  
 BCH 1.59 303 eP 41 27.85 -0.6  
 PLM 1.65 126 (P) 41 32.47 3.1  
 GSC 1.67 54 (P) 41 28.91 -0.7  
 TPNV 3.17 34 ePg 41 59.04 7.8  
 7 obs. associated

& JAN 17, 1994 16h 42m 00.91s  
 34.286 N 118.535 W  
 DEPTH = 1.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 2.7 (GS).

FTC 0.65 333 P 42 13.56 -0.4  
 SSK 0.70 96 eP 42 13.92 -1.0  
 es 42 23.65  
 RYS 0.76 298 P 42 16.02 -0.1  
 ABL 0.80 315 eP 42 15.78 -1.1  
 PLEC 0.81 327 P 42 16.86 -0.2  
 BMTC 0.85 357 P 42 16.57 -1.3  
 ARVC 0.87 344 P 42 17.40 -1.0  
 TEJ 0.95 352 P 42 16.29 -3.5  
 MARC 0.98 317 P 42 19.42 -0.8  
 WJPM 1.12 2 P 42 21.71 -1.1  
 TMB 1.15 314 P 42 22.64 -0.6  
 PEC 1.21 109 eP 42 22.29 -1.9  
 es 42 38.32  
 WOVM 1.26 353 P 42 24.17 -0.9  
 WBSM 1.29 14 P 42 24.88 -0.9  
 CRGC 1.37 315 P 42 26.34 -0.7  
 BCH 1.56 306 eP 42 29.20 -0.7  
 WSHM 1.59 32 P 42 28.80 -1.5  
 TOW 1.65 22 P 42 32.14 1.1  
 PLM 1.68 123 (P) 42 31.71 0.1  
 GSC 1.75 54 (P) 42 32.29 -0.3  
 WLHM 1.87 6 P 42 35.45 0.9  
 MTUM 3.06 360 ePg 42 57.06 5.6  
 TPNV 3.24 34 ePn 42 51.23 -2.8  
 23 obs. associated

& JAN 17, 1994 16h 43m 00.23s  
 34.327 N 118.460 W  
 DEPTH = 2.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 2.7 (GS).

SSK 0.65 100 (P) 43 12.74 -0.4  
 ABL 0.82 310 eP 43 15.56 -1.0  
 PEC 1.16 112 eP 43 19.51 -3.1  
 BCH 1.59 303 eP 43 29.82 0.4  
 PLM 1.65 126 (P) 43 28.37 -2.0  
 GSC 1.67 54 eP 43 30.07 -0.6  
 es 43 55.04  
 TPNV 3.18 34 ePg 44 00.25 8.0  
 7 obs. associated

& JAN 17, 1994 16h 44m 15.43s  
 34.329 N 118.452 W  
 DEPTH = 0.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).

SSK 0.64 100 eP 44 27.64 -0.6  
 es 44 39.43  
 FTC 0.65 326 P 44 27.79 -0.6  
 RYS 0.81 293 P 44 31.05 -0.5  
 BMTC 0.81 352 P 44 30.69 -1.0  
 PLEC 0.82 322 P 44 31.75 0.0  
 ABL 0.82 310 eP 44 30.54 -1.3  
 SNDC 0.82 9 P 44 32.95 1.1  
 ARVC 0.85 339 P 44 31.51 -1.0  
 TEJ 0.92 348 P 44 31.17 -2.6  
 MARC 0.99 313 P 44 34.06 -1.1  
 PEC 1.16 112 eP 44 36.21 -1.8  
 TMB 1.17 311 P 44 37.24 -1.0  
 WOVM 1.22 350 P 44 38.60 -0.6  
 WBSM 1.23 12 P 44 38.47 -0.9  
 WORM 1.38 7 P 44 41.88 0.1  
 CRGC 1.39 311 P 44 40.93 -1.0  
 BCH 1.59 303 eP 44 44.73 -0.3  
 PLM 1.64 126 eP 44 43.50 -2.3  
 GSC 1.67 54 eP 44 46.55 0.5  
 VPBM 1.70 18 P 44 47.70 1.1  
 WLHM 1.82 4 P 44 49.22 0.7  
 TPNV 3.17 34 (Pn) 45 09.01 1.4  
 BONR 3.62 2 ePg 45 21.86 7.7  
 ARUT 5.33 48 (Pn) 45 39.62 1.3  
 24 obs. associated

& JAN 17, 1994 16h 45m 45.01s  
 34.276 N 118.471 W  
 DEPTH = 3.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.3 (GS).

SSK 0.65 96 eP 45 57.17 -0.8  
 FTC 0.69 330 P 45 57.84 -0.9  
 RYS 0.81 297 P 46 00.14 -1.1  
 ABL 0.84 313 ePc 46 00.14 -1.7  
 es 46 12.90



PLEC 0.85 325 P 46 01.03 -0.9  
 BMTC 0.86 353 P 46 00.92 -1.4  
 ARVC 0.90 341 P 46 01.85 -1.0  
 TEJ 0.97 349 P 46 01.43 -2.6  
 MARC 1.02 316 P 46 03.56 -1.4  
 LPC 1.05 282 P 46 03.73 -1.8  
 WJPM 1.13 360 P 46 06.86 -0.1  
 PEC 1.15 109 eP 46 05.52 -1.7  
 TMB 1.19 313 P 46 06.82 -1.1  
 WOFG 1.27 351 P 46 08.35 -1.0  
 CRGC 1.41 313 P 46 09.88 -1.8  
 WSHM 1.57 30 P 46 12.27 -1.7  
 BCH 1.61 305 eP 46 11.99 -2.5  
 PLM 1.63 124 eP 46 12.12 -2.7  
 NMC 1.63 16 P 46 15.02 0.3  
 TOW 1.64 21 P 46 15.72 0.9  
 WCHM 1.64 11 P 46 16.29 1.3  
 GSC 1.71 53 eP 46 14.44 -1.5  
 VPWM 1.75 18 P 46 17.55 0.9  
 RCWM 1.80 22 P 46 18.11 0.9  
 WLHM 1.88 4 P 46 20.61 2.1  
 TPNV 3.22 34 (Pn) 46 26.80 -0.8  
 eS 47 28.66  
 BONR 3.67 2 ePg 46 51.99 7.8  
 27 obs. associated

& JAN 17, 1994 16h 49m 15.64s  
 34.324 N 118.433 W  
 DEPTH = 0.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.4 (GS).

LEOC 0.32 19 P 49 22.13 0.0  
 GVRC 0.38 136 P 49 23.13 0.0  
 LRRC 0.39 59 P 49 23.54 0.1  
 FOXC 0.44 22 P 49 24.57 0.1  
 QAL 0.48 331 P 49 25.01 -0.3  
 PEM 0.49 108 P 49 25.20 -0.3  
 LJB 0.55 61 P 49 26.17 -0.5  
 TPO 0.58 17 P 49 26.81 -0.4  
 PCF 0.60 117 P 49 26.79 -0.8  
 THC 0.61 342 P 49 27.62 -0.3  
 DBM 0.66 5 P 49 28.32 -0.4  
 FTC 0.66 325 P 49 28.56 -0.3  
 ELMC 0.69 73 P 49 28.79 -0.5  
 SS2 0.78 98 P 49 30.44 -0.8  
 GAV 0.82 111 P 49 30.98 -1.0  
 BMTC 0.82 351 P 49 26.67 -5.4  
 RYS 0.82 293 P 49 30.90 -1.2  
 SNDC 0.82 7 P 49 34.04 1.9  
 PLEC 0.83 321 P 49 32.06 -0.1  
 ABL 0.84 309 eP 49 30.95 -1.4  
 ARVC 0.87 338 P 49 32.18 -0.7  
 ADL 0.87 74 P 49 32.52 -0.5  
 CALC 0.87 27 P 49 30.45 -2.7  
 CSP 0.89 91 P 49 31.63 -1.8  
 HYS 0.89 53 P 49 32.38 -1.1  
 TEJ 0.93 347 P 49 31.39 -2.8  
 MARC 1.01 312 P 49 31.84 -3.8  
 LPC 1.07 280 P 49 32.58 -4.2  
 WJPM 1.08 358 P 49 36.06 -1.0  
 PEC 1.14 112 eP 49 36.08 -1.8  
 TMB 1.18 310 P 49 37.77 -0.9  
 WOFG 1.23 349 P 49 38.40 -1.1  
 WBSM 1.23 11 P 49 38.88 -0.8  
 WORM 1.38 6 P 49 41.59 -0.4  
 CRGC 1.40 311 P 49 41.20 -1.2  
 WASM 1.41 356 P 49 42.38 -0.3  
 WSHM 1.52 30 P 49 42.97 -1.2  
 SCCM 1.56 294 P 49 41.43 -3.3  
 NMC 1.58 16 P 49 45.30 0.3  
 TOW 1.58 20 P 49 45.47 0.5  
 WCHM 1.58 11 P 49 43.77 -1.5  
 BCH 1.61 303 eP 49 43.36 -2.1  
 PLM 1.63 126 eP 49 43.66 -2.2  
 VPWM 1.70 17 P 49 46.38 -0.4  
 RCWM 1.75 21 P 49 48.47 1.0  
 WLHM 1.83 3 P 49 48.24 -0.6  
 PHAM 2.21 314 (P) 49 51.70 -2.4  
 MTUM 3.02 358 ePg 50 11.18 5.3  
 TPNV 3.17 34 ePn 50 08.22 0.4  
 MRCM 3.34 359 ePg 50 16.81 6.4  
 eS 51 01.27  
 MEMM 3.36 353 (Pn) 50 10.42 0.0  
 TNP 3.88 14 ePg 50 27.74 9.7  
 CMB 4.03 337 ePg 50 28.83 8.9  
 ARUT 5.32 48 (Pn) 50 38.86 0.4

DUG 7.38 36 ePg 51 33.09 25.8  
 55 obs. associated

? JAN 17, 1994 16h 57m 44.48± 5.52s  
 34.300 N ±16.9km 118.600 W ±43.2km  
 DEPTH = 10.0km (geophysicist)

SOUTHERN CALIFORNIA (43)  
 ML 2.8 (GS).

SSK 0.76 97 eP 57 59.55 0.1  
 eS 58 11.29  
 PEC 1.26 108 eP 58 07.79 -0.2  
 eS 58 24.45  
 PLM 1.73 123 eP 58 14.97 0.1  
 GSC 1.78 55 eP 58 15.61 0.0  
 MTUM 3.05 1 ePg 58 41.50 7.7X  
 MMPM 3.32 354 ePg 58 45.92 8.1X  
 BONR 3.66 4 ePg 58 53.19 10.6X  
 S.D. = 0.2 on 4 of 7 obs.

& JAN 17, 1994 17h 04m 13.37s  
 34.335 N 118.435 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.0 (GS).

ABL 0.83 309 eP 04 28.58 -1.3  
 PEC 1.15 112 eP 04 33.06 -2.7  
 eS 04 49.63  
 BCH 1.60 302 (P) 04 40.86 -2.3  
 PLM 1.63 126 eP 04 40.34 -3.3  
 PHAM 2.20 313 (P) 04 48.42 -3.3  
 MTUM 3.01 358 (Pn) 05 00.45 -3.0  
 TPNV 3.16 34 (Pn) 05 04.15 -1.3  
 MMPM 3.30 352 (Pn) 05 05.80 -1.9  
 MEMM 3.35 353 (Pn) 05 05.07 -2.9  
 BONR 3.61 2 (P) 05 07.98 -4.1  
 10 obs. associated

& JAN 17, 1994 17h 09m 17.47s  
 34.361 N 118.629 W  
 DEPTH = 0.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.2 (GS).  
 Multiple event.

FTC 0.55 337 P 09 27.96 -0.5  
 RYS 0.66 295 P 09 30.34 -0.3  
 ABL 0.69 315 eP 09 29.93 -1.3  
 PLEC 0.71 329 P 09 31.86 0.3  
 BMTC 0.77 2 P 09 31.88 -1.0  
 ARVC 0.78 348 P 09 32.68 -0.4  
 SSK 0.79 101 eP 09 33.07 -0.2  
 MARC 0.87 318 P 09 33.95 -0.8  
 TEJ 0.87 357 P 09 32.95 -1.9  
 WJPM 1.05 7 P 09 37.50 -0.8  
 WOFG 1.17 357 P 09 39.14 -1.2  
 WBSM 1.24 19 P 09 41.45 -0.1  
 CRGC 1.26 315 P 09 40.45 -1.4  
 BCH 1.45 305 eP 09 42.84 -2.2  
 WSHM 1.58 36 P 09 45.15 -1.6  
 RCWM 1.78 27 P 09 50.88 1.2  
 PLM 1.78 124 eP 09 51.52 1.6  
 TPNV 3.23 36 ePg 10 18.59 8.1  
 MEMM 3.31 356 ePg 10 18.85 7.4  
 BONR 3.60 4 ePg 10 23.47 7.6  
 TNP 3.88 17 ePg 10 29.43 9.5  
 21 obs. associated

\* JAN 17, 1994 17h 15m 10.72± 1.27s  
 34.321 N ±15.2km 118.564 W ± 8.3km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.9 (GS).

ABL 0.76 314 eP 15 25.58 -0.1  
 PEC 1.24 110 eP 15 33.81 0.0  
 eS 15 50.92  
 BCH 1.52 305 eP 15 38.14 0.1  
 GSC 1.75 55 eP 15 41.27 -0.1  
 TPNV 3.23 35 ePn 16 02.69 0.1  
 S.D. = 0.1 on 5 of 5 obs.

& JAN 17, 1994 17h 18m 08.90s  
 34.365 N 118.631 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)

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

FTC 0.55 337 P 18 18.92 -1.0  
 RYS 0.66 295 P 18 21.17 -0.9  
 ABL 0.69 315 eP 18 20.96 -1.7  
 PLEC 0.70 329 P 18 22.22 -0.7  
 BMTC 0.77 2 P 18 22.73 -1.6  
 ARVC 0.78 348 P 18 23.25 -1.1  
 SNDC 0.82 19 P 18 24.95 -0.3  
 MARC 0.86 318 P 18 24.96 -0.9  
 TEJ 0.86 357 P 18 24.07 -1.9  
 LPC 0.90 279 P 18 25.43 -1.2  
 TMB 1.04 314 P 18 27.85 -1.1  
 WOFG 1.17 357 P 18 30.04 -1.2  
 WBSM 1.24 19 P 18 31.42 -1.0  
 CRGC 1.25 315 P 18 31.32 -1.3  
 PEC 1.31 111 eP 18 31.36 -2.1  
 WORM 1.37 13 P 18 34.38 -0.1  
 SCCM 1.39 295 P 18 33.02 -1.9  
 BCH 1.45 305 eP 18 33.66 -2.1  
 eS 18 54.01  
 WSHM 1.57 36 P 18 32.60 -4.9  
 TOW 1.61 26 P 18 39.52 1.6  
 VPWM 1.72 23 P 18 41.20 1.6  
 GSC 1.77 58 eP 18 36.25 -4.1  
 RCWM 1.78 27 P 18 41.84 1.4  
 WLHM 1.80 8 P 18 42.61 1.6  
 PHAM 2.06 316 eP 18 42.00 -2.5  
 MTUM 2.98 1 eP 18 58.21 0.4  
 TPNV 3.23 36 ePn 18 59.47 -1.8  
 MMPM 3.25 354 (Pn) 19 00.55 -1.2  
 MEMM 3.30 356 ePn 19 01.14 -1.0  
 TNP 3.88 17 ePn 19 08.44 -2.2  
 ePg 19 19.95  
 30 obs. associated

& JAN 17, 1994 17h 21m 54.53s  
 34.318 N 118.419 W  
 DEPTH = 0.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.5 (PAS), 3.7 (GS).

SSK 0.61 100 eP 22 06.23 -0.5  
 FTC 0.68 325 P 22 07.57 -0.4  
 ABL 0.85 309 eP 22 10.00 -1.5  
 MARC 1.02 312 P 22 13.46 -1.3  
 LPC 1.09 280 P 22 14.35 -1.6  
 PEC 1.13 112 iPc 22 14.71 -1.9  
 TMB 1.20 310 P 22 16.53 -1.3  
 WBSM 1.24 11 P 22 18.11 -0.5  
 SCCM 1.57 294 P 22 22.35 -1.4  
 NMC 1.58 15 P 22 23.53 -0.4  
 TOW 1.58 20 P 22 22.75 -1.1  
 PLM 1.61 126 (P) 22 23.47 -1.0  
 BCH 1.62 303 eP 22 22.76 -1.8  
 VPWM 1.70 17 P 22 26.44 0.7  
 WLHM 1.83 3 P 22 28.03 0.3  
 PHAM 2.22 314 eP 22 30.40 -2.7  
 LRC 2.88 313 P 22 39.45 -3.1  
 PAMP 2.89 304 P 22 39.10 -3.7  
 BHPR 2.98 359 P 22 49.75 5.7  
 MTUM 3.03 358 ePn 22 44.15 -0.7  
 TPNV 3.16 33 ePn 22 45.26 -1.4  
 GLA 3.25 112 ePn 22 45.54 -2.3  
 CLKR 3.28 354 P 22 55.40 6.9  
 MMPM 3.32 352 ePg 22 54.30 5.2  
 MRCM 3.35 359 ePg 22 55.40 6.0  
 eS 23 41.08  
 MCSM 3.35 353 P 22 56.29 6.8  
 MEMM 3.37 353 ePn 22 47.00 -2.4  
 ePg 22 56.14  
 BPRM 3.42 309 P 22 46.64 -3.5  
 BONR 3.63 1 ePg 23 00.47 7.0  
 TNP 3.88 14 (Pn) 22 55.55 -1.4  
 ARN 3.94 321 eP 22 55.75 -1.9  
 CMB 4.04 337 (P) 22 56.53 -2.4  
 KVN 4.73 3 ePg 23 21.88 12.9  
 ARUT 5.32 48 ePn 23 16.65 -0.6  
 34 obs. associated

& JAN 17, 1994 17h 24m 17.68s  
 34.376 N 118.624 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).  
 FTC 0.54 336 P 24 27.55 -1.0



17d 17h

RYS	0.66	294 P	24	29.82	-1.1
ABL	0.68	314 eP	24	29.58	-1.8
PLEC	0.70	328 P	24	31.40	-0.2
BMTC	0.76	2 P	24	31.20	-1.7
ARVC	0.77	347 P	24	31.65	-1.4
SSK	0.79	102 eP	24	32.37	-1.1
SNDC	0.81	19 P	24	33.60	-0.3
TEJ	0.85	356 P	24	32.64	-1.9
MARC	0.86	317 P	24	33.58	-1.0
LPC	0.91	278 P	24	34.09	-1.4
WOFM	1.16	356 P	24	38.90	-0.9
WBSM	1.22	19 P	24	40.32	-0.7
CRGC	1.25	314 P	24	40.09	-1.3
PEC	1.31	111 eP	24	39.83	-2.4
SCCM	1.40	294 P	24	42.27	-1.4
BCH	1.45	304 eP	24	42.46	-2.1
WSHM	1.56	36 P	24	45.40	-0.7
PLM	1.79	124 (P)	24	47.79	-1.7
WLHM	1.79	8 P	24	51.30	1.7

20 obs. associated

& JAN 17, 1994 17h 27m 53.10s  
34.275 N 118.465 W  
DEPTH = 2.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS).

ABL	0.85	313 eP	28	08.29	-1.7
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1 obs. associated

& JAN 17, 1994 17h 29m 59.66s  
34.344 N 118.447 W  
DEPTH = 0.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).

ABL	0.81	309 eP	30	14.17	-1.8
PEC	1.16	113 eP	30	20.12	-2.2
		eS	30	36.78	
BCH	1.59	302 eP	30	27.35	-1.9

3 obs. associated

& JAN 17, 1994 17h 35m 29.13s  
34.387 N 118.625 W  
DEPTH = 0.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS).

ABL	0.67	313 eP	35	41.28	-1.3
SSK	0.79	103 eP	35	44.20	-0.7
GSC	1.75	58 (P)	35	59.40	-1.6
PLM	1.79	125 (P)	35	59.15	-2.6
MTUM	2.96	1 (Pn)	36	16.87	-1.6
MMPM	3.23	354 (Pn)	36	19.71	-2.7

6 obs. associated

& JAN 17, 1994 17h 38m 55.77s  
34.267 N 118.469 W  
DEPTH = 3.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).

SSK	0.65	95 eP	39	07.71	-1.0
PEC	1.15	109 eP	39	15.79	-2.1
		eS	39	30.94	
PLM	1.62	124 eP	39	24.19	-1.3
		eS	39	42.67	
MTUM	3.08	359 (Pn)	39	45.77	-0.6

4 obs. associated

& JAN 17, 1994 17h 42m 08.23s  
34.427 N 118.548 W  
DEPTH = 1.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS).

PLM	1.76	127 eP	42	37.89	-2.4
		eS	43	02.13	
MMPM	3.20	353 (P)	43	00.07	-0.9
MEMM	3.25	355 (P)	42	59.14	-2.1

3 obs. associated

& JAN 17, 1994 17h 43m 28.07s  
34.371 N 118.638 W  
DEPTH = 7.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.1 (PAS). Multiple

event.

PLM	1.79	124 (P)	44	00.71	0.9
		eS	44	24.93	
MMPM	3.25	355 (Pn)	44	21.00	0.3
MEMM	3.30	356 (Pn)	44	21.93	0.8

3 obs. associated

& JAN 17, 1994 17h 56m 08.21s  
34.228 N 118.573 W  
DEPTH = 19.2km  
4.1mb (5 obs.)  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 4.6 (PAS), 4.5  
(BRK), 4.3 (GS). Mo=8.2\*10\*\*15  
Nm (BRK). Multiple event.

SSK	0.73	91 eP	56	21.41	-0.8
RYS	0.77	303 P	56	22.27	-0.6
ABL	0.82	319 ePd	56	22.59	-1.2
LPC	0.98	286 P	56	25.69	-0.8
PEC	1.22	106 ePc	56	28.58	-1.7
WOFM	1.31	355 P	56	31.20	-0.4
WASM	1.51	0 P	56	34.18	-0.3
BCH	1.57	308 eP	56	34.73	-0.6
PLM	1.67	121 eP	56	34.93	-1.9
VPEM	1.83	20 P	56	38.47	-0.6
PMCM	2.10	316 P	56	42.09	-0.8
PHAM	2.19	317 eP	56	43.28	-1.0
PKEM	2.22	326 eP	56	43.41	-1.2
PADM	2.35	307 P	56	45.06	-1.4
PANM	2.46	310 P	56	46.38	-1.7
PHCM	2.57	305 P	56	48.36	-1.3
PJLM	2.82	312 P	56	50.93	-2.1
LRC	2.85	316 P	56	51.52	-2.1
BMSM	3.03	324 P	56	54.56	-1.5
MTUM	3.12	0 eP	56	57.45	-0.1
TPNV	3.31	34 ePd	56	59.42	-0.8
GLA	3.34	110 eP	56	58.49	-2.0
BCGM	3.35	318 P	56	59.15	-1.5
CLKR	3.36	357 P	57	02.72	1.6
BPRM	3.37	311 P	56	58.36	-2.7
MMPM	3.39	354 eP	57	01.85	0.3
MRCM	3.44	1 eP	57	01.59	-0.5
MEMM	3.44	355 eP	57	02.55	0.6
SAO	3.45	318 eP	56	59.63	-2.4
FRP	3.47	317 P	57	00.23	-2.1
HJGM	3.54	317 P	57	01.29	-2.1
CSR	3.67	319 P	57	03.94	-1.2
BONR	3.73	3 eP	57	05.85	-0.5
JRRM	3.81	319 P	57	05.01	-2.3
JBZM	3.82	318 P	57	06.38	-0.9
ARN	3.94	323 eP	57	07.00	-2.0
COE	3.94	321 eP	57	06.31	-2.6
MHC	3.98	322 eP	57	06.74	-3.0
TNP	4.00	16 eP	57	09.68	-0.4
CMB	4.07	339 eP	57	09.96	-1.0
JEGM	4.55	317 P	57	14.70	-3.0
BKS	4.70	322 eP	57	17.05	-2.7
HMR	4.71	327 eP	57	17.94	-2.0
KVN	4.83	4 (Pn)	57	20.93	-0.9
NTYM	5.30	323 eP	57	25.05	-3.3
ARUT	5.47	48 eP	57	30.27	-0.6
ORV	5.81	337 eP	57	33.43	-2.1
MSU	6.70	49 eP	57	48.03	-0.3
LMEM	6.73	340 (P)	57	52.75	4.0
TUC	6.80	104 eP	57	47.64	-1.9
LGPM	7.48	334 eP	57	57.71	-1.3
DUG	7.52	36 eP	57	58.95	-0.7
LBFM	7.58	341 ePn	57	57.58	-2.9
KMPM	7.59	326 eP	57	59.54	-1.1
SRU	8.10	51 eP	58	08.29	0.5
EMUT	8.34	46 ePn	58	10.41	-0.8
DAU	8.49	41 ePn	58	13.95	0.6
PV09	8.72	58 eP	58	16.91	0.3
PV10	8.74	59 eP	58	15.67	-1.1
HVU	8.82	30 ePn	58	17.66	-0.1
PV08	9.10	59 eP	58	21.96	0.1
PTI	9.90	28 (P)	58	32.29	-0.4
ALQ	10.02	83 (Pn)	58	32.85	-1.5
VGB	11.40	352 (P)	58	53.65	0.6
MCMT	11.47	21 eP	58	57.70	3.5
LRM	12.49	20 eP	59	19.00	11.1
RMW	13.44	351 eP	59	20.39	0.0
RSSD	14.97	44 (P)	59	39.95	-0.6
	0.9s	8.55nm		4.1mb	
ACO	16.02	76 iPc	00	09.20	15.1

MEO	16.49	82 iPc	00	03.10	3.1
TUL	18.72	78 iPd	00	27.70	-0.1
UYO	19.94	83 iPd	00	39.20	-2.7
ULM	23.07	39 eP	01	14.50	1.2
YKA	28.40	4 eP	02	01.60	-1.5
	0.6s	0.80nm		3.6mb	
MBC	42.11	360 eP	04	02.00	1.9
	1.0s	4.00nm		4.1mb	
RES	42.15	9 eP	04	13.00	12.5
FRB	42.42	30 eP	04	02.50	-0.3
LPAP	69.47	128 iPc	07	16.00	-2.3
LPB	69.67	128 P	07	18.30	-0.9
SIV	74.05	122 P	07	43.20	-1.7
MOCB	74.69	129 P	07	48.40	-0.6
HFS	78.12	22 eP	08	05.60	-1.6
	0.6s	3.70nm		4.6mb	
CLL	84.79	28 eP	08	42.00	-0.3
PPD	84.93	121 eP	08	43.20	-0.2
BRG	85.50	28 iP	08	45.90	0.0
GEC2	87.01	29 P	08	47.40	-6.1
	1.0s	1.29nm		4.1mb X	
GEC2	87.01	29 P	08	57.20	3.7
	1.6s	2.35nm		4.2mb	
GEC2	87.01	29 P	08	51.70	-1.8
	1.2s	1.29nm		4.0mb X	
LBTB	147.66	83 ePKP	15	51.03	0.5
BLF	149.67	90 ePKP	15	56.50	2.8
SLR	150.17	82 iPKPd	15	58.00	3.5
	1.4s	46.51nm			

91 obs. associated

\* JAN 17, 1994 18h 01m 48.19±1.26s  
34.363 N ±15.8km 118.601 W ±12.0km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.9 (GS).

SSK	0.77	101 eP	02	04.77	1.5
PEC	1.28	111 (P)	02	11.44	-0.6
BCH	1.47	304 eP	02	15.13	0.3
PLM	1.76	124 eP	02	18.49	-0.6
TPNV	3.21	36 (Pn)	02	39.31	-0.5

S.D. = 1.3 on 5 of 5 obs.

& JAN 17, 1994 18h 14m 11.78s  
34.295 N 118.630 W  
DEPTH = 19.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS).

RYS	0.69	300 P	14	26.79	1.6
SSK	0.78	96 eP	14	26.74	0.1
		eS	14	37.76	
BMTC	0.84	2 P	14	28.54	0.9
ARVC	0.85	349 P	14	29.50	1.8
MARC	0.92	321 P	14	34.06	5.2
TEJ	0.93	357 P	14	30.04	0.9
PLM	1.75	122 (P)	14	41.82	0.3

7 obs. associated

& JAN 17, 1994 18h 20m 23.69s  
34.279 N 118.466 W  
DEPTH = 11.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.6 (GS).

SSK	0.64	96 eP	20	35.65	-0.9
FTC	0.69	329 P	20	36.34	-0.9
RYS	0.82	297 P	20	38.84	-0.7
ABL	0.84	313 eP	20	38.74	-1.3
PLEC	0.85	324 P	20	39.63	-0.4
ARVC	0.90	341 P	20	40.11	-0.6
TEJ	0.97	349 P	20	39.82	-2.1
MARC	1.02	315 P	20	42.24	-0.6
LPC	1.05	282 P	20	42.54	-1.0
PEC	1.15	109 eP	20	43.66	-1.4
		eS	20	58.93	
WOFM	1.27	351 P	20	46.82	-0.4
WBSM	1.28	12 P	20	46.97	-0.5
CRGC	1.41	313 P	20	48.77	-0.6
WORM	1.43	7 P	20	49.02	-0.5
WASM	1.46	357 P	20	50.50	0.4
SCCM	1.55	296 P	20	51.16	-0.1
WSHM	1.57	30 P	20	51.25	-0.3
BCH	1.61	305 (P)	20	51.32	-0.8
PLM	1.62	124 eP	20	50.87	-1.6
NMC	1.63	16 P	20	53.41	1.0



17d 18h

TOW 1.63 20 P 20 54.95 2.5  
 WCHM 1.63 11 P 20 51.79 -0.9  
 GSC 1.71 53 (P) 20 52.80 -0.7  
 VPEN 1.75 18 P 20 53.59 -0.6  
 RCWM 1.80 22 P 20 53.27 -1.6  
 WLHM 1.87 4 P 20 58.02 1.8  
 PHAM 2.22 315 (P) 20 59.02 -1.9  
 MTUM 3.07 359 ePn 21 12.91 -0.2  
 TPNV 3.22 33 ePn 21 14.29 -1.0  
 MMPM 3.36 352 ePg 21 23.90 6.5  
 es 22 07.41  
 MRCM 3.39 359 ePg 21 24.98 7.3  
 MEMM 3.40 354 ePg 21 25.41 7.8  
 BONR 3.67 2 ePg 21 30.61 8.8  
 TNP 3.93 15 ePn 21 25.62 0.3  
 CMB 4.06 338 (P) 21 27.73 0.7  
 ARUT 5.37 48 ePn 21 45.37 -0.4  
 MSU 6.60 48 (Pn) 22 02.90 -0.3  
 DUG 7.43 36 ePg 22 41.12 26.4  
 38 obs. associated

& JAN 17, 1994 18h 22m 55.08s  
 34.369 N 118.636 W  
 DEPTH = 12.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.1 (PAS), 3.4 (GS).

FTC 0.54 337 P 23 05.15 -0.9  
 ABL 0.68 315 eP 23 07.25 -1.3  
 PLEC 0.70 329 P 23 08.48 -0.2  
 ARVC 0.77 348 P 23 09.26 -0.7  
 SSK 0.80 101 eP 23 09.66 -0.8  
 es 23 22.74  
 MARC 0.86 318 P 23 10.89 -0.5  
 TEJ 0.86 357 P 23 10.26 -1.2  
 LPC 0.90 278 P 23 11.42 -0.8  
 WOFM 1.17 357 P 23 16.26 -0.5  
 CRGC 1.25 315 P 23 17.34 -0.8  
 PEC 1.31 111 eP 23 17.42 -1.8  
 es 23 35.66  
 WORM 1.36 14 P 23 20.50 0.6  
 SCCM 1.39 295 P 23 18.81 -1.4  
 BCH 1.44 305 eP 23 19.69 -1.4  
 WSHM 1.57 36 P 23 24.05 1.2  
 NMC 1.59 22 P 23 24.34 1.2  
 GSC 1.77 58 eP 23 24.62 -1.2  
 RCWM 1.77 27 P 23 27.78 2.0  
 PLM 1.79 124 eP 23 24.93 -1.2  
 WLHM 1.80 8 P 23 28.84 2.4  
 PHAM 2.06 316 eP 23 28.24 -1.6  
 PAMP 2.71 305 P 23 36.60 -2.7  
 LRC 2.72 314 P 23 36.77 -2.5  
 MTUM 2.98 1 (Pn) 23 42.76 -0.4  
 BRMM 3.04 325 P 23 51.22 7.4  
 TPNV 3.23 36 ePn 23 45.23 -1.4  
 BPRM 3.24 310 P 23 44.38 -2.4  
 MMPM 3.25 355 ePg 23 52.30 5.1  
 BVYM 3.28 317 P 23 44.70 -2.6  
 MRCM 3.30 2 ePg 23 54.53 6.8  
 MEMM 3.30 356 ePn 23 47.28 -0.2  
 DIL 3.47 316 P 23 47.47 -2.5  
 BONR 3.59 4 ePg 24 00.29 8.4  
 TNP 3.88 17 ePg 24 05.70 9.7  
 34 obs. associated

JAN 17, 1994 18h 31m 40.57± 0.96s  
 34.306 N ±10.8km 118.486 W ± 7.3km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 2.8 (GS).

SSK 0.66 98 eP 31 53.89 0.0  
 RYS 0.79 295 P 31 56.34 0.3  
 ABL 0.81 312 eP 31 55.51 -1.0  
 BMTG 0.83 354 P 31 56.18 -0.6  
 ARVC 0.87 341 P 31 56.68 -0.6  
 MARC 0.99 315 P 31 59.80 0.5  
 PEC 1.17 110 (P) 32 02.62 0.1  
 CRGC 1.38 313 P 32 07.26 1.3  
 WSHM 1.55 31 P 32 09.96 1.6  
 BCH 1.58 304 eP 32 09.13 0.3  
 TOW 1.61 21 P 32 11.73 2.6  
 PLM 1.65 125 (P) 32 09.76 -0.2  
 GSC 1.70 54 (P) 32 08.33 -2.2  
 CMB 4.03 338 (P) 32 41.31 -2.3  
 DUG 7.42 36 ePg 34 27.42 55.9X

S.D. = 1.4 on 14 of 15 obs.

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 & JAN 17, 1994 18h 32m 08.47s  
 34.285 N 118.505 W  
 DEPTH = 3.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.8 (PAS), 3.6 (GS).

FTC 0.67 331 P 32 21.02 -0.8  
 SSK 0.68 96 iPc 32 21.03 -1.0  
 ABL 0.82 314 eP 32 23.46 -1.3  
 PLEC 0.82 326 P 32 24.26 -0.7  
 SNDC 0.87 11 P 32 26.45 0.5  
 TEJ 0.95 351 P 32 24.86 -2.5  
 TMB 1.17 314 P 32 30.34 -0.6  
 PEC 1.18 109 iPc 32 29.28 -1.9  
 WOFM 1.26 352 P 32 31.63 -1.0  
 WBSM 1.28 13 P 32 32.00 -1.1  
 CRGC 1.38 314 P 32 33.84 -0.9  
 WORM 1.42 9 P 32 33.93 -1.4  
 WASHM 1.45 358 P 32 35.10 -0.7  
 BCH 1.58 305 (P) 32 36.57 -1.0  
 WSHM 1.58 31 P 32 38.22 0.7  
 WCHM 1.63 12 P 32 36.72 -1.8  
 PLM 1.65 124 (P) 32 38.75 0.1  
 GSC 1.73 54 (P) 32 36.80 -2.9  
 VPEN 1.75 19 P 32 38.80 -1.3  
 RCWM 1.80 23 P 32 38.90 -1.9  
 WLHM 1.87 5 P 32 40.80 -1.1  
 PHAM 2.19 315 ePn 32 44.88 -1.5  
 PAMP 2.85 306 P 32 52.09 -3.7  
 BHPR 3.01 0 P 33 03.86 5.7  
 MTUM 3.06 359 ePn 32 57.29 -1.6  
 ePg 33 04.37  
 GLA 3.30 111 (Pn) 32 59.54 -2.7  
 MMPM 3.34 353 (Pn) 33 02.20 -0.9  
 MRCM 3.38 360 (Pn) 33 04.34 0.9  
 MEMM 3.39 354 ePg 33 09.28 5.9  
 SAO 3.45 317 ePn 33 01.05 -3.1  
 DIL 3.61 316 P 33 03.09 -3.3  
 BONR 3.67 3 ePg 33 14.82 7.3  
 ARN 3.92 322 eP 33 10.61 -0.4  
 TNP 3.93 15 ePg 33 20.72 9.5  
 CMB 4.04 338 eP 33 11.82 -0.8  
 KVN 4.77 4 ePg 33 36.09 12.9  
 ARUT 5.39 48 ePn 33 31.00 -0.9  
 MSU 6.62 49 (Pn) 33 47.95 -1.4  
 PV09 8.65 58 ePn 34 17.11 -0.6  
 39 obs. associated

& JAN 17, 1994 18h 39m 58.18s  
 34.336 N 118.461 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.1 (PAS).

FTC 0.64 326 P 40 10.60 -0.4  
 RYS 0.80 293 P 40 14.23 0.1  
 PLEC 0.81 322 P 40 14.35 0.1  
 ABL 0.81 310 ePc 40 13.44 -0.9  
 SNDC 0.82 9 P 40 16.48 2.0  
 ARVC 0.85 339 P 40 14.18 -0.9  
 TEJ 0.91 348 P 40 13.90 -2.5  
 MARC 0.98 313 P 40 16.94 -0.8  
 LPC 1.05 279 P 40 17.73 -1.3  
 TMB 1.16 311 P 40 20.15 -0.7  
 PEC 1.17 112 eP 40 19.44 -1.5  
 es 40 35.40  
 WOFM 1.21 350 P 40 21.19 -0.6  
 WBSM 1.23 12 P 40 21.64 -0.4  
 WORM 1.37 7 P 40 24.07 -0.4  
 CRGC 1.38 311 P 40 23.90 -0.7  
 WSHM 1.52 31 P 40 26.56 -0.2  
 NMC 1.57 17 P 40 28.19 0.7  
 WCHM 1.58 11 P 40 26.57 -1.2  
 TOW 1.58 21 P 40 26.73 -0.8  
 PLM 1.65 126 eP 40 27.56 -1.2  
 VPEN 1.69 18 P 40 30.42 1.1  
 WLHM 1.82 4 P 40 31.87 0.6  
 MMPM 3.30 352 ePn 40 52.60 0.1  
 23 obs. associated

& JAN 17, 1994 18h 51m 08.23s  
 34.337 N 118.376 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.5 (PAS), 3.9 (GS).

SSK 0.58 102 eP 51 20.96 1.2  
 FTC 0.68 322 P 51 20.89 -0.9  
 LOK 0.71 303 P 51 21.10 -1.2  
 SNDC 0.81 4 P 51 25.62 1.3  
 ADL 0.82 74 P 51 24.98 0.3  
 PLEC 0.85 318 P 51 24.64 -0.6  
 ABL 0.87 307 eP 51 23.20 -2.3  
 ELS 1.05 131 P 51 28.23 -0.7  
 PEC 1.10 113 eP 51 29.08 -0.8  
 LPC 1.12 279 P 51 28.12 -2.1  
 SNS 1.13 142 P 51 29.14 -1.2  
 BLKC 1.21 52 P 51 31.98 0.2  
 TMB 1.21 308 P 51 30.12 -1.7  
 WBSM 1.21 9 P 51 31.39 -0.5  
 WOFM 1.23 347 P 51 31.70 -0.4  
 RAY 1.33 103 P 51 34.04 0.1  
 WORM 1.36 5 P 51 34.43 0.1  
 WASHM 1.41 354 P 51 34.38 -0.8  
 WWPM 1.42 10 P 51 34.91 -0.3  
 CRGC 1.43 310 P 51 33.68 -1.8  
 SRTC 1.45 21 P 51 36.00 0.3  
 NMC 1.55 14 P 51 37.56 0.3  
 TOW 1.55 19 P 51 38.18 1.0  
 WCHM 1.56 9 P 51 38.88 1.3  
 PLM 1.60 127 eP 51 36.08 -1.9  
 GSC 1.61 53 (P) 51 39.35 1.2  
 BCH 1.64 302 eP 51 35.98 -2.6  
 VPEN 1.67 16 P 51 39.86 0.8  
 YEG 1.70 311 P 51 37.02 -2.4  
 WLHM 1.81 2 P 51 41.62 0.4  
 CPM 1.81 95 P 51 43.36 2.3  
 FRGC 2.01 106 P 51 45.56 1.7  
 PKEM 2.23 321 (P) 51 45.04 -1.9  
 PHAM 2.23 313 eP 51 43.89 -3.2  
 WKR 2.29 311 P 51 50.02 2.1  
 PADM 2.42 303 P 51 46.06 -3.7  
 CO2 2.56 100 P 51 50.47 -1.3  
 LRC 2.90 312 P 51 53.31 -3.2  
 BHPR 2.96 358 P 52 03.28 5.7  
 MTUM 3.01 357 ePn 51 56.95 -1.4  
 BMSM 3.04 320 P 51 55.52 -3.1  
 TPNV 3.13 33 ePn 51 58.63 -1.3  
 GLA 3.22 112 (Pn) 52 00.03 -1.1  
 MMPM 3.31 351 (Pn) 52 02.58 -0.1  
 MRCM 3.33 358 ePg 52 08.57 5.7  
 MEMM 3.35 352 ePn 52 02.83 -0.1  
 BPRM 3.43 308 P 52 00.65 -3.5  
 SAO 3.48 315 eP 52 01.83 -3.0  
 BONR 3.61 1 ePg 52 07.42 0.5  
 ePg 52 14.92

CBC 3.72 315 P 52 08.92 0.7  
 TNP 3.85 14 ePg 52 21.53 11.2  
 ARN 3.95 320 (P) 52 06.89 -4.6  
 COE 3.96 318 ePn 52 10.26 -1.3  
 CMB 4.03 337 eP 52 11.14 -1.5  
 KVN 4.71 3 ePg 52 33.84 11.4  
 ARUT 5.28 48 ePn 52 31.29 0.8  
 MSU 6.51 48 (Pn) 52 48.09 0.2  
 SRU 7.90 51 ePn 53 08.70 1.4  
 58 obs. associated

? JAN 17, 1994 18h 55m 17.46± 1.14s  
 29.484 N ±16.6km 129.305 E ±20.0km  
 DEPTH = 33.0km (normal)  
 4.0mb ( 2 obs.)

RYUKYU ISLANDS (238)

KAGJ 2.18 38 P 55 50.30 -1.8  
 es 56 16.20  
 KUMJ 3.31 23 P 56 09.70 1.5  
 es 56 48.60  
 SHNJ 4.87 18 eP 56 33.70 3.4X  
 BJI 15.06 318 eP 59 11.00 21.6X  
 1.0s 6.00nm  
 Z 16s 0.47um  
 LZH 22.36 294 eP 00 13.50 -0.7  
 1.5s 26.00nm 4.5mb  
 Z 15s 0.29um 3.8MsZ  
 pP 00 21.00 27kmX  
 WRA 49.38 174 P 04 06.20 0.3  
 0.9s 0.60nm 3.6mb X  
 MBC 66.45 14 eP 06 06.50 1.3  
 YKA 75.19 26 eP 06 57.50 -0.6  
 0.7s 0.50nm 3.6mb  
 S.D. = 1.7 on 6 of 8 obs.

& JAN 17, 1994 19h 03m 55.36s



17d 19h

34.320 N 118.479 W  
 DEPTH = 0.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS>-P. ML 2.6 (PAS), 3.0 (GS).  
 Multiple event.

SSK	0.66	99 (P)	04 08.02	-0.5
ABL	0.81	311 eP	04 09.60	-1.9
PEC	1.17	111 eP	04 16.33	-1.9
		eS	04 32.18	
BCH	1.58	304 eP	04 22.09	-2.7
PLM	1.66	125 eP	04 21.27	-4.7
GSC	1.69	54 eP	04 26.19	-0.2
MTUM	3.03	359 ePg	04 50.72	5.1
TPNV	3.19	34 ePn	04 45.77	-2.1
MMPM	3.31	352 ePg	04 55.38	5.6
MEMM	3.36	354 ePg	04 57.52	7.4

10 obs. associated

& JAN 17, 1994 19h 07m 28.40s  
 34.336 N 118.614 W  
 DEPTH = 1.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS>-P. ML 3.3 (PAS), 3.6 (GS).

QAL	0.42	349 P	07 36.61	-0.2
LOK	0.55	315 P	07 38.88	-0.6
FTC	0.58	337 P	07 39.50	-0.5
PVRC	0.62	161 P	07 39.82	-0.9
RYS	0.68	297 P	07 41.64	-0.4
TJR	0.70	351 P	07 41.40	-0.9
ABL	0.72	316 iPc	07 41.38	-1.3
SSK	0.77	99 eP	07 42.90	-0.9
ARVC	0.81	347 P	07 43.50	-1.0
MARC	0.89	318 P	07 45.02	-1.2
TEJ	0.89	356 P	07 44.34	-1.9
LPC	0.92	280 P	07 45.27	-1.5
CALC	0.94	35 P	07 45.95	-1.2
TMB	1.07	315 P	07 48.32	-1.1
PKM	1.14	300 P	07 49.16	-1.5
WHVM	1.17	4 P	07 49.81	-1.4
WOFM	1.20	356 P	07 50.38	-1.3
WBSM	1.26	18 P	07 51.27	-1.5
PEC	1.28	110 eP	07 50.79	-2.3
BTL	1.34	93 P	07 52.75	-1.4
WORM	1.39	13 P	07 53.25	-1.7
WASM	1.40	2 P	07 53.90	-1.2
SCCM	1.42	296 P	07 53.75	-1.6
BCH	1.48	305 eP	07 53.77	-2.5
WSCM	1.49	23 P	07 54.02	-2.4
POB	1.55	114 P	07 55.09	-2.2
XMS	1.57	41 P	07 55.68	-1.9
WCHM	1.61	16 P	07 56.06	-2.2
RMR	1.69	94 P	07 58.22	-1.2
CLC	1.70	29 P	07 56.81	-2.5
VPDM	1.74	22 P	07 58.00	-2.0
PLM	1.76	123 eP	07 59.17	-1.2
KEE	1.77	113 P	08 00.37	-0.2
GSC	1.77	57 iPc	07 58.51	-2.0
PHAM	2.09	316 eP	08 02.63	-2.4
PAPM	2.75	306 P	08 10.57	-4.0
MTUM	3.01	1 ePn	08 16.91	-1.4
TPNV	3.24	36 ePn	08 19.40	-2.2
BPRM	3.28	310 P	08 17.90	-4.1
MMPM	3.28	354 ePn	08 21.67	-0.7
ORC	3.29	359 P	08 29.31	6.9
MRCM	3.33	1 ePg	08 28.52	5.6
MEMM	3.33	356 (Pn)	08 20.13	-2.6
DIL	3.51	316 P	08 21.56	-3.7
BONR	3.62	4 ePn	08 25.75	-1.3
JBZM	3.72	317 P	08 25.48	-2.7
ARN	3.83	323 eP	08 26.69	-3.2
TNP	3.90	16 ePg	08 39.23	8.2
CMB	3.96	339 (P)	08 29.38	-2.3
ARUT	5.42	49 ePn	08 50.74	-1.9

50 obs. associated

JAN 17, 1994 19h 22m 10.13± 0.52s  
 34.300 N ± 5.1km 118.473 W ± 3.4km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.4 (GS).

SSK	0.65	98 eP	22 22.93	-0.3
FTC	0.67	329 P	22 22.75	-0.7
RYS	0.80	296 P	22 26.03	0.2
ABL	0.83	312 eP	22 25.56	-0.7

PLEC	0.83	324 P	22 38.19	eS
ARVC	0.88	341 P	22 26.77	0.6
TEJ	0.95	349 P	22 26.28	-0.7
MARC	1.00	315 P	22 26.01	-2.2
LPC	1.04	281 P	22 29.03	-0.1
WJPM	1.11	360 P	22 29.84	-0.1
PEC	1.16	110 ePc	22 31.14	0.1
		eS	22 31.48	-0.4
		eS	22 47.97	
TMB	1.18	312 P	22 32.52	0.4
WOFM	1.25	351 P	22 32.49	0.1
CRGC	1.39	313 P	22 36.14	0.4
WORM	1.41	8 P	22 36.18	0.3
WASM	1.44	357 P	22 37.64	1.2
SCCM	1.54	295 P	22 38.61	0.9
WSHM	1.56	31 P	22 38.47	0.5
BCH	1.59	304 eP	22 38.40	-0.1
WCHM	1.61	12 P	22 38.60	-0.4
TOW	1.61	21 P	22 40.68	1.9X
PLM	1.64	125 (P)	22 39.34	0.1
GSC	1.70	53 (P)	22 39.98	-0.1
VPDM	1.73	18 P	22 42.47	1.9
RCWM	1.78	22 P	22 41.50	0.3
PHAM	2.20	315 (P)	22 46.80	-0.5
MTUM	3.05	359 ePg	23 05.14	5.7X
TPNV	3.20	34 ePn	23 00.99	-0.7
MMPM	3.33	352 ePg	23 10.18	6.5X
MRCM	3.37	360 ePg	23 11.57	7.6X
MEMM	3.38	354 ePg	23 10.13	6.2X
BONR	3.65	2 ePg	23 16.68	8.5X
TNP	3.91	15 ePg	23 22.79	11.1X

S.D. = 0.8 on 26 of 33 obs.

& JAN 17, 1994 19h 23m 53.60s  
 34.279 N 118.577 W  
 DEPTH = 15.5km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS>-P. ML 3.6 (PAS), 3.5 (GS).

FTC	0.65	336 P	24 05.50	-0.6
SSK	0.74	95 eP	24 06.99	-0.7
RYS	0.74	300 P	24 07.19	-0.5
ABL	0.78	317 eP	24 07.31	-1.2
PLEC	0.80	330 P	24 08.57	-0.1
ARVC	0.87	346 P	24 09.76	-0.1
SNDC	0.89	15 P	24 11.44	1.1
TEJ	0.95	354 P	24 10.42	-0.9
MARC	0.96	319 P	24 10.14	-1.2
LPC	0.96	283 P	24 10.69	-0.9
TMB	1.13	316 P	24 14.06	-0.3
PEC	1.24	108 eP	24 14.74	-1.4
WOFM	1.26	355 P	24 16.19	-0.4
WBSM	1.31	16 P	24 15.89	-1.5
CRGC	1.35	316 P	24 17.44	-0.4
WORM	1.44	11 P	24 18.71	-0.4
WASM	1.46	1 P	24 20.14	0.7
SCCM	1.47	297 P	24 19.54	0.0
BCH	1.54	306 eP	24 20.41	-0.1
WSHM	1.62	33 P	24 20.44	-1.2
TOW	1.67	23 P	24 22.06	-0.3
PLM	1.70	122 eP	24 22.38	-0.6
VPDM	1.78	20 P	24 23.63	-0.5
GSC	1.78	55 eP	24 23.18	-0.9
RCWM	1.83	24 P	24 24.00	-0.8
WLHM	1.88	7 P	24 25.34	-0.4
PHAM	2.16	317 (P)	24 24.03	-5.4
MTUM	3.07	0 ePg	24 47.33	4.8
TPNV	3.27	35 ePn	24 44.32	-1.1
MMPM	3.34	354 ePg	24 53.12	6.5
MRCM	3.39	1 ePg	24 55.38	8.3
MEMM	3.39	355 ePg	24 54.68	7.8
BONR	3.68	3 ePg	25 00.52	9.2
TNP	3.95	16 ePg	25 05.79	10.7
PV09	8.70	58 ePn	26 02.69	0.7
PV10	8.71	59 ePn	26 02.10	-0.1
PV08	9.08	59 ePn	26 08.36	1.1

37 obs. associated

& JAN 17, 1994 19h 25m 59.67s  
 34.302 N 118.505 W  
 DEPTH = 2.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS>-P. ML 2.9 (PAS), 2.9 (GS).

SSK	0.68	97 eP	26 12.24	-1.0
		eS	26 21.87	
ABL	0.81	313 eP	26 14.50	-1.3

PEC	1.19	110 eP	26 20.72	-1.9
BCH	1.57	305 eP	26 27.90	-0.8
PLM	1.66	124 eP	26 29.96	-0.2
GSC	1.72	54 eP	26 27.42	-3.4
TPNV	3.22	34 (Pn)	26 50.30	-2.0
BONR	3.65	3 ePg	27 06.73	8.1

8 obs. associated

& JAN 17, 1994 19h 31m 54.23s  
 60.359 N 141.209 W  
 DEPTH = 8.8km  
 SOUTHEASTERN ALASKA ( 19)  
 <AEIC>-ML 2.6 (AEIC).

BALM	0.88	321 eP	32 10.27	-1.1
		eS	32 22.44	
BC3	1.10	137 eP	32 39.36	-0.5
CTGM	1.10	137 iP	32 06.43	-0.5
		eS	32 15.49	
CVA	1.10	137 eP	32 30.35	-0.5
CYK	1.10	137 eP	32 07.11	-0.5
		eS	32 17.24	
FID	1.10	137 eP	32 36.87	-0.5
GLB	1.10	137 eP	32 22.94	-0.5
		eS	32 45.11	
HIN	1.10	137 eP	32 35.44	-0.5
HMT	1.10	137 eP	32 21.06	-0.5
		eS	32 40.98	
KLU	1.10	137 eP	32 35.63	-0.5
PMR	1.10	137 (P)	32 57.78	-0.5
SNH	1.10	137 eP	32 09.70	-0.5
		eS	32 21.61	
TGL	1.10	137 eP	32 10.28	-0.5
TZL	1.10	137 eP	32 36.40	-0.5
VZW	1.10	137 eP	32 36.37	-0.5
YAH	1.10	137 eP	32 00.09	-0.5
		eS	32 04.33	
YKU	1.10	137 P	32 14.50	-0.5

17 obs. associated

& JAN 17, 1994 19h 35m 34.28s  
 34.311 N 118.456 W  
 DEPTH = 2.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS>-P. ML 4.0 (PAS), 4.0 (BRK), 4.2 (GS).

SSK	0.64	99 iPd	35 46.46	-0.6
PLEC	0.83	323 P	35 50.16	-0.6
ABL	0.83	311 eP	35 48.88	-2.0
TEJ	0.94	348 P	35 50.24	-2.7
WJPM	1.10	359 P	35 54.54	-1.2
PEC	1.15	111 eP	35 54.76	-1.8
WOFM	1.24	350 P	35 57.30	-0.8
WBSM	1.25	12 P	35 57.36	-1.0
WASM	1.43	357 P	36 00.18	-1.2
NMC	1.59	16 P	36 02.02	-1.6
BCH	1.60	303 eP	36 01.74	-2.0
WCHM	1.60	11 P	36 02.13	-1.8
PLM	1.64	125 eP	36 01.82	-2.5
GSC	1.68	54 (P)	36 03.08	-1.8
WLHM	1.84	4 P	36 06.23	-1.2
GMR	2.07	316 P	36 10.30	-0.2
PMCM	2.11	312 P	36 11.42	0.3
PHAM	2.20	314 (P)	36 08.81	-3.6
PKEM	2.21	323 eP	36 09.78	-2.7
PHBM	2.35	326 P	36 15.77	1.3
PRI	2.57	316 iP	36 18.12	0.4
FRI	2.86	339 ePd	36 19.62	-2.2
		iS	36 58.76	
PAPM	2.87	305 P	36 18.18	-3.8
BHPR	2.98	360 P	36 28.19	4.5
MTUM	3.04	358 ePn	36 23.28	-1.2
SHG	3.10	313 P	36 21.73	-3.4
CWCR	3.18	2 P	36 32.79	6.3
TPNV	3.19	34 P	36 22.71	-3.8
CASR	3.26	359 P	36 32.93	5.3
GLA	3.28	112 ePn	36 24.44	-3.3
CLKR	3.29	355 P	36 34.31	6.2
MMPM	3.32	352 ePn	36 24.96	-3.7
MRCM	3.35	359 (Pn)	36 27.17	-1.8
MCSM	3.36	354 P	36 35.60	6.5
MEMM	3.37	353 (Pn)	36 27.44	-1.5
BSLM	3.41	317 P	36 30.92	1.4
SAO	3.45	316 ePn	36 26.52	-3.7
BONR	3.64	2 (Pn)	36 33.04	0.0
TNP	3.89	15 ePn	36 33.79	-2.9



17d 19h

ARN 3.93 321 ePn 36 32.98 -4.0  
 COE 3.93 319 (Pn) 36 34.56 -2.5  
 CMB 4.03 338 ePc 36 37.30 -1.1  
 KVN 4.74 3 (Pn) 36 48.32 -0.3  
 NTYM 5.30 321 ePn 36 53.08 -3.3  
 ARUT 5.34 48 ePn 36 54.65 -2.5  
 ORV 5.77 336 ePn 37 00.47 -2.6  
 MSU 6.57 49 ePn 37 12.71 -1.9  
 TUC 6.73 105 (P) 37 12.45 -4.1  
 DUG 7.40 36 (Pn) 37 28.66 2.6  
 0.7s 5.36nm 4.9mb X  
 ePg 37 52.54  
 LBFM 7.53 340 (Pn) 37 24.45 -3.5  
 SRU 7.97 51 ePn 37 33.79 -0.3  
 PV09 8.60 58 ePn 37 41.43 -1.6  
 PV10 8.61 59 ePn 37 41.49 -1.7  
 ULM 22.95 39 eP 40 41.00 0.3  
 YKA 28.31 4 eP 41 33.40 2.4  
 0.7s 0.30nm 3.2mb  
 55 obs. associated

& JAN 17, 1994 19h 43m 53.38s  
 34.368 N 118.637 W  
 DEPTH = 13.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.1 (PAS), 4.3 (BRK), 4.0 (GS).

CJV 0.44 68 P 44 01.47 -1.0  
 GVRC 0.53 126 P 44 03.45 -0.6  
 RYS 0.65 295 P 44 05.49 -0.7  
 ABL 0.68 315 iPc 44 05.64 -1.0  
 LJB 0.69 71 P 44 05.84 -0.9  
 PLEC 0.70 329 P 44 06.48 -0.4  
 SSK 0.80 101 eP 44 07.99 -0.6  
 TEJ 0.86 357 P 44 08.52 -1.1  
 CALC 0.93 38 P 44 10.30 -0.5  
 RVR 1.11 109 P 44 12.84 -1.0  
 WOFM 1.17 357 P 44 14.42 -0.5  
 CFT 1.31 104 P 44 16.34 -0.9  
 PEC 1.31 111 iPd 44 15.71 -1.6  
 BTL 1.36 94 P 44 17.77 -0.3  
 WORM 1.36 14 P 44 17.48 -0.5  
 BCH 1.44 305 ePc 44 18.11 -1.0  
 SIL 1.50 90 P 44 19.80 -0.2  
 YEG 1.52 315 P 44 19.32 -0.9  
 WCHM 1.58 17 P 44 20.30 -1.0  
 CLC 1.68 30 P 44 21.20 -1.3  
 VPEN 1.72 23 P 44 22.12 -1.0  
 GSC 1.77 58 eP 44 23.10 -0.8  
 PLM 1.79 124 eP 44 23.02 -1.2  
 CSSM 1.80 23 P 44 23.36 -1.0  
 PTRM 1.82 315 P 44 24.28 -0.3  
 PMCM 1.96 314 P 44 25.48 -1.1  
 CPM 2.03 95 P 44 27.65 0.0  
 PHAM 2.06 316 eP 44 26.11 -1.8  
 PKEM 2.08 325 eP 44 27.32 -0.9  
 TPC 2.16 96 P 44 28.72 -0.8  
 PSTM 2.19 316 P 44 28.84 -1.0  
 PHBM 2.22 328 P 44 30.78 0.5  
 PARM 2.34 324 P 44 34.93 2.9  
 BRGC 2.37 120 P 44 34.77 2.3  
 PRI 2.43 317 eP 44 31.79 -1.5  
 PTV 2.43 316 P 44 31.86 -1.5  
 SHH 2.48 93 P 44 32.66 -1.4  
 FRI 2.76 342 iP 44 36.35 -1.6  
 eS 45 09.50

CO2 2.78 100 P 44 36.97 -1.3  
 LRV 2.83 317 P 44 37.54 -1.4  
 BHPR 2.93 2 P 44 44.30 3.8  
 MTUM 2.98 1 ePn 44 41.51 0.3  
 BRMM 3.04 325 P 44 40.56 -1.3  
 EKH 3.09 319 P 44 42.22 -0.4  
 LTC 3.09 105 P 44 41.88 -0.8  
 TPNV 3.23 36 ePn 44 43.60 -1.1  
 MMPM 3.25 355 ePn 44 46.15 0.9  
 ORC 3.26 360 P 44 48.06 2.7  
 BVYM 3.28 317 P 44 43.10 -2.3  
 MRCM 3.30 2 ePn 44 46.66 0.8  
 eS 45 34.42  
 MEMM 3.30 356 ePn 44 46.06 0.5  
 SAO 3.31 317 eP 44 43.29 -2.5  
 GLA 3.44 111 ePn 44 45.64 -2.0  
 DIL 3.47 316 P 44 45.50 -2.5  
 CBC 3.55 317 P 44 48.00 -1.2  
 BONR 3.59 4 (Pn) 44 50.56 0.5  
 JTGM 3.74 316 P 44 49.66 -2.3

ARN 3.79 323 ePn 44 50.16 -2.5  
 COE 3.79 320 ePn 44 49.60 -3.1  
 MHC 3.84 321 eP 44 51.50 -1.9  
 TNP 3.88 17 ePn 44 54.84 0.8  
 CMB 3.92 339 eP 44 53.75 -0.7  
 eS 45 39.40  
 KVN 4.69 5 (Pn) 45 06.57 0.9  
 NTYM 5.16 322 eP 45 09.29 -2.7  
 ARUT 5.42 49 ePn 45 14.98 -0.9  
 ORV 5.66 337 eP 45 17.60 -1.5  
 DUG 7.44 37 ePg 46 11.46 27.2  
 PV10 8.71 60 ePn 46 01.31 -0.8  
 ULM 23.00 39 eP 49 00.00 1.5  
 MBC 41.97 360 eP 51 46.50 1.7  
 LPAZ 69.60 128 P 55 02.80 -2.2  
 LPB 69.80 128 eP 55 09.00 3.0  
 72 obs. associated

JAN 17, 1994 19h 46m 19.48± 0.53s  
 34.285 N ± 5.3km 118.721 W ± 3.5km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.7 (GS).

FTC 0.60 346 P 46 31.82 0.1  
 ABL 0.70 324 eP 46 33.82 0.4  
 PLEC 0.74 337 P 46 35.02 1.0  
 ARVC 0.85 354 P 46 35.99 0.2  
 SSK 0.85 95 eP 46 36.26 0.2  
 SNDC 0.92 22 P 46 37.52 0.3  
 TEJ 0.94 2 P 46 37.00 -0.5  
 TMB 1.04 320 P 46 40.61 1.4  
 WBSM 1.34 21 P 46 44.02 -0.3  
 PEC 1.35 106 eP 46 44.22 -0.2  
 eS 47 02.25  
 SCCM 1.36 299 P 46 43.04 -1.5  
 BCH 1.44 309 eP 46 46.57 0.9  
 eS 47 06.77  
 WASM 1.46 5 P 46 46.40 0.4  
 WCHM 1.68 18 P 46 48.64 -0.7  
 PLM 1.81 120 eP 46 51.81 0.8  
 VPEN 1.82 24 P 46 53.45 2.3X  
 GSC 1.88 57 eP 46 51.26 -0.7  
 RCWM 1.88 28 P 46 54.43 2.4X  
 PHAM 2.07 319 eP 46 54.98 0.3  
 PKEM 2.11 328 P 46 54.64 -0.6  
 PANM 2.33 310 P 46 58.25 -0.3  
 PHCM 2.43 306 P 47 00.27 0.3  
 PTV 2.45 319 P 47 00.34 0.2  
 MTUM 3.06 2 eP 47 10.88 1.9X  
 BSRM 3.30 317 P 47 11.60 -0.6  
 MPM 3.33 356 (Pn) 47 14.78 1.8X  
 TPNV 3.33 36 ePn 47 12.91 0.0  
 FRP 3.34 318 P 47 12.26 -0.6  
 MEMM 3.38 357 (P) 47 15.16 1.9X  
 MRCM 3.38 3 (Pn) 47 16.42 2.8X  
 DIL 3.49 318 P 47 14.14 -0.7  
 BONR 3.68 5 ePg 47 27.18 9.3X  
 JUCM 3.83 316 P 47 18.42 -1.4X  
 TNP 3.98 17 ePg 47 33.24 11.2X  
 S.D. = 0.7 on 25 of 34 obs.

JAN 17, 1994 19h 47m 45.32± 1.04s  
 34.442 N ± 8.6km 118.692 W ± 3.9km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.5 (GS).

FTC 0.46 339 P 47 54.65 0.0  
 RYS 0.58 290 P 47 57.47 0.3  
 ABL 0.60 313 eP 47 56.85 -0.7  
 PLEC 0.61 330 P 47 58.14 0.4  
 SNDC 0.77 25 P 48 00.20 -0.2  
 MARC 0.77 317 P 48 00.74 0.3  
 TEJ 0.79 0 P 47 59.27 -1.4  
 LPC 0.85 274 P 48 01.01 -0.7  
 TMB 0.95 313 P 48 03.92 0.5  
 WJPM 0.98 10 P 48 03.56 -0.5  
 WOFM 1.09 359 P 48 05.50 -0.4  
 CRGC 1.16 314 P 48 07.71 0.5  
 WBSM 1.18 22 P 48 06.88 -0.7  
 WORM 1.30 16 P 48 09.81 0.3  
 SCCM 1.32 293 P 48 09.19 -0.5  
 BCH 1.36 303 eP 48 10.91 0.4  
 WSHM 1.54 39 P 48 13.30 0.3  
 VPEN 1.67 25 P 48 14.81 0.0  
 WLHM 1.73 10 P 48 17.69 1.7

GSC 1.77 61 (P) 48 15.79 -0.5  
 TPNV 3.20 38 (Pn) 48 37.46 0.7  
 S.D. = 0.7 on 21 of 21 obs.

& JAN 17, 1994 19h 50m 48.01s  
 34.373 N 118.629 W  
 DEPTH = 6.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).

FTC 0.54 336 P 50 57.95 -1.0  
 ABL 0.68 314 eP 51 00.21 -1.5  
 PLEC 0.70 329 P 51 01.53 -0.4  
 BMTC 0.76 2 P 51 01.71 -1.5  
 ARVC 0.77 348 P 51 02.16 -1.2  
 SNDC 0.81 19 P 51 03.63 -0.5  
 MARC 0.86 317 P 51 03.73 -1.1  
 TMB 1.03 314 P 51 06.86 -1.0  
 WOFM 1.16 357 P 51 09.09 -1.0  
 WBSM 1.23 19 P 51 10.18 -1.1  
 CRGC 1.25 314 P 51 10.57 -1.1  
 WORM 1.36 13 P 51 13.06 -0.3  
 WASM 1.36 2 P 51 12.89 -0.7  
 WSHM 1.57 36 P 51 15.92 -0.4  
 NMC 1.58 22 P 51 17.20 0.6  
 VPEN 1.71 23 P 51 19.76 1.3  
 GSC 1.76 58 (P) 51 18.56 -0.7  
 WLHM 1.79 8 P 51 21.40 1.5  
 PAPM 2.72 305 P 51 29.54 -3.4  
 MTUM 2.97 1 ePg 51 41.77 5.1  
 TPNV 3.22 36 ePn 51 38.20 -1.9  
 BONR 3.58 4 ePg 51 53.30 7.8  
 TNP 3.87 17 ePg 51 58.23 8.7  
 23 obs. associated

& JAN 17, 1994 19h 54m 38.16s  
 34.305 N 118.454 W  
 DEPTH = 0.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS). Multiple event.

SSK 0.64 98 eP 54 55.73 4.8  
 eS 55 03.85  
 PLM 1.63 125 (P) 55 11.14 2.8  
 2 obs. associated

& JAN 17, 1994 19h 56m 41.14s  
 34.330 N 118.536 W  
 DEPTH = 1.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P> ML 3.4 (PAS), 3.4 (GS). Multiple event.

FTC 0.61 332 P 56 53.04 -0.4  
 SSK 0.71 99 eP 56 54.41 -0.9  
 RYS 0.74 295 P 56 55.97 0.0  
 ABL 0.77 313 eP 56 55.44 -1.0  
 PLEC 0.77 326 P 56 56.47 -0.1  
 BMTC 0.81 356 P 56 56.09 -1.1  
 ARVC 0.83 343 P 56 56.80 -0.9  
 TEJ 0.91 352 P 56 56.88 -2.4  
 MARC 0.94 316 P 56 59.27 -0.6  
 LPC 0.99 280 P 56 59.88 -0.8  
 TMB 1.12 313 P 57 02.44 -0.5  
 WOFM 1.21 353 P 57 04.01 -0.5  
 PEC 1.22 111 eP 57 02.50 -2.2  
 eS 57 19.30  
 WBSM 1.25 15 P 57 04.73 -0.5  
 CRGC 1.34 313 P 57 06.47 -0.2  
 WORM 1.38 10 P 57 06.82 -0.7  
 WASM 1.41 359 P 57 07.07 -0.8  
 BCH 1.53 304 eP 57 09.05 -0.7  
 WSHM 1.56 33 P 57 10.02 0.0  
 WCHM 1.59 14 P 57 09.72 -1.0  
 TOW 1.61 23 P 57 12.05 1.4  
 PLM 1.70 124 eP 57 11.14 -1.0  
 VPEN 1.72 20 P 57 13.72 1.3  
 WLHM 1.83 6 P 57 13.85 -0.3  
 MTUM 3.02 360 ePn 57 30.71 -0.3  
 MMPM 3.30 353 ePg 57 40.65 5.5  
 MRCM 3.33 0 ePg 57 41.72 6.1  
 MEMM 3.35 355 ePn 57 35.05 -0.5  
 BONR 3.62 3 ePn 57 39.45 -0.3  
 TNP 3.89 16 ePg 57 54.02 10.5  
 ARUT 5.38 49 ePn 58 03.68 -0.9  
 31 obs. associated



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 & JAN 17, 1994 19h 58m 48.76s  
 34.370 N 118.632 W  
 DEPTH = 11.6km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.6 (PAS), 3.7 (GS).

FTC	0.54	337 P	58	58.81	-1.0
ABL	0.68	315 eP	59	00.86	-1.4
PLEC	0.70	329 P	59	02.01	-0.4
ARVC	0.77	348 P	59	03.06	-0.6
SSK	0.79	101 eP	59	03.65	-0.5
SNDC	0.82	19 P	59	04.51	0.0
MARC	0.86	317 P	59	04.71	-0.5
TMB	1.03	314 P	59	07.69	-0.5
WOFM	1.16	357 P	59	09.81	-0.7
WBSM	1.23	19 P	59	11.06	-0.6
PEC	1.31	111 eP	59	11.13	-1.7
WORM	1.36	133 P	59	13.81	0.2
SCCM	1.39	295 P	59	12.78	-1.3
BCH	1.45	305 eP	59	13.71	-1.1
NMC	1.59	22 P	59	17.75	0.9
TOW	1.60	26 P	59	19.20	2.2
VPFM	1.71	23 P	59	20.20	1.5
PLM	1.79	124 eP	59	18.54	-1.3
WLHM	1.80	8 P	59	21.48	1.4
PHCM	1.96	314 P	59	20.88	-1.4
PHAM	2.06	316 eP	59	21.99	-1.6
PKEM	2.08	325 (P)	59	23.16	-0.7
PTV	2.44	316 P	59	27.23	-1.8
PAPM	2.72	305 P	59	30.20	-2.9
BHPR	2.93	2 P	59	42.27	6.1
MTUM	2.98	1 ePn	59	38.53	1.7
BPRM	3.25	310 P	59	37.90	-2.7
MMPM	3.25	354 ePn	59	41.01	0.1
MRCM	3.30	2 ePg	59	48.55	7.1
MEMM	3.30	356 ePg	59	48.30	7.1
DLI	3.47	316 P	59	41.00	-2.7
BONR	3.59	4 ePg	59	54.45	8.8
TNP	3.88	17 ePg	00	00.07	10.4
ARUT	5.41	49 ePn	00	11.81	0.4

34 obs. associated

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 & JAN 17, 1994 20h 02m 05.40s  
 34.408 N 118.559 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.8 (PAS), 4.0 (GS),  
 4.0 (BRK).

FTC	0.54	329 P	02	15.81	-0.3
ABL	0.70	309 eP	02	18.52	-0.9
ARVC	0.75	343 P	02	19.69	-0.7
SNDC	0.76	16 P	02	21.04	0.4
LPC	0.96	276 P	02	22.95	-1.6
TMB	1.05	310 P	02	25.67	-0.5
CRGC	1.27	311 P	02	29.00	-1.0
PEC	1.27	114 eP	02	27.94	-2.0
WORM	1.31	11 P	02	30.17	-0.5
BCH	1.48	302 eP	02	31.83	-1.5
WCHM	1.52	15 P	02	33.15	-1.1
NMC	1.53	20 P	02	33.61	-0.5
RCWM	1.71	26 P	02	37.72	1.0
PHAM	2.07	314 eP	02	39.72	-2.2
PKEM	2.08	323 eP	02	40.39	-1.6
PADM	2.26	304 P	02	41.95	-2.6
PARM	2.35	322 P	02	48.24	2.4
PANM	2.36	306 P	02	43.43	-2.7
PRI	2.44	316 eP	02	44.12	-3.2
PHCM	2.48	302 P	02	45.41	-2.4
FRI	2.74	340 eP	02	49.39	-2.1
		IS	03	23.55	
PAPM	2.74	304 P	02	48.49	-3.1
BHPR	2.89	1 P	02	57.09	3.3
BMSM	2.89	322 P	02	51.59	-2.1
MTUM	2.94	360 ePn	02	53.54	-0.9
BRMM	3.04	323 P	02	57.56	1.8
TPNV	3.16	36 eP	02	55.94	-1.5
MMPM	3.22	353 (Pn)	02	57.41	-1.1
MRCM	3.26	1 (Pn)	02	59.06	0.1
MEMM	3.27	355 ePn	02	58.06	-0.8
BPRM	3.27	309 P	02	56.32	-2.7
SAO	3.33	316 eP	02	56.52	-3.2
GLA	3.39	112 ePn	02	59.47	-1.3
BONR	3.55	3 ePn	03	02.55	-0.6
ARN	3.80	321 eP	03	05.03	-1.5
TNP	3.82	16 ePn	03	07.82	0.8

MHC	3.85	320 eP	03	09.69	2.3
CMB	3.91	338 eP	03	07.34	-0.8
CSTL	4.01	324 P	03	18.45	9.0
KVN	4.65	4 (Pn)	03	17.62	-1.1
ARUT	5.34	49 eP	03	28.59	0.0
ORV	5.65	336 (Pn)	03	30.75	-2.0
MSU	6.58	50 eP	03	45.44	-0.6
DUG	7.37	37 ePg	04	25.96	28.9
SRU	7.97	52 eP	04	04.96	-0.6

45 obs. associated

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 & JAN 17, 1994 20h 05m 27.47s  
 34.328 N 118.517 W  
 DEPTH = 1.9km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.8 (PAS), 3.8 (GS),  
 4.0 (BRK).

RYS	0.76	295 P	05	42.59	0.0
TEJ	0.91	351 P	05	43.20	-2.5
LPC	1.00	280 P	05	46.12	-1.2
WOFM	1.22	352 P	05	50.20	-0.7
WORM	1.38	9 P	05	53.72	-0.1
SCCM	1.50	295 P	05	54.81	-0.6
NMC	1.59	18 P	05	56.80	0.0
PMGM	1.98	304 P	06	00.98	-1.4
PHAM	2.16	315 eP	06	02.33	-2.6
PHBM	2.31	327 P	06	08.22	1.1
PANM	2.44	307 P	06	07.42	-1.6
PRI	2.52	316 eP	06	08.29	-2.0
PHCM	2.55	303 P	06	09.09	-1.5
PAPM	2.82	305 P	06	12.22	-2.3
FRI	2.83	340 iPd	06	12.73	-1.8
		eS	06	48.20	
SHG	3.05	314 P	06	15.46	-2.2
TPNV	3.20	35 eP	06	18.96	-1.0
BPOM	3.27	306 P	06	17.90	-2.8
MRCM	3.34	0 (Pn)	06	21.18	-0.8
BPRM	3.35	309 P	06	19.76	-2.2
SAO	3.41	316 eP	06	20.64	-2.1
DIL	3.57	315 P	06	22.63	-2.4
HCOM	3.64	315 P	06	24.46	-1.6
CBC	3.65	316 P	06	25.44	-0.7
JBZM	3.78	316 P	06	27.04	-1.0
JUCM	3.92	314 P	06	26.87	-3.2
CMB	4.00	338 eP	06	30.90	-0.2
DUG	7.41	36 ePg	07	46.23	26.8
SRU	8.00	51 P	07	48.70	21.0
PTI	9.79	28 P	08	21.10	28.6

30 obs. associated

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 & JAN 17, 1994 20h 08m 00.93s  
 34.310 N 118.455 W  
 DEPTH = 2.4km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.3 (PAS).

FTC	0.67	327 P	08	13.42	-0.8
ARVC	0.87	339 P	08	17.17	-1.2
TEJ	0.94	348 P	08	16.87	-2.7
MARC	1.00	314 P	08	19.44	-1.2
LPC	1.06	280 P	08	20.02	-1.6
TMB	1.18	311 P	08	23.00	-0.7
WOFM	1.24	350 P	08	23.84	-1.0
WBSM	1.25	12 P	08	24.19	-0.8
CRGC	1.40	312 P	08	26.65	-0.8
WSHM	1.54	31 P	08	29.77	0.3
WCHM	1.60	11 P	08	31.45	0.9
VPFM	1.72	18 P	08	32.60	0.5
WLHM	1.84	4 P	08	34.84	0.8

13 obs. associated

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 & JAN 17, 1994 20h 11m 49.35s  
 34.318 N 118.499 W  
 DEPTH = 2.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.7 (PAS), 3.7 (GS).

FTC	0.64	330 P	12	02.18	0.1
SSK	0.68	99 eP	12	02.22	-0.6
ABL	0.80	312 eP	12	04.58	-0.7
TEJ	0.92	350 P	12	05.34	-2.4
MARC	0.97	315 P	12	08.18	-0.4
PEC	1.19	111 eP	12	10.41	-1.9
WBSM	1.25	14 P	12	14.06	0.6
CRGC	1.37	313 P	12	15.07	-0.3
BCH	1.57	304 eP	12	18.70	0.4

NMC	1.60	18 P	12	18.62	-0.1
PLM	1.67	125 eP	12	18.63	-1.2
VPFM	1.72	19 P	12	20.54	-0.1
WLHM	1.84	5 P	12	25.70	3.3
PTRM	1.94	314 P	12	24.37	0.7
PHAM	2.17	315 eP	12	26.08	-1.0
PANM	2.46	307 P	12	29.70	-1.4
PSAM	2.59	312 P	12	32.11	-0.9
PAPM	2.84	305 P	12	34.64	-2.0
BMSM	2.99	322 P	12	38.00	-0.8
MTUM	3.03	359 (Pn)	12	38.12	-1.3
CWCR	3.17	3 P	12	49.54	8.1
BCWM	3.20	309 P	12	41.16	-0.6
TPNV	3.20	34 eP	12	40.31	-1.5
GLA	3.31	111 ePn	12	42.33	-1.0
MMPM	3.31	353 ePn	12	43.13	-0.4
MRCM	3.35	360 (Pn)	12	44.41	0.5
MEMM	3.36	354 ePn	12	44.22	0.3
BVYM	3.40	316 P	12	43.62	-0.9
SAO	3.43	316 eP	12	42.79	-2.1
DIL	3.59	315 P	12	45.49	-1.6
BONR	3.63	2 ePn	12	48.69	0.6
HCOM	3.66	315 P	12	46.79	-1.4
TNP	3.90	15 ePn	12	51.50	-0.3
		ePg	13	02.79	
CMB	4.01	338 ePn	12	51.74	-1.5
JSMM	4.15	315 P	12	53.50	-1.6
KVN	4.73	4 (Pn)	13	04.01	0.4
ARUT	5.36	48 eP	13	11.72	-0.8
MSU	6.60	49 ePn	13	29.44	-0.6
ULM	22.96	39 eP	16	58.00	2.0

39 obs. associated

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 & JAN 17, 1994 20h 17m 38.45s  
 34.332 N 118.515 W  
 DEPTH = 2.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.7 (PAS), 3.7 (GS).

FTC	0.62	330 P	17	50.30	-0.6
RYS	0.76	294 P	17	53.84	0.3
PLEC	0.78	324 P	17	53.82	-0.2
BMTG	0.80	355 P	17	53.29	-1.2
ARVC	0.83	342 P	17	54.04	-1.1
TEJ	0.91	351 P	17	54.06	-2.5
MARC	0.95	315 P	17	56.52	-0.8
LPC	1.00	280 P	17	57.09	-1.2
WJPM	1.08	1 P	17	58.61	-0.9
TMB	1.13	312 P	17	59.75	-0.7
WOFM	1.21	352 P	18	00.84	-1.0
WBSM	1.24	14 P	18	01.41	-1.0
CRGC	1.35	313 P	18	03.65	-0.5
SCCM	1.50	294 P	18	05.80	-0.6
WSHM	1.55	33 P	18	06.01	-1.1
TOW	1.60	22 P	18	09.65	1.8
PLM	1.69	125 eP	18	07.93	-1.3
VPFM	1.71	19 P	18	10.86	1.3
RCWM	1.76	24 P	18	12.26	2.0
WLHM	1.82	5 P	18	12.26	0.9
PHAM	2.15	315 eP	18	14.63	-1.3
TPNV	3.20	35 eP	18	29.74	-1.1
MMPM	3.30	353 (Pn)	18	32.18	-0.3
MRCM	3.33	0 (Pn)	18	32.25	-0.6
MEMM	3.35	354 (Pn)	18	38.72	5.9
SAO	3.41	316 eP	18	31.03	-2.7
CMB	3.99	338 eP	18	40.19	-1.9
MSU	6.60	49 (Pg)	19	36.86	17.7

28 obs. associated

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 & JAN 17, 1994 20h 23m 43.48s  
 34.311 N 118.465 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.0 (GS).

SSK	0.65	99 eP	23	55.75	-0.7
ABL	0.82	311 eP	23	58.04	-1.9
		eS	24	11.16	
PEC	1.16	111 eP	24	03.93	-2.2
		eS	24	19.68	
BCH	1.59	304 eP	24	11.30	-1.8
PLM	1.64	125 eP			



7 obs. associated				
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& JAN 17, 1994 20h 24m 37.83s				
34.345 N 118.427 W				
DEPTH = 0.1km				
SOUTHERN CALIFORNIA ( 43)				
<PAS-P>. ML 3.1 (PAS), 3.0 (GS).				
SSK	0.62	102 eP	24 49.64	-0.6
ABL	0.83	308 (P)	24 52.33	-2.0
PEC	1.14	113 eP	24 58.21	-2.0
		eS	25 14.12	
BCH	1.60	302 (P)	25 05.03	-2.5
PLM	1.64	127 (P)	25 05.71	-2.4
MTUM	3.00	358 (Pn)	25 26.30	-1.5
6 obs. associated				
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& JAN 17, 1994 20h 26m 58.59s				
63.282 N 151.150 W				
DEPTH = 6.4km				
CENTRAL ALASKA ( 1)				
<AEIC>. ML 2.5 (AEIC).				
KTH	0.29	21 iP	27 04.11	-0.4
		eS	27 08.70	
TRF	0.42	66 iP	27 06.78	-0.4
		eS	27 13.35	
HUR	0.75	113 eP	27 12.67	-0.9
CUT	0.97	155 eP	27 16.99	-0.3
RND	1.04	82 eP	27 17.59	-1.1
		eS	27 31.48	
MCK	1.09	65 eP	27 18.48	-1.0
BWN	1.17	39 eP	27 20.61	-0.1
SKT	1.32	188 eP	27 22.66	-0.6
NEA	1.59	34 eP	27 27.04	-0.2
DHY	1.73	95 eP	27 29.49	0.1
		eS	27 52.72	
PWA	1.74	160 eP	27 29.91	0.5
MLY	1.77	6 eP	27 31.04	1.2
WRH	1.81	47 eP	27 30.88	0.5
GHO	1.83	145 eP	27 30.29	-0.6
SUA	1.83	174 eP	27 31.28	0.3
PLRM	1.94	150 eP	27 31.82	-0.5
NCG	1.94	194 eP	27 31.74	-0.8
SML	1.97	137 eP	27 31.85	-1.0
CCB	2.01	46 eP	27 33.94	0.5
CGLM	2.02	192 eP	27 32.54	-1.1
CRP	2.08	194 eP	27 33.75	-0.7
CP2	2.09	195 eP	27 34.04	-0.7
BGL	2.11	197 eP	27 34.48	-0.4
MDM	2.12	36 eP	27 36.04	1.1
		eS	28 03.23	
CKN	2.12	194 eP	27 35.05	0.0
CKT	2.15	194 eP	27 34.73	-0.7
SPU	2.15	192 eP	27 34.46	-1.0
HDA	2.17	57 eP	27 36.59	0.8
FBA	2.19	41 eP	27 36.95	0.9
TTA	2.24	263 eP	27 36.81	0.0
KNK	2.26	145 eP	27 36.66	-0.3
BKG	2.28	194 eP	27 36.60	-0.8
GLM	2.38	42 eP	27 37.54	-1.2
ILB	2.40	50 eP	27 39.87	0.9
TOA	2.58	115 eP	27 41.34	-0.3
CFI	2.64	142 eP	27 42.38	0.1
PWL	2.77	150 eP	27 44.44	0.2
DFR	2.80	196 eP	27 44.69	0.0
SLKM	2.82	171 eP	27 43.55	-1.4
NCT	2.86	198 eP	27 45.27	-0.3
RDW	2.92	196 eP	27 47.90	1.4
RS2	2.93	196 eP	27 48.13	1.4
IM3	2.93	339 eP	27 44.36	-2.2
KLU	3.03	124 eP	27 47.92	0.0
44 obs. associated				
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& JAN 17, 1994 20h 31m 59.16s				
34.323 N 118.440 W				
DEPTH = 1.5km				
SOUTHERN CALIFORNIA ( 43)				
<PAS-P>. ML 3.0 (PAS), 3.2 (GS).				
ABL	0.83	309 eP	32 13.85	-1.9
GSC	1.66	54 eP	32 29.45	-0.1
TPNV	3.17	34 (P)	32 52.57	1.3
MMPM	3.31	352 (Pn)	32 51.03	-2.5
		ePg	32 58.93	
4 obs. associated				
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& JAN 17, 1994 20h 38m 24.34s				
34.310 N 118.458 W				
DEPTH = 2.5km				
SOUTHERN CALIFORNIA ( 43)				
<PAS-P>. ML 3.4 (PAS), 3.8 (GS).				
SSK	0.64	99 eP	38 36.40	-0.8
FTC	0.66	328 P	38 36.77	-0.8
RYS	0.81	295 P	38 39.11	-1.4
PLEC	0.83	323 P	38 40.02	-0.8
ABL	0.83	311 eP	38 39.22	-1.7
ARVC	0.87	340 P	38 40.54	-1.2
TEJ	0.94	348 P	38 40.25	-2.7
MARC	1.00	314 P	38 42.62	-1.4
LPC	1.05	281 P	38 43.18	-1.8
WJPM	1.10	359 P	38 44.66	-1.1
PEC	1.15	111 eP	38 44.87	-1.8
TMB	1.18	311 P	38 45.82	-1.3
WOFM	1.24	350 P	38 47.14	-1.0
WBSM	1.25	12 P	38 47.38	-1.1
WORM	1.39	7 P	38 49.38	-1.4
CRGC	1.40	312 P	38 49.09	-1.7
WASM	1.43	357 P	38 50.34	-1.0
SCCM	1.55	294 P	38 51.79	-1.2
BCH	1.60	304 eP	38 51.72	-2.0
TOW	1.60	21 P	38 52.34	-1.4
WCHM	1.60	11 P	38 52.29	-1.6
PLM	1.64	125 eP	38 51.29	-3.1
RCWM	1.77	22 P	38 53.86	-2.3
WLHM	1.84	4 P	38 56.27	-1.2
PAGM	2.04	314 P	39 01.00	0.9
PHAM	2.20	314 eP	39 01.80	-0.6
MTUM	2.21	323 eP	38 58.89	-3.6
TPNV	3.04	358 ePn	39 13.78	-0.7
GLA	3.19	34 eP	39 12.84	-3.7
MMPM	3.28	111 (Pn)	39 16.52	-1.2
MRCM	3.33	352 ePn	39 17.09	-1.6
	3.35	359 (Pn)	39 17.15	-1.9
		ePg	39 25.14	
MEMM	3.37	353 ePn	39 18.19	-0.8
BONR	3.64	2 ePn	39 22.19	-0.9
TNP	3.90	15 ePn	39 26.25	-0.4
		ePg	39 36.24	
ARN	3.93	321 eP	39 23.78	-3.2
CMB	4.03	338 eP	39 26.49	-1.9
KVN	4.74	3 (Pn)	39 36.75	-1.9
		ePg	39 50.73	
ARUT	5.34	48 eP	39 46.48	-0.7
MSU	6.58	49 ePg	40 24.38	19.7
DUG	7.40	36 ePg	40 43.66	27.6
SRU	7.97	51 (Pn)	40 22.61	-1.5
42 obs. associated				
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& JAN 17, 1994 20h 39m 38.69s				
34.291 N 118.482 W				
DEPTH = 2.9km				
SOUTHERN CALIFORNIA ( 43)				
<PAS-P>. ML 3.7 (PAS).				
SSK	0.66	97 (P)	39 50.86	-1.0
ABL	0.83	313 eP	39 53.26	-1.9
PEC	1.17	110 (P)	39 59.25	-1.9
PLM	1.64	124 eP	40 06.40	-2.3
TPNV	3.22	34 (P)	40 29.91	-1.3
ORV	5.78	336 (P)	41 06.52	-1.0
DUG	7.43	36 (P)	41 30.10	-0.6
7 obs. associated				
-----				
& JAN 17, 1994 20h 44m 46.98s				
34.329 N 118.435 W				
DEPTH = 1.2km				
SOUTHERN CALIFORNIA ( 43)				
<PAS-P>. ML 3.1 (PAS), 3.1 (GS).				
SSK	0.63	101 ePc	44 58.89	-0.6
PEC	1.14	112 eP	45 07.24	-2.0
		eS	45 22.86	
GSC	1.66	54 eP	45 15.96	-1.4
TPNV	3.16	34 ePn	45 37.64	-1.3
BONR	3.62	2 ePn	45 45.79	0.2
		ePg	45 53.17	
5 obs. associated				
-----				
& JAN 17, 1994 20h 46m 02.39s				
34.301 N 118.565 W				
DEPTH = 9.5km				
4.7mb ( 17 obs.) 4.8MsZ ( 4 obs.)				

SOUTHERN CALIFORNIA					( 43)
<PAS-P>. ML 4.9 (PAS), 5.1 (GS),					
5.2 (BRK). Mo=4.0*10**16 Nm					
(BRK). Felt.					
SSK	0.73	97	eP	46 15.86	-1.0
ABL	0.77	316	iPc	46 16.26	-1.4
PLEC	0.78	328	P	46 17.18	-0.6
TMB	1.12	315	P	46 22.88	-0.6
PEC	1.23	109	iPc	46 23.92	-1.5
BCH	1.53	306	iPc	46 28.69	-1.3
WSHM	1.59	33	P	46 29.68	-1.1
PLM	1.70	123	eP	46 30.71	-1.8
GSC	1.76	55	eP	46 32.46	-0.8
WLHM	1.86	6	P	46 34.49	-0.4
PMGM	1.96	306	P	46 34.25	-1.9
PHAM	2.15	316	eP	46 37.09	-1.7
PKEM	2.16	325	eP	46 37.85	-1.2
PHBM	2.31	328	P	46 40.08	-1.0
PDRM	2.51	325	P	46 47.36	3.4
PSAM	2.57	313	P	46 42.41	-2.3
MTUM	3.05	0	eP	46 51.76	0.0
BAPM	3.14	307	P	46 49.88	-3.1
TPNV	3.25	35	ePn	46 52.96	-1.6
MMFM	3.32	354	eP	46 55.99	0.1
ORC	3.33	359	P	46 56.88	1.0
BPRM	3.33	310	P	46 52.36	-3.4
BSLM	3.35	318	P	46 54.47	-1.5
MRCM	3.36	1	eP	46 56.90	0.6
MEMM	3.37	355	eP	46 56.78	0.6
SAO	3.40	317	ePn	46 53.04	-3.6
SFL	3.54	320	P	46 56.45	-2.1
DIL	3.56	316	P	46 55.88	-3.0
HCOM	3.64	316	P	46 58.09	-1.9
CBO	3.79	319	P	46 59.59	-2.5
JTGM	3.83	316	P	46 59.99	-2.7
ARN	3.88	322	eP	47 00.51	-3.0
COE	3.88	320	eP	47 01.02	-2.5
AMC	3.91	318	P	47 01.44	-2.3
TNP	3.93	16	eP	47 04.05	-0.2
MHC	3.93	321	ePc	47 00.88	-3.4
CMB	4.01	339	ePc	47 03.40	-1.8
			eS	48 02.24	
JSMM	4.13	316	P	47 03.45	-3.4
LT3	4.19	316	P	47 04.13	-3.6
STAN	4.26	318	eP	47 05.84	-3.0
SFT	4.27	318	P	47 06.55	-2.3
BGH	4.31	316	P	47 06.01	-3.6
CCYM	4.32	320	P	47 07.23	-2.5
JHFM	4.36	317	P	47 07.40	-2.9
LKC	4.45	321	P	47 09.23	-2.3
JCHM	4.46	317	P	47 08.35	-3.2
CSLM	4.47	321	P	47 10.64	-1.1
JEGM	4.50	317	eP	47 08.63	-3.6
CMCM	4.54	321	P	47 08.88	-3.9
JSBM	4.58	318	P	47 10.30	-3.1
BKS	4.64	321	ePc	47 10.85	-3.4
			eS	48 11.84	
HMR	4.65	327	eP	47 12.38	-2.0
CPIM	4.72	322	P	47 13.96	-1.4
KVN	4.76	4	eP	47 15.79	-0.3
GVR	4.95	324	P	47 15.90	-2.6
APRM	5.04	336	P	47 18.88	-1.0
NTYM	5.25	322	eP	47 19.62	-3.2
ARUT	5.42	49	eP	47 24.88	-0.5
AOHM	5.50	338	P	47 27.62	1.1
GAXM	5.55	324	P	47 23.12	-3.9
FTR	5.61	320	P	47 23.93	-4.1
SKG	5.67	322	P	47 25.50	-3.2
GHCM	5.69	320	P	47 25.51	-3.6
ORV	5.75	337	ePc	47 26.64	-3.2
MIN	6.50	339	ePc	47 39.72	-0.9
MSU	6.65	49	eP	47 42.69	-0.1
LMEM	6.67	340	(P)	47 41.95	-1.1
TUC	6.81	105	eP	47 42.86	-2.1
ELK	6.95	21	eP	47 46.38	-0.7
WDC	7.02	334	eP	47 43.99	-3.8
LGPM	7.42	334	eP	47 50.97	-2.5
DUG	7.46	36	eP	47 54.05	0.0
LBFM	7.51	340	eP	47 53.65	-1.2
KMPM	7.54	326	eP	47 53.21	-1.9
FHC	7.79	328	eP	47 57.06	-1.5
SRU	8.04	51	eP	48 03.29	1.0
DAU	8.43	42	eP	48 09.27	1.5
PV09	8.68	58	eP	48 10.63	-0.7
PV10	8.69	59	eP	48 11.23	-0.2
HVU	8.75	30	(P)	48 14.00	1.9



17d 20h

PV08 9.06 59 (P) 48 17.23 0.7  
 PTI 9.83 28 (P) 48 25.09 -1.9  
 ALQ 10.00 83 eP 48 28.43 -1.0  
 VGB 11.33 352 (P) 48 46.74 -0.6  
 MCMT 11.40 21 eP 48 52.00 3.5  
 GOL 11.84 59 eP 48 54.09 -0.5  
 GLD 11.97 59 (P) 48 54.43 -1.8  
 SHW 12.20 348 (P) 48 57.49 -1.8  
 LRM 12.42 20 eP 49 03.50 1.2  
 LON 12.68 350 eP 49 05.72 0.2  
 RMW 13.37 350 (P) 49 11.76 -3.0  
 DPW 13.56 1 (P) 49 18.85 1.6  
 LTX 13.60 107 (P) 49 18.12 0.2  
 GMW 13.61 348 (P) 49 17.34 -0.5  
 NEW 13.99 4 eP 49 22.24 -0.7  
 RSSD 0.9s 12.45nm 4.7mb  
 14.91 45 eP 49 35.19 0.0  
 1.8s 97.12nm 5.0mb  
 ACO 16.00 76 iPd 49 54.20 5.1  
 MEO 16.47 83 iPd 49 58.00 2.8  
 UYO 19.93 84 iPd 50 42.10 4.9  
 FVM 22.98 73 eP 51 07.28 -0.9  
 0.8s 15.27nm 4.6mb  
 ULM 23.01 39 eP 51 10.00 1.7  
 ELC 23.94 74 (P) 51 15.69 -1.8  
 YKA 28.32 4 eP 51 56.40 -1.7  
 0.6s 1.60nm 4.0mb  
 PMR 33.54 334 eP 52 42.18 -1.9  
 1.0s 37.28nm 5.3mb  
 CP2 34.51 332 (P) 52 51.28 -1.5  
 FBA 35.36 339 (P) 52 56.68 -3.1  
 1.1s 7.56nm 4.5mb  
 SVW 35.79 330 eP 53 02.30 -1.2  
 0.9s 18.30nm 4.9mb  
 TTA 36.92 332 eP 53 11.58 -1.4  
 1.0s 11.15nm 4.6mb  
 IMA 37.96 338 eP 53 20.24 -1.6  
 0.8s 7.93nm 4.5mb  
 MBC 42.03 360 eP 53 56.50 1.4  
 1.0s 17.00nm 4.7mb  
 RES 42.07 9 eP 53 55.00 -0.5  
 1.0s 4.00nm 4.1mb  
 FRB 42.35 30 eP 53 58.00 0.1  
 1.0s 8.00nm 4.4mb  
 DAG 59.11 15 iPd 56 02.50 -2.4  
 0.7s 4.11nm 4.7mb  
 YAK 69.50 332 iPd 57 11.30 -1.5  
 1.4s 32.00nm 5.3mb  
 LPAZ 69.51 128 P 57 11.60 -2.6  
 LPB 69.71 128 P 57 12.00 -3.2  
 SIV 74.08 122 P 57 38.50 -2.3  
 MAT 79.63 307 eP 58 10.00 -1.6  
 SSF 83.75 36 eP 58 33.30 0.4  
 LOR 83.77 35 eP 58 33.50 0.4  
 1.3s 20.95nm 5.2mb  
 Z 23s 0.35um 4.7MsZ  
 BGF 83.79 36 eP 58 33.40 0.3  
 1.1s 17.10nm 5.2mb  
 AVF 83.87 36 eP 58 33.80 0.3  
 HAU 84.41 34 eP 58 36.60 0.3  
 Z 19s 0.43um 4.8MsZ  
 MOX 84.69 29 eP 58 38.00 0.4  
 Z 20s 0.40um 4.8MsZ  
 CLL 84.73 28 eP 58 38.00 0.3  
 GRF 85.27 30 eP 58 45.10 4.6  
 Z 20s 0.50um 4.9MsZ  
 IRK 86.00 335 eP 58 43.00 -1.1  
 1.5s 18.00nm 5.0mb  
 Z 19s 0.23um 4.6MsZ  
 e 58 59.30  
 WRA 114.78 262 PKP 04 44.00 -1.4  
 0.9s 0.50nm  
 SLR 150.15 82 ePKP 05 56.10 5.8  
 0.8s 11.19nm  
 129 obs. associated

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& JAN 17, 1994 20h 50m 23.05s  
 34.347 N 118.490 W  
 DEPTH = 1.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 3.9 (GS).

FTC 0.62 328 P 50 34.93 -0.5  
 SSK 0.67 101 ePc 50 35.81 -0.7  
 RYS 0.77 293 P 50 38.54 0.1  
 ABL 0.78 310 eP 50 37.72 -1.0  
 ARVC 0.83 340 P 50 38.60 -1.0

TEJ 0.90 349 P 50 38.54 -2.4  
 MARC 0.96 313 P 50 41.50 -0.6  
 LPC 1.02 279 P 50 42.04 -1.3  
 TMB 1.13 311 P 50 44.52 -0.7  
 PEC 1.19 112 ePc 50 44.03 -2.1  
 WBSM 1.22 14 P 50 45.72 -1.0  
 CRGC 1.35 312 P 50 47.97 -1.0  
 WORM 1.36 9 P 50 48.49 -0.6  
 SCCM 1.51 294 P 50 50.34 -1.0  
 BCH 1.56 303 eP 50 50.75 -1.3  
 NMC 1.57 18 P 50 51.88 -0.3  
 WCHM 1.57 12 P 50 51.25 -1.2  
 PLM 1.68 126 eP 50 50.69 -3.2  
 RCWM 1.74 23 P 50 55.93 1.2  
 WLHM 1.81 5 P 50 56.59 0.7  
 PAGM 2.00 314 P 50 57.86 -0.5  
 MTUM 3.00 359 (P) 51 15.43 2.6  
 HTRC 3.18 356 P 51 12.60 -3.0  
 MMPM 3.29 353 ePn 51 15.17 -1.8  
 MRCM 3.32 360 (Pn) 51 16.36 -1.0  
 BPRM 3.35 309 P 51 14.96 -2.8  
 DIL 3.57 315 P 51 17.90 -2.9  
 CBC 3.65 316 P 51 25.13 3.3  
 CMB 3.99 338 eP 51 26.41 -0.3  
 29 obs. associated

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& JAN 17, 1994 20h 57m 42.31s  
 34.513 N 118.546 W  
 DEPTH = 2.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 2.8 (GS).

ABL 0.65 301 eP 57 53.85 -1.5  
 SSK 0.77 113 eP 57 52.64 -5.0  
 PEC 1.30 118 eP 58 00.87 -6.3  
 BCH 1.43 298 eP 58 07.03 -2.3  
 GSC 1.63 61 eP 58 08.83 -3.4  
 MTUM 2.83 360 (Pn) 58 28.97 -0.6  
 TPNV 3.07 37 ePn 58 29.85 -2.9  
 7 obs. associated

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& JAN 17, 1994 21h 02m 23.34s  
 34.283 N 118.452 W  
 DEPTH = 8.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.2 (GS).

SSK 0.63 96 eP 02 34.96 -1.1  
 PEC 1.14 110 eP 02 43.11 -1.8  
 PLM 1.62 125 eP 02 50.36 -2.0  
 GSC 1.69 53 eP 02 51.99 -1.4  
 PHAM 2.22 315 eP 02 59.92 -1.1  
 TPNV 3.21 33 (P) 03 22.45 7.3  
 MMPM 3.35 352 (Pn) 03 15.00 -2.3  
 MEMM 3.40 353 (Pn) 03 16.67 -1.0  
 8 obs. associated

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& JAN 17, 1994 21h 16m 36.15s  
 34.285 N 118.570 W  
 DEPTH = 12.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS).

ABL 0.78 317 eP 16 50.05 -1.3  
 BCH 1.54 306 eP 17 02.71 -0.8  
 PLM 1.70 123 eP 17 04.25 -1.7  
 GSC 1.77 55 eP 17 06.53 -0.4  
 MTUM 3.06 0 (Pn) 17 23.94 -1.4  
 BONR 3.67 3 ePn 17 32.25 -1.9  
 6 obs. associated

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? JAN 17, 1994 21h 18m 43.98± 9.16s  
 40.473 N ±17.6km 127.564 W ±72.6km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF NORTHERN CALIFORNIA (34)

KSMM 2.61 95 P 19 25.98 -1.0  
 KMPM 2.63 90 eP 19 26.95 -0.3  
 FHC 2.74 82 (P) 19 27.99 -0.9  
 eSg 19 56.24  
 KCRM 2.86 90 P 19 31.34 0.8  
 KBSM 3.09 99 P 19 33.80 0.0  
 KCPM 3.16 103 P 19 34.79 0.0  
 KOMM 3.22 74 P 19 37.27 1.6  
 KSPM 3.26 106 P 19 36.40 0.1  
 GNAM 3.29 112 P 19 36.29 -0.2  
 GHOM 3.41 113 P 19 38.14 -0.2

LGPM 3.63 82 eP 19 40.31 -1.2  
 GDGM 3.75 116 P 19 43.47 0.3  
 GHLM 3.78 111 P 19 43.59 -0.1  
 WDC 3.83 87 eP 19 43.46 -0.8  
 GHCM 3.86 118 P 19 44.36 -0.3  
 GMKM 3.98 111 P 19 47.66 1.3  
 GTSM 3.99 105 P 19 47.41 0.8  
 NTBM 4.22 120 P 19 49.72 -0.1  
 NCFM 4.27 119 P 19 50.25 -0.3  
 SNT 4.58 118 P 19 54.18 -0.6  
 AGC 4.77 122 P 19 57.56 0.0  
 MGA 4.87 124 P 19 58.59 -0.4  
 JSBM 4.89 123 P 19 59.00 -0.3  
 SAC 4.94 124 P 20 00.15 0.2  
 JEGM 4.95 125 eP 19 59.18 -1.0X  
 COE 5.61 123 eP 20 07.88 -1.6X  
 ARN 5.64 122 eP 20 08.44 -1.6X  
 CMB 6.08 111 (P) 20 15.40 -0.7X  
 BONR 7.62 106 (Pn) 20 39.33 1.4  
 S.D. = 0.7 on 25 of 29 obs.

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% JAN 17, 1994 21h 26m 36.20± 0.67s  
 26.831 S ± 5.7km 26.773 E ± 8.3km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.6 (PRE).

BFS 0.07 171 iPd 26 38.30 0.3  
 S 26 39.50  
 KSR 0.97 7 eP 26 55.50 0.3  
 S 27 09.00  
 SWZ 1.34 255 eP 27 01.30 -0.2  
 S 27 19.20  
 SEK 1.67 153 eP 27 06.10 -0.3  
 S 27 26.90  
 SLR 1.74 51 iPd 27 07.10 -0.3  
 S 27 27.00  
 BLF 2.33 193 eP 27 16.00 0.1  
 S 27 44.00  
 S.D. = 0.3 on 6 of 6 obs.

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& JAN 17, 1994 21h 27m 03.23s  
 34.285 N 118.450 W  
 DEPTH = 9.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 3.0 (GS).  
 Double event.

SSK 0.63 97 eP 27 14.94 -1.0  
 ABL 0.85 312 eP 27 17.95 -1.9  
 PEC 1.14 110 eP 27 23.36 -1.3  
 PLM 1.62 125 eP 27 30.77 -1.3  
 TPNV 3.21 33 ePn 27 53.57 -1.3  
 5 obs. associated

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\* JAN 17, 1994 21h 28m 41.15± 1.27s  
 34.353 N ±14.4km 118.642 W ±11.9km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.0 (GS).

ABL 0.69 316 eP 28 55.03 0.1  
 eS 29 06.01  
 SSK 0.80 100 eP 28 57.18 0.4  
 PEC 1.31 110 eP 29 05.34 -0.1  
 PLM 1.79 123 (P) 29 12.23 -0.2  
 TPNV 3.24 36 ePn 29 33.02 -0.2  
 S.D. = 0.3 on 5 of 5 obs.

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JAN 17, 1994 21h 34m 01.01± 1.04s  
 34.244 N ±11.9km 118.663 W ± 8.2km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.0 (GS).

ABL 0.76 323 eP 34 15.55 -0.5  
 SSK 0.80 92 eP 34 16.09 -0.7  
 PEC 1.30 105 (P) 34 25.16 0.1  
 BCH 1.50 309 eP 34 28.41 0.3  
 PLM 1.74 120 eP 34 31.78 0.1  
 GSC 1.86 55 (P) 34 33.93 0.7  
 MTUM 3.10 1 ePg 34 58.27 7.2X  
 TPNV 3.34 35 ePn 34 54.36 -0.1  
 MEMM 3.42 356 ePg 35 03.50 8.1X  
 BONR 3.71 4 ePg 35 09.29 9.3X  
 S.D. = 0.6 on 7 of 10 obs.



17d 21h

& JAN 17, 1994 21h 34m 52.97s  
34.298 N 118.479 W  
DEPTH = 9.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.2 (GS).

ABL	0.82	312	eP	35	07.25	-1.9
PEC	1.17	110	eP	35	13.45	-1.4
BCH	1.59	304	eP	35	16.70	-4.7
PLM	1.64	125	(P)	35	20.79	-1.5
GSC	1.70	54	(P)	35	21.49	-1.6
MTUM	3.05	359	(Pn)	35	39.65	-2.7
TPNV	3.21	34	eP	35	43.39	-1.3
GLA	3.29	111	(P)	35	44.22	-1.5
MMPM	3.33	352	(Pn)	35	43.07	-3.6
MRCM	3.37	360	eP	35	53.87	6.9
MEMM	3.38	354	(P)	35	43.21	-3.7
BONR	3.65	2	(Pn)	35	47.97	-3.1
			ePg	35	59.58	
KVN	4.75	4	ePg	36	17.84	11.2
ARUT	5.37	48	(P)	36	15.03	-0.3

14 obs. associated

& JAN 17, 1994 21h 46m 45.64s  
34.344 N 118.602 W  
DEPTH = 1.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).

ABL	0.72	315	ePc	46	59.02	-1.0
SSK	0.76	100	eP	47	00.07	-0.8
PEC	1.28	110	eP	47	08.67	-1.5
			eS	47	25.89	
BCH	1.48	305	eP	47	11.77	-1.8
PLM	1.75	124	eP	47	16.33	-1.2
GSC	1.76	57	eP	47	16.44	-1.1
MTUM	3.00	1	ePg	47	40.11	4.6
TPNV	3.23	36	ePn	47	37.45	-1.2
MMPM	3.28	354	ePg	47	44.69	5.2
MEMM	3.33	355	ePg	47	46.09	6.2
BONR	3.61	4	ePg	47	52.16	8.0
TNP	3.89	16	(P)	47	54.90	6.7

12 obs. associated

& JAN 17, 1994 21h 49m 18.15s  
34.323 N 118.449 W  
DEPTH = 8.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK	0.64	100	eP	49	29.43	-1.5
ABL	0.83	310	eP	49	32.56	-1.9
PEC	1.15	112	(P)	49	36.88	-3.0
			eS	49	53.78	
BCH	1.60	303	eP	49	45.26	-1.5
GSC	1.67	54	eP	49	47.65	-0.2
MTUM	3.03	358	ePg	50	13.31	6.0
TPNV	3.17	34	(Pn)	50	10.00	0.6
MEMM	3.36	353	ePg	50	19.39	7.5
BONR	3.63	2	ePg	50	24.50	8.5

9 obs. associated

& JAN 17, 1994 21h 52m 05.48s  
34.336 N 118.629 W  
DEPTH = 1.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.8 (GS).

ABL	0.71	317	eP	52	18.33	-1.3
SSK	0.79	99	eP	52	19.99	-1.2
PEC	1.30	110	eP	52	27.64	-2.7
BCH	1.47	306	eP	52	30.69	-2.5
GSC	1.78	57	eP	52	35.65	-2.1
TPNV	3.25	36	ePn	52	55.57	-3.2
MMPM	3.28	354	(Pn)	52	57.36	-2.0
BONR	3.62	4	(Pn)	53	02.57	-1.6
			ePg	53	10.73	

8 obs. associated

% JAN 17, 1994 21h 55m 28.96± 0.70s  
31.592 S ± 6.5km 117.124 E ± 6.9km  
DEPTH = 10.0km (geophysicist)  
WESTERN AUSTRALIA (590)

KLB	0.54	90	iPd	55	40.60	0.7
	0.2s	22.00nm				
			iS	55	47.90	

MUN	0.87	243	iPd	55	45.10	-0.6
			iS	55	55.80	
BAL	1.05	340	eP	55	49.50	0.8
	0.2s	24.00nm				
			eS	56	02.30	

NWAO	1.33	176	eP	55	53.10	-0.5
			eS	56	10.50	
MRWA	2.56	337	eP	56	10.80	-0.4
			eS	56	41.50	
RKG	2.97	182	eP	56	18.20	1.2
			eS	56	56.00	
COOL	3.52	79	eP	56	23.50	-1.3
			eS	57	19.00	

S.D. = 1.1 on 7 of 7 obs.

& JAN 17, 1994 21h 56m 32.36s  
34.348 N 118.474 W  
DEPTH = 0.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 3.0 (GS).

ABL	0.79	309	ePd	56	47.10	-1.1
BCH	1.57	303	eP	57	00.33	-1.2
GSC	1.67	55	eP	57	02.76	-0.2
MTUM	3.00	359	(Pn)	57	22.40	0.2
MMPM	3.29	352	(Pn)	57	26.93	0.6
			ePg	57	31.50	
TNP	3.86	15	ePg	57	44.46	10.0
ARUT	5.33	48	(Pn)	57	55.53	0.3
			ePg	58	11.45	

7 obs. associated

& JAN 17, 1994 21h 59m 42.05s  
34.308 N 118.414 W  
DEPTH = 2.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS).

ABL	0.86	309	eP	59	57.32	-2.1
BCH	1.63	303	eP	00	10.51	-1.4
GSC	1.65	53	eP	00	10.27	-2.0
MMPM	3.33	352	(Pn)	00	34.87	-1.7
			ePg	00	42.61	
ARUT	5.32	48	ePn	01	03.31	-1.3
			ePg	01	20.78	

5 obs. associated

\* JAN 17, 1994 22h 06m 46.53± 0.96s  
34.242 N ± 14.3km 118.491 W ± 8.7km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 3.1 (GS).

SSK	0.66	92	eP	06	59.83	0.0
ABL	0.86	315	eP	07	02.89	-0.3
			eS	07	15.66	
PEC	1.16	107	eP	07	08.46	0.3
			eS	07	24.01	
BCH	1.62	306	eP	07	15.59	0.3
PLM	1.62	123	eP	07	15.12	-0.3
GSC	1.74	52	(P)	07	17.10	0.0
MTUM	3.11	359	ePg	07	43.54	6.9X
MEMM	3.44	354	ePg	07	49.26	8.1X
BONR	3.71	2	ePg	07	55.04	9.7X
TNP	3.97	15	ePg	08	01.61	12.7X

S.D. = 0.3 on 6 of 10 obs.

JAN 17, 1994 22h 07m 41.98± 0.72s  
34.340 N ± 10.8km 118.484 W ± 7.2km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 3.6 (GS).

SSK	0.67	101	eP	07	55.17	-0.2
ABL	0.79	310	eP	07	57.19	-0.4
PEC	1.19	112	eP	07	57.43	-6.7X
BCH	1.56	303	eP	08	09.28	-0.7
PLM	1.67	126	(P)	08	11.43	-0.1
			eS	08	33.92	
GSC	1.68	55	(P)	08	11.88	0.2
PHAM	2.17	314	(P)	08	19.15	0.5
PKEM	2.17	323	(P)	08	19.87	1.2
MMPM	3.29	352	ePg	08	41.09	6.1X
GLA	3.31	112	(Pn)	08	35.21	0.3
MRCM	3.33	360	(Pn)	08	34.46	-0.8
			ePg	08	43.15	
SAO	3.42	316	(P)	08	35.59	-0.8

BONR	3.61	2	ePg	08	47.74	8.3X
TNP	3.87	15	ePg	08	54.88	11.8X
ARN	3.89	321	(P)	08	43.96	0.8

S.D. = 0.7 on 11 of 15 obs.

\* JAN 17, 1994 22h 09m 15.01± 1.21s  
34.328 N ± 19.3km 118.527 W ± 9.9km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.9 (GS).

SSK	0.70	99	eP	09	28.78	-0.2
			eS	09	39.85	
ABL	0.77	313	eP	09	30.27	0.0
PEC	1.21	111	eP	09	37.81	0.2
BCH	1.54	304	eP	09	42.62	0.0
GSC	1.72	55	(P)	09	45.27	0.1

S.D. = 0.2 on 5 of 5 obs.

& JAN 17, 1994 22h 10m 54.63s  
63.527 N 150.737 W  
DEPTH = 11.6km  
CENTRAL ALASKA (1)  
<AEIC>. ML 2.8 (AEIC).

KTH	0.09	288	iP	10	57.27	-0.2
			eS	11	00.07	
TRF	0.22	111	iP	10	59.59	0.0
			eS	11	03.43	
HUR	0.74	137	eP	11	08.56	-0.5
MCK	0.83	75	eP	11	11.16	0.6
			eS	11	22.31	
RND	0.85	97	eP	11	10.64	-0.4
BWN	0.86	40	eP	11	13.02	2.0
CUT	1.15	169	eP	11	15.80	-0.1
NEA	1.28	34	eP	11	17.02	-1.2
			eS	11	35.07	
WRH	1.50	50	eP	11	20.73	-0.7
MLY	1.51	360	eP	11	20.67	-0.9
			eS	11	42.49	
DHY	1.59	105	eP	11	23.77	1.0
SKT	1.59	194	eP	11	22.60	-0.2
CCB	1.71	48	eP	11	23.19	-1.2
MDM	1.81	36	eP	11	24.56	-1.3
			eS	11	50.00	
FBA	1.89	42	P	11	29.20	2.2
HDA	1.89	60	eP	11	29.44	2.4
PWA	1.92	168	P	11	27.70	0.2
GHO	1.95	154	eP	11	27.76	-0.2
SML	2.05	146	eP	11	28.98	-0.4
GLM	2.07	43	eP	11	28.42	-1.3
SUA	2.07	180	eP	11	29.56	-0.2
			eS	11	59.01	
PLRM	2.08	158	eP	11	29.42	-0.3
PMR	2.08	158	eP	11	29.05	-0.7
IL1	2.10	52	eP	11	32.94	2.9
ILB	2.10	52	eP	11	33.39	3.3
DDM	2.19	81	eP	11	35.00	3.6
NCG	2.23	198	eP	11	31.27	-0.8
CGLM	2.30	195	eP	11	32.50	-0.6
CRP	2.36	197	eP	11	34.25	0.2
KNK	2.37	152	eP	11	34.61	0.6
			eS	12	06.99	
CP2	2.38	198	eP	11	33.92	-0.3
BGL	2.40	199	eP	11	35.18	0.7
CKN	2.41	197	eP	11	35.40	0.9
CKT	2.43	197	eP	11	35.67	0.8
SPU	2.43	195	eP	11	34.69	-0.2
PAX	2.45	101	eP	11	36.22	1.1
TTA	2.46	258	eP	11	37.38	2.1
TOA	2.54	122	P	11	36.70	0.4
BKG	2.57	197	eP	11	36.72	-0.1
CFI	2.73	148	eP	11	39.89	0.8
IM3	2.78	334	eP	11	38.59	-1.2
IMA	2.85	335	eP	11	38.84	-2.0
TZL	2.86	119	eP	11	43.29	2.4
PWL	2.90	156	eP	11	42.20	0.7
PRP	3.01	46	eP	11	41.91	-1.3
KLU	3.03	130	eP	11	44.46	1.2
SLKM	3.04	175	eP	11	44.29	0.8
DFR	3.09	198	eP	11	45.57	1.4
MPA	3.12	167	eP	11	46.33	1.8
NCT	3.15	200	eP	11	46.38	1.3
VZW	3.15	140	eP	11	45.67	0.6
REF	3.19	198	eP	11	46.08	0.4



17d 22h

SVW 3.33 225 (P) 11 49.02 1.4  
 FID 3.43 142 eP 11 49.44 0.5  
 HIN 3.72 146 eP 11 53.86 0.6  
 GLB 3.83 120 eP 11 54.95 0.1  
 CNPM 4.02 184 eP 11 58.74 1.3  
 BC3 4.07 93 eP 11 57.15 -0.9  
 PDB 4.10 205 eP 11 59.51 1.1  
 BM3 4.67 30 eP 12 03.65 -3.0  
 62 obs. associated

& JAN 17, 1994 22h 11m 05.95s  
 34.259 N 118.603 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>P. ML 3.5 (PAS), 3.6 (GS).

RYS 0.73 302 P 11 19.98 -0.5  
 SSK 0.76 93 eP 11 20.31 -0.7  
 ABL 0.78 319 eP 11 20.35 -1.2  
 LPC 0.95 285 P 11 23.35 -1.5  
 WJPM 1.15 5 P 11 27.42 -1.1  
 PEC 1.25 107 (P) 11 27.96 -2.2  
 WOFM 1.28 356 P 11 29.36 -1.3  
 WASH 1.48 1 P 11 33.90 -0.1  
 BCH 1.53 308 eP 11 32.93 -1.8  
 WCHM 1.68 15 P 11 37.20 0.2  
 TOW 1.69 24 P 11 38.49 1.5  
 PLM 1.71 121 eP 11 35.92 -1.4  
 VPBM 1.81 21 P 11 39.49 0.8  
 GSC 1.81 54 eP 11 39.73 1.0  
 WLHM 1.90 7 P 11 42.30 2.0  
 PHAM 2.16 317 eP 11 40.89 -2.8  
 PANM 2.42 309 P 11 44.22 -3.3  
 PAMP 2.80 307 P 11 49.18 -3.8  
 LRC 2.81 315 P 11 49.59 -3.5  
 MTUM 3.09 1 ePg 12 02.24 5.2  
 BPOM 3.25 308 P 11 55.18 -4.0  
 TPNV 3.30 35 ePn 11 57.99 -2.1  
 BPRM 3.34 311 P 11 56.97 -3.5  
 MMPM 3.36 354 ePn 11 57.28 -3.9  
 GLA 3.37 110 (Pn) 12 00.27 -0.7  
 MRCM 3.41 1 ePg 12 07.57 5.9  
 SAO 3.41 318 ePn 11 57.91 -3.6  
 MEMM 3.41 356 (Pn) 11 59.53 -2.0  
 DIL 3.57 317 P 12 00.24 -3.5  
 BONR 3.70 4 ePg 12 13.39 7.5  
 PEV 3.78 317 P 12 03.53 -3.2  
 TNP 3.98 16 ePn 12 08.52 -1.2  
 CMB 4.03 340 (P) 12 08.22 -2.2  
 33 obs. associated

JAN 17, 1994 22h 14m 08.23± 0.53s  
 34.272 N ± 5.6km 118.463 W ± 4.0km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.9 (GS).

SSK 0.64 95 eP 14 21.49 0.3  
 FTC 0.69 329 P 14 21.35 eS  
 RYS 0.82 297 P 14 24.59 0.3  
 ABL 0.85 313 iPc 14 24.23 -0.6  
 BMTC 0.87 353 P 14 24.44 -0.6  
 ARVC 0.91 341 P 14 25.78 0.2  
 TEJ 0.97 349 P 14 24.90 -1.9  
 MARC 1.03 315 P 14 27.98 0.3  
 LPC 1.06 283 P 14 28.32 0.1  
 PEC 1.15 109 eP 14 30.05 0.4  
 TMB 1.20 313 P 14 31.09 0.4  
 WOFM 1.28 351 P 14 32.86 0.8  
 WBSM 1.29 12 P 14 32.79 0.5  
 CRGC 1.42 313 P 14 34.43 0.3  
 SCCM 1.56 296 P 14 36.50 0.4  
 WSHM 1.57 30 P 14 36.97 0.7  
 BCH 1.62 305 eP 14 36.80 -0.2  
 PLM 1.62 124 eP 14 36.05 -1.0  
 S.D. = 0.7 on 18 of 18 obs.

JAN 17, 1994 22h 19m 22.27± 0.34s  
 34.304 N ± 3.5km 118.722 W ± 2.5km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 4.0 (GS).

QAL 0.44 1 P 19 31.29 -0.1  
 FTC 0.58 346 P 19 34.22 0.1  
 PVRC 0.62 152 P 19 35.50 0.7

ABL 0.68 323 iPc 19 36.32 0.4  
 PLEC 0.72 337 P 19 37.52 1.0  
 SSK 0.86 96 iPd 19 38.37 -0.5  
 MARC 0.86 324 P 19 39.86 1.0  
 SNDC 0.91 22 P 19 39.74 0.0  
 SS2 1.02 95 P 19 41.13 -0.5  
 CALC 1.02 38 P 19 40.77 -0.8  
 TMB 1.03 320 P 19 43.08 1.3  
 PKM 1.08 303 P 19 43.75 1.0  
 WOFM 1.23 0 P 19 45.04 -0.2  
 CRGC 1.25 319 P 19 46.49 1.0  
 WBSM 1.32 21 P 19 46.29 -0.5  
 SCCM 1.35 298 P 19 47.62 0.4  
 PEC 1.36 107 iPd 19 46.23 -1.0  
 BCH 1.42 308 eP 19 49.11 0.8  
 WASH 1.44 5 P 19 48.90 0.4  
 WORM 1.44 16 P 19 48.22 -0.3  
 MLL 1.50 98 P 19 50.84 1.5  
 YEG 1.52 318 P 19 50.13 0.5  
 WCHM 1.66 18 P 19 51.10 -0.7  
 WSHM 1.67 37 P 19 50.34 -1.4  
 NMC 1.68 23 P 19 52.70 0.9  
 TOW 1.69 27 P 19 51.54 -0.5  
 CLC 1.77 31 P 19 51.95 -1.2  
 VPBM 1.80 24 P 19 55.04 1.3  
 PLM 1.82 121 iPc 19 53.69 -0.3  
 PTRM 1.82 318 P 19 54.84 0.9  
 RCWM 1.86 28 P 19 53.88 -0.7  
 WLHM 1.87 10 P 19 56.22 1.3  
 EWC 1.98 100 P 19 57.52 1.4  
 PHAM 2.06 318 eP 19 57.33 0.0  
 PKEM 2.09 327 eP 19 59.14 1.4  
 CPM 2.10 93 P 19 58.84 0.9  
 PADM 2.21 308 P 19 59.31 -0.2  
 YAQ 2.28 119 P 20 01.77 1.2  
 PANM 2.32 310 P 20 00.55 -0.6  
 PRI 2.43 320 iP 20 02.48 -0.2  
 PRCM 2.49 322 P 20 03.76 0.2  
 SHH 2.54 92 P 20 03.34 -1.0  
 PULM 2.67 312 P 20 05.32 -0.8  
 BTW 2.70 319 P 20 06.21 -0.3  
 FRI 2.80 344 iP 20 07.15 -0.7  
 CO2 2.84 98 P 20 07.38 -1.1  
 SHG 2.95 316 P 20 09.02 -1.0  
 BHPR 2.99 4 P 20 17.31 6.4X  
 BAPM 3.03 309 P 20 10.22 -1.1  
 MTUM 3.05 2 eP 20 12.20 0.7  
 EKH 3.09 320 P 20 13.11 1.1  
 HTRC 3.22 359 P 20 21.59 7.4X  
 BPRM 3.23 311 P 20 12.76 -1.3  
 MMPM 3.31 356 eP 20 16.57 1.1  
 SAO 3.31 319 ePn 20 14.22 -1.0  
 TPNV 3.32 37 eP 20 14.54 -0.9  
 ORC 3.32 1 P 20 23.05 7.4X  
 FRP 3.33 318 P 20 14.63 -0.8  
 MEMM 3.36 357 ePn 20 18.47 2.7X  
 MRCM 3.36 3 ePg 20 22.38 6.2X  
 HJGM 3.41 318 P 20 15.71 -0.8  
 GLA 3.48 110 ePn 20 16.54 -1.0  
 BONR 3.66 5 ePn 20 23.34 2.9X  
 JRRM 3.68 319 P 20 19.43 -1.0  
 JTRM 3.74 318 P 20 20.46 -0.8  
 COE 3.80 322 ePn 20 21.91 -0.2  
 ARN 3.80 324 ePn 20 21.61 -0.6  
 MHC 3.85 323 eP 20 21.55 -1.4  
 CMB 3.96 341 eP 20 24.33 0.0  
 TNP 3.96 17 ePn 20 26.95 2.4X  
 KVN 4.76 6 ePn 20 38.47 2.5X  
 ARUT 5.51 49 ePn 20 47.07 0.5  
 MSU 6.75 50 ePn 21 05.19 1.2  
 DUG 7.53 37 (Pn) 21 14.92 0.0  
 ePg 21 42.52

SRU 8.14 52 (Pn) 21 25.13 1.6  
 S.D. = 0.9 on 67 of 75 obs.  
 & JAN 17, 1994 22h 21m 44.84s  
 34.339 N 118.464 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>P. ML 3.5 (PAS), 3.8 (GS).

FTC 0.64 326 P 21 57.22 -0.3  
 SSK 0.65 101 eP 21 54.90 -2.9  
 PLEC 0.80 322 P 22 00.69 -0.1  
 ABL 0.81 309 eP 22 00.08 -0.9  
 es 22 12.76

TEJ 0.91 348 P 22 00.49 -2.5  
 LPC 1.04 279 P 22 04.59 -1.0  
 TMB 1.16 311 P 22 06.75 -0.7  
 PEC 1.17 112 eP 22 06.05 -1.6  
 WOFM 1.21 350 P 22 07.63 -0.8  
 WBSM 1.22 12 P 22 08.35 -0.3  
 WASH 1.40 357 P 22 11.38 -0.3  
 SCCM 1.53 294 P 22 13.27 -0.3  
 NMC 1.57 17 P 22 15.03 0.9  
 WCHM 1.57 12 P 22 13.43 -0.9  
 BCH 1.58 303 eP 22 13.48 -0.8  
 PLM 1.66 126 eP 22 12.28 -3.2  
 WLHM 1.81 4 P 22 18.48 0.6  
 PMCM 2.09 312 P 22 20.50 -1.1  
 LRC 2.84 313 P 22 29.65 -2.7  
 BHPR 2.95 360 P 22 39.68 5.5  
 BMSM 2.99 321 P 22 34.93 0.4  
 MTUM 3.01 358 ePn 22 35.36 0.5  
 BRMM 3.15 323 P 22 35.82 -0.8  
 TPNV 3.17 34 (Pn) 22 36.74 -0.3  
 GLA 3.29 112 (P) 22 38.90 0.1  
 MMPM 3.30 352 eP 22 38.58 -0.5  
 MRCM 3.33 359 ePg 22 46.08 6.7  
 MEMM 3.34 354 (P) 22 43.47 4.1  
 BPRM 3.37 309 P 22 37.54 -2.4  
 SAO 3.43 316 ePn 22 38.80 -1.9  
 DIL 3.59 315 P 22 40.79 -2.2  
 BONR 3.61 2 eP 22 43.68 0.2  
 TNP 3.87 15 ePg 22 57.75 10.6  
 CMB 4.00 338 (P) 22 47.18 -1.7  
 34 obs. associated

& JAN 17, 1994 22h 24m 33.00s  
 34.339 N 118.541 W  
 DEPTH = 0.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>P. ML 3.5 (PAS), 3.6 (GS).

FTC 0.60 331 P 24 44.74 -0.3  
 SSK 0.71 100 eP 24 46.74 -0.5  
 ABL 0.76 313 eP 24 47.39 -0.8  
 PLEC 0.76 325 P 24 48.61 0.4  
 BMTC 0.80 357 P 24 47.80 -1.1  
 ARVC 0.82 343 P 24 47.58 -1.8  
 TEJ 0.90 352 P 24 48.64 -2.3  
 MARC 0.93 315 P 24 50.60 -1.0  
 WJPM 1.07 3 P 24 53.47 -0.6  
 TMB 1.11 313 P 24 54.04 -0.7  
 WOFM 1.20 353 P 24 56.00 -0.3  
 PEC 1.23 111 iPc 24 54.86 -1.9  
 WBSM 1.24 15 P 24 57.22 0.2  
 CRGC 1.33 313 P 24 57.77 -0.7  
 WORM 1.38 10 P 24 59.47 0.2  
 SCCM 1.47 295 P 24 59.40 -1.4  
 WSHM 1.55 33 P 25 01.08 -0.8  
 WCHM 1.59 14 P 25 03.78 1.2  
 TOW 1.60 23 P 25 04.36 1.8  
 GSC 1.72 56 eP 25 03.57 -0.8  
 MTUM 3.01 360 (Pn) 25 23.32 0.4  
 TPNV 3.20 35 ePn 25 24.40 -1.2  
 MMPM 3.29 353 ePg 25 33.23 6.2  
 GLA 3.35 111 eP 25 34.23 6.6  
 TNP 3.89 16 ePg 25 45.08 9.7  
 CMB 3.98 339 eP 25 34.81 -1.7  
 ARUT 5.38 49 ePg 26 12.86 16.3  
 27 obs. associated

JAN 17, 1994 22h 31m 52.10± 0.46s  
 34.334 N ± 5.9km 118.484 W ± 3.9km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 4.2 (GS).

SSK 0.67 100 (P) 32 03.79 -1.7  
 ABL 0.80 311 eP 32 07.90 0.2  
 PEC 1.18 112 eP 32 12.71 -1.5  
 VG2 1.48 109 P 32 18.63 -0.3  
 WWR 1.55 102 P 32 20.73 0.8  
 BCH 1.57 303 (P) 32 20.61 0.5  
 YEG 1.64 313 P 32 23.05 1.9  
 PLM 1.67 125 eP 32 20.53 -1.1  
 GSC 1.69 55 eP 32 21.56 -0.3  
 PSP 1.69 108 P 32 22.09 0.2  
 EWC 1.79 102 P 32 24.62 1.3  
 CPM 1.90 95 P 32 26.72 1.7  
 INS 1.94 101 P 32 27.45 1.8  
 INDC 1.94 105 P 32 27.69 2.2



17d 22h

LAQC	1.96	110	P	32	25.61	-0.1	PLM	1.64	126	eP	44	41.18	-2.0	CMB	4.03	338	eP	51	37.96	-1.2
PMGM	2.00	304	P	32	26.29	0.0	GSC	1.65	54	eP	44	41.63	-1.7	ARUT	5.35	48	(Pn)	51	57.57	-0.6
MECC	2.16	108	P	32	31.34	2.7X	MTUM	3.01	358	ePg	45	08.82	5.9	54 obs. associated						
PHAM	2.17	314	eP	32	28.43	-0.4	TPNV	3.16	34	(Pn)	45	04.12	-0.8	-----						
PKEM	2.18	323	(P)	32	28.54	-0.3	MMPM	3.30	352	ePg	45	12.95		& JAN 17, 1994 22h 57m 14.16s						
MIRC	2.20	114	P	32	31.52	2.3	MEMM	3.35	353	P	45	14.87	7.4	34.351 N 118.601 W						
CTM	2.20	317	P	32	31.94	2.6X	BONR	3.62	2	P	45	19.19	7.6	DEPTH = 7.2km						
PHBM	2.31	326	P	32	34.74	3.9X	TNP	3.87	14	ePg	45	26.34	11.3	SOUTHERN CALIFORNIA (43)						
SHH	2.35	93	P	32	31.94	0.5	12 obs. associated						<PAS-P>. ML 3.5 (PAS), 3.8 (GS).							
CBKC	2.35	127	P	32	32.02	0.7	-----						FTC	0.57	335	P	57	24.79	-0.9	
BATC	2.37	111	P	32	35.25	3.7X	& JAN 17, 1994 22h 45m 28.56s						ABL	0.71	314	eP	57	26.90	-1.6	
GRP	2.42	78	P	32	37.86	5.4X	34.440 N 118.529 W						eS 57 37.05							
PARM	2.44	322	P	32	38.08	5.4X	DEPTH = 0.3km						PLEC	0.73	328	P	57	28.00	-0.7	
PSMM	2.45	316	P	32	35.72	2.9X	SOUTHERN CALIFORNIA (43)						SSK	0.76	100	eP	57	28.16	-1.3	
PANM	2.46	307	P	32	32.88	0.0	<PAS-P>. ML 2.9 (PAS), 3.2 (GS).						TEJ	0.88	355	P	57	29.45	-1.9	
PRI	2.54	316	eP	32	35.46	1.4	ABL	0.70	306	eP	45	41.32	-1.3	MARC	0.89	317	P	57	30.37	-1.1
PHCM	2.57	302	P	32	34.09	-0.4	SSK	0.73	108	eP	45	42.89	-0.2	WJPM	1.06	5	P	57	33.45	-1.0
PRCM	2.59	318	P	32	36.64	1.8	PEC	1.26	115	eP	45	51.18	-1.7	WBSM	1.24	18	P	57	36.59	-1.1
IKP	2.60	130	P	32	39.36	4.4X	BCH	1.48	301	eP	45	55.70	-0.9	PEC	1.28	111	eP	57	36.07	-2.1
SUP	2.61	121	P	32	39.86	4.8X	GSC	1.66	58	(P)	45	58.42	-0.7	eS 57 53.24						
CO2	2.65	100	P	32	41.88	6.2X	PLM	1.76	128	eP	45	56.84	-3.8	CRGC	1.28	314	P	57	37.11	-1.2
YUH	2.72	127	P	32	41.06	4.4X	TPNV	3.12	36	ePn	46	18.61	-1.4	WASM	1.38	1	P	57	39.47	-0.6
PJLM	2.80	309	P	32	38.15	0.4	MMPM	3.19	353	ePg	46	25.41	4.2	BCH	1.48	305	eP	57	39.45	-1.8
FRI	2.83	340	iP	32	37.95	-0.2	MRCM	3.22	0	ePg	46	27.28	5.7	eS 57 58.62						
LTC	2.96	106	P	32	39.20	-0.8	9 obs. associated						WCHM	1.59	16	P	57	42.34	-0.7	
SHG	3.07	313	P	32	41.58	0.1	-----						TOW	1.61	25	P	57	42.45	-0.6	
TPNV	3.18	34	(P)	32	43.76	0.5	& JAN 17, 1994 22h 50m 35.42s						RCWM	1.78	26	P	57	44.50	-1.0	
BPOM	3.28	306	P	32	43.58	-1.0	34.310 N 118.473 W						PMCM	2.00	314	P	57	47.09	-1.6	
MMPM	3.30	352	(P)	32	44.48	-0.7	DEPTH = 4.9km						PHAM	2.09	316	eP	57	47.82	-2.2	
GLA	3.31	112	(P)	32	41.97	-3.0	SOUTHERN CALIFORNIA (43)						PKEM	2.11	325	(P)	57	48.92	-1.3	
MRCM	3.33	360	(P)	32	45.96	0.5	<PAS-P>. ML 3.5 (PAS), 3.6 (GS).						PANM	2.37	308	P	57	51.31	-2.7	
MEMM	3.35	354	(P)	32	46.04	0.6	GVRC	0.39	131	P	50	43.02	-0.3	PJLM	2.72	310	P	57	56.09	-2.9
BVYM	3.39	316	P	32	46.61	0.4	QAL	0.48	336	P	50	44.45	-0.6	BHPR	2.94	2	P	58	07.59	5.2
SAO	3.42	316	eP	32	46.17	-0.4	PVRC	0.56	171	P	50	45.68	-1.0	MTUM	3.00	1	ePn	58	03.00	-0.1
DIL	3.59	315	P	32	48.59	-0.3	SSK	0.65	99	eP	50	47.60	-0.9	BCWM	3.11	310	P	58	02.34	-2.3
BONR	3.62	2	ePn	32	48.15	-1.5	SBB	0.65	55	P	50	47.36	-1.2	TPNV	3.22	36	eP	58	04.92	-1.4
						ePg	33	06.05												
TNP	3.88	15	(Pn)	32	53.85	0.6	FTC	0.66	328	P	50	47.79	-0.8	BVYM	3.31	317	P	58	05.15	-2.3
ARN	3.90	321	eP	32	50.86	-2.5	ELMC	0.72	72	P	50	48.84	-1.0	MRCM	3.31	1	ePn	58	06.36	-1.3
COE	3.90	319	eP	32	50.58	-2.8	PLEC	0.82	323	P	50	51.34	-0.5	ePg 58 14.46						
MHC	3.95	320	eP	33	09.96	15.8X	BMTC	0.83	353	P	50	50.61	-1.4	BSRM	3.32	315	P	58	04.65	-2.9
CMB	4.00	338	eP	32	56.26	1.5	SNDC	0.84	10	P	50	52.88	0.6	MEMM	3.32	355	ePn	58	06.53	-1.0
SEC	4.17	316	P	32	57.95	0.7	GAV	0.85	110	P	50	50.77	-1.5	SAO	3.34	317	eP	58	04.73	-3.1
HMR	4.66	326	(P)	33	05.31	1.2	CIS	0.90	176	P	50	51.66	-1.5	BONR	3.60	4	ePn	58	10.21	-1.6
KVN	4.72	4	ePn	33	04.03	-1.2	TEJ	0.93	349	P	50	51.18	-2.6	ePg 58 19.98						
NTYM	5.27	321	eP	33	11.36	-1.3	RVR	0.96	109	P	50	52.59	-1.6	JBZM	3.71	317	P	58	10.73	-2.4
ARUT	5.34	48	eP	33	14.71	0.7	MARC	0.99	314	P	50	53.95	-0.8	CMB	3.95	339	eP	58	14.88	-1.6
ORV	5.74	336	eP	33	19.78	0.3	SME	1.05	117	P	50	53.97	-1.7	ARUT	5.41	49	ePn	58	35.83	-1.5
MSU	6.58	49	(Pn)	33	32.38	0.9	DTP	1.09	28	P	50	56.59	0.2	ePg 58 53.23						
TUC	6.75	105	(Pn)	33	31.99	-1.8	WJPM	1.10	360	P	50	55.72	-0.9	MSU	6.64	49	ePn	58	53.72	-1.0
DUG	7.39	36	(Pn)	33	44.10	1.3	HOD	1.14	62	P	50	56.08	-1.2	ePg 59 14.93						
						ePg	34	10.08												
SRU	7.97	51	(P)	33	51.22	0.3	PEC	1.17	111	ePc	50	55.97	-1.7	DUG	7.44	37	ePg	59	32.50	26.7
DAU	8.36	41	(P)	33	55.28	-1.2	TMB	1.17	312	P	50	57.18	-0.6	35 obs. associated						
PV09	8.61	58	eP	33	58.40	-1.5	BTL	1.22	92	P	50	57.88	-0.9	-----						
PV10	8.62	59	eP	33	58.59	-1.5	WBSM	1.25	13	P	50	59.11	-0.2	? JAN 17, 1994 23h 01m 24.96s						
PV08	8.98	59	(P)	34	05.56	0.4	MLL	1.29	99	P	50	58.95	-1.0	38.611 N ±17.0km 74.217 E ±26.0km						
LTX	13.54	108	P	35	21.70	14.9X	CRGC	1.39	312	P	51	00.76	-0.8	DEPTH = 33.0km (normal)						
ULM	22.94	39	eP	37	00.00	2.7X	RAY	1.40	101	P	51	00.52	-1.4	4.6mb ( 7 obs.)						
S.D. = 1.3 on 57 of 71 obs.						WASM	1.43	357	P	51	01.30	-0.9	TAJIKISTAN-XINJIANG BORDER REG. (719)							
-----						WWPM	1.46	12	P	51	01.63	-0.9	NDI	10.21	165	iP	03	54.60	2.3	
& JAN 17, 1994 22h 37m 24.31s						XMS	1.52	37	P	51	02.71	-0.6	0.6s 33.33nm 5.8mb X							
34.358 N 118.616 W						SCCM	1.54	295	P	51	02.65	-0.9	eS 05 35.60							
DEPTH = 12.6km						WSHM	1.55	31	P	51	02.63	-1.1	MAIO	11.93	263	eP	04	30.00	14.3X	
SOUTHERN CALIFORNIA (43)						RMR	1.57	93	P	51	03.88	-0.4	eS 06 24.00							
<PAS-P>. ML 2.9 (PAS), 2.7 (GS).						BCH	1.59	304	eP	51	03.32	-1.1	GKN	13.69	138	P	04	39.60	0.3	
ABL	0.70	315	eP	37	37.23	-0.8	WCHM	1.60	12	P	51	04.63	-0.1	0.4s 15.00nm 5.2mb						
SSK	0.78	101	eP	37	39.00	-0.4	TOW	1.60	21	P	51	05.50	0.9	KKN	14.21	136	P	04	46.30	0.2
PEC	1.29	111	eP	37	47.15	-0.9	PLM	1.65	125	eP	51	02.91	-2.4	0.5s 16.00nm 4.9mb						
BCH	1.46	305	eP	37	50.29	-0.2	GSC	1.69	54	eP	51	04.96	-0.9	DMN	14.26	137	P	04	46.90	0.1
GSC	1.76	57	eP	37	55.15	0.3	VPKM	1.72	18	P	51	08.07	1.7	0.4s 13.00nm 4.9mb						
PLM	1.77	124	eP	37	55.09	0.0	CPM	1.89	94	P	51	10.09	1.3	GUN	14.44	134	P	04	50.30	1.0
TPNV	3.22	36	ePn	38	15.67	-0.1	PHAM	2.19	314	(P)	51	11.61	-1.5	0.3s 4.00nm 4.4mb						
7 obs. associated						PAPM	2.86	305	P	51	17.64	-5.0	PKI	14.45	136	P	04	49.10	-0.3	
-----						MTUM	3.04	359	(Pn)	51	26.22	1.0	GBA	25.07	173	P	06	45.20	-2.7	
& JAN 17, 1994 22h 44m 13.82s						BRMM	3.16	323	P	51	38.29	11.4	0.5s 6.00nm 4.4mb							
34.334 N 118.437 W						TPNV	3.20	34	ePn	51	25.92	-1.5	HFS	43.03	320	eP	09	24.10	1.4	
DEPTH = 8.1km						GLA	3.29	111	ePn	51	27.09	-1.6	0.4s 2.20nm 4.2mb							
SOUTHERN CALIFORNIA (43)						ORC	3.32	357	P	51	36.09	6.7	IMA	69.32	19	eP	12	31.40	0.5	
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).						MMPM	3.32	352	(Pn)	51	28.26	-1.2	YKA	78.99	4	eP	13	26.30	-0.2	
SSK	0.63	101	eP	44	25.38	-1.1	MRCM	3.35	360	(Pn)	51	28.49	-1.3	0.6s 1.40nm 4.1mb						
ABL	0.83	309	eP	44	28.63	-1.5	MEMM	3.37	354	(Pn)	51	28.16	-1.6	WRA	81.00	124	P	13	35.20	-2.7
PEC	1.15	112	eP	44	34.03	-1.5	BPRM	3.39	309	P	51	27.71	-2.4	0.8s 0.40nm 3.5mb X						
BCH	1.60	303	eP	44	41.09	-1.5	BONR	3.64	2	(Pn)	51	33.40	-0.5	S.D. = 1.7 on 11 of 12 obs.						
												-----								
TNP	3.90	15	ePn	51	37.45	-0.1							& JAN 17, 1994 23h 09m 22.36s							



17d 23h

34.329 N 118.439 W  
 DEPTH = 6.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).

SSK	0.63	101	eP	09 34.12	-0.9
FTC	0.66	325	P	09 34.47	-1.1
RYS	0.82	293	P	09 38.52	-0.1
ABL	0.83	309	eP	09 37.10	-1.7
ARVC	0.86	338	P	09 38.20	-1.0
TEJ	0.92	347	P	09 37.54	-2.8
MARC	1.00	312	P	09 40.74	-0.9
LPC	1.07	279	P	09 41.88	-1.0
WJPM	1.08	358	P	09 42.09	-1.0
PEC	1.15	112	iPc	09 42.55	-1.6
			eS	09 58.23	
WOFM	1.22	350	P	09 44.56	-1.0
WBSM	1.23	11	P	09 45.11	-0.6
WORM	1.37	7	P	09 48.27	0.3
CRGC	1.40	311	P	09 47.43	-0.9
WASM	1.41	356	P	09 48.88	0.2
WSHM	1.52	31	P	09 50.06	0.1
SCCM	1.55	294	P	09 52.52	2.0
NMC	1.57	16	P	09 51.29	0.5
TOW	1.58	20	P	09 50.47	-0.4
WCHM	1.58	11	P	09 51.25	0.1
BCH	1.60	303	eP	09 49.86	-1.4
PLM	1.63	126	eP	09 49.34	-2.5
			eS	10 11.02	
GSC	1.66	54	eP	09 50.95	-1.1
VPFM	1.70	17	P	09 54.25	1.6
RCWM	1.74	22	P	09 54.58	1.3
WLHM	1.82	3	P	09 55.72	1.0
MTUM	3.02	358	eP	10 16.23	4.6
TPNV	3.16	34	ePn	10 12.36	-1.3
GLA	3.27	112	ePn	10 15.10	0.0
MMFM	3.31	352	eP	10 21.27	5.3
MRCM	3.34	359	eP	10 23.15	6.9
MEMM	3.35	353	eP	10 23.19	6.9
BONR	3.62	2	eP	10 27.86	7.5
TNP	3.87	14	eP	10 33.87	10.0

34 obs. associated

& JAN 17, 1994 23h 15m 52.64s  
 34.382 N 118.588 W  
 DEPTH = 14.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS).

SSK	0.76	103	eP	16 06.80	-0.5
			e	16 12.76	
GSC	1.73	57	(P)	16 24.86	2.3

2 obs. associated

? JAN 17, 1994 23h 32m 34.28± 1.78s  
 31.827 S ±17.9km 68.314 W ±12.5km  
 DEPTH = 33.0km (normal)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.19	260	iPd	32 40.60	-0.3
RTLL	0.51	345	ePc	32 44.50	-0.7
			S	32 53.50	
RTCB	0.54	309	ePc	32 46.20	0.7
			S	32 55.00	
RTPR	2.17	46	eP	33 09.00	0.3
			S	33 36.00	

S.D. = 1.0 on 4 of 4 obs.

& JAN 17, 1994 23h 33m 30.69s  
 34.326 N 118.698 W  
 DEPTH = 9.8km  
 5.7mb (85 obs.) 5.9Msz (27 obs.)  
 SOUTHERN CALIFORNIA (43)

Mw 5.9 (GS), 5.9 (HRV). <PAS-P>.  
 ML 5.6 (PAS). Mo=2.9\*10\*\*18 Nm  
 (PPT). Mo=1.0\*10\*\*18 Nm (BRK).  
 Additional damage in the  
 epicentral area. Depth 11.1 km  
 from broadband displacement  
 seismograms.  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=110 Dip=50 Slip= 90  
 NP2: 290 40 90  
 Principal Axes:  
 T Plg=85 Azm= 20  
 P 5 200  
 Comment: The focal mechanism is

poorly controlled and  
 corresponds to reverse  
 faulting. The preferred fault  
 plane is NP2.

RADIATED ENERGY  
 No. of sta: 10 Focal mech. M  
 Energy 8.0±2.0\*10\*\*12 Nm

MOMENT TENSOR SOLUTION  
 Dep 9 No. of sta: 16  
 Moment Tensor; Scale 10\*\*17 Nm

Mrr= 5.89 Mtt=-5.13  
 Mff=-0.77 Mrt= 3.00  
 Mrf= 0.35 Mtf= 2.28

Principal axes:  
 T Val= 6.77 Plg=73 Azm=335  
 N -0.10 12 108  
 P -6.67 12 200

Best Double Couple:Mo=6.7\*10\*\*17  
 NP1:Strike=306 Dip=34 Slip= 111  
 NP2: 100 58 76

CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN

L.P.B.: 39S, 81C

Centroid Location:  
 Origin Time 23:33:35.2 0.2

Lat 34.22N 0.02 Lon 118.70W 0.02

Dep 15.0 FIX Half-duration 1.9  
 Moment Tensor; Scale 10\*\*17 Nm

Mrr= 6.32 0.10 Mtt=-5.95 0.12  
 Mff=-0.37 0.14 Mrt= 0.03 0.37

Mrf= 0.02 0.28 Mtf= 3.50 0.10

Principal Axes:  
 T Val= 6.32 Plg=90 Azm=309  
 N 1.32 0 116  
 P -7.64 0 206

Best Double Couple:Mo=7.0\*10\*\*17  
 NP1:Strike=296 Dip=45 Slip= 91  
 NP2: 115 45 89

ABL	0.68	321	eP	33 42.84	-1.5
SSK	0.84	98	eP	33 46.22	-0.8
PEC	1.35	108	iPc	33 53.77	-1.8
BCH	1.43	307	ePc	33 55.56	-1.2
PLM	1.81	122	eP	33 59.69	-2.7
PHAM	2.05	318	ePc	34 04.28	-1.4
PKEM	2.08	327	eP	34 04.09	-2.0
MTUM	3.02	2	eP	34 19.71	0.0
MMPM	3.29	355	eP	34 23.86	0.3
TPNV	3.29	37	eP	34 22.24	-1.2
			eS	35 20.17	
SAO	3.31	318	eP	34 20.70	-2.9
MEMM	3.34	357	eP	34 24.85	0.9
MRCM	3.34	3	eP	34 24.61	0.3
GLA	3.47	110	eP	34 23.06	-2.8
BONR	3.64	5	eP	34 28.58	0.1
ARN	3.80	323	eP	34 27.73	-2.8
COE	3.80	321	eP	34 27.64	-2.9
MHC	3.84	322	ePc	34 28.74	-2.6
			eS	35 20.16	
TNP	3.93	17	eP	34 32.13	-0.5
CMB	3.94	340	ePc	34 31.30	-1.3
			eS	35 18.60	
STAN	4.17	318	ePc	34 32.84	-2.9
			eS	35 38.84	
JEGM	4.41	317	eP	34 35.89	-3.3
BKS	4.56	322	ePc	34 38.36	-2.9
HMR	4.57	328	eP	34 39.65	-1.8
KVN	4.74	6	eP	34 44.29	0.2
NTYM	5.16	323	eP	34 47.03	-2.8
ARUT	5.48	49	eP	34 53.58	-1.0
ORV	5.68	338	ePc	34 55.49	-1.7
			eS	36 15.94	
MIN	6.44	340	ePc	35 06.00	-2.0
			eS	36 34.65	
LMEM	6.61	341	eP	35 10.68	0.2
MSU	6.72	50	eP	35 11.10	-0.9
TUC	6.92	105	eP	35 13.34	-1.4
WDC	6.95	335	eP	35 11.90	-3.1
ELK	6.97	22	eP	35 14.81	-0.8
LGPM	7.35	335	eP	35 18.10	-2.6
LBFM	7.45	341	eP	35 21.98	-0.3
KMPM	7.46	326	eP	35 20.75	-1.5
DUG	7.50	37	eP	35 23.69	0.7
FHC	7.71	329	eP	35 22.81	-2.9
SRU	8.11	52	eP	35 33.01	1.4
EMUT	8.35	47	eP	35 36.39	1.5
DAU	8.48	42	eP	35 38.08	1.3

PV09	8.76	59	eP	35 40.58	-0.1
PV10	8.78	60	eP	35 40.64	-0.2
HVU	8.78	30	eP	35 41.95	1.1
PV08	9.14	59	eP	35 45.71	-0.2
DBO	9.47	339	P	35 50.64	0.5
PTI	9.86	28	eP	35 57.40	1.7
ALQ	10.11	83	eP	35 57.38	-1.7
VIPM	10.28	352	P	36 03.79	2.4
RNO	10.34	339	P	36 02.96	0.8
CROR	10.79	351	P	36 10.17	1.9
SSOR	10.91	346	P	36 11.03	1.1
VBEM	10.95	349	P	36 13.20	2.6
JBO	11.16	356	P	36 15.65	2.4
VGB	11.29	353	eP	36 16.08	1.0
MCMT	11.41	21	ePc	36 19.90	2.9
LNOR	11.54	1	P	36 20.73	2.3
TPMT	11.72	25	eP	36 24.70	3.6
KMOR	11.88	343	P	36 23.63	0.6
GOL	11.92	59	eP	36 25.13	1.2
ASR	12.02	350	P	36 25.95	0.9
BGMT	12.03	23	ePc	36 28.20	2.9
GLD	12.05	59	eP	36 27.58	2.0
SHW	12.16	348	eP	36 26.67	-0.2
HBMT	12.36	20	eP	36 31.70	1.9
LRM	12.43	21	ePc	36 32.30	1.5
WAH2	12.43	357	P	36 32.34	1.8
BMW	12.61	346	eP	36 33.11	0.1
LON	12.63	350	eP	36 33.61	0.4
EBG	12.65	354	P	36 34.55	1.1
MEMT	12.72	25	ePc	36 37.50	3.0
FMW	12.79	351	P	36 36.51	1.0
SXM	13.11	24	ePc	36 42.40	2.6
RMW	13.33	351	eP	36 42.57	0.1
SAW	13.37	358	P	36 43.94	0.9
WTV	13.39	356	P	36 45.20	1.9
HRV	13.42	21	eP	36 45.70	2.0
DPW	13.54	1	eP	36 45.58	0.4
GMW	13.56	348	eP	36 44.23	-1.3
LTX	13.71	107	eP	36 46.33	-1.3
NEW	13.97	4	eP	36 51.78	0.8
	1.6s	324.95nm		5.9mb	
JCW	14.06	351	P	36 52.87	0.8
STW	14.30	346	P	36 55.93	0.7
MCW	14.67	349	eP	36 59.26	-0.8
RSSD	14.97	45	eP	37 03.04	-1.2
	2.5s	2072.79nm		6.1mb	
MZX	15.43	133	(P)	37 23.80	13.7
ACO	16.10	76	iPc	37 19.30	0.6
WMOK	16.42	83	eP	37 22.43	-0.4
	1.8s	548.13nm		5.4mb	
MEO	16.58	83	iPc	37 25.50	0.7
OCO	17.45	80	iPc	37 37.10	1.4
FNO	17.52	81	iPc	37 38.60	2.0
PCO	17.84	76	e(P)	37 41.50	1.0
UYO	20.03	84	iPd	38 14.40	7.8
MIAR	20.71	82	ePc	38 11.67	-2.0
	1.1s	222.23nm		5.4mb	
MRX	21.29	129	iP	38 22.50	2.9
CCM	22.43	72	eP	38 30.82	-0.2
	1.3s	227.49nm		5.5mb	
CRX	22.49	126	iP	38 35.50	3.4
UNM	22.88	126	(P)	38 38.50	2.7
ULM	23.06	39	eP	38 38.00	0.9
FVM	23.08	73	eP	38 36.53	-0.9
	1.7s	380.61nm		5.7mb	
ELC	24.04	74	eP	38 46.31	-0.4
OXF	24.13	81	(P)	38 47.83	0.3
SIT	25.39	339	eP	38 57.90	-1.5
	1.7s	188.93nm		5.5mb	
	z 18s	11.10um		5.4Msz	
OXX	26.12	126	iP	39 09.00	2.2
YKA	28.31	4	eP	39 25.90	-0.3
	1.1s	20.30nm		4.8mb	
MYNC	28.35	79	(P)	39 25.17	-1.7
	1.3s	54.51nm		5.2mb	
GOGA	29.18	82	eP	39 32.92	-1.4
	1.0s	31.41nm		5.1mb	
NAV	30.75	73	eP	39 46.62	-1.7
BALM	30.76	338	eP	39 46.32	-1.9
JSC	30.82	79	eP	39 46.80	-2.1
BLA	31.05	73	eP	39 50.19	-0.8
	1.7s	173.22nm		5.7mb	
LHS	31.14	79	eP	39 49.18	-2.6
YSNY	32.27	63	ePc	39 59.87	-1.7
	1.2s	64.84nm		5.4mb	
KLU	32.27	336	eP	40 00.63	-0.8
KDC	32.59	326	eP	40 05.70	1.6



KDC	32.59	326 (P)	40	01.13	-2.9	DCN	74.46	35 eP	45	10.30	-0.3	ECRI	83.74	iPP	49	13.40
	0.9s	44.97nm			5.4mb	DLF	74.84	35 eP	45	12.60	-0.3	SSF	83.79	42 eP	46	02.66 1.3
SLKM	33.19	332 eP	40	07.51	-1.9	EKA	75.12	32 P	45	21.00	6.5		36 iPc	46	00.90	-0.5
CBN	33.35	71 eP	40	10.00	-0.9		1.1s	17.60nm			5.0mb		123.30nm			5.9mb
PMR	33.47	334 eP	40	11.18	-0.5	SDF	75.19	13 iP	45	14.50	-0.2	LOR	83.82	35 iPc	46	01.00 -0.5
	1.8s	852.83nm			6.4mb	KONO	77.11	24 ePc	45	24.50	-1.1		1.3s	116.25nm		5.9mb
Z	19s	8.15um			5.4MsZ	HFS	78.07	22 eP	45	29.20	-1.7	Z	22s	6.85um		6.0MsZ
CRP	34.40	332 eP	40	18.30	-1.8		0.8s	31.10nm			5.5mb	BGF	83.83	36 iPc	46	01.00 -0.6
CP2	34.44	332 eP	40	19.72	-0.7	Z	17s	6.00um			6.0MsZ		1.4s	158.60nm		6.0mb
GAC	34.61	58 eP	40	20.50	-1.3			LR	13	44.00		LFF	83.90	38 iPc	46	01.80 -0.2
RSNY	35.23	60 (P)	40	25.35	-1.8	MUD	79.35	26 iPd	45	38.00	0.1		1.5s	190.65nm		6.1mb
	1.6s	93.42nm			5.4mb		1.3s	81.00nm			5.6mb	AVF	83.91	36 iPc	46	01.20 -0.8
COL	35.30	339 eP	40	26.38	-1.1	UPP	79.48	21 iP	45	38.00	-0.6		1.3s	80.15nm		5.8mb
	0.8s	24.82nm			5.1mb			iPP	48	42.00		MAF	83.93	37 iPc	46	01.60 -0.5
FBA	35.30	339 eP	40	26.44	-1.0			iS	55	39.00			1.2s	89.25nm		5.9mb
	1.8s	141.61nm			5.5mb	MAT	79.53	307 eP	45	37.00	-2.3	RJF	84.04	38 iPc	46	02.20 -0.5
GMTN	35.57	66 P	40	29.70	-0.3		1.6s	120.00nm			5.6mb		1.6s	161.05nm		6.0mb
		ScS	52	11.80				eS	55	43.00		Z	22s	9.52um		6.1MsZ
SVW	35.71	330 eP	40	30.00	-1.1	KAF	79.83	16 iP	45	38.50	-1.9	LBF	84.08	35 iPc	46	02.30 -0.6
	0.9s	109.81nm			5.7mb		0.9s	36.70nm			5.4mb		1.4s	56.20nm		5.6mb
TTA	36.84	332 eP	40	39.90	-0.7	MDJ	79.97	318 ePc	45	40.04	-1.4	GUD	84.11	44 eP	46	19.38 16.1
HON	36.87	260 P	40	50.00	8.8		Z	16s	3.07um		5.7MsZ	VITF	84.13	34 P	46	02.30 -0.8
Z	20s	8.02um			5.5MsZ		N	16s	1.82um			SMF	84.25	36 iPc	46	02.80 -0.9
LBH	37.09	60 (P)	40	40.69	-2.2		E	16s	1.87um				1.4s	86.25nm		5.8mb
	1.4s	80.20nm			5.3mb	STS	80.15	44 eP	45	52.76	10.3	LPO	84.31	38 iPc	46	03.70 -0.3
HRV	37.42	63 ePc	40	45.16	-0.5	RTCB	80.58	139 ePc	45	44.70	-0.2		1.5s	138.95nm		6.0mb
IMA	37.90	338 ePc	40	49.24	-0.3	RTLL	80.64	138 ePc	45	44.20	-1.0	LANF	84.38	32 P	46	03.72 -0.6
	1.6s	217.21nm			5.7mb	FLN	80.68	36 iPc	45	44.60	-0.6	HAU	84.45	34 iPc	46	04.10 -0.6
ANM	41.28	332 eP	41	17.13	-0.2		1.5s	74.15nm			5.5mb		1.3s	63.55nm		5.7mb
MCB	42.01	360 ePc	41	24.50	1.3		Z	23s	6.28um		5.9MsZ	Z	18s	8.20um		6.2MsZ
	1.0s	45.00nm			5.2mb	GRR	80.75	37 iPc	45	45.30	-0.2	HOFF	84.48	32 P	46	04.42 -0.3
RES	42.07	9 eP	41	23.00	-0.7		1.7s	125.00nm			5.7mb	EVAL	84.54	48 eP	46	10.03 4.7
	1.0s	16.00nm			4.7mb	NUR	80.84	17 iP	45	45.20	-0.6	CDF	84.57	33 iPc	46	04.70 -0.7
BRW	42.14	343 eP	41	24.61	0.3		1.0s	41.30nm			5.4mb		0.9s	16.05nm		5.3mb
FRB	42.39	30 eP	41	26.00	-0.4	Z	16s	8.00um			6.2MsZ	CAF	84.59	38 iPc	46	04.90 -0.6
	1.0s	46.00nm			5.2mb			LR	23	00.00			1.3s	90.60nm		5.8mb
ADK	44.57	312 ePc	41	42.94	-1.4	LPF	80.90	37 iPc	45	45.90	-0.4	WLS	84.60	33 P	46	04.48 -1.0
	1.2s	74.81nm			5.5mb		1.3s	71.10nm			5.5mb	ECH	84.66	33 P	46	04.38 -1.4
		epPd	41	46.25	11kmX	DBN	80.95	31 iP	45	48.00	1.5	PAB	84.72	45 ePc	46	05.68 -0.6
SJG	49.30	95 (P)	42	20.74	-1.3			e(PcP)	46	06.00			iS	56	36.00	
	1.1s	81.85nm			5.7mb			ePP	48	40.00		MOX	84.72	29 ePc	46	05.80 -0.2
SDV	50.75	108 ePc	42	32.80	-0.5			eS	56	00.00			1.6s	123.00nm		5.9mb
TOV	50.88	107 eP	42	35.70	1.6	LDF	80.97	36 iPc	45	46.30	-0.4	Z	18s	10.00um		6.2MsZ
CAR	52.75	104 iPd	42	48.00	-0.3		1.9s	120.80nm			5.6mb		ePP	49	20.00	
TPT	56.23	214 iPc	43	12.90	-0.5	CFA	80.98	138 ePd	45	46.60	-0.4		eSKS	56	38.00	
RUV	56.30	214 iPc	43	13.50	-0.4	WIT	81.07	30 eP	45	48.00	0.9	CLL	84.76	28 iPc	46	04.70 -1.4
	1.2s	282.10nm			6.2mb	COP	81.12	26 iP+	45	48.00	0.6		2.5s	290.00nm		6.1mb
PMO	56.38	214 iPc	43	14.00	-0.5	PTO	81.19	46 eP	45	48.40	0.4	Z	18s	5.50um		6.0MsZ
VAH	56.46	214 iPc	43	14.50	-0.6	UCC	81.53	33 P+	45	50.00	0.4			e(S)	56	38.00
	1.4s	359.00nm			6.2mb	MDZ	81.62	139 eP	45	50.50	0.2	BSF	84.78	33 iPc	46	05.70 -0.8
DAG	59.11	15 iPd	43	30.80	-2.4	SNF	81.70	33 Pc	45	50.00	-0.5		1.1s	40.05nm		5.6mb
	0.7s	48.63nm			5.7mb	WTS	81.72	31 eP	45	50.50	0.0	LIBD	84.91	33 P	46	02.84 -4.1
PPN	59.29	215 iPc	43	34.30	-0.7		3.0s	1000.00nm			6.4mb	MOF	84.92	33 P	46	04.81 -2.3
PPT	59.39	215 iPc	43	35.00	-0.7	HIA	81.93	326 iPc	45	50.35	-1.4	EPF	85.00	40 iPc	46	07.20 -0.4
Z	29s	475.00um			7.5MsZ			epPd	45	53.90	11kmX		1.5s	63.70nm		5.6mb
TVO	59.42	214 iPc	43	35.30	-0.7	DOU	82.14	33 Pc+	45	53.80	1.0	PPD	85.07	121 eP	46	07.80 -0.3
	1.5s	286.30nm			6.2mb			S	56	16.00		SNY	85.11	318 Pc	46	07.00 -1.1
AFR	59.46	215 iPc	43	35.50	-0.6	ENN	82.24	32 eP	45	53.50	0.2	Z	20s	2.42um		5.6MsZ
	1.1s	174.80nm			6.1mb		1.0s	29.00nm			5.3mb	E	15s	1.68um		
PAE	59.47	215 iPc	43	35.50	-0.7	MFF	82.31	38 eP	45	53.30	-0.4			S	56	36.50
	1.2s	189.80nm			6.1mb		1.0s	37.80nm			5.5mb	LOMF	85.15	34 P	46	07.44 -0.9
NNA	60.84	132 iPc	43	44.00	-1.7	MEM	82.39	32 iPd	45	55.90	1.9	EGRA	85.22	41 eP	46	16.69 8.1
	1.2s	140.63nm			6.0mb			e	46	06.80		FEL	85.30	33 P	46	07.77 -1.3
KBS	63.48	9 eP	44	03.00	0.4			e	49	01.60		EHOR	85.30	47 eP	46	01.04 -8.1
ARE	67.58	130 eP	44	30.00	-0.1			S	56	19.00		GRF	85.30	30 eP	46	08.90 0.0
YAK	69.43	332 iPc	44	40.10	-0.5	BNS	82.64	31 ePc	45	55.50	0.2		1.6s	165.00nm		6.0mb
	2.0s	403.00nm			6.2mb	Z	17s	13.00um			6.4MsZ	Z	21s	14.90um		6.4MsZ
		e(S)	53	50.00				eSS	01	50.00		BBS	85.38	33 P	46	06.35 -3.0
AFI	69.59	236 e(P)	44	44.00	1.7			iPP+	49	06.00		BRG	85.47	28 iPc	46	09.00 -0.7
		e	02	32.00				iS	56	28.00			3.2s	800.00nm		6.4mb X
		e	05	00.00		CN2	82.77	319 eP	45	55.00	-1.2	Z	21s	8.90um		6.1MsZ
		e(S)	54	00.00								N	21s	6.40um		
LPZ	69.61	128 ePc	44	40.84	-2.3							E	21s	3.70um		
		Lg	05	21.00										eS	56	45.00
		LR	10	12.00		WLF	83.15	32 iPc	45	58.01	0.0			eP	46	02.12 -9.9
		ec	44	42.17			1.5s	28.90nm			5.3mb	IRK	85.93	335 ePc	46	11.00 -1.0
		epPd	44	44.48	12kmX								2.0s	272.00nm		6.1mb
LPB	69.81	128 iPc	44	42.30	-1.8	HYF	83.23	36 eP	45	58.20	-0.3	Z	20s	4.24um		5.8MsZ
	1.2s	156.25nm			6.0mb		1.3s	213.00nm			6.2mb					
Z	18s	4.12um			5.7MsZ	EPLA	83.36	45 eP	46	19.38	20.0	N	20s	2.06um		
		LR	09	40.00		LSF	83.39	37 iPc	45	58.70	-0.7	E	18s	2.49um		
YSS	71.05	314 iPc	44	48.85	-1.9		1.2s	54.75nm			5.6mb			e	01	32.00
		epPd	44	52.74	13kmX	BDFB	83.49	114 ePc	45	59.52	-0.9			e	05	44.00
KUSJ	71.79	310 eP	44	54.00	-1.2		1.9s	173.63nm			5.9mb			e	46	24.00
ASAJ	72.56	312 eP	45	01.20	1.4	TCF	83.71	37 iPc	46	00.40	-0.6			e	46	32.00
KEV	73.25	12 ePc	45	01.73	-1.7		1.3s	93.50nm			5.8mb			ePP	49	31.00
SIV	74.18	122 P	45	07.90	-1.7	TNS	83.73	31 iPc	46	00.80	-0.3			eS	56	40.00



		e	57	11.00		BFI	90.34	321 ePc	46	32.17	-1.1	E	20s	3.09um			
		e	57	58.00			1.8s	48.00nm			5.5mb	GUN	113.87	336 PKP	52	40.00	
		e	58	27.00		Z	20s	3.32um			5.8Msz	WB2	114.67	262 iPKPc	52	11.50	-12.2
		e	59	38.00		N	18s	2.34um					1.2s	5.50nm			
EBAN	85.95	46 eP	46	02.12	-10.3			ePPd	46	35.89	12kmX	WRA	114.67	262 PKP	52	12.10	-1.3
ELUQ	86.06	46 eP	46	06.25	-6.8			ePP	50	06.00			1.1s	3.00nm			
EMS	86.14	35 ePd	46	14.20	0.8			SKS	57	02.00		POO	126.10	345 ePKP	52	35.00	-0.4
DIX	86.36	34 ePd	46	15.70	1.1			S	57	26.00		GBA	129.93	339 PKP	52	41.00	-1.7
PRU	86.40	28 Pc	46	13.50	-0.9	UZH	90.38	25 iPc	46	34.00	0.6	NVL	135.06	159 (PKP)	52	54.00	3.2
	2.0s	161.00nm			5.9mb	DZM	90.52	244 IPd	46	32.20	-2.2	WIN	139.69	85 ePKP	52	48.00	-13.2
Z	14s	7.10um			6.2MszX	HHC	92.04	324 P	46	41.20	-0.1		0.5s	23.00nm			
N	15s	4.40um					1.2s	23.00nm			5.4mb	NAI	139.93	40 ePKP+	53	06.00	4.1
E	14s	6.30um				N	20s	2.42um				Z	20s	1.17um			5.6Msz
		PP	49	33.70		E	21s	4.81um				SYO	143.18	167 ePKPd	52	59.70	-6.0
		S	56	52.50				PP	50	23.00		POF	144.71	94 iPKPe	53	07.50	-2.0
LPL	86.46	35 eP	46	14.40	-0.6			SKS	57	13.00			1.5s	70.00nm			
LPG	86.48	35 eP	46	14.70	-0.5	TIA	92.63	318 eP	46	43.30	-0.7	BLE	144.87	102 iPKPe	53	08.00	-1.6
FUR	86.50	31 eP	46	14.70	-0.2	Z	34s	1.43um			5.2MszX	CER	145.27	101 iPKPd	52	58.00	-12.4
Z	18s	10.00um			6.3Msz			S	57	44.00		SWZ	148.39	87 ePKP	53	17.20	1.4
		ePP	49	38.60		BTO	92.98	325 P	46	45.00	-0.6	KSR	149.18	83 ePKP	53	17.00	-0.1
EROQ	86.56	42 eP	45	56.36	-19.0	N	19s	2.21um					1.5s	320.00nm			
MMK	86.64	34 ePd	46	17.50	1.6	E	21s	4.24um				BLF	149.78	90 iPKPd	53	21.50	3.6
KHC	86.70	29 eP	46	14.50	-1.4			eSKS	57	12.00		SLR	150.26	82 iPKPd	53	22.70	4.0
	1.5s	34.80nm			5.3mb	SSE	93.88	312 P	46	49.00	-0.8		1.2s	200.00nm			
Z	16s	7.70um			6.2MszX	N	12s	0.50um				Z	22s	12.50um			6.7Msz
N	16s	2.50um				E	12s	0.50um				SEK	150.70	88 iPKPe	53	29.00	9.7
E	16s	2.50um				TIY	94.01	322 eP	46	49.70	-0.7		1.0s	200.00nm			
		e	46	20.00		Z	18s	3.39um			5.9Msz	GRM	151.21	98 iPKPd	53	25.50	5.7
		e	46	33.50		N	14s	1.54um					1.0s	140.00nm			
		PP	49	39.00				PP	50	38.00		BFT	151.68	81 ePKP	53	26.00	5.1
		eS	57	00.00		CMP	94.23	25 ePc	46	44.00	-7.3		0.7s				



MMPM 3.27 355 eP 50 18.52 0.3  
 MCSM 3.31 357 P 50 21.13 2.4  
 SAO 3.31 318 eP 50 15.79 -2.7  
 MEMM 3.32 356 eP 50 17.82 -0.8  
 MRCM 3.32 2 (P) 50 17.16 -1.7  
 GLA 3.45 111 eP 50 19.87 -0.6  
 BONR 3.62 5 eP 50 22.93 -0.2  
 ARN 3.80 323 eP 50 23.27 -2.2  
 TNP 3.91 17 ePn 50 25.81 -1.4  
 ePg 50 37.05

CMB 3.94 340 eP 50 26.53 -0.9  
 HMR 4.57 327 (P) 50 34.38 -1.9  
 KVN 4.72 5 ePn 50 35.85 -2.9  
 NTYM 5.17 323 eP 50 41.63 -3.1  
 ARUT 5.45 49 ePn 50 47.99 -1.0  
 ORV 5.68 337 eP 50 50.25 -1.8  
 MSU 6.69 50 ePn 51 07.32 0.8  
 ePg 51 30.04

KMPM 7.46 326 eP 51 16.20 -0.9  
 DUG 7.47 37 (Pn) 51 14.33 -3.1  
 ePg 51 44.15  
 PV10 8.75 60 eP 51 36.17 0.9  
 47 obs. associated

& JAN 17, 1994 23h 56m 15.48s  
 34.212 N 118.553 W  
 DEPTH = 19.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS).

FTC 0.71 337 P 56 28.45 -0.7  
 RYS 0.79 303 P 56 29.98 -0.5  
 PLEC 0.87 331 P 56 31.56 -0.2  
 BMTC 0.92 358 P 56 31.94 -0.8  
 ARVC 0.94 346 P 56 32.40 -0.6  
 SNDC 0.95 12 P 56 34.02 0.8  
 LPC 1.00 287 P 56 33.38 -0.7  
 MARC 1.02 321 P 56 34.20 -0.2  
 TEJ 1.02 354 P 56 32.74 -1.6  
 WJPM 1.20 3 P 56 37.04 -0.2  
 PEC 1.20 105 eP 56 39.00 1.8  
 WOFM 1.33 354 P 56 39.54 0.4  
 WBSM 1.36 14 P 56 39.60 -0.1  
 PLM 1.65 121 eP 56 46.29 2.5  
 WSHM 1.66 31 P 56 46.68 2.8  
 WLHM 1.95 6 P 56 50.70 2.5  
 16 obs. associated

& JAN 18, 1994 00h 01m 27.82s  
 34.339 N 118.683 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.5 (PAS), 3.7 (GS).

FTC 0.56 342 P 01 38.60 -0.4  
 RYS 0.63 299 P 01 40.40 0.0  
 ABL 0.68 319 iPc 01 40.64 -0.7  
 ARVC 0.80 351 P 01 43.04 -0.7  
 BMTC 0.80 5 P 01 42.72 -1.0  
 SSK 0.83 99 eP 01 43.32 -1.1  
 MARC 0.85 321 P 01 44.13 -0.8  
 SNDC 0.86 21 P 01 44.99 0.0  
 TEJ 0.89 360 P 01 44.31 -1.3  
 TMB 1.02 317 P 01 47.56 -0.6  
 WJPM 1.08 9 P 01 48.20 -1.0  
 CRGC 1.24 317 P 01 51.22 -0.7  
 WBSM 1.28 20 P 01 51.59 -1.0  
 PEC 1.34 109 eP 01 51.23 -2.3  
 SCCM 1.37 296 P 01 53.47 -0.5  
 WORM 1.40 15 P 01 54.36 -0.2  
 BCH 1.43 307 eP 01 53.75 -1.3  
 WCHM 1.62 18 P 01 56.40 -1.6  
 WSHM 1.62 37 P 01 58.14 0.4  
 NMC 1.63 23 P 01 57.63 -0.3  
 TOW 1.65 27 P 01 59.68 1.5  
 PLM 1.81 122 eP 01 55.03 -5.6  
 RCWM 1.82 28 P 02 02.44 1.8  
 GSC 1.82 58 eP 01 58.29 -2.4  
 WLHM 1.83 9 P 02 03.09 2.0  
 PHAM 2.05 317 eP 02 01.93 -2.1  
 MTUM 3.01 2 ePn 02 17.35 -0.5  
 TPNV 3.27 37 ePn 02 19.55 -2.0  
 MMPM 3.28 355 ePn 02 21.22 -0.5  
 SAO 3.31 318 ePn 02 18.93 -3.0  
 MEMM 3.33 356 ePn 02 20.84 -1.3  
 MRCM 3.33 2 (Pn) 02 20.48 -1.9  
 BONR 3.62 5 ePn 02 25.59 -1.0

ARN 3.79 323 eP 02 26.33 -2.5  
 COE 3.79 321 ePn 02 26.13 -2.7  
 TNP 3.92 17 (Pn) 02 28.12 -2.7  
 ePg 02 40.28  
 CMB 3.94 340 ePn 02 27.09 -3.8  
 KVN 4.73 6 (Pn) 02 39.95 -2.3  
 ARUT 5.47 49 ePn 02 51.98 -0.7  
 ORV 5.67 337 (P) 02 53.28 -2.2  
 MSU 6.70 50 (Pn) 03 08.00 -2.2  
 FHC 7.70 328 (P) 03 20.16 -3.8

42 obs. associated  
 & JAN 18, 1994 00h 05m 43.39s  
 34.324 N 118.575 W  
 DEPTH = 4.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS).

ABL 0.75 315 ePc 05 56.93 -1.4  
 PLM 1.72 124 (P) 06 15.80 1.4  
 2 obs. associated

& JAN 18, 1994 00h 06m 38.83s  
 34.383 N 118.692 W  
 DEPTH = 12.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS).

ABL 0.64 317 ePd 06 50.35 -1.2  
 eS 06 59.22  
 MTUM 2.97 2 (Pn) 07 26.70 0.0  
 2 obs. associated

& JAN 18, 1994 00h 12m 00.41s  
 34.344 N 118.631 W  
 DEPTH = 1.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS).

PEC 1.30 110 eP 12 22.94 -2.4  
 PLM 1.77 123 eP 12 29.97 -2.6  
 TPNV 3.24 36 ePn 12 49.87 -3.7  
 3 obs. associated

& JAN 18, 1994 00h 16m 57.82s  
 34.264 N 118.571 W  
 DEPTH = 16.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS).

ABL 0.79 318 eP 17 11.86 -1.1  
 eS 17 23.60  
 TPNV 3.28 35 ePn 17 48.16 -1.5  
 2 obs. associated

JAN 18, 1994 00h 22m 19.63± 0.62s  
 34.285 N ± 6.0km 118.665 W ± 3.7km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.3 (GS).

FTC 0.61 342 P 22 30.84 -1.2  
 RYS 0.67 302 P 22 33.00 -0.1  
 ABL 0.73 321 iPc 22 32.97 -1.1  
 PLEC 0.76 334 P 22 34.12 -0.4  
 SSK 0.81 95 eP 22 35.02 -0.4  
 ARVC 0.85 351 P 22 35.11 -0.9  
 LPC 0.89 284 P 22 36.79 0.0  
 MARC 0.91 322 P 22 36.52 -0.5  
 TEJ 0.94 359 P 22 35.84 -1.8  
 CRGC 1.29 318 P 22 43.63 0.0  
 PEC 1.31 107 eP 22 43.08 -0.8  
 WBSM 1.32 19 P 22 44.06 -0.1  
 SCCM 1.40 298 P 22 45.75 0.5  
 WORM 1.45 14 P 22 46.22 0.3  
 BCH 1.47 308 eP 22 46.22 -0.1  
 WSHM 1.65 35 P 22 49.86 1.0  
 WCHM 1.67 17 P 22 50.08 0.8  
 PLM 1.77 121 eP 22 50.67 0.1  
 VPEN 1.80 22 P 22 53.58 2.5X  
 GSC 1.84 56 eP 22 50.95 -0.6  
 RCWM 1.86 26 P 22 53.52 1.6  
 WLHM 1.89 9 P 22 54.80 2.3X  
 PMCM 2.01 316 P 22 55.62 1.7  
 PHAM 2.10 318 eP 22 55.68 0.4  
 BHPR 3.01 3 P 23 13.51 5.0X  
 MTUM 3.06 2 (P) 23 10.64 1.5

TPNV 3.31 36 (P) 23 12.59 -0.1  
 MMPM 3.33 355 (P) 23 15.51 2.4X  
 ORC 3.34 0 P 23 21.79 8.5X  
 MEMM 3.38 356 eP 23 17.06 3.6X  
 MRCM 3.38 2 (P) 23 17.46 3.7X  
 BONR 3.67 4 (P) 23 20.03 2.0X  
 TNP 3.97 17 (P) 23 25.41 3.4X  
 CMB 3.99 340 eP 23 22.85 0.6  
 ARUT 5.49 49 (P) 23 43.56 0.0

S.D. = 0.9 on 26 of 35 obs.  
 JAN 18, 1994 00h 23m 37.51± 0.57s  
 34.202 N ± 5.5km 118.573 W ± 3.6km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.5 (GS).

FTC 0.72 339 P 23 51.30 -0.4  
 SSK 0.73 89 iPc 23 51.78 -0.2  
 RYS 0.78 305 P 23 52.86 0.0  
 ABL 0.84 321 ePc 23 53.51 -0.4  
 ARVC 0.95 347 P 23 55.18 -0.4  
 LPC 0.99 288 P 23 56.32 0.0  
 MARC 1.02 322 P 23 57.25 0.5  
 TEJ 1.03 355 P 23 55.54 -1.5  
 TMB 1.19 318 P 24 00.28 0.6  
 WJPM 1.21 4 P 24 00.06 0.0  
 PEC 1.21 104 eP 23 59.55 -0.6  
 WOFM 1.34 355 P 24 02.05 -0.2  
 WBSM 1.38 15 P 24 03.00 0.0  
 CRGC 1.41 318 P 24 03.67 0.4  
 SCCM 1.51 300 P 24 05.44 0.8  
 WORM 1.52 10 P 24 06.13 1.4  
 BCH 1.58 309 eP 24 05.77 0.0  
 PLM 1.66 120 eP 24 07.02 0.1  
 WSHM 1.68 32 P 24 07.19 0.0  
 NMC 1.73 18 P 24 10.81 3.0X  
 WCHM 1.73 14 P 24 07.61 -0.4  
 GSC 1.82 53 eP 24 10.12 0.9  
 PAPM 2.85 308 P 24 22.38 -1.6  
 BHPR 3.09 1 P 24 33.70 6.2X  
 MTUM 3.14 0 eP 24 34.70 6.5X  
 CWCR 3.29 4 P 24 36.34 6.0X  
 MMPM 3.42 354 (P) 24 37.32 5.0X  
 TNP 4.02 15 (P) 24 50.49 9.8X  
 ORV 5.84 337 (P) 25 07.05 0.9  
 S.D. = 0.7 on 23 of 29 obs.

? JAN 18, 1994 00h 25m 03.06± 2.59s  
 34.128 N ± 39.7km 118.559 W ± 18.8km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.1 (GS).

SSK 0.72 83 eP 25 17.77 0.4  
 ABL 0.90 323 eP 25 20.11 -0.4  
 PEC 1.19 101 eP 25 24.84 -0.4  
 BCH 1.64 310 (P) 25 32.56 0.4  
 GSC 1.86 50 eP 25 36.04 0.7X  
 S.D. = 0.8 on 4 of 5 obs.

& JAN 18, 1994 00h 36m 20.72s  
 34.268 N 118.482 W  
 DEPTH = 12.7km  
 2.9mb (1 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 4.0 (GS).

SSK 0.66 95 eP 36 32.86 -0.8  
 FTC 0.69 331 P 36 33.40 -0.8  
 ABL 0.84 314 iPd 36 35.70 -1.2  
 ARVC 0.90 342 P 36 37.18 -0.6  
 WJPM 1.14 0 P 36 41.34 -0.5  
 PEC 1.16 109 ePc 36 40.88 -1.3  
 WBSM 1.30 12 P 36 44.13 -0.6  
 SCCM 1.55 296 P 36 47.54 -0.5  
 BCH 1.61 305 eP 36 48.12 -0.9  
 PLM 1.63 124 eP 36 47.83 -1.5  
 WCHM 1.65 12 P 36 48.86 -0.9  
 RCWM 1.81 22 P 36 51.11 -0.8  
 PMCM 2.12 314 P 36 55.31 -1.1  
 PHAM 2.22 315 eP 36 56.30 -1.5  
 PKEM 2.23 324 eP 36 58.54 0.6  
 PANM 2.50 308 P 36 59.59 -2.1  
 PHCM 2.61 304 P 37 01.79 -1.5  
 HVC 2.84 318 P 37 07.34 0.7  
 RJLM 2.85 310 P 37 04.55 -2.1



MTUM	3.08	359	ePn	37	10.02	-0.1	CMB	3.93	339	eP	40	37.53	0.4	GBGM	5.46	325	P	44	28.73	-3.5
SHG	3.12	314	P	37	08.05	-2.4	KVN	4.68	4	ePn	40	45.92	-1.9	GWKM	5.57	328	P	44	32.22	-1.5
TPNV	3.23	34	eP	37	11.22	-1.1			ePg	41	01.44		GCVM	5.59	323	P	44	31.65	-2.3	
GLA	3.28	111	eP	37	12.47	-0.4	NTYM	5.19	322	eP	40	54.08	-0.8	ORV	5.63	337	eP	44	33.09	-1.5
BPOM	3.32	307	P	37	10.59	-2.9	ORV	5.68	336	ePn	41	00.40	-1.4		eS			45	48.64	
MMPM	3.36	353	(Pn)	37	13.86	-0.5	MSU	6.60	49	eP	41	14.62	-0.4	GHLM	5.81	325	P	44	34.00	-3.0
MRCM	3.40	360	ePn	37	13.76	-0.9	SRU	7.99	51	eP	41	35.27	0.7	GSNM	5.81	323	P	44	34.68	-2.4
			ePg	37	21.63		VGB	11.25	352	eP	42	24.52	5.3	GCWM	5.90	325	P	44	36.77	-1.6
MEMM	3.41	354	ePn	37	12.90	-1.7	MCMT	11.32	21	eP	42	24.20	3.8	LHKM	6.39	342	P	44	45.81	0.4
SAO	3.47	317	eP	37	12.62	-2.9	LRM	12.34	20	eP	42	42.70	8.5	MIN	6.39	340	eP	44	44.90	-0.5
FRP	3.49	316	P	37	12.28	-3.5	RMW	13.29	350	(P)	42	48.19	1.5		eS			46	11.20	
HJGM	3.57	316	P	37	15.96	-0.9	RSSD	14.86	45	eP	43	06.99	-0.4	LMEM	6.56	340	eP	44	47.85	0.1
DIL	3.63	316	P	37	15.35	-2.5		0.8s	5.32nm			4.1mb		MSU	6.68	50	ePn	44	48.80	-0.8
BONR	3.68	2	ePn	37	19.16	0.3	ULM	22.95	39	eP	44	42.00	1.3	WDC	6.90	335	eP	44	49.88	-2.5
			ePg	37	27.30		YKA	28.25	4	P	45	29.70	-0.6	TUC	6.94	105	(P)	44	49.59	-3.1
								0.8s	0.50nm			3.4mb		KSMM	7.26	325	P	44	56.25	-1.2
JBZM	3.84	317	P	37	19.48	-1.3	MBC	41.95	360	eP	47	29.50	2.0	LGPM	7.30	335	eP	44	55.17	-2.9
EUC	3.88	317	P	37	21.95	0.6	FRB	42.29	30	eP	47	30.50	0.2	LBFM	7.40	341	eP	44	58.39	-1.2
TNP	3.94	15	ePn	37	21.81	-0.6		55 obs. associated						KMPM	7.41	326	eP	44	57.54	-2.1
ARN	3.95	322	eP	37	21.04	-1.3								SRU	8.08	52	ePn	45	10.64	1.5
COE	3.95	320	eP	37	21.63	-0.7								EMUT	8.31	47	(P)	45	13.46	1.1
CMB	4.06	338	eP	37	23.34	-0.6								DAU	8.45	42	eP	45	15.07	0.8
JSM	4.20	315	P	37	24.93	-0.9								HVU	8.74	31	eP	45	18.95	0.7
HMR	4.72	326	(P)	37	30.66	-2.6								PV10	8.75	60	eP	45	19.07	0.6
KVN	4.78	4	ePn	37	32.25	-2.1								PV08	9.11	60	eP	45	24.54	1.0
			ePg	37	46.99									PTI	9.82	28	eP	45	33.25	0.2
ARUT	5.39	48	eP	37	42.90	0.0								ALQ						



PLM	1.74	126	(P)	00	32.77	0.8
TPNV	3.17	36	(Pn)	00	51.60	-0.7
S.D. = 0.7 on 14 of 15 obs.						
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&	JAN 18, 1994		01h 00m	23.93s		
	34.247 N		118.613 W			
	DEPTH = 19.3km					
	SOUTHERN CALIFORNIA					( 43)
	<PAS-P>. ML 3.4 (PAS), 3.3 (GS).					
PEC	1.26	106	eP	00	47.88	1.4
PLM	1.71	121	eP	00	54.38	1.3
MTUM	3.10	1	ePg	01	18.87	5.9
TPNV	3.31	35	ePn	01	14.83	-1.2
MMPM	3.37	354	P	01	24.90	7.9
	5 obs. associated					
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&	JAN 18, 1994		01h 17m	51.43s		
	34.381 N		118.705 W			
	DEPTH = 12.3km					
	SOUTHERN CALIFORNIA					( 43)
	<PAS-P>. ML 3.6 (PAS), 3.7 (GS).					
FTC	0.51	343	P	18	00.94	-0.9
ABL	0.63	318	ePd	18	02.88	-1.2
LPC	0.84	278	P	18	06.75	-0.8
SSK	0.85	101	eP	18	07.15	-0.7
TMB	0.98	316	P	18	09.71	-0.2
WBSM	1.24	22	P	18	13.96	-0.5
WASM	1.36	5	P	18	16.07	-0.2
PEC	1.37	110	eP	18	14.75	-1.6
BCH	1.39	306	eP	18	15.86	-0.8
TOW	1.62	28	P	18	19.21	-0.7
GSC	1.81	59	eP	18	21.56	-1.2
PMGM	1.82	306	P	18	21.68	-1.1
PLM	1.84	123	eP	18	21.13	-2.1
PMCM	1.91	315	P	18	23.29	-0.8
PHAM	2.01	317	eP	18	24.28	-1.2
PKEM	2.03	326	eP	18	25.25	-0.6
PANM	2.28	308	P	18	27.54	-1.9
PTV	2.39	317	P	18	29.59	-1.3
PJLM	2.63	311	P	18	32.38	-2.0
FRI	2.73	343	P	18	35.14	-0.6
BHPR	2.92	3	P	18	38.97	0.3
MTUM	2.97	2	ePn	18	39.48	0.2
BPOM	3.11	307	P	18	38.34	-2.8
BPRM	3.19	310	P	18	40.06	-2.3
MMPM	3.23	355	(Pn)	18	42.72	-0.5
TPNV	3.25	37	eP	18	41.99	-1.3
SAO	3.26	318	eP	18	40.87	-2.5
MEMM	3.28	357	ePn	18	42.57	-1.0
MRCM	3.29	3	(Pn)	18	42.13	-1.8
HJGM	3.36	317	P	18	42.59	-2.1
HERM	3.44	315	P	18	43.77	-2.0
GLA	3.49	111	(Pn)	18	44.08	-2.6
BONR	3.58	5	ePn	18	46.70	-1.5
JELM	3.59	316	P	18	46.12	-1.9
ARN	3.75	323	eP	18	48.55	-1.8
COE	3.75	321	eP	18	47.88	-2.4
JUCM	3.77	315	P	18	47.27	-3.3
TNP	3.88	18	(Pn)	18	50.06	-2.3
			ePg	19	02.61	
CMB	3.89	340	eP	18	50.39	-1.9
SEC	4.01	317	P	18	51.47	-2.5
KVN	4.69	6	ePn	19	01.95	-1.8
			ePg	19	16.57	
ARUT	5.45	50	ePn	19	13.12	-1.5
ORV	5.63	337	eP	19	15.75	-1.1
MSU	6.69	50	(Pn)	19	30.04	-2.0
DUG	7.46	37	ePg	20	13.29	30.5
	45 obs. associated					
-----						
&	JAN 18, 1994		01h 38m	33.17s		
	34.240 N		118.678 W			
	DEPTH = 6.0km (geophysicist)					
	SOUTHERN CALIFORNIA					( 43)
	<PAS-P>. ML 3.0 (PAS), 2.9 (GS).					
FTC	0.65	344	P	38	45.31	-1.0
RY5	0.69	306	P	38	47.45	0.



18d 01h

TMB 1.10 320 P 38 54.47 0.2  
 WOFM 1.29 359 P 38 56.50 -1.1  
 CRGC 1.32 320 P 38 58.11 0.1  
 BCH 1.49 310 eP 39 00.90 0.3  
 GSC 1.87 55 eP 39 07.90 1.8  
 MTUM 3.11 2 (P) 39 25.61 1.8  
 TPNV 3.35 36 eP 39 27.38 0.1  
 MMPV 3.37 355 (P) 39 30.49 2.7  
 MEMM 3.43 357 (P) 39 30.41 2.3  
 BONR 3.72 5 (P) 39 35.28 2.6  
 COE 3.87 322 (P) 39 37.16 2.6  
 TNP 4.01 17 eP 39 47.15 10.5  
 21 obs. associated

& JAN 18, 1994 01h 43m 13.20s  
 34.245 N 118.615 W  
 DEPTH = 20.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.6 (GS).

PEC 1.26 106 eP 43 35.79 0.1  
 TPNV 3.32 35 ePn 44 04.64 -0.5  
 2 obs. associated

? JAN 18, 1994 01h 43m 31.81± 2.96s  
 40.195 N ±91.5km 76.226 W ±78.9km  
 DEPTH = 5.0km (geophysicist)  
 PENNSYLVANIA (473)  
 mbLg 2.6 (GS).

GPD 1.57 58 eP 43 59.56 -0.9  
 eS 44 17.73  
 GMTN 1.70 66 iP 44 22.80 20.5X  
 PAL 1.94 65 eP 44 05.75 0.0  
 eS 44 28.51  
 CRNY 2.32 60 eP 44 11.23 0.0  
 eS 44 38.78  
 LSCT 2.71 56 eP 44 17.32 0.4  
 CVL 2.81 219 (P) 44 18.18 -0.1  
 eS 44 56.40  
 S.D. = 0.7 on 5 of 6 obs.

JAN 18, 1994 01h 45m 53.67± 0.51s  
 34.332 N ± 4.9km 118.721 W ± 3.5km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.4 (GS).

FTC 0.56 345 P 46 04.75 -0.3  
 RYS 0.61 301 P 46 06.59 0.5  
 ABL 0.66 322 eP 46 06.71 -0.3  
 ARVC 0.80 354 P 46 09.13 0.0  
 LPC 0.84 282 P 46 10.64 0.7  
 MARC 0.84 323 P 46 10.31 0.4  
 SSK 0.86 98 eP 46 10.93 0.6  
 SNDC 0.88 23 P 46 10.82 0.2  
 TEJ 0.90 2 P 46 10.52 -0.3  
 TMB 1.01 319 P 46 13.72 0.9  
 WOFM 1.20 0 P 46 16.12 0.0  
 CRGC 1.23 318 P 46 17.43 0.9  
 SCCM 1.34 297 P 46 19.37 1.0  
 PEC 1.37 108 eP 46 18.54 -0.3  
 BCH 1.41 308 eP 46 19.91 0.5  
 WASM 1.41 5 P 46 19.98 0.4  
 WORM 1.42 16 P 46 21.00 1.5  
 WCHM 1.64 19 P 46 25.10 2.3X  
 WSHM 1.64 38 P 46 23.54 0.8  
 TOW 1.67 28 P 46 25.52 2.4X  
 PLM 1.83 122 eP 46 25.53 -0.1  
 RCWM 1.84 28 P 46 28.25 2.6X  
 WLHM 1.85 10 P 46 29.20 3.3X  
 PHAM 2.04 318 eP 46 26.49 -1.9  
 PAPM 2.68 307 P 46 36.22 -1.5  
 MTUM 3.02 2 (P) 46 43.19 0.6  
 MMPV 3.28 356 (Pn) 46 46.19 -0.3  
 TPNV 3.30 37 eP 46 45.74 -0.8  
 MEMM 3.33 357 ePn 46 47.07 0.2  
 GLA 3.49 110 ePn 46 48.70 -0.4  
 BONR 3.63 5 (Pn) 46 50.86 -0.5  
 ARN 3.78 324 eP 46 51.90 -1.4  
 CMB 3.93 340 eP 46 54.18 -1.2  
 S.D. = 0.8 on 29 of 33 obs.

& JAN 18, 1994 01h 52m 36.40s  
 34.295 N 118.412 W  
 DEPTH = 3.6km  
 SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 2.8 (PAS).

PEC 1.11 111 eP 52 58.00 0.1  
 PLM 1.60 126 eP 53 06.00 0.3  
 GSC 1.66 52 eP 53 06.15 -0.4  
 3 obs. associated

& JAN 18, 1994 01h 54m 31.61s  
 34.330 N 118.624 W  
 DEPTH = 1.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.0 (GS).

FTC 0.58 338 P 54 42.04 -1.2  
 RYS 0.68 298 P 54 45.00 -0.1  
 ABL 0.72 317 eP 54 44.56 -1.4  
 PLEC 0.73 330 P 54 46.10 -0.2  
 BMTC 0.80 2 P 54 46.45 -1.2  
 ARVC 0.81 348 P 54 47.74 -0.1  
 MARC 0.89 319 P 54 48.59 -0.9  
 TEJ 0.90 357 P 54 47.56 -2.1  
 LPC 0.92 281 P 54 48.75 -1.2  
 WOFM 1.21 357 P 54 54.06 -0.9  
 WBSM 1.27 18 P 54 56.02 0.0  
 CRGC 1.28 315 P 54 55.52 -0.7  
 WORM 1.40 13 P 54 54.99 -3.2  
 SCCM 1.41 296 P 54 57.52 -0.9  
 BCH 1.47 306 ePn 54 57.97 -1.4  
 WSHM 1.60 35 P 55 01.20 0.1  
 TOW 1.64 25 P 55 02.71 1.1  
 PLM 1.76 123 eP 55 02.63 -0.9  
 GSC 1.78 57 eP 55 02.59 -1.2  
 WLHM 1.84 8 P 55 05.88 1.1  
 PHAM 2.09 316 (P) 55 07.76 -0.4  
 PHBM 2.26 328 P 55 11.92 1.4  
 MTUM 3.02 1 eP 55 26.39 4.8  
 TPNV 3.25 36 ePn 55 23.39 -1.5  
 MMPV 3.29 354 eP 55 31.94 6.4  
 MEMM 3.34 356 eP 55 33.19 7.3  
 26 obs. associated

JAN 18, 1994 02h 00m 46.28± 0.48s  
 34.370 N ± 4.4km 118.644 W ± 3.2km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.3 (GS).

FTC 0.54 338 P 00 56.63 -0.6  
 RYS 0.64 295 P 00 59.22 -0.1  
 ABL 0.68 315 eP 00 58.89 -1.0  
 BMTC 0.76 3 P 01 00.45 -0.9  
 ARVC 0.77 349 P 01 00.86 -0.4  
 SSK 0.80 101 eP 01 01.75 -0.3  
 SNDC 0.82 20 P 01 02.99 0.7  
 MARC 0.85 318 P 01 02.54 -0.2  
 TEJ 0.86 358 P 01 02.26 -0.6  
 LPC 0.89 278 P 01 03.74 0.3  
 GAV 1.00 110 P 01 14.88 9.7X  
 TMB 1.02 315 P 01 06.15 0.4  
 WJPM 1.05 7 P 01 05.11 -1.0  
 WOFM 1.16 357 P 01 07.93 -0.2  
 SME 1.20 117 P 01 17.72 9.0X  
 WBSM 1.24 19 P 01 09.47 0.1  
 ELS 1.24 125 P 01 18.06 8.7X  
 CRGC 1.24 315 P 01 09.85 0.4  
 SNS 1.31 135 P 01 19.36 8.9X  
 CFT 1.31 104 P 01 20.28 9.7X  
 PEC 1.32 111 eP 01 09.65 -1.0  
 BTL 1.36 94 P 01 21.62 10.0X  
 WORM 1.36 14 P 01 12.34 1.0  
 SCCM 1.38 295 P 01 11.57 -0.1  
 MDA 1.44 108 P 01 21.75 9.3X  
 SIL 1.50 90 P 01 23.51 10.0X  
 WSHM 1.58 37 P 01 15.31 0.9  
 OLYC 1.58 126 P 01 24.63 10.3X  
 TOW 1.61 26 P 01 17.96 3.1X  
 GSC 1.78 58 eP 01 16.27 -1.0  
 PLM 1.80 124 eP 01 18.00 0.3  
 WLHM 1.80 9 P 01 17.89 0.0  
 PTRM 1.82 315 P 01 18.10 0.2  
 MTUM 2.98 1 eP 01 35.43 0.8  
 TPNV 3.23 36 ePn 01 37.35 -0.8  
 GLA 3.44 111 ePn 01 41.86 0.8  
 BONR 3.59 4 ePn 01 45.53 2.1  
 TNP 3.88 17 ePn 01 48.60 1.2  
 CMB 3.92 339 eP 01 46.99 -0.8  
 ARUT 5.42 50 (Pn) 02 08.90 -0.4

S.D. = 0.8 on 30 of 40 obs.

? JAN 18, 1994 02h 02m 29.76± 4.08s  
 34.271 N ±14.6km 118.436 W ±34.1km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.2 (GS). Double event.

SSK 0.62 95 eP 02 42.15 -0.2  
 PEC 1.12 109 eP 02 50.70 -0.2  
 PLM 1.60 124 (P) 02 58.47 0.2  
 GSC 1.69 52 eP 03 00.30 0.7  
 TPNV 3.21 33 (Pn) 03 20.85 -0.5  
 BONR 3.68 2 eP 03 34.67 6.5X  
 TNP 3.93 14 (P) 03 40.85 9.2X  
 S.D. = 0.7 on 5 of 7 obs.

& JAN 18, 1994 02h 06m 04.08s  
 34.281 N 118.469 W  
 DEPTH = 9.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.4 (GS).

SSK 0.65 96 eP 06 16.08 -1.0  
 FTC 0.68 329 P 06 16.61 -1.1  
 RYS 0.81 297 P 06 19.05 -1.0  
 BMTC 0.86 353 P 06 19.71 -1.1  
 ARVC 0.89 341 P 06 20.52 -0.8  
 TEJ 0.96 349 P 06 20.25 -2.3  
 MARC 1.02 315 P 06 22.44 -0.9  
 LPC 1.05 282 P 06 23.09 -1.0  
 PEC 1.15 109 eP 06 24.46 -1.3  
 TMB 1.19 313 P 06 25.77 -0.6  
 WOFM 1.27 351 P 06 27.27 -0.5  
 WBSM 1.28 12 P 06 27.42 -0.6  
 CRGC 1.41 313 P 06 29.61 -0.4  
 WSHM 1.57 30 P 06 32.72 0.5  
 PLM 1.63 124 eP 06 31.04 -2.1  
 TOW 1.63 21 P 06 35.25 2.2  
 VPEN 1.75 18 P 06 36.99 2.1  
 RCWM 1.80 22 P 06 38.50 3.0  
 WLHM 1.87 4 P 06 39.06 2.3  
 TPNV 3.22 34 ePn 06 54.39 -1.5  
 GLA 3.28 111 P 07 16.30 19.7  
 BONR 3.67 2 eP 07 11.13 8.7  
 22 obs. associated

? JAN 18, 1994 02h 14m 07.36± 2.84s  
 32.508 S ±20.6km 67.820 W ±35.2km  
 DEPTH = 124.9 ± 14.6 km  
 MENDOZA PROVINCE, ARGENTINA (139)

RTCV 0.89 316 iPd 14 26.50 -2.6  
 MDZ 0.95 246 iP 14 21.60 -8.1X  
 IS 14 29.90  
 CFA 0.97 338 ePc 14 30.10 0.3  
 ZON 1.20 323 iP 14 32.00 -0.3  
 eS 14 37.50  
 RTLL 1.30 335 iPd 14 35.20 2.0  
 RTCB 1.32 320 iPd 14 34.00 0.5  
 FCH 2.23 248 iP 14 44.04 -0.8  
 IS 15 10.32  
 JACH 2.35 265 iPd 14 46.52 0.5  
 IS 15 15.33  
 PEL 2.49 255 iP 14 48.58 0.7  
 IS 15 17.44  
 PCH 2.52 243 eP 14 47.83 -0.4  
 IS 15 18.14  
 SAN 2.57 248 iPd 14 50.37 1.6  
 IS 15 19.88  
 ROCH 2.73 259 iPd 14 50.84 -0.3  
 IS 15 25.52  
 CHCH 2.77 238 iP 14 52.63 1.2  
 IS 15 25.47  
 CACH 2.83 235 iP 14 53.48 1.2  
 IS 15 27.43  
 TACH 2.86 246 iP 14 51.52 -1.1  
 IS 15 26.14  
 IHA 3.26 260 eP 14 58.50 0.6  
 (S) 15 39.00  
 LCCH 3.30 252 iP 14 57.30 -1.1  
 LNV 3.34 243 (P) 14 57.34 -1.6  
 MOCB 11.38 10 P 16 58.30 10.6X  
 LPB 15.91 359 eP 17 47.00 1.1  
 LPAZ 16.15 359 P 17 47.60 -1.5  
 SIV 17.55 22 P 18 17.40 11.8X  
 S.D. = 1.3 on 19 of 22 obs.



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 & JAN 18, 1994 02h 15m 42.94s  
 34.378 N 118.505 W  
 DEPTH = 0.6km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.2 (GS).

FTC	0.59	327 P	15 54.29	-0.4
SSK	0.69	104 eP	15 55.85	-0.9
RYS	0.75	291 P	15 57.80	-0.1
PLEC	0.75	322 P	15 57.90	0.0
ABL	0.76	309 eP	15 57.00	-1.0
BMTC	0.76	354 P	15 57.06	-1.0
ARVC	0.79	340 P	15 57.77	-1.0
TEJ	0.86	350 P	15 57.86	-2.3
MARC	0.93	312 P	16 00.54	-0.9
LPC	1.01	277 P	16 01.96	-1.0
WJPM	1.03	1 P	16 01.62	-1.8
TMB	1.10	310 P	16 04.23	-0.4
WOFM	1.17	352 P	16 04.48	-1.2
WBSM	1.19	14 P	16 05.84	-0.4
CRGC	1.32	311 P	16 07.77	-0.6
SCCM	1.48	293 P	16 09.98	-0.9
WSHM	1.50	33 P	16 09.96	-1.2
BCH	1.53	302 eP	16 10.16	-1.5
		eS	16 31.15	

WCHM	1.54	13 P	16 12.81	0.8
TOW	1.55	23 P	16 11.80	-0.1
VPFM	1.67	20 P	16 15.23	1.6
GSC	1.67	56 eP	16 12.68	-1.0
PLM	1.71	126 eP	16 11.91	-2.3
WLHM	1.78	5 P	16 16.17	0.8
PHAM	2.13	314 (P)	16 18.89	-1.3
TPNV	3.15	35 eP	16 33.45	-1.5
MEMM	3.30	354 (Pn)	16 35.79	-1.0
BONR	3.57	3 ePn	16 40.74	-0.3
ARUT	5.33	49 eP	17 06.48	0.6
MSU	6.56	49 (Pn)	17 23.87	0.6

30 obs. associated

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 & JAN 18, 1994 02h 18m 27.88s  
 34.299 N 118.392 W  
 DEPTH = 2.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.0 (GS).

SSK	0.59	98 eP	18 39.03	-0.6
BMTC	0.85	349 P	18 43.56	-1.4
RYS	0.86	294 P	18 45.25	0.0
ABL	0.88	309 eP	18 43.85	-1.7
ARVC	0.90	337 P	18 44.91	-0.9
TEJ	0.96	345 P	18 43.74	-3.1
MARC	1.05	312 P	18 47.45	-0.9
PEC	1.10	111 eP	18 47.47	-1.8
WJPM	1.11	356 P	18 48.36	-1.1
WBSM	1.25	9 P	18 50.81	-1.2
WOFM	1.26	348 P	18 52.02	0.0
WORM	1.40	5 P	18 53.61	-0.8
CRGC	1.44	311 P	18 54.88	-0.2
WSHM	1.52	29 P	18 55.18	-1.0
PLM	1.58	126 eP	18 55.14	-2.0
TOW	1.59	19 P	18 56.36	-0.7
SCCM	1.60	294 P	18 56.88	-0.4
BCH	1.65	303 eP	18 56.65	-1.4
VPFM	1.71	16 P	19 00.09	1.1
WLHM	1.85	2 P	19 01.79	0.7
TPNV	3.17	33 eP	19 18.73	-1.0

21 obs. associated

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 & JAN 18, 1994 02h 26m 17.21s  
 34.326 N 118.724 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

ABL	0.66	322 eP	26 29.02	-1.5
SSK	0.86	97 eP	26 33.44	-1.0
PEC	1.37	108 eP	26 41.28	-2.1
		eS	27 00.14	
BCH	1.41	308 eP	26 43.10	-1.0
PLM	1.83	122 eP	26 47.94	-2.4
GSC	1.86	58 eP	26 48.86	-1.8
MTUM	3.02	2 ePg	27 10.62	3.2
BONR	3.64	5 ePg	27 23.61	7.4

8 obs. associated

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 & JAN 18, 1994 02h 28m 39.84s

34.310 N 118.447 W  
 DEPTH = 2.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.9 (PAS), 2.8 (GS).

SSK	0.63	99 eP	28 51.76	-0.7
RYS	0.82	294 P	28 55.52	-0.7
BMTC	0.83	352 P	28 55.70	-0.8
ABL	0.84	310 eP	28 54.08	-2.5
ARVC	0.87	339 P	28 56.29	-1.0
TEJ	0.94	348 P	28 55.27	-3.3
MARC	1.01	313 P	28 58.58	-1.1
PEC	1.15	111 eP	29 00.35	-1.7
WBSM	1.25	12 P	29 03.42	-0.5
WSHM	1.54	30 P	29 07.21	-1.1
TOW	1.60	20 P	29 08.35	-0.8
BCH	1.61	303 eP	29 07.58	-1.8
PLM	1.63	125 eP	29 07.13	-2.7
GSC	1.67	53 eP	29 09.23	-1.1
RCWM	1.76	22 P	29 12.77	1.1
MTUM	3.04	358 ePg	29 35.35	5.3
MMFM	3.33	352 ePg	29 40.66	6.4
BONR	3.64	2 ePg	29 46.45	7.8

18 obs. associated

-----  
 & JAN 18, 1994 02h 53m 51.86s  
 34.301 N 118.506 W  
 DEPTH = 11.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.3 (PAS), 3.2 (GS).

FTC	0.65	331 P	54 03.91	-0.9
SSK	0.68	97 iPc	54 04.39	-1.0
RYS	0.78	296 P	54 06.57	-0.5
ABL	0.81	313 eP	54 05.99	-1.6
PLEC	0.81	325 P	54 07.48	-0.1
BMTC	0.84	355 P	54 07.05	-1.0
SNDC	0.86	11 P	54 09.50	1.1
ARVC	0.87	342 P	54 07.84	-0.6
MARC	0.98	316 P	54 09.84	-0.6
LPC	1.02	281 P	54 10.36	-0.7
WJPM	1.11	1 P	54 12.01	-0.6
TMB	1.15	313 P	54 13.14	-0.3
PEC	1.19	110 eP	54 12.54	-1.4
WOFM	1.24	352 P	54 14.53	-0.4
WBSM	1.27	14 P	54 14.90	-0.6
CRGC	1.37	313 P	54 16.89	-0.1
WASM	1.43	358 P	54 18.39	0.4
SCCM	1.52	295 P	54 19.37	0.4
WSHM	1.57	32 P	54 20.93	1.2
BCH	1.57	305 eP	54 18.91	-0.9
TOW	1.62	22 P	54 21.10	0.6
PLM	1.66	124 eP	54 19.70	-1.5
GSC	1.72	54 eP	54 21.49	-0.5
VPFM	1.74	19 P	54 24.92	2.6
RCWM	1.79	23 P	54 23.51	0.5
WLHM	1.85	5 P	54 25.82	1.7
PHAM	2.18	315 (P)	54 30.07	1.5
MTUM	3.05	359 ePg	54 47.24	6.2
TPNV	3.22	34 ePn	54 42.45	-1.0
GLA	3.31	111 ePn	54 44.56	-0.1
MMFM	3.33	353 ePg	54 51.79	6.6
BONR	3.65	3 ePg	54 58.05	8.3
TNP	3.91	15 ePg	55 05.00	11.6

33 obs. associated

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 ? JAN 18, 1994 03h 04m 29.82± 0.99s  
 28.983 N ±10.5km 103.899 E ±18.7km  
 DEPTH = 10.0km (geophysicist)  
 4.2mb ( 5 obs.)  
 SICHUAN, CHINA (307)  
 ML 3.9 (BJI).

CD2	1.92	356 iPg	05 04.50	1.5
		Sg	05 30.00	
GYA	3.51	135 Pn	05 30.40	4.7X
		Sn	06 14.00	
KMI	3.98	195 Pnc	05 42.60	10.2X
		Sn	06 35.00	
XAN	6.62	39 Pn	06 09.30	-0.3
		Sn	07 21.50	
		Sg	07 53.80	
LZH	7.08	360 ePn	06 20.00	3.8X
	1.2s	18.00nm		5.1mb
		sP	06 25.00	
LZH	7.08	360 Pg	06 45.00	28.8X
		Lg	08 30.00	

TIY	11.25	37 eP	07 13.30	-0.4
WRA	56.83	145 P	14 17.80	0.9
	0.5s	0.50nm		3.8mb
WB2	56.83	145 iPd	14 17.00	0.0
	0.6s	2.20nm		4.4mb
HFS	65.43	327 eP	15 13.40	-1.3
	0.6s	1.70nm		4.4mb
YKA	83.77	17 P	16 59.70	-0.4
	0.6s	0.20nm		3.5mb

S.D. = 1.1 on 7 of 11 obs.

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 & JAN 18, 1994 03h 11m 52.36s  
 34.243 N 118.573 W  
 DEPTH = 3.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.9 (PAS).

SSK	0.73	92 iPc	12 05.99	-1.0
ABL	0.81	319 eP	12 07.48	-1.0
		eS	12 19.94	
PLM	1.68	121 ePn	12 20.77	-2.2
GSC	1.80	54 ePn	12 24.14	-0.5
TPNV	3.30	34 ePn	12 44.46	-1.6
BONR	3.71	3 ePn	12 51.68	-0.4

6 obs. associated

-----  
 & JAN 18, 1994 03h 27m 13.68s  
 34.378 N 118.640 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS).

BCH	1.44	305 eP	27 38.38	-2.0
PLM	1.80	124 ePn	27 42.22	-3.4
MTUM	2.97	1 ePg	28 06.82	4.4

3 obs. associated

-----  
 JAN 18, 1994 03h 31m 00.67± 0.62s  
 34.239 N ± 5.9km 118.484 W ± 4.1km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.5 (GS).

SSK	0.66	92 iPc	31 13.45	-0.4
FTC	0.71	332 P	31 14.30	-0.5
RYS	0.82	300 P	31 17.81	1.1
PLEC	0.87	327 P	31 18.04	0.5
BMTC	0.90	354 P	31 17.31	-0.7
ARVC	0.93	342 P	31 18.02	-0.4
TEJ	1.00	350 P	31 17.59	-2.1
MARC	1.04	317 P	31 20.25	0.0
LPC	1.05	285 P	31 20.45	-0.1
PEC	1.15	107 ePc	31 21.55	-0.7
		eS	31 36.93	
WJPM	1.17	0 P	31 22.34	-0.2
TMB	1.21	315 P	31 23.30	0.0
WOFM	1.31	352 P	31 24.65	-0.3
WBSM	1.33	12 P	31 25.60	0.3
SCCM	1.56	297 P	31 29.31	0.8
WSHM	1.61	30 P	31 30.12	0.8
PLM	1.61	123 eP	31 28.76	-0.7
BCH	1.62	306 eP	31 29.48	0.0
TOW	1.67	20 P	31 29.77	-0.4
GSC	1.74	52 eP	31 30.51	-0.7
VPFM	1.79	18 P	31 32.93	0.9
WLHM	1.91	4 P	31 35.66	1.7
PCRM	2.45	320 P	31 38.88	-2.4
MTUM	3.11	359 ePg	31 56.85	6.0X
TPNV	3.26	33 eP	31 51.88	-1.1
GLA	3.27	110 ePn	31 54.02	1.0
MMFM	3.39	353 ePg	32 00.04	5.0X
MRCM	3.43	360 ePg	32 02.91	7.5X
MEMM	3.44	354 ePn	31 57.24	1.9
BONR	3.71	2 ePg	32 08.48	8.9X
TNP	3.97	15 ePg	32 15.40	12.3X
ARUT	5.41	48 ePn	32 24.41	0.9
MSU	6.64	48 ePn	32 41.54	0.6

S.D. = 1.0 on 28 of 33 obs.

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 & JAN 18, 1994 03h 34m 11.49s  
 34.369 N 118.646 W  
 DEPTH = 3.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.5 (PAS), 3.7 (GS).

ABL	0.68	316 eP	34 23.65	-1.3
ARVC	0.77	349 P	34 25.81	-1.1



18d 03h

SSK	0.80	101	eP	34	26.15	-1.4
WJPM	1.05	7	P	34	30.71	-1.3
PEC	1.32	111	eP	34	34.15	-2.4
			eS	34	52.33	
WASM	1.37	3	P	34	36.58	-1.0
SCCM	1.38	295	P	34	32.95	-4.7
BCH	1.44	305	eP	34	36.09	-2.4
GSC	1.78	58	eP	34	41.27	-2.1
PLM	1.80	124	eP	34	41.43	-2.4
WLHM	1.80	9	P	34	43.36	-0.6
PTRM	1.82	315	P	34	41.66	-2.2
PHAM	2.05	316	eP	34	44.63	-2.7
PKEM	2.07	325	eP	34	46.00	-1.6
WKR	2.10	314	P	34	45.54	-2.5
PHBM	2.21	328	P	34	49.56	0.0
PTV	2.43	316	P	34	50.02	-2.7
LRC	2.71	314	P	34	53.18	-3.6
SHG	2.95	315	P	34	56.18	-3.9
MTUM	2.98	1	ePn	35	01.00	0.3
			eS	35	43.39	
TPNV	3.23	36	ePn	35	01.84	-2.4
			ePg	35	12.54	
BPRM	3.24	310	P	35	00.68	-3.6
MMPM	3.25	355	ePn	35	03.74	-0.9
BSLM	3.26	318	P	35	02.09	-2.4
BSRM	3.28	315	P	35	01.12	-3.7
MRCM	3.30	2	ePg	35	11.38	6.1
MEMM	3.30	356	ePn	35	04.38	-0.7
SAO	3.30	317	eP	35	01.54	-3.6
GLA	3.44	111	ePn	35	06.30	-0.9
HCOM	3.54	316	P	35	04.82	-3.7
CBC	3.54	317	P	35	06.13	-2.4
BONR	3.59	4	ePn	35	08.86	-0.6
JBZM	3.68	317	P	35	07.80	-2.6
ARN	3.79	323	eP	35	08.30	-3.8
COE	3.79	320	eP	35	07.96	-4.1
TNP	3.88	17	ePg	35	22.37	8.8
CMB	3.92	339	eP	35	11.40	-2.5
LT3	4.09	316	P	35	12.30	-4.0
ARUT	5.42	50	ePn	35	34.97	-0.4
ORV	5.66	337	eP	35	35.96	-2.6
MSU	6.66	50	ePn	35	50.90	-1.9

41 obs. associated

JAN 18, 1994 03h 42m 34.53± 0.77s  
 34.276 N ± 6.8km 118.653 W ± 4.7km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.2 (GS).

FTC	0.63	342	P	42	45.59	-1.6
RYS	0.68	303	P	42	48.65	0.4
PLEC	0.77	334	P	42	49.54	-0.1
SSK	0.80	94	eP	42	49.54	-0.6
ARVC	0.86	350	P	42	49.79	-1.3
LPC	0.90	284	P	42	51.77	-0.2
TEJ	0.95	358	P	42	50.95	-1.7
TMB	1.09	318	P	42	55.61	0.6
WJPM	1.14	7	P	42	54.84	-1.1
WOFM	1.26	358	P	42	56.90	-1.1
PEC	1.30	107	eP	42	57.71	-0.9
CRGC	1.31	318	P	42	59.18	0.4
WBSM	1.33	18	P	42	58.56	-0.6
WORM	1.46	13	P	43	01.14	0.2
BCH	1.49	308	eP	43	00.35	-1.1
			eS	43	23.30	
WSHM	1.66	35	P	43	04.38	0.6
WCHM	1.67	16	P	43	04.55	0.3
TOW	1.69	25	P	43	05.86	1.5
PLM	1.75	121	eP	43	05.67	0.4
VPBM	1.81	22	P	43	08.11	2.1
GSC	1.83	56	eP	43	05.42	-1.0
RCWM	1.86	26	P	43	08.56	1.7
WLHM	1.89	8	P	43	09.00	1.5
PSRM	2.07	320	P	43	16.85	7.1X
PHAM	2.11	318	eP	43	12.16	1.7
MTUM	3.07	1	ePg	43	30.28	6.1X
TPNV	3.31	36	ePn	43	26.87	-0.7
MMPM	3.34	355	(Pn)	43	31.47	3.3X
SAO	3.37	318	eP	43	27.12	-1.1
MEMM	3.39	356	(Pn)	43	29.59	1.1
BONR	3.68	4	ePg	43	40.86	7.9X
TNP	3.97	17	ePg	43	46.86	9.9X
CMB	4.00	340	eP	43	37.81	0.5
ARUT	5.49	49	ePg	44	15.85	17.4X

S.D. = 1.1 on 28 of 34 obs.

& JAN 18, 1994 04h 01m 26.76s  
 34.358 N 118.622 W  
 DEPTH = 1.4km  
 4.0mb ( 5 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.3 (PAS), 4.5  
 (BRK), 4.6 (GS). Mo=4.4\*10\*\*15  
 Nm (BRK).

FTC	0.56	337	P	01	37.50	-0.4
ABL	0.70	315	ePc	01	39.64	-1.0
SSK	0.78	101	eP	01	41.57	-0.8
ARVC	0.79	348	P	01	41.79	-0.7
TEJ	0.87	356	P	01	42.36	-1.8
LPC	0.91	279	P	01	43.49	-1.5
WJPM	1.06	6	P	01	45.84	-1.7
WBSM	1.24	18	P	01	49.97	-0.8
CRGC	1.26	315	P	01	50.25	-0.9
PEC	1.30	111	eP	01	49.49	-2.1
WASM	1.38	2	P	01	52.68	-0.4
BCH	1.46	305	ePc	01	52.39	-1.9
WCHM	1.59	16	P	01	55.14	-1.2
PLM	1.77	124	eP	01	56.31	-2.6
PTRM	1.84	315	P	01	56.36	-3.3
PHAM	2.07	316	eP	02	01.00	-2.1
PKEM	2.09	325	eP	02	01.75	-1.6
PADM	2.24	305	P	01	59.99	-5.6
PARM	2.35	324	P	02	06.65	-0.5
PTV	2.45	316	P	02	06.30	-2.2
BTW	2.71	317	P	02	10.11	-2.2
MTUM	2.99	1	ePn	02	15.80	-0.5
BRMM	3.05	325	P	02	16.67	-0.4
TPNV	3.23	36	ePn	02	18.31	-1.4
MMPM	3.26	354	ePn	02	20.23	-0.1
ORC	3.27	360	P	02	23.12	2.7
BVYM	3.30	317	P	02	17.42	-3.1
MCSM	3.30	356	P	02	22.03	1.2
MRCM	3.31	2	ePn	02	20.84	-0.1
MEMM	3.31	356	ePn	02	19.55	-1.1
SAO	3.33	317	ePn	02	17.20	-3.8
FRP	3.34	316	P	02	17.09	-4.2
GLA	3.42	111	ePn	02	21.17	-1.2
HERM	3.50	315	P	02	21.84	-1.6
BONR	3.60	4	eP	02	25.27	0.2
ARN	3.81	322	ePn	02	23.73	-4.1
COE	3.81	320	eP	02	25.09	-2.8
MHC	3.86	321	eP	02	26.94	-1.7
TNP	3.89	17	ePn	02	29.31	0.2
			ePg	02	38.90	
CMB	3.94	339	eP	02	28.11	-1.6
			eS	03	15.31	
BKS	4.57	321	ePd	02	35.38	-3.2
HMR	4.58	327	eP	02	37.08	-1.6
KVN	4.70	5	ePn	02	39.00	-1.7
NTYM	5.18	322	eP	02	44.01	-3.2
ARUT	5.41	49	ePn	02	50.21	-0.6
ORV	5.68	337	eP	02	51.25	-3.0
LMEM	6.60	340	(P)	03	07.26	-0.2
MSU	6.65	50	ePn	03	08.05	-0.2
TUC	6.87	105	ePn	03	08.51	-2.7
	0.8s	3.21nm			4.5mb X	
WDC	6.95	335	eP	03	08.97	-3.2
LGPM	7.34	334	ePn	03	16.80	-1.0
DUG	7.44	37	ePn	03	18.26	-1.0
			ePg	03	46.18	
LBFM	7.44	341	eP	03	18.17	-1.1
KMPM	7.46	326	eP	03	17.02	-2.5
FHC	7.71	328	(P)	03	19.74	-3.2
SRU	8.05	52	ePn	03	29.07	1.3
PV09	8.69	59	eP	03	36.69	-0.2
PV10	8.71	60	eP	03	36.82	-0.2
HVU	8.72	30	(P)	03	37.21	0.1
PV08	9.07	59	eP	03	41.25	-0.9
PTI	9.80	28	(P)	03	52.80	0.8
ALQ	10.04	83	ePn	03	52.24	-3.1
VGB	11.27	352	(P)	04	10.05	-1.9
MCMT	11.36	21	eP	04	16.00	2.6
LRM	12.38	21	eP	04	33.00	5.8
LON	12.61	350	eP	04	28.83	-1.3
RMW	13.31	351	(P)	04	38.04	-1.4
LTX	13.66	107	eP	04	41.92	-2.2
RSSD	14.90	45	eP	04	59.74	-0.8
	1.2s	14.70nm			4.4mb	
MEO	16.51	83	iPc	05	23.40	2.2
TUL	18.73	79	iPc	05	48.10	-0.8
UYO	19.97	84	iPd	06	06.10	2.8
MIAR	20.64	82	eP	06	06.65	-3.7

ULM	0.9s	14.44nm			4.3mb	
YKA	23.00	39	eP	06	34.50	0.7
	28.27	4	P	07	22.70	-0.5
	0.8s	0.40nm			3.3mb	
MBC	41.98	360	eP	09	21.00	0.6
	1.0s	2.00nm			3.8mb	
FRB	42.33	30	eP	09	23.50	0.1
LPZ	69.58	128	iPc	12	37.60	-2.8
LPB	69.78	128	Pc	12	38.00	-3.4
MOCB	74.80	129	P	13	09.10	-2.1
PPD	85.03	121	(P)	14	04.00	-1.4
GEC2	86.92	29	P	14	12.80	-1.8
	1.1s	0.78nm			3.8mb	
	82 obs.	associated				

? JAN 18, 1994 04h 01m 59.25± 1.07s  
 18.295 S ±16.6km 166.579 E ±13.0km  
 DEPTH = 33.0km (normal)  
 3.9mb ( 2 obs.)  
 VANUATU ISLANDS REGION (185)

BKM	1.70	69	iPc	02	27.10	0.0
			iS	02	51.00	
DZM	3.76	182	iPc	02	56.30	-0.1
			iS	03	41.60	
WRA	30.48	262	P	08	10.60	-1.0
	0.5s	0.20nm			3.2mb	
ASPA	30.93	254	iPd	08	16.60	1.0
	0.4s	4.80nm			4.6mb	
	S.D. = 1.4	on	4 of	4 obs.		

\* JAN 18, 1994 04h 26m 06.79± 0.98s  
 34.284 N ±11.5km 118.639 W ± 8.2km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.1 (GS).

ABL	0.74	320	eP	26	21.43	-0.1
PEC	1.29	107	eP	26	30.55	-0.1
			eS	26	49.00	
BCH	1.49	307	ePn	26	33.71	0.0
PLM	1.75	122	eP	26	37.67	0.2
GSC	1.82	56	eP	26	38.18	-0.3
MTUM	3.06	1	ePg	27	02.66	6.4X
TPNV	3.30	36	ePn	26	59.95	0.3
BONR	3.67	4	ePg	27	15.04	9.9X
TNP	3.96	16	ePg	27	22.68	13.6X
	S.D. = 0.3	on	6 of	9 obs.		

JAN 18, 1994 04h 30m 32.29± 0.62s  
 34.319 N ± 5.9km 118.650 W ± 4.2km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.9 (GS). Double event.

ECF	0.39	291	P	30	41.09	0.8
LHU	0.40	29	P	30	40.77	0.2
RYS	0.66	299	P	30	45.62	0.0
ABL	0.71	319	eP	30	45.92	-0.5
BMTc						



TEJ	0.89	347	P	31	34.50	-2.7	CKT	0.90	282	ePc	33	53.46	-1.4	BCH	1.59	304	eP	43	55.03	-1.0
MARC	0.97	311	P	31	37.58	-1.1	BKG	0.92	273	iPc	33	53.77	-1.3	WCHM	1.61	12	P	43	55.56	-0.9
SME	1.06	120	P	31	38.56	-1.5				eS	34	06.65		TOW	1.61	21	P	43	55.72	-0.5
TMB	1.15	309	P	31	40.88	-0.9	CP2	0.93	285	eP	33	54.01	-1.4	PLM	1.64	125	eP	43	54.86	-1.9
PEC	1.17	113	iPc	31	40.23	-1.8	NCG	0.94	294	iPc	33	54.26	-1.2	GSC	1.70	53	eP	43	56.40	-1.1
SNS	1.19	141	P	31	40.97	-1.4				eS	34	07.66		WLHM	1.85	4	P	43	57.97	-2.0
MLL	1.28	102	P	31	43.11	-1.0	CKL	0.96	281	eP	33	54.64	-1.3	PHAM	2.20	315	eP	44	01.70	-3.0
WORM	1.34	7	P	31	44.08	-0.9	BGL	1.00	284	ePc	33	55.05	-1.5	PKEM	2.21	323	(P)	44	02.58	-2.3
CRGC	1.37	310	P	31	44.62	-0.9	KNK	1.01	67	ePc	33	55.20	-1.4	PHBM	2.35	326	P	44	09.40	2.6
WSCM	1.41	19	P	31	45.34	-0.8				eS	34	09.25		PAPM	2.86	305	P	44	10.94	-3.3
SCCM	1.53	293	P	31	47.54	-0.3	PWL	1.01	99	eP	33	55.06	-1.6	BHPR	2.99	360	P	44	22.71	6.5
NMC	1.54	17	P	31	46.86	-1.1	GHO	1.02	43	ePd	33	55.32	-1.6	MTUM	3.05	359	(Pn)	44	16.61	-0.3
TOW	1.55	21	P	31	47.65	-0.4				eS	34	09.45		TPNV	3.20	34	eP	44	17.95	-1.2
RMR	1.56	95	P	31	48.09	-0.2	SEW	1.04	153	eP	33	55.13	-2.0	GLA	3.29	111	(P)	44	19.14	-1.1
BCH	1.58	302	eP	31	47.28	-1.2	SKT	1.10	330	iPd	33	56.54	-1.6	CLKR	3.30	355	P	44	27.84	7.3
PLM	1.66	127	eP	31	47.96	-1.8				eS	34	11.49		ORC	3.33	358	P	44	28.54	7.5
VPBM	1.66	18	P	31	49.41	-0.4	DFR	1.21	250	ePc	33	57.68	-2.4	MMPM	3.33	352	ePn	44	20.70	-0.4
PSP	1.68	109	P	31	48.86	-1.0				eS	34	13.75		MRCM	3.36	360	ePn	44	19.55	-1.9
RCWM	1.71	22	P	31	51.84	1.4	SML	1.26	51	ePd	33	58.58	-2.1				ePg	44	28.10	
CSSM	1.75	18	P	31	52.24	1.2	REF	1.26	245	ePc	33	58.66	-2.2	MEMM	3.38	354	(Pn)	44	20.79	-0.6
TPC	2.01	97	P	31	53.59	-1.1				eS	34	15.29		BPRM	3.39	309	P	44	19.28	-2.4
PAGM	2.01	313	P	31	57.59	2.9	CFI	1.28	82	eP	33	58.69	-2.2	SAO	3.45	316	eP	44	19.37	-3.1
PMRM	2.04	315	P	31	55.59	0.5	BRLK	1.30	191	eP	33	59.05	-2.2	BONR	3.65	2	ePn	44	25.81	0.2
YAO	2.12	124	P	31	56.20	0.0				eS	34	15.96					ePg	44	34.04	
PHAM	2.17	313	eP	31	53.82	-3.2	RSO	1.30	245	ePc	33	59.12	-2.3	HCOM	3.69	315	P	44	23.45	-2.4
PKEM	2.17	322	(P)	31	56.18	-0.8	RS2	1.30	245	ePc	33	59.17	-2.3	TNP	3.91	15	(Pn)	44	28.59	-0.6
CTW	2.25	107	P	31	59.77	1.6				eS	34	16.30		ARN	3.93	322	eP	44	26.36	-2.9
BATC	2.35	112	P	32	01.70	2.2	RDW	1.31	246	ePc	33	59.31	-2.3	COE	3.93	320	eP	44	27.48	-1.8
SUP	2.60	122	P	32	02.67	-0.5				eS	34	17.02		CMB	4.04	338	eP	44	29.98	-0.8
LRC	2.83	312	P	32	04.40	-2.1	RED	1.33	243	eP	33	59.48	-2.2	HMR	4.69	326	(Pn)	44	38.29	-1.8
PAPM	2.84	304	P	32	03.94	-2.8				eS	34	16.69		KVN	4.75	4	ePn	44	40.03	-1.1
SGL	2.85	126	P	32	07.05	0.4	NCT	1.34	250	ePc	33	59.57	-2.3				ePg	44	53.62	
BHPR	2.93	359	P	32	14.26	6.2	CUT	1.38	2	eP	33	00.45	-1.9	ARUT	5.36	48	ePn	44	50.23	0.5
LTC	2.94	106	P	32	11.47	3.5	HOM	1.51	205	eP	34	03.19	-1.1	MSU	6.59	49	ePn	45	07.06	-0.1
MTUM	2.98	358	ePn	32	07.91	-0.8				eS	34	22.58					ePg	45	27.39	
SHG	3.07	313	P	32	07.40	-2.4	CNPM	1.57	196	eP	34	02.97	-2.1	DUG	7.41	36	ePg	45	43.86	25.3
CWCR	3.13	2	P	32	17.52	6.8				eS	34	22.60		PV09	8.62	58	eP	45	34.85	-0.7
TPNV	3.14	34	ePn	32	10.07	-0.8	ILIM	1.59	234	eP	34	03.32	-2.1	PV10	8.63	59	(Pn)	45	34.89	-0.8
ORC	3.27	357	P	32	19.73	6.9				eS	34	23.76					ePg	46	04.69	
MMPM	3.27	352	ePn	32	13.00	0.0	INE	1.64	235	eP	34	04.21	-2.1	47 obs. associated						
GLA	3.29	112	ePn	32	12.59	-0.4	MTU	1.71	127	eP	34	06.17	-0.9	-----						
MRCM	3.30	359	ePn	32	12.31	-1.0	VZW	1.86	87	eP	34	06.26	-3.1	? JAN 18, 1994 04h 52m 30.70±1.75s						
			eS	33	03.99		FID	1.93	97	eP	34	06.20	-4.1	34.251 N ±24.9km 118.696 W ±12.5km						
MEMM	3.32	353	ePn	32	13.85	0.5	VLZ	1.97	85	eP	34	07.86	-3.0	DEPTH = 10.0km (geophysicist)						
			ePg	32	19.76					eS	34	31.51		SOUTHERN CALIFORNIA (43)						
SAO	3.42	315	ePn	32	12.27	-2.5	OPT	1.98	227	eP	34	09.39	-1.7	ML 2.8 (GS). Double event.						
BONR	3.59	2	(Pn)	32	17.31	-0.1	HUR	1.98	10	eP	34	10.19	-0.9							
HCOM	3.66	314	P	32	15.76	-2.4	HIN	2.01	107	eP	34	07.87	-3.6	SSK	0.83	93	eP	52	47.32	0.4
CBO	3.80	317	P	32	19.96	-0.3	KLU	2.20	76	eP	34	11.20	-3.2	PEC	1.32	105	eP	52	54.89	-0.3
TNP	3.84	15	ePn	32	20.60	-0.4	PDB	2.27	238	eP	34	12.61	-2.5	BCH	1.47	310	eP	52	57.44	0.0
ARN	3.89	321	eP	32	19.48	-2.0	TOA	2.28	60	P	34	15.30	-0.2	GSC	1.88	56	eP	53	03.04	-0.2
COE	3.90	319	ePn	32	19.18	-2.4	CVA	2.32	100	eP	34	12.81	-3.1	BONR	3.71	5	ePg	53	37.97	8.4X
CMB	3.98	337	eP	32	22.20	-0.6	TRF	2.43	1	eP	34	16.18	-1.4							
HMR	4.65	325	ePn	32	31.06	-1.2	RND	2.49	16	eP	34	17.73	-0.6	S.D. = 0.5 on 4 of 5 obs.						
KVN	4.69	3	ePg	32	45.50	12.6	DHY	2.49	33	eP	34	16.35	-2.2	-----						
NTYM	5.26	321	ePn	32	38.49	-2.4	KTH	2.54	355	eP	34	18.10	-1.1	? JAN 18, 1994 04h 54m 46.30±2.14s						
ARUT	5.30	48	ePn	32	42.14	0.5	SVW	2.55	274	ePc	34	15.77	-3.4	34.127 N ±27.9km 118.723 W ±12.9km						
			ePg	32	57.05		CDD	2.67	219	eP	34	18.76	-2.2	DEPTH = 10.0km (geophysicist)						
ORV	5.73	336	ePn	32	45.61	-1.9	GLB	3.20	80	eP	34	24.97	-3.5	SOUTHERN CALIFORNIA (43)						
MSU	6.54	49	ePn	32	57.66	-1.5				eS	35	01.98		ML 2.9 (GS).						
DUG	7.35	36	ePg	33	37.32	26.9	DDM	3.47	35	eP	34	31.62	-0.7	SSK	0.86	84	eP	55	03.18	0.2
			eSg	35	11.85		HDA	3.74	23	eP	34	30.87	-5.2	PEC	1.32	100	eP	55	10.56	-0.1
SRU	7.93	51	(Pn)	33	18.12	-0.5	BALM	3.91	86	P	34	38.00	-0.6	BCH	1.54	314	eP	55	13.97	0.0
PV10	8.58	59	(Pn)	33	27.11	-0.6	FBA	4.06	16	(P)	34	34.97	-5.6	GSC	1.97	53	eP	55	20.00	-0.1
ALQ	9.90	83	P	34	23.10	37.2	IL1	4.08	22	eP	34	38.55	-2.3							
							IM3	5.19	345	eP	34	53.50	-3.1	S.D. = 0.3 on 4 of 4 obs.						
68 obs. associated							61 obs. associated							-----						
-----							-----							-----						
& JAN 18, 1994 04h 33m 37.97s							& JAN 18, 1994 04h 43m 27.59s							& JAN 18, 1994 05h 01m 04.63s						
61.032 N 150.381 W							34.300 N 118.474 W							34.379 N 118.636 W						
DEPTH = 17.8km							DEPTH = 9.9km							DEPTH = 12.6km						
SOUTHERN ALASKA (2)							SOUTHERN CALIFORNIA (43)							SOUTHERN CALIFORNIA (43)						
<AEIC>. ML 2.6 (AEIC).							<PAS-P>. ML 3.6 (PAS), 3.7 (GS).							<PAS-P>. ML 3.0 (PAS), 3.3 (GS).						
SUA	0.47	338	ePd	33	47.75	0.3	SSK	0.65	98	eP	43	39.73	-1.0	FTC	0.53	337	P	01	14.55	-0.9
NKA	0.51	236	ePd	33	49.88	1.8	FTC	0.67	329	P	43	40.04	-0.9	ABL	0.67	314	ePd	01	16.90	-1.0
SLKM	0.53	171	iPd	33	48.54	0.0	ABL	0.83	312	ePc	43									



18d 05h

SCCM 1.38 294 P 01 28.65 -1.0  
 BCH 1.44 304 ePn 01 29.33 -1.2  
 GSC 1.77 58 eP 01 34.23 -1.0  
 PLM 1.80 124 eP 01 33.64 -2.1  
 PHAM 2.05 316 (P) 01 36.16 -3.1  
 PAFM 2.71 305 P 01 46.04 -2.7  
 BHRP 2.92 2 P 01 57.18 5.4  
 MTUM 2.97 1 (Pn) 01 52.55 0.1  
 TPNV 3.22 36 ePn 01 54.21 -1.8  
 MMPM 3.24 354 ePg 02 02.55 6.0  
 MRCM 3.29 2 ePg 02 03.99 6.9  
 MEMM 3.29 356 ePg 02 03.48 6.6  
 GLA 3.44 112 (Pn) 01 59.19 0.1  
 BONR 3.58 4 ePg 02 09.94 8.7  
 ARN 3.78 322 eP 02 04.29 0.3  
 TNP 3.87 17 ePg 02 14.87 9.6  
 ARUT 5.41 50 (P) 02 26.03 -1.1  
 30 obs. associated

& JAN 18, 1994 05h 09m 15.55s  
 34.289 N 118.461 W  
 DEPTH = 2.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.64 97 iPc 09 27.76 -0.6  
 eS 09 36.64  
 BCH 1.61 304 eP 09 44.59 -0.5  
 GSC 1.70 53 eP 09 44.90 -1.4  
 TPNV 3.21 34 (Pn) 10 14.96 7.0  
 4 obs. associated

? JAN 18, 1994 05h 14m 23.96± 6.73s  
 48.768 N ±36.7km 1.036 W ±36.6km  
 DEPTH = 10.0km (geophysicist)  
 FRANCE (538)  
 ML 2.3 (LDG).

FLN 0.37 91 Pg 14 31.50 0.0  
 Sg 14 37.10  
 GRR 0.40 163 Pg 14 32.10 0.0  
 Sg 14 38.10  
 LDF 0.63 106 Pg 14 36.60 0.0  
 Sg 14 45.40  
 LPF 0.74 180 Pg 14 38.40 0.0  
 Sg 14 47.90  
 MFF 2.25 164 Pg 15 06.70 4.9X  
 Sg 15 35.40  
 S.D. = 0.0 on 4 of 5 obs.

& JAN 18, 1994 05h 19m 02.55s  
 34.352 N 118.669 W  
 DEPTH = 9.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 4.0 (GS),  
 4.0 (BRK).

ABL 0.67 318 ePc 19 14.77 -1.4  
 PLEC 0.70 332 P 19 16.03 -0.4  
 SSK 0.82 100 eP 19 17.56 -1.1  
 MARC 0.85 320 P 19 18.29 -0.8  
 TMB 1.02 316 P 19 21.50 -0.5  
 PEC 1.33 110 ePc 19 25.42 -1.8  
 SCCM 1.37 296 P 19 26.51 -1.3  
 BCH 1.43 306 eP 19 27.44 -1.3  
 WCHM 1.60 18 P 19 30.35 -1.0  
 RCWM 1.80 27 P 19 36.25 2.2  
 GSC 1.80 58 eP 19 33.05 -1.0  
 PLM 1.80 123 eP 19 32.02 -2.1  
 PTRM 1.81 316 P 19 34.80 0.6  
 PHAM 2.05 317 eP 19 35.93 -1.6  
 PKEM 2.07 326 eP 19 37.29 -0.6  
 PANM 2.32 308 P 19 39.31 -2.2  
 PRI 2.42 318 eP 19 41.22 -1.8  
 is 20 16.96  
 PSAM 2.47 313 P 19 41.32 -2.2  
 BTW 2.69 317 P 19 44.80 -2.0  
 PAFM 2.70 306 P 19 44.18 -2.8  
 FRI 2.77 342 iP 19 46.20 -1.6  
 is 20 23.24

BMSM 2.88 324 P 19 47.90 -1.6  
 MTUM 3.00 2 ePn 19 50.73 -0.5  
 BRMM 3.04 325 P 19 50.20 -1.4  
 TPNV 3.26 37 eP 19 53.56 -1.3  
 BSLM 3.26 319 P 19 53.65 -1.1  
 MMPM 3.26 355 eP 19 55.30 0.1  
 BSRM 3.28 316 P 19 52.59 -2.5

SAO 3.30 318 eP 19 52.63 -2.8  
 MEMM 3.31 356 eP 19 55.39 -0.1  
 MRCM 3.32 2 ePn 19 53.85 -2.0  
 GLA 3.46 111 eP 19 56.63 -1.0  
 HCOM 3.54 316 P 19 56.62 -2.1  
 CBC 3.54 317 P 19 57.54 -1.3  
 BONR 3.61 5 (Pn) 19 59.79 -0.2  
 PEV 3.67 316 P 19 58.56 -2.1  
 EUC 3.71 317 P 19 59.47 -1.8  
 ARN 3.79 323 eP 19 59.57 -2.8  
 COE 3.79 321 eP 19 59.97 -2.4  
 MHC 3.84 322 eP 20 00.69 -2.4  
 TNP 3.90 17 ePn 20 03.16 -1.0  
 ePg 20 14.45  
 CMB 3.93 340 ePd 20 03.10 -1.2  
 JSMM 4.03 316 P 20 04.38 -1.3  
 HMR 4.56 327 eP 20 11.64 -1.6  
 KVN 4.71 5 ePn 20 16.02 0.4  
 NTYM 5.16 323 eP 20 19.69 -2.0  
 ARUT 5.45 50 eP 20 24.86 -1.2  
 ORV 5.67 337 eP 20 27.14 -1.8  
 MSU 6.68 50 eP 20 42.82 -0.6  
 DUG 7.47 37 (Pn) 20 53.66 -0.7  
 ePg 21 22.31  
 SRU 8.08 52 ePn 21 02.14 -0.9  
 PV09 8.73 59 eP 21 11.65 -0.5  
 PV10 8.74 60 eP 21 11.97 -0.3  
 53 obs. associated

\* JAN 18, 1994 05h 29m 08.78± 2.88s  
 43.773 N ±23.5km 18.969 E ±11.1km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.7 (TTG).

PLE 0.54 145 iPg 29 19.27 -0.5  
 iSg 29 25.18  
 BRY 0.93 200 iPg 29 25.07 -1.5  
 iSg 29 39.13  
 NKY 0.96 179 iPg 29 26.45 -0.7  
 iSg 29 39.06  
 IVA 1.13 143 iPg 29 29.41 -0.5  
 iSg 29 43.86  
 TTG 1.36 171 iPg 29 33.19 -0.5  
 iSg 29 51.41  
 HCY 1.37 195 iPg 29 34.83 1.0  
 iSg 29 53.25  
 PVY 1.39 148 iPg 29 34.29 0.0  
 iSg 29 52.29  
 BDV 1.49 184 iPg 29 36.91 1.3  
 iSg 29 56.39  
 ULC 1.82 173 iPnc 29 42.36 2.0  
 iSn 30 06.18  
 HVAR 1.93 253 iPn 29 41.50 -0.4  
 iSn 30 08.70  
 OHR 2.98 152 ePn 30 01.20 4.1X  
 S.D. = 1.2 on 10 of 11 obs.

\* JAN 18, 1994 05h 30m 39.01± 1.03s  
 34.355 N ±12.7km 118.655 W ± 8.8km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.8 (GS).

ABL 0.68 317 eP 30 52.42 -0.2  
 SSK 0.81 100 eP 30 54.92 0.1  
 PEC 1.32 110 eP 31 02.91 -0.6  
 BCH 1.44 306 eP 31 05.58 0.3  
 GSC 1.79 58 eP 31 11.72 1.4  
 PLM 1.80 123 eP 31 10.50 0.1  
 MTUM 2.99 1 ePg 31 33.52 6.0X  
 TPNV 3.25 36 ePn 31 30.00 -1.1  
 MMPM 3.26 355 ePg 31 38.39 6.9X  
 MEMM 3.31 356 ePg 31 39.17 7.3X  
 BONR 3.60 4 ePg 31 45.94 9.6X  
 S.D. = 1.0 on 7 of 11 obs.

? JAN 18, 1994 05h 30m 51.74± 6.34s  
 28.692 S ±53.5km 69.155 W ±27.1km  
 DEPTH = 120.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)

RTRS 1.50 190 iPc 31 19.50 0.0  
 RTLL 2.70 167 iPd 31 35.00 0.3  
 S 32 10.00  
 RTCB 2.80 174 iPd 31 36.00 -0.2  
 S 32 10.00

RTPR 2.81 125 iPd 31 36.10 0.0  
 S 32 12.00  
 CFA 3.01 165 iPc 31 39.00 0.1  
 S 32 18.90  
 RTCV 3.20 171 iPd 31 41.30 -0.2  
 S 32 23.00

S.D. = 0.2 on 6 of 6 obs.

& JAN 18, 1994 05h 31m 33.01s  
 34.343 N 118.466 W  
 DEPTH = 3.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.2 (GS).

ABL 0.80 309 eP 31 46.97 -2.1  
 eS 31 59.92  
 PEC 1.17 112 eP 31 53.32 -2.3  
 BCH 1.57 303 (P) 31 59.62 -2.4  
 GSC 1.67 55 (P) 32 00.92 -2.4  
 TPNV 3.17 34 ePn 32 23.63 -1.2  
 5 obs. associated

% JAN 18, 1994 05h 32m 36.96± 0.81s  
 32.425 S ±12.8km 70.066 W ±12.1km  
 DEPTH = 110.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.9 (SAN).

JACH 0.51 240 iPd 32 54.63 0.4  
 iS 33 08.31  
 PEL 0.89 216 iP 32 57.42 0.1  
 iS 33 12.10  
 FCH 0.92 192 iP+ 32 58.11 0.1  
 iS 33 13.85  
 ROCH 0.97 235 iP 32 58.41 0.1  
 iS 33 14.41  
 SAN 1.14 206 iP 32 59.91 -0.1  
 iS 33 16.82  
 PCH 1.25 197 iP+ 33 01.29 0.0  
 iS 33 20.45  
 RTCV 1.41 67 eP 33 03.00 -0.2  
 S 33 22.00  
 TACH 1.43 211 iP 33 03.18 -0.1  
 iS 33 23.28  
 CHCH 1.58 198 iP+ 33 05.20 0.0  
 iS 33 26.45  
 CACH 1.75 195 iPd 33 07.76 0.4  
 iS 33 31.11  
 LNV 1.90 216 iP 33 08.31 -0.8  
 iS 33 32.82

S.D. = 0.4 on 11 of 11 obs.

& JAN 18, 1994 05h 45m 06.97s  
 34.341 N 118.463 W  
 DEPTH = 1.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.8 (GS).

SSK 0.65 101 eP 45 19.38 -0.6  
 ABL 0.81 309 eP 45 22.16 -0.9  
 PEC 1.17 112 eP 45 27.85 -1.8  
 eS 45 43.84  
 BCH 1.58 303 eP 45 35.53 -0.7  
 PLM 1.66 126 eP 45 35.04 -2.4  
 GSC 1.67 54 eP 45 36.46 -1.0  
 TPNV 3.17 34 ePn 45 58.16 -0.8  
 MEMM 3.34 354 ePg 46 07.74 6.5  
 BONR 3.61 2 ePg 46 13.54 8.1  
 9 obs. associated

& JAN 18, 1994 05h 48m 24.39s  
 34.298 N 118.450 W  
 DEPTH = 6.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK 0.63 98 eP 48 36.31 -0.8  
 ABL 0.84 311 eP 48 39.47 -1.7  
 PEC 1.14 110 eP 48 44.31 -1.8  
 BCH 1.61 304 eP 48 52.57 -0.9  
 PLM 1.62 125 eP 48 51.46 -2.3  
 GSC 1.68 53 eP 48 53.88 -0.6  
 MTUM 3.05 358 ePg 49 19.87 5.7  
 TPNV 3.20 33 ePn 49 14.78 -1.4  
 MMPM 3.34 352 ePg 49 24.43 6.0  
 MEMM 3.38 353 ePg 49 25.41 6.7  
 BONR 3.65 2 ePg 49 31.09 8.2



FTC	0.66	336	P	42	56.29	-0.7
SSK	0.73	94	iPc	42	57.67	-0.5
RYS	0.75	301	P	42	57.95	-0.6
ABL	0.79	318	eP	42	58.06	-1.3
PLEC	0.81	330	P	42	59.34	-0.3
SNDC	0.90	14	P	43	01.80	0.6
TEJ	0.97	354	P	43	00.80	-1.4
MARC	0.97	319	P	43	01.69	-0.6
LPC	0.97	284	P	43	01.46	-0.9
TMB	1.14	316	P	43	04.78	-0.4
PEC	1.23	107	iPc	43	05.20	-1.4
WOFM	1.27	355	P	43	06.93	-0.5
WBSM	1.32	15	P	43	07.80	-0.4
CRGC	1.36	316	P	43	07.97	-0.7
WORM	1.45	11	P	43	09.48	-0.4
WASM	1.47	0	P	43	11.14	0.8
BCH	1.55	307	eP	43	10.14	-1.2
WSHM	1.63	33	P	43	11.42	-1.0



18d 06h

WCHM	1.67	14	P	43	12.46	-0.7
TOW	1.68	23	P	43	12.84	-0.3
PLM	1.69	122	eP	43	12.36	-1.1
GSC	1.78	54	iPc	43	13.90	-0.8
RCWM	1.84	24	P	43	18.65	3.1
PHAM	2.17	317	(P)	43	18.79	-1.5
BHPR	3.03	1	P	43	38.49	5.8
MTUM	3.08	0	(P)	43	32.82	-0.5
TPNV	3.28	35	ePn	43	34.17	-2.0
GLA	3.35	110	(P)	43	33.38	-3.6
MMPM	3.36	354	ePg	43	43.96	6.5
MRCM	3.40	1	ePg	43	46.45	8.5
MEMM	3.41	355	(Pn)	43	38.24	0.5
SAO	3.42	318	eP	43	35.06	-3.0
DIL	3.59	317	P	43	37.74	-2.6
HCOM	3.66	317	P	43	39.25	-2.2
BONR	3.69	3	ePg	43	50.43	8.3
ARN	3.91	323	(P)	43	45.46	0.5
TNP	3.96	16	ePg	43	57.14	11.3
CMB	4.04	339	eP	43	46.18	-0.6
ARUT	5.44	48	ePn	44	06.77	-0.1
MSU	6.68	49	(Pn)	44	23.88	-0.4

40 obs. associated

&amp; JAN 18, 1994 06h 45m 32.78s

34.288 N 118.470 W

DEPTH = 10.1km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.4 (PAS), 3.4 (GS).

SSK	0.65	97	iPd	45	44.87	-1.0
FTC	0.68	329	P	45	45.20	-1.1
RYS	0.81	296	P	45	47.65	-1.0
ABL	0.84	312	eP	45	47.51	-1.6
PLEC	0.84	324	P	45	48.66	-0.4
BMTC	0.85	353	P	45	48.22	-1.1
SNDC	0.86	9	P	45	50.63	1.1
ARVC	0.89	341	P	45	49.04	-0.8
MARC	1.01	315	P	45	51.02	-0.9
LPC	1.05	282	P	45	51.59	-1.1
WJPM	1.12	360	P	45	53.11	-0.7
PEC	1.16	110	iPc	45	53.07	-1.3
TMB	1.19	313	P	45	54.29	-0.7
WOFM	1.26	351	P	45	55.81	-0.5
CRGC	1.40	313	P	45	58.04	-0.5
WORM	1.42	8	P	45	57.95	-0.7
WASM	1.45	357	P	45	58.93	-0.3
SCCM	1.55	295	P	45	59.70	-0.7
WSHM	1.56	31	P	45	59.43	-1.3
BCH	1.60	304	ePn	45	59.85	-1.5
WCHM	1.62	11	P	46	00.71	-1.1
PLM	1.63	124	eP	45	59.31	-2.5
GSC	1.70	53	ePc	46	01.95	-0.8
VPEM	1.74	18	P	46	04.65	1.3
RCWM	1.79	22	P	46	07.40	3.4
WLHM	1.86	4	P	46	05.19	-0.1
PHAM	2.21	315	(P)	46	07.71	-2.3
MTUM	3.06	359	ePg	46	28.20	6.0
TPNV	3.21	34	ePn	46	22.22	-2.2
GLA	3.28	111	(P)	46	25.46	0.2
MMPM	3.35	352	ePg	46	32.39	5.9
MEMM	3.39	354	(Pn)	46	27.39	0.6
BONR	3.66	2	ePg	46	39.23	8.3
TNP	3.92	15	ePg	46	45.32	10.8
ARUT	5.37	48	ePn	46	56.01	1.0

35 obs. associated

JAN 18, 1994 06h 46m 10.12± 0.28s

8.364 S ± 5.2km 113.187 E ± 6.6km

DEPTH = 140.7km (3 depth phases)

5.2mb (26 obs.)

JAWA, INDONESIA	(277)					
MKS	6.98	64	iPc	47	54.80	3.7X
KLI	8.98	292	eP	48	18.00	0.1
			e	48	52.00	
MBL	14.25	154	eP	49	22.40	-4.3X
KGM	14.25	316	eP	49	31.00	4.2X
KNA	16.90	117	eP	49	59.00	-0.8
			eS	52	59.00	
IPM	17.68	316	eP	50	07.50	-1.6
MTN	18.19	106	eP	50	15.70	0.8
			eS	53	28.00	
MRWA	20.91	173	iPc	50	42.60	-0.4
			eS	50	52.20	37kmX

WARB	21.85	146	eP	50	52.50	0.2
			e	51	06.00	57kmX
			iS	54	54.50	
BAL	22.37	172	eP	50	57.50	0.2
			e	51	12.00	62kmX
			eS	54	01.00	
PGP	23.05	20	eP	51	07.40	3.4X
WB2	23.49	122	iPc	51	09.00	0.7
			eS	55	32.20	5.1mb
KLB	23.50	170	eP	51	26.20	17.9X
			eS	55	32.00	
COOL	23.61	163	eP	51	08.20	-1.1
			e	51	21.50	5.3mb
			eS	55	27.20	55kmX
MUN	23.66	174	eP	51	28.50	18.7X
			eS	55	35.00	
NWAO	24.73	172	eP	51	19.80	-0.1
			e	51	42.30	104kmX
			eS	56	00.30	
NNT	24.74	327	eP	51	21.70	1.6
FORT	26.28	150	eP	51	34.00	-0.1
			e	52	04.00	144km
			eS	56	33.00	
NST	27.16	332	eP	51	43.00	0.8
CHTO	30.44	333	eP	52	12.30	0.7
GYA	35.19	350	P	52	54.00	1.3
			0.8s	18.00nm	4.9mb	
STK	35.27	136	iPc	52	55.00	1.8
			0.5s	8.40nm	4.8mb	
			iPp	53	24.50	131km
SSE	39.98	11	Pc	53	34.70	2.3
CD2	40.08	347	iPc	53	34.50	1.1
			1.0s	70.00nm	5.4mb	
GBA	41.67	301	Pc	53	45.00	-1.5
			0.6s	7.00nm	4.5mb	
XAN	42.36	355	P	53	52.50	0.5
			0.6s	16.00nm	4.9mb	
HYB	42.75	307	iPc	53	54.00	-1.4
			1.0s	60.00nm	5.2mb	
LSA	43.38	332	P	54	02.00	1.2
			1.0s	47.00nm	5.1mb	
TIA	44.49	5	Pc	54	09.30	0.2
GUN	44.70	325	P	54	11.40	0.1
PKI	44.71	324	P	54	10.80	-0.6
DMN	44.92	324	P	54	12.80	-0.1
KKN	44.95	324	P	54	13.00	-0.1
LZH	45.08	349	Pc	54	15.00	1.1
			1.5s	85.00nm	5.2mb	
GKN	45.49	324	P	54	16.80	-0.5
TIY	45.84	359	Pc	54	20.20	0.4
TKSJ	46.53	24	P	54	25.70	0.4
TKSJ	46.53	24	P	54	25.80	0.5
POO	47.12	305	iPd	54	31.00	0.8
YONJ	47.36	23	P	54	32.00	0.2
WKYJ	47.38	25	P	54	32.20	0.2
BJI	48.24	3	Pc	54	38.50	0.1
			1.0s	17.00nm	4.8mb	
TSRJ	48.67	25	P	54	41.60	-0.2
BTO	48.80	357	P	54	43.00	0.1
HHC	48.99	358	Pc	54	45.00	0.7
			1.0s	27.00nm	5.0mb	
GTA	49.12	346	P	54	46.40	1.0
			1.0s	18.00nm	4.8mb	
			pP	55	20.00	147km
			PcP	56	07.00	
			ScS	04	20.00	
IIDJ	49.45	27	P	54	47.70	-0.2
MTMJ	50.33	26	P	54	54.10	-0.6
CHJJ	50.41	27	P	54	54.10	-1.0
MAT	50.47	26	eP	54	54.00	-1.6
			0.7s	53.42nm	5.4mb	
NDI	50.61	318	iPc	54	54.50	-2.2
			0.8s	104.48nm	5.7mb	
SNY	50.85	10	Pc	54	57.60	-0.7
KAKJ	51.08	28	P	54	57.90	-2.3
NIIJ	51.40	26	P	55	02.60	0.0
CN2	53.10	11	P	55	13.90	-1.1
			1.0s	20.00nm	4.9mb	
MDJ	54.78	14	P	55	26.80	-0.5
			1.0s	39.00nm	5.2mb	
MRRJ	56.60	25	eP	55	39.70	-0.7
WMQ	56.85	338	iPc	55	42.30	0.0

	1.0s	26.00nm	5.1mb			
HOOJ	57.51	26	P	55	47.20	0.5
ASAJ	58.65	25	P	55	54.40	-0.3
KUSJ	58.70	27	P	55	54.50	-0.6
KSH	58.75	327	eP	55	55.90	0.2
			0.6s	12.00nm	5.0mb	
IRK	60.87	354	eP	56	09.00	-0.8
			1.0s	31.00nm	5.2mb	
YAK	71.34	8	iPc	57	18.00	2.0
			1.0s	131.00nm	5.7mb	
ADK	84.54	36	(P)	58	27.48	-0.9
OBN	89.22	326	ePd	58	51.50	0.5
			1.0s	32.00nm	5.3mb	
SDN	94.72	35	(P)	59	13.94	-2.4
KAF	95.87	332	iP	59	21.30	-0.2
			0.5s	7.80nm	5.4mb	
NUR	96.49	330	eP	59	19.00	-5.3X
YKA	115.89	22	PKP	04	37.00	-0.3
			0.4s	1.80nm		
DUG	128.27	45	PKP	05	03.43	1.5
SRU	130.33	45	ePKP	05	07.23	1.3
RSSD	131.89	36	ePKP	05	09.03	0.2
RSNY	143.33	9	(PKP)	05	28.70	-0.8
FVM	143.61	32	(PKP)	05	27.54	-2.6
UYO	143.86	41	iPKPd	05	28.90	-1.8
MIAR	144.18	39	ePKP	05	30.09	-1.2
YSNY	144.49	15	ePKP	05	30.74	-0.9
ELC	144.76	32	iPKPd	05	31.64	-0.5
PPD	146.18	206	ePKP	05	37.00	2.0
LSCT	146.34	9	(PKP)	05	36.34	1.7
OXF	146.71	35	ePKPd	05	37.98	2.5
NAV	148.51	22	ePKP	05	42.40	4.1X
BDFB	149.74	218	ePKP	05	45.65	4.8X
			iPKPbc05	52.69		
CEH	150.39	20	iPKPc	05	47.33	6.2X
PRM	150.67	27	(PKP)	05	46.88	5.2X
JSC	150.98	25	(PKP)	05	43.61	1.5
LHS	151.00	24	ePKP	05	48.73	6.6X

S.D. = 1.1 on 76 of 88 obs.

&amp; JAN 18, 1994 06h 50m 32.08s

34.242 N 118.558 W

DEPTH = 3.4km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.0 (PAS).

FTC	0.69	336	P	50	45.06	-0.7
RYS	0.77	302	P	50	46.54	-0.9
ABL	0.82	318	ePn	50	46.89	-1.5
			eS	50	59.58	
PLEC	0.84	330	P	50	48.59	-0.2
BMTC	0.89	358	P	50	48.45	-1.4
ARVC	0.91	346	P	50	49.13	-1.0
LPC	0.99	285	P	50	50.04	-1.5
TEJ	0.99</					



18d 07h

SSK	0.63	100	ePd	11	14.75	-0.8
FTC	0.66	326	P	11	15.32	-0.7
RYS	0.81	294	P	11	18.14	-1.0
BMTC	0.82	351	P	11	18.10	-1.2
PLEC	0.82	322	P	11	18.54	-0.8
ABL	0.83	310	ePc	11	17.86	-1.5
SNDC	0.83	8	P	11	20.80	1.4
ARVC	0.86	339	P	11	18.94	-1.2
MARC	1.00	313	P	11	21.42	-1.1
LPC	1.06	280	P	11	21.88	-1.7
PEC	1.15	111	ePc	11	23.40	-1.7
			eS	11	38.26	
TMB	1.18	311	P	11	24.63	-1.0
WOFM	1.23	350	P	11	25.72	-0.8
WBSM	1.24	12	P	11	26.00	-0.7
WORM	1.38	7	P	11	28.47	-0.6
CRGC	1.40	312	P	11	28.07	-1.3
SCCM	1.55	294	P	11	30.39	-1.1
NMC	1.58	16	P	11	33.08	1.1
TOW	1.59	21	P	11	31.15	-0.9
WCHM	1.59	11	P	11	31.97	-0.3
BCH	1.60	303	eP	11	29.95	-2.3
PLM	1.64	126	ePc	11	30.48	-2.4
GSC	1.67	54	eP	11	31.74	-1.5
RCWM	1.75	22	P	11	35.88	1.4
WLHM	1.83	3	P	11	37.72	1.9
PMCM	2.11	312	P	11	41.77	2.2
PHAM	2.20	314	ePn	11	38.00	-2.9
MTUM	3.03	358	(Pn)	11	52.23	-0.6
TPNV	3.18	34	ePn	11	52.84	-2.0
GLA	3.27	112	(Pn)	11	55.68	-0.5
MMPM	3.32	352	ePg	12	01.46	4.4
MRCM	3.34	359	ePg	12	04.55	7.2
MEMM	3.36	353	ePg	12	02.49	5.1
SAO	3.45	316	ePn	11	55.77	-2.9
BONR	3.63	2	eP	12	08.91	7.5
TNP	3.88	14	(Pn)	12	06.15	1.1
ARN	3.93	321	eP	12	03.56	-1.9
CMB	4.02	338	eP	12	06.24	-0.6
ARUT	5.33	48	ePn	12	25.62	0.1
MSU	6.56	49	(Pn)	12	42.49	-0.5
DUG	7.38	36	ePg	13	22.29	27.9

41 obs. associated

& JAN 18, 1994 07h 23m 56.02s  
34.333 N 118.623 W  
DEPTH = 14.8km  
3.9mb ( 3 obs.)  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 4.0 (PAS), 4.2 (GS),  
4.3 (BRK).

RYS	0.68	297	P	24	08.47	-0.7
ABL	0.71	316	iPc	24	08.65	-1.1
SSK	0.78	99	iPc	24	10.14	-0.7
MARC	0.89	319	P	24	12.14	-0.5
WOFM	1.20	357	P	24	17.46	-0.6
PEC	1.29	110	eP	24	17.47	-2.0
WORM	1.40	13	P	24	20.30	-0.7
BCH	1.47	306	iPc	24	20.98	-1.1
WCHM	1.61	16	P	24	23.27	-1.0
PLM	1.76	123	ePd	24	24.52	-1.8
WLHM	1.83	8	P	24	27.03	-0.5
PTRM	1.85	316	P	24	26.38	-1.2
PHAM	2.09	316	eP	24	29.20	-1.8
PKEM	2.11	325	eP	24	29.87	-1.4
PSTM	2.22	316	P	24	31.59	-1.2
PANM	2.37	308	P	24	32.68	-2.2
PRI	2.46	318	iP	24	34.59	-1.7
PRCM	2.47	304	P	24	34.20	-2.2
PJLM	2.72	311	P	24	37.32	-2.6
SHG	2.99	315	P	24	41.02	-2.7
MTUM	3.01	1	ePn	24	43.90	-0.3
			eS	25	28.86	
BCWM	3.11	310	P	24	42.75	-2.8
BCGM	3.25	318	P	24	45.74	-1.7
TPNV	3.25	36	ePc	24	46.47	-1.1
BPRM	3.28	310	P	24	44.74	-3.1
MMPM	3.29	354	ePn	24	48.12	-0.2
ORC	3.30	360	P	24	50.84	2.5
BVYM	3.32	317	P	24	46.22	-2.2
MRCM	3.33	2	ePn	24	48.01	-0.8
			eS	25	38.30	
MEMM	3.34	356	ePn	24	49.00	0.4
			eS	25	38.17	
SAO	3.34	317	ePn	24	45.28	-3.5
LTR	3.36	320	P	24	46.86	-2.1

GLA	3.41	111	ePn	24	48.77	-1.0
DIL	3.51	316	P	24	48.25	-2.8
HCOM	3.58	316	P	24	49.56	-2.5
BONR	3.62	4	ePn	24	53.97	0.9
ARN	3.83	323	eP	24	52.27	-3.4
COE	3.83	321	ePn	24	52.13	-3.5
MHC	3.88	322	eP	24	54.03	-2.4
TNP	3.91	16	ePn	24	56.19	-0.8
CMB	3.96	339	eP	24	56.34	-1.2
STAN	4.21	318	eP	24	58.18	-2.8
JEGM	4.45	317	ePn	25	00.64	-3.8
BKS	4.59	321	eP	25	03.83	-2.6
HMR	4.60	327	eP	25	04.75	-1.8
ZSP	4.65	322	iP	25	04.78	-2.6
KVN	4.73	5	(Pn)	25	09.43	0.8
NTYM	5.20	322	eP	25	12.06	-2.9
ARUT	5.43	49	eP	25	17.38	-1.2
ORV	5.70	337	eP	25	20.42	-1.7
MSU	6.66	49	ePn	25	35.37	-0.6
LGPM	7.37	334	(P)	25	44.09	-1.6
DUG	7.46	37	(Pn)	25	47.50	0.5
			eS	27	51.20	
LBFM	7.46	341	eP	25	46.19	-0.9
KMPM	7.48	326	eP	25	45.44	-1.9
SRU	8.06	51	eP	25	55.07	-0.4
DAU	8.44	42	eP	26	01.56	0.7
PV09	8.70	59	eP	26	04.07	-0.5
PV10	8.72	60	eP	26	03.30	-1.4
PV08	9.08	59	ePn	26	08.05	-1.8
VGB	11.29	352	(P)	26	40.95	1.2
MCMT	11.38	21	eP	26	44.60	3.3
LRM	12.40	20	eP	27	06.60	11.6
RMW	13.33	351	(P)	27	08.70	1.5
MIAR	20.65	82	eP	28	35.44	-2.2
	1.0s	11.80nm			4.2mb	
ULM	23.02	39	eP	29	02.50	1.3
YKA	28.30	4	P	29	49.00	-1.6
	0.9s	0.60nm			3.4mb	
MBC	42.00	360	eP	31	49.00	1.4
	1.0s	3.00nm			4.0mb	
RES	42.05	9	eP	31	53.50	5.4
FRB	42.35	30	eP	31	50.00	-0.6

70 obs. associated

& JAN 18, 1994 07h 35m 23.95s  
34.271 N 118.479 W  
DEPTH = 13.5km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).

GVRC	0.37	126	P	35	31.20	-0.6
JNH	0.47	68	P	35	32.88	-0.7
FOXC	0.50	24	P	35	33.59	-0.6
PEM	0.52	101	P	35	33.61	-0.7
LJB	0.61	58	P	35	35.20	-0.8
SSK	0.65	95	eP	35	35.96	-0.8
LOK	0.68	312	P	35	36.02	-1.2
SBB	0.68	52	P	35	36.45	-0.7
ELMC	0.74	70	P	35	37.66	-0.5
SS2	0.81	94	P	35	38.93	-0.6
ABL	0.84	314	P	35	38.69	-1.3
CIS	0.86	176	P	35	39.27	-1.0
SNDC	0.88	9	P	35	40.22	-0.4
CALC	0.94	28	P	35	41.16	-0.4
MARC	1.02	316	P	35	42.04	-0.8
ELS	1.07	125	P	35	42.99	-0.9
DTP	1.12	28	P	35	44.43	-0.3
PEC	1.16	109	eP	35	44.00	-1.3
			eS	36	00.44	
HOD	1.16	61	P	35	45.52	0.1
PKM	1.27	300	P	35	46.47	-0.9
BLKC	1.32	52	P	35	48.59	0.6
SIL	1.37	86	P	35	49.00	0.2
POB	1.42	114	P	35	48.13	-1.3
BCH	1.61	305	(P)	35	50.33	-1.8
PLM	1.63	124	eP	35	49.48	-3.0
GSC	1.72	53	(P)	35	55.00	1.3

26 obs. associated

& JAN 18, 1994 07h 49m 07.88s  
34.335 N 118.600 W  
DEPTH = 13.4km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 3.3 (PAS), 3.7 (GS).

FTC	0.59	336	P	49	18.89	-0.6
RYS	0.69	297	P	49	20.65	-0.8

ABL	0.73	315	ePc	49	20.72	-1.3
PLEC	0.74	329	P	49	22.04	-0.1
SSK	0.76	99	eP	49	21.66	-0.9
SNDC	0.84	17	P	49	24.48	0.6
TEJ	0.90	355	P	49	23.44	-1.3
MARC	0.90	318	P	49	24.31	-0.6
LPC	0.93	280	P	49	24.56	-0.9
WJPM	1.08	5	P	49	27.50	-0.4
WOFM	1.20	356	P	49	29.68	-0.4
WBSM	1.26	17	P	49	30.64	-0.5
PEC	1.27	110	eP	49	29.65	-1.6
CRGC	1.29	315	P	49	30.76	-0.9
WASM	1.40	1	P	49	33.61	0.4
SCCM	1.43	295	P	49	32.56	-0.9
BCH	1.49	305	eP	49	32.99	-1.3
VPEN	1.73	22	P	49	40.88	2.9
PLM	1.75	124	eP	49	36.55	-1.6
GSC	1.76	56	iPc	49	37.63	-0.7
WLHM	1.83	7	P	49	42.47	3.0
PHAM	2.10	316	eP	49	41.18	-2.0
PHBM	2.26	328	P	49	44.99	-0.4
PAPM	2.76	306	P	49	49.91	-2.7
BMSM	2.93	323	P	49	53.34	-1.6
BHPR	2.96	2	P	50	01.56	6.0
MTUM	3.01	1	ePn	49	57.25	1.0
TPNV	3.24	36	ePn	49	58.63	-0.8
MMPM	3.29	354	eP	50	01.02	0.7
MRCM	3.33	1	ePg	50	08.31	7.5
MEMM	3.34	355	ePn	50	01.80	1.1
SAO	3.36	317	ePn	49	58.42	-2.6
GLA	3.40	111	ePn	50	02.30	0.7
DIL	3.52	316	P	50	00.73	-2.5
BONR	3.62	4	ePn	50	05.38	0.3
ARN	3.84	322	eP	50	05.52	-2.3
COE	3.84	320	ePn	50	06.68	-1.2
TNP	3.90	16	ePn	50	08.26	-0.7
CMB	3.96	339	P	50	08.40	-1.2
KVN	4.72	5	ePg	50	33.92	13.3
ARUT	5.42	49	ePn	50	29.32	-1.1
MSU	6.65	49	ePn	50	46.88	-0.9
DUG	7.45	37	ePg	51	26.92	28.0

43 obs. associated

& JAN 18, 1994 07h 53m 25.23s  
34.355 N 118.599 W  
DEPTH = 2.7km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 3.4 (PAS), 3.8 (GS).

FTC	0.57	335	P	53	36.00	-0.6
RYS	0.68	295	P	53	38.32	-0.6
ABL	0.71	314	eP	53	38.15	-1.3
SSK	0.76	101	eP	53	39.52	-1.0
ARVC	0.79	346	P	53	40.04	-1.0
TEJ	0.88	355	P	53	40.62	-2.1
MARC	0.89	317	P	53	41.99	-1.0
WJPM	1.06	5	P	53		



18d 07h

CMB 3.95 339 eP 54 27.89 -0.2  
 ARUT 5.40 49 ePn 55 05.73 16.8  
 MSU 6.64 49 (Pn) 55 08.00 1.6  
 DUG 7.43 37 ePg 55 44.90 27.5  
 42 obs. associated

& JAN 18, 1994 08h 00m 14.54s  
 34.336 N 118.620 W  
 DEPTH = 4.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.1 (GS).

SSK 0.78 99 eP 00 29.35 -0.9  
 PEC 1.29 110 iPd 00 37.64 -1.3  
 eS 00 56.00  
 BCH 1.47 306 eP 00 40.65 -1.2  
 eS 01 02.95

PLM 1.76 123 eP 00 44.40 -1.7  
 GSC 1.78 57 eP 00 45.09 -1.2  
 TPNV 3.24 36 ePn 01 05.57 -1.7  
 BONR 3.62 4 ePg 01 20.74 8.0  
 TNP 3.91 16 ePg 01 27.37 10.6  
 8 obs. associated

& JAN 18, 1994 08h 03m 38.26s  
 34.373 N 118.635 W  
 DEPTH = 11.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

SSK 0.80 101 ePn 03 52.91 -0.9  
 PEC 1.31 111 eP 04 00.80 -1.7  
 eS 04 18.72  
 BCH 1.44 305 ePn 04 03.04 -1.3  
 GSC 1.77 58 ePn 04 07.64 -1.4  
 PLM 1.79 124 eP 04 07.88 -1.6  
 TPNV 3.22 36 ePg 04 27.82 -2.1  
 BONR 3.58 4 ePg 04 43.54 8.4  
 7 obs. associated

& JAN 18, 1994 08h 07m 08.19s  
 34.339 N 118.623 W  
 DEPTH = 3.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.78 99 eP 07 23.32 -0.5  
 BCH 1.47 305 eP 07 34.23 -1.4  
 PLM 1.76 123 eP 07 38.75 -1.2  
 GSC 1.78 57 eP 07 38.97 -1.1  
 TPNV 3.24 36 ePn 08 00.97 -0.1  
 5 obs. associated

& JAN 18, 1994 08h 07m 48.45s  
 65.038 N 148.743 W  
 DEPTH = 18.9km  
 NORTHERN ALASKA (676)  
 <AEIC>. ML 2.8 (AEIC), 2.8 (PMR).

BC3 0.63 153 eP 08 42.20 0.2  
 BK3 0.63 153 eP 08 55.05 0.2  
 BM3 0.63 153 eP 08 32.81 0.2  
 BWN 0.63 153 eP 08 05.27 0.2

eS 08 17.61  
 CCB 0.63 153 eP 07 59.57 0.2  
 CP2 0.63 153 (P) 08 49.99 0.2  
 CUT 0.63 153 P 08 34.00 0.2  
 DDM 0.63 153 eP 08 17.34 0.2  
 DHY 0.63 153 eP 08 22.73 0.2  
 DJE 0.63 153 eP 08 15.44 0.2  
 FBA 0.63 153 ePc 07 56.85 0.2  
 FYU 0.63 153 eP 08 23.71 0.2  
 GLM 0.63 153 iP 07 59.69 0.2  
 HDA 0.63 153 eP 08 06.41 0.2  
 ILL 0.63 153 eP 08 04.35 0.2  
 ILB 0.63 153 eP 08 04.29 0.2

eS 08 14.64  
 IM3 0.63 153 eP 08 24.25 0.2  
 IMA 0.63 153 eP 08 25.92 0.2  
 KLU 0.63 153 eP 08 47.75 0.2  
 KNK 0.63 153 eP 08 44.49 0.2  
 KTH 0.63 153 eP 08 17.58 0.2  
 MCK 0.63 153 eP 08 11.46 0.2  
 MDM 0.63 153 eP 07 53.65 0.2  
 MLY 0.63 153 eP 08 04.26 0.2  
 NCG 0.63 153 eP 08 48.75 0.2

NEA 0.63 153 eP 07 58.25 0.2  
 eS 08 05.39  
 PAX 0.63 153 eP 08 28.94 0.2  
 PMR 0.63 153 eP 08 41.13 0.2  
 PMS 0.63 153 eP 08 45.70 0.2  
 PWA 0.63 153 P 08 41.70 0.2  
 PWL 0.63 153 eP 08 53.05 0.2  
 RND 0.63 153 eP 08 16.44 0.2  
 SKT 0.63 153 eP 08 39.93 0.2  
 SML 0.63 153 eP 08 38.76 0.2  
 SPU 0.63 153 eP 08 51.44 0.2  
 TOA 0.63 153 P 08 39.20 0.2  
 TRF 0.63 153 eP 08 18.43 0.2  
 TTA 0.63 153 eP 08 44.09 0.2  
 WRH 0.63 153 iP 08 00.96 0.2  
 39 obs. associated

& JAN 18, 1994 08h 09m 59.26s  
 34.349 N 118.605 W  
 DEPTH = 0.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.1 (GS).

FTC 0.57 336 P 10 10.26 -0.4  
 RYS 0.68 296 P 10 12.61 -0.3  
 SSK 0.77 100 eP 10 14.01 -0.6  
 eS 10 26.38  
 BMTC 0.78 0 P 10 13.98 -1.0  
 TEJ 0.88 355 P 10 15.93 -0.9  
 MARC 0.89 317 P 10 15.85 -1.2  
 CRGC 1.28 314 P 10 23.09 -0.9  
 SCCM 1.42 295 P 10 25.56 -0.7  
 BCH 1.48 305 ePn 10 25.78 -1.4  
 WSHM 1.57 35 P 10 27.84 -0.7  
 GSC 1.76 57 eP 10 30.13 -1.1  
 TPNV 3.23 36 (Pn) 10 51.36 -0.9  
 12 obs. associated

& JAN 18, 1994 08h 11m 49.89s  
 34.322 N 118.612 W  
 DEPTH = 15.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.3 (GS).

FTC 0.59 337 P 12 00.74 -0.8  
 RYS 0.69 298 P 12 02.73 -0.5  
 ABL 0.73 317 P 12 02.71 -1.2  
 PLEC 0.75 330 P 12 04.01 -0.1  
 SSK 0.77 98 eP 12 04.51 0.0  
 BMTC 0.81 1 P 12 04.47 -0.8  
 ARVC 0.82 347 P 12 04.96 -0.4  
 MARC 0.91 319 P 12 06.40 -0.4  
 LPC 0.93 281 P 12 06.50 -0.7  
 TMB 1.08 315 P 12 09.71 0.0  
 WJPM 1.09 6 P 12 09.96 0.0  
 WOFM 1.21 356 P 12 11.72 -0.4  
 WBSM 1.27 18 P 12 12.64 -0.5  
 CRGC 1.30 315 P 12 12.76 -0.7  
 WASH 1.41 2 P 12 15.26 0.1  
 SCCM 1.43 296 P 12 14.46 -0.7  
 BCH 1.49 306 ePn 12 15.17 -0.9  
 WCHM 1.62 16 P 12 17.50 -0.7  
 TOW 1.64 25 P 12 20.84 2.6  
 PLM 1.75 123 eP 12 20.54 0.6  
 GSC 1.78 56 eP 12 21.92 1.6  
 RCWM 1.81 26 P 12 23.07 2.3  
 WLHM 1.84 8 P 12 21.85 0.4  
 PAMP 2.76 306 P 12 31.72 -2.7  
 TPNV 3.25 36 ePn 12 40.55 -0.9  
 BONR 3.63 4 ePg 12 55.54 8.5  
 26 obs. associated

& JAN 18, 1994 08h 19m 03.93s  
 34.371 N 118.492 W  
 DEPTH = 1.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.3 (GS).

FTC 0.60 327 P 19 15.22 -0.6  
 SSK 0.68 103 eP 19 16.70 -0.8  
 RYS 0.76 291 P 19 18.71 -0.4  
 PLEC 0.76 322 P 19 18.71 -0.4  
 BMTC 0.77 354 P 19 18.13 -1.1  
 TEJ 0.87 349 P 19 18.89 -2.5  
 MARC 0.94 312 P 19 21.44 -1.2  
 LPC 1.02 277 P 19 23.05 -1.0  
 WJPM 1.04 1 P 19 23.05 -1.4

TMB 1.12 310 P 19 24.72 -1.0  
 WOFM 1.18 351 P 19 25.72 -1.1  
 WBSM 1.20 14 P 19 26.35 -0.9  
 PEC 1.20 113 iPc 19 25.56 -1.6  
 eS 19 42.26  
 CRGC 1.33 311 P 19 28.50 -1.0  
 WORM 1.34 9 P 19 29.67 0.2  
 WASH 1.37 358 P 19 30.54 0.4  
 SCCM 1.50 293 P 19 31.30 -0.7  
 WSHM 1.50 33 P 19 30.92 -1.2  
 BCH 1.54 302 eP 19 31.38 -1.3  
 WCHM 1.55 13 P 19 32.25 -0.7  
 TOW 1.55 22 P 19 34.04 1.2  
 VPBM 1.67 19 P 19 36.22 1.7  
 PLM 1.69 126 eP 19 32.75 -2.2  
 eS 19 56.74  
 WLHM 1.78 5 P 19 38.38 2.0  
 PHAM 2.14 314 (P) 19 39.95 -1.3  
 MTUM 2.98 359 (P) 19 55.90 2.5  
 TPNV 3.15 35 ePn 19 54.91 -0.9  
 MMPM 3.26 352 (Pn) 19 58.32 0.8  
 MEMM 3.31 354 ePn 19 57.60 -0.2  
 GLA 3.33 112 (Pn) 19 55.53 -2.7  
 SAO 3.39 316 ePn 19 56.51 -2.6  
 TNP 3.84 15 ePg 20 16.23 10.5  
 CMB 3.96 338 eP 20 06.30 -0.9  
 33 obs. associated

& JAN 18, 1994 08h 57m 18.44s  
 34.381 N 118.706 W  
 DEPTH = 8.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 3.0 (GS).

ABL 0.63 318 eP 57 29.73 -1.4  
 PEC 1.37 110 eP 57 41.52 -2.3  
 BCH 1.39 306 eP 57 42.88 -1.2  
 PLM 1.85 123 eP 57 48.35 -2.4  
 MTUM 2.97 2 ePg 58 08.89 2.1  
 TPNV 3.25 37 P 58 23.34 12.6  
 BONR 3.58 5 ePn 58 13.53 -2.1  
 TNP 3.88 18 ePg 58 29.43 9.6  
 8 obs. associated

% JAN 18, 1994 09h 10m 45.32± 1.41s  
 40.367 N ±16.6km 21.818 E ±10.7km  
 DEPTH = 33.0km (normal)  
 GREECE (364)  
 ML 2.0 (THE).

FNA 0.54 321 iPg 10 55.72 -0.8  
 eSg 11 05.20  
 LIT 0.58 117 ePg 10 56.80 -0.3  
 eSg 11 07.40  
 GRG 0.74 37 ePg 10 58.96 -0.3  
 iSg 11 11.96  
 OHR 1.07 314 eP 11 05.00 0.9  
 SOH 1.25 68 ePb 11 07.26 0.6  
 S.D. = 1.0 on 5 of 5 obs.

& JAN 18, 1994 09h 12m 57.28s  
 34.289 N 118.414 W  
 DEPTH = 2.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

SSK 0.60 97 eP 13 08.60 -0.7  
 RYS 0.85 295 P 13 13.35 -1.1  
 BMTC 0.86 350 P 13 13.23 -1.3  
 ABL 0.87 310 eP 13 12.60 -2.2  
 eS 13 27.25  
 ARVC 0.90 338 P 13 14.55 -0.7  
 TEJ 0.97 346 P 13 13.28 -3.1  
 MARC 1.04 313 P 13 16.64 -1.0  
 LPC 1.09 281 P 13 21.90 3.3  
 PEC 1.11 110 eP 13 16.91 -1.9  
 eS 13 32.36  
 TMB 1.22 311 P 13 20.03 -0.7  
 WBSM 1.27 10 P 13 20.54 -1.0  
 WOFM 1.27 349 P 13 21.50 -0.1  
 WSHM 1.54 29 P 13 25.54 -0.2  
 PLM 1.59 125 eP 13 23.36 -3.3  
 TOW 1.61 19 P 13 27.55 0.8  
 BCH 1.64 303 eP 13 25.64 -1.6  
 GSC 1.67 52 eP 13 26.38 -1.2  
 RCWM 1.77 21 P 13 30.28 1.1  
 MTUM 3.06 358 ePg 13 53.37 5.7



18d 09h

TPNV 3.19 33 ePn 13 48.63 -0.8  
 MMPM 3.35 352 ePg 13 58.04 6.1  
 MEMM 3.40 353 ePg 13 59.36 7.1  
 BONR 3.66 1 ePg 14 04.42 8.1  
 23 obs. associated

JAN 18, 1994 09h 25m 48.63± 0.63s  
 34.305 N ± 5.7km 118.636 W ± 3.9km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.0 (GS).

FTC 0.60 340 P 25 59.99 -0.9  
 RYS 0.68 300 P 26 02.45 0.2  
 ABL 0.73 319 eP 26 02.17 -0.9  
 PLEC 0.75 332 P 26 03.32 -0.1  
 SSK 0.79 97 eP 26 03.55 -0.5  
 BMTC 0.83 2 P 26 03.71 -1.0  
 ARVC 0.84 349 P 26 04.40 -0.4  
 MARC 0.91 320 P 26 06.13 0.1  
 LPC 0.91 282 P 26 06.42 0.3  
 TEJ 0.92 357 P 26 04.84 -1.5  
 TMB 1.08 317 P 26 09.39 0.5  
 WOFM 1.23 357 P 26 11.42 -0.2  
 PEC 1.29 108 eP 26 12.28 -0.3  
 CRGC 1.29 317 P 26 12.85 0.2  
 WBSM 1.30 18 P 26 12.89 0.1  
 SCCM 1.42 297 P 26 17.71 3.2X  
 BCH 1.48 307 eP 26 15.75 0.3  
 WSHM 1.62 35 P 26 17.50 0.1  
 NMC 1.65 21 P 26 19.68 1.9  
 PLM 1.76 122 eP 26 19.49 0.0  
 GSC 1.81 56 eP 26 18.72 -1.4  
 RCWM 1.83 26 P 26 21.90 1.4  
 TPNV 3.28 36 ePn 26 42.03 0.8  
 BONR 3.65 4 ePg 26 56.88 10.2X  
 TNP 3.94 17 (Pn) 26 51.78 1.1  
 S.D. = 0.9 on 23 of 25 obs.

& JAN 18, 1994 09h 41m 48.64s  
 34.224 N 118.505 W  
 DEPTH = 18.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.7 (PAS), 3.8 (GS).

RYS 0.82 301 P 42 03.27 -0.9  
 SNDC 0.93 10 P 42 06.75 0.7  
 TEJ 1.01 351 P 42 05.55 -1.9  
 PEC 1.16 106 eP 42 08.59 -1.4  
 WOFM 1.32 353 P 42 11.96 -0.3  
 WORM 1.48 8 P 42 14.10 -0.5  
 BCH 1.62 307 eP 42 15.43 -1.1  
 PLM 1.62 122 eP 42 15.84 -0.8  
 WSHM 1.63 30 P 42 15.52 -1.2  
 WCHM 1.69 12 P 42 17.01 -0.8  
 PTRM 2.00 316 P 42 21.09 -0.9  
 PMCM 2.14 315 P 42 22.79 -1.3  
 PHAM 2.24 317 eP 42 23.98 -1.4  
 PKEM 2.26 325 eP 42 25.52 -0.1  
 PSMM 2.51 318 P 42 28.50 -0.9  
 PJLM 2.86 311 P 42 31.84 -2.4  
 BTW 2.88 317 P 42 32.64 -1.8  
 BMSM 3.06 323 P 42 35.58 -1.6  
 MTUM 3.12 359 ePn 42 38.58 0.4  
 TPNV 3.28 33 (Pn) 42 39.33 -1.0  
 GLA 3.28 110 (Pn) 42 37.87 -2.4  
 BPOM 3.34 308 P 42 37.97 -3.0  
 BPRM 3.42 310 P 42 39.14 -3.1  
 MCSM 3.44 355 P 42 50.95 8.3  
 MRCM 3.44 360 ePn 42 43.01 0.4  
 eS 43 34.19  
 BSLM 3.44 318 P 42 41.32 -1.2  
 SAO 3.49 317 eP 42 40.59 -2.6  
 HCOM 3.73 316 P 42 44.18 -2.3  
 BONR 3.73 2 ePn 42 46.87 0.0  
 JBZM 3.86 317 P 42 46.84 -1.6  
 CBO 3.88 319 P 42 46.52 -2.1  
 ARN 3.97 323 eP 42 48.75 -1.3  
 COE 3.97 321 ePn 42 47.18 -2.8  
 TNP 3.99 15 ePn 42 50.10 -0.3  
 CMB 4.10 339 ePn 42 48.84 -3.0  
 HMR 4.74 327 (P) 42 59.38 -1.5  
 NTYM 5.34 322 eP 43 06.74 -2.7  
 ARUT 5.43 48 ePn 43 11.16 0.3  
 MSU 6.66 48 ePn 43 29.03 0.7  
 ePg 43 50.20  
 DUG 7.49 36 ePg 44 08.04 28.3

SRU 8.05 50 (Pn) 43 47.48 -0.3  
 41 obs. associated  
 ? JAN 18, 1994 09h 43m 08.12± 3.77s  
 39.573 N ± 27.1km 29.529 E ± 20.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.7 (ISK).

DST 0.70 273 ePg 43 21.70 -0.2  
 eSg 43 32.70  
 IZI 0.76 357 iPg 43 22.50 -0.6  
 iSg 43 33.50  
 YLV 1.00 353 ePn 43 27.00 -0.1  
 EYL 1.10 26 ePn 43 29.00 0.1  
 CTT 1.78 332 ePn 43 40.00 0.8  
 S.D. = 0.8 on 5 of 5 obs.

& JAN 18, 1994 09h 44m 32.81s  
 34.344 N 118.553 W  
 DEPTH = 1.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.3 (GS).

FTC 0.60 332 P 44 44.14 -0.6  
 RYS 0.72 295 P 44 47.06 -0.2  
 SSK 0.72 100 iPg 44 46.59 -0.7  
 ABL 0.75 313 ePn 44 46.60 -1.1  
 PLEC 0.75 326 P 44 48.02 0.2  
 BMTC 0.79 357 P 44 47.45 -1.1  
 ARVC 0.81 344 P 44 47.97 -1.1  
 TEJ 0.89 353 P 44 48.30 -2.3  
 MARC 0.92 316 P 44 50.16 -1.0  
 LPC 0.97 279 P 44 50.68 -1.5  
 WJPM 1.07 3 P 44 52.95 -0.8  
 TMB 1.10 313 P 44 53.72 -0.6  
 WOFM 1.20 354 P 44 55.50 -0.5  
 PEC 1.24 111 iPg 44 54.62 -2.1  
 CRGC 1.32 313 P 44 57.30 -0.8  
 WORM 1.37 11 P 44 59.18 0.1  
 SCCM 1.46 295 P 44 59.68 -0.7  
 BCH 1.51 304 eP 44 59.77 -1.5  
 WSHM 1.55 34 P 45 00.20 -1.5  
 PLM 1.72 125 eP 45 01.91 -2.3  
 GSC 1.73 56 eP 45 02.67 -1.6  
 TPNV 3.21 35 ePn 45 22.97 -2.5  
 GLA 3.36 111 (Pn) 45 26.36 -1.3  
 SAO 3.38 317 eP 45 25.02 -2.8  
 BONR 3.61 3 (Pn) 45 31.29 0.0  
 TNP 3.88 16 ePg 45 45.38 10.2  
 26 obs. associated

& JAN 18, 1994 10h 00m 28.88s  
 59.756 N 152.642 W  
 DEPTH = 101.1km  
 SOUTHERN ALASKA (2)  
 <AEIC>.

OPT 0.32 251 iPg 00 43.15 -0.8  
 ILIM 0.36 334 eP 00 43.42 -0.8  
 eS 00 55.40  
 HOM 0.52 101 eP 00 44.86 -0.2  
 AUE 0.54 223 eP 00 44.53 -0.8  
 AUL 0.55 227 eP 00 44.72 -0.7  
 AUP 0.56 225 eP 00 44.57 -1.0  
 AGU 0.56 226 eP 00 44.85 -0.8  
 AUH 0.57 226 eP 00 44.93 -0.7  
 AUI 0.58 224 eP 00 44.76 -0.9  
 RED 0.67 354 eP 00 45.52 -0.9  
 eS 00 59.59  
 RSO 0.71 356 eP 00 46.10 -0.9  
 RS2 0.71 355 eP 00 45.97 -1.0  
 RDW 0.73 354 eP 00 46.10 -1.1  
 REF 0.74 358 eP 00 46.28 -0.9  
 eS 01 00.13  
 CNPM 0.75 107 eP 00 46.20 -0.9  
 PDB 0.79 273 iPg 00 46.48 -0.9  
 eS 00 59.88  
 NCT 0.82 350 eP 00 46.89 -1.0  
 eS 01 00.85  
 DFR 0.84 359 eP 00 47.30 -0.8  
 eS 01 01.61  
 BRLK 0.89 89 eP 00 47.67 -0.9  
 eS 01 01.61  
 CDD 0.97 212 eP 00 48.10 -1.3  
 SYI 1.16 173 eP 00 50.22 -1.2  
 NKA 1.21 35 eP 00 53.14 1.1

BKG 1.33 8 eP 00 52.78 -0.8  
 eS 01 11.09  
 SLKM 1.43 57 eP 00 53.46 -1.3  
 CKL 1.45 6 eP 00 54.45 -0.7  
 SPU 1.46 11 iPg 00 54.43 -0.7  
 eS 01 13.75

CKT 1.47 8 iPg 00 54.48 -0.8  
 CKN 1.49 9 iPg 00 54.98 -0.5  
 BGL 1.52 5 eP 00 54.65 -1.3  
 CP2 1.53 7 eP 00 55.28 -0.8  
 CRP 1.54 9 eP 00 54.56 -1.6  
 CGLM 1.59 11 eP 00 56.23 -0.6  
 SEW 1.65 76 eP 00 56.13 -1.2  
 NCG 1.67 8 eP 00 57.24 -0.6  
 MPA 1.80 64 eP 00 58.29 -1.1  
 SUA 1.95 28 eP 01 01.14 -0.4  
 SVW 2.01 314 eP 00 59.65 -2.5  
 SKT 2.30 13 eP 01 05.06 -0.9  
 PWA 2.34 34 P 01 05.90 -0.5  
 PWL 2.41 61 eP 01 05.70 -1.8  
 PLRM 2.53 42 eP 01 08.05 -0.9  
 PMR 2.53 42 (P) 01 08.89 -0.1  
 MTU 2.53 83 eP 01 08.12 -0.9  
 KNK 2.65 49 eP 01 09.45 -1.3  
 GH0 2.72 40 eP 01 10.59 -1.2  
 CFI 2.81 57 eP 01 10.87 -1.9  
 CUT 2.90 22 eP 01 12.64 -1.3  
 SML 2.95 44 eP 01 13.16 -1.6  
 HIN 3.14 76 eP 01 15.30 -2.1  
 FID 3.23 69 eP 01 15.63 -2.9  
 VZW 3.29 64 eP 01 17.30 -2.1  
 VLZ 3.42 63 eP 01 19.44 -1.6  
 CVA 3.54 74 eP 01 20.84 -1.9  
 KLU 3.74 59 eP 01 23.51 -2.1  
 TRF 3.88 16 eP 01 26.52 -1.0  
 BALM 5.27 71 eP 01 44.74 -1.9  
 IL1 5.70 26 eP 01 50.09 -2.5  
 IM3 6.27 356 eP 01 59.10 -1.3  
 58 obs. associated

& JAN 18, 1994 10h 05m 39.35s  
 34.356 N 118.614 W  
 DEPTH = 2.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.7 (GS).

ABL 0.70 315 eP 05 52.16 -1.2  
 SSK 0.78 101 eP 05 53.67 -1.2  
 PEC 1.29 111 eP 06 02.63 -1.4  
 PLM 1.77 124 (P) 06 10.13 -1.1  
 MTUM 2.99 1 ePg 06 33.66 4.9  
 TPNV 3.22 36 ePn 06 28.78 -3.3  
 MMPM 3.26 354 ePg 06 36.13 3.3  
 BONR 3.60 4 ePg 06 45.07 7.5  
 8 obs. associated

& JAN 18, 1994 10h 09m 29.37s  
 34.368 N 118.713 W  
 DEPTH = 9.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.3 (GS).

ABL 0.64 319 eP 09 40.71 -1.5  
 PLEC 0.67 334 P 09 42.04 -0.7  
 ARVC 0.76 353 P 09 43.32 -1.0  
 SSK 0.86 100 eP 09 43.40 -2.7  
 TEJ 0.86 1 P 09 44.86 -1.2  
 TMB 0.99 317 P 09 47.65 -0.6  
 WJPM 1.06 10 P 09 48.58 -0.9  
 WOFM 1.16 0 P 09 50.36 -1.0  
 CRGC 1.20 317 P 09 51.24 -0.8  
 WBSM 1.26 22 P 09 52.04 -0.9  
 SCCM 1.33 296 P 09 52.63 -1.4  
 PEC 1.37 110 eP 09 52.27 -2.4  
 WASM 1.37 5 P 09 54.08 -0.8  
 WORM 1.38 16 P 09 53.88 -1.0  
 BCH 1.39 306 ePn 09 52.49 -2.6  
 WCHM 1.60 19 P 09 56.72 -1.4  
 NMC 1.61 24 P 09 58.68 0.5  
 VPEN 1.74 25 P 10 01.22 1.1  
 RCWM 1.80 29 P 10 02.78 1.9  
 WLHM 1.81 10 P 10 03.84 2.6  
 GSC 1.83 59 (P) 09 59.68 -1.6  
 PLM 1.84 123 eP 09 58.94 -2.7  
 PHAM 2.01 317 eP 10 01.95 -2.0  
 WKR 2.06 315 P 10 06.34 1.7  
 MTUM 2.98 2 ePn 10 17.73 -0.1



18d 10h

TPNV 3.26 37 eP 10 19.33 -2.6  
 SAO 3.27 318 eP 10 18.65 -3.1  
 MEMM 3.30 357 ePn 10 22.04 -0.1  
 BONR 3.60 5 ePn 10 26.47 -0.2  
 ARN 3.75 323 eP 10 27.55 -1.2  
 TNP 3.90 18 (Pn) 10 33.55 2.6  
 CMB 3.90 340 eP 10 29.30 -1.5  
 32 obs. associated

& JAN 18, 1994 10h 18m 51.36s  
 34.386 N 118.694 W  
 DEPTH = 5.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).  
 Double event.

FTC 0.51 341 P 19 00.71 -0.9  
 RYS 0.60 295 P 19 02.61 -0.8  
 PLEC 0.66 332 P 19 03.84 -0.7  
 ARVC 0.75 351 P 19 05.07 -1.2  
 MARC 0.81 319 P 19 06.32 -1.2  
 SNDC 0.82 23 P 19 06.80 -1.0  
 SSK 0.85 102 eP 19 06.95 -1.3  
 LPC 0.85 278 P 19 06.67 -1.6  
 TMB 0.98 316 P 19 09.65 -0.9  
 WJPM 1.04 10 P 19 10.27 -1.2  
 WOFP 1.15 359 P 19 12.09 -1.2  
 CRGC 1.20 316 P 19 13.39 -0.9  
 WBSM 1.24 21 P 19 13.75 -1.1  
 SCCM 1.34 295 P 19 15.06 -1.5  
 WASM 1.35 5 P 19 16.12 -0.8  
 PEC 1.36 111 eP 19 15.09 -1.9  
 BCH 1.39 305 eP 19 15.81 -1.7  
 eS 19 35.97  
 WCHM 1.58 19 P 19 18.64 -1.6  
 TOW 1.61 28 P 19 20.62 0.1  
 VPBM 1.72 24 P 19 23.13 1.0  
 RCWM 1.78 28 P 19 23.85 0.8  
 GSC 1.80 59 eP 19 23.67 0.3  
 PLM 1.84 124 eP 19 21.97 -2.0  
 eS 19 48.36  
 PHAM 2.01 316 (P) 19 24.01 -2.3  
 PAPM 2.66 306 P 19 32.08 -3.7  
 MTUM 2.96 2 (P) 19 39.13 -0.9  
 BPRM 3.20 310 P 19 40.38 -2.8  
 MMPM 3.23 355 (P) 19 43.58 -0.4  
 TPNV 3.24 37 ePn 19 41.97 -2.0  
 MEMM 3.28 357 (Pn) 19 44.82 0.5  
 GLA 3.49 111 ePn 19 46.35 -1.0  
 BONR 3.58 5 ePg 19 57.09 8.2  
 32 obs. associated

? JAN 18, 1994 10h 30m 51.32±1.25s  
 31.391 S ±33.9km 68.449 W ±36.3km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.06 344 iPd 31 05.50 -0.2  
 CFA 0.28 140 iPc 31 06.30 0.2  
 RTCB 0.31 252 iPd 31 06.50 0.2  
 S 31 17.50  
 RTCV 0.47 189 eP 31 07.00 -0.2  
 S 31 19.50  
 S.D. = 0.4 on 4 of 4 obs.

% JAN 18, 1994 10h 45m 52.84±0.84s  
 39.627 N ±6.6km 29.559 E ±8.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

IZI 0.71 355 iPg 46 07.00 0.1  
 eSg 46 17.00  
 ALT 0.71 143 ePg 46 07.00 0.0  
 DST 0.72 269 ePg 46 07.00 0.0  
 eSg 46 17.60  
 YLV 0.95 351 ePn 46 11.00 0.0  
 EYL 1.04 26 ePn 46 12.50 -0.1  
 S.D. = 0.1 on 5 of 5 obs.

& JAN 18, 1994 10h 49m 33.39s  
 34.318 N 118.438 W  
 DEPTH = 5.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).

SSK 0.63 100 iPc 49 45.01 -0.9

FTC 0.67 326 P 49 45.63 -1.1  
 BMTc 0.83 351 P 49 48.40 -1.5  
 PLEC 0.83 322 P 49 49.24 -0.7  
 ABL 0.84 310 iPd 49 48.47 -1.7  
 eS 50 01.55  
 ARVC 0.87 338 P 49 49.25 -1.3  
 TEJ 0.93 347 P 49 48.75 -2.9  
 MARC 1.01 313 P 49 51.97 -1.0  
 LPC 1.07 280 P 49 53.36 -0.7  
 WJPM 1.09 358 P 49 51.61 -2.8  
 PEC 1.14 111 iPc 49 53.52 -1.7  
 eS 50 09.34

TMB 1.19 311 P 49 55.27 -0.7  
 WOFP 1.24 350 P 49 56.06 -0.8  
 WBSM 1.24 11 P 49 56.30 -0.7  
 WORM 1.38 7 P 49 59.54 0.2  
 WASM 1.42 356 P 49 59.15 -0.9  
 WSHM 1.52 30 P 50 00.02 -1.3  
 SCCM 1.56 294 P 50 01.07 -0.7  
 NMC 1.58 16 P 50 02.36 0.2  
 WCHM 1.59 11 P 50 01.34 -1.1  
 BCH 1.61 303 ePn 50 01.40 -1.2  
 PLM 1.63 126 ePc 50 00.73 -2.2  
 GSC 1.66 53 eP 50 02.21 -1.1  
 VPBM 1.71 17 P 50 05.78 1.8  
 RCWM 1.75 21 P 50 03.51 -1.1  
 WLHM 1.83 3 P 50 07.84 1.8  
 PHAM 2.21 314 (P) 50 11.42 0.2  
 MTUM 3.03 358 ePg 50 28.36 5.3  
 TPNV 3.17 34 eP 50 24.24 -0.8  
 GLA 3.26 112 (P) 50 23.32 -2.9  
 MMPM 3.32 352 ePg 50 33.37 6.1  
 MEMM 3.37 353 ePg 50 34.52 6.9  
 BONR 3.63 2 ePg 50 39.22 7.6  
 ARUT 5.33 48 (Pn) 50 56.15 0.5  
 34 obs. associated

? JAN 18, 1994 10h 52m 11.05±1.11s  
 39.070 N ±10.9km 27.544 E ±18.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

IZM 0.71 198 iPg 52 25.00 0.0  
 eSg 52 35.00  
 DST 1.00 57 ePn 52 29.70 -0.3  
 EDC 1.30 11 ePn 52 35.00 -0.1  
 IZI 1.95 49 ePn 52 45.00 0.4  
 S.D. = 0.5 on 4 of 4 obs.

& JAN 18, 1994 10h 53m 26.57s  
 34.360 N 118.620 W  
 DEPTH = 10.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.3 (GS).

FTC 0.56 336 P 53 36.97 -1.0  
 RYS 0.67 295 P 53 39.18 -0.8  
 ABL 0.70 315 eP 53 38.93 -1.6  
 PLEC 0.71 329 P 53 40.36 -0.3  
 BMTc 0.77 1 P 53 40.52 -1.2  
 SSK 0.78 101 eP 53 40.72 -1.2  
 ARVC 0.78 347 P 53 40.95 -0.9  
 TEJ 0.87 356 P 53 41.70 -1.6  
 MARC 0.87 317 P 53 42.75 -0.6  
 LPC 0.91 279 P 53 43.20 -0.9  
 TMB 1.05 314 P 53 45.84 -0.5  
 WJPM 1.05 6 P 53 45.77 -0.8  
 WOFP 1.18 356 P 53 47.95 -0.7  
 WBSM 1.24 18 P 53 49.56 -0.2  
 CRGC 1.26 314 P 53 49.38 -0.8  
 PEC 1.30 111 eP 53 48.69 -1.9  
 SCCM 1.40 295 P 53 50.97 -1.3  
 BCH 1.46 305 eP 53 51.66 -1.4  
 WSHM 1.57 36 P 53 55.58 1.0  
 TOW 1.61 26 P 53 56.59 1.5  
 GSC 1.76 57 ePn 53 56.34 -1.1  
 eS 54 23.37

PLM 1.77 124 eP 53 57.61 -0.1  
 RCWM 1.78 26 P 53 59.18 1.6  
 MTUM 2.99 1 ePg 54 20.96 5.9  
 TPNV 3.22 36 ePn 54 17.43 -1.0  
 MMPM 3.26 354 ePg 54 25.26 6.2  
 GLA 3.42 111 ePn 54 20.60 -0.5  
 BONR 3.60 4 ePg 54 32.11 8.3  
 ARN 3.81 322 (P) 54 24.37 -2.2  
 CMB 3.94 339 (P) 54 28.10 -0.3

ARUT 5.41 49 ePn 54 48.97 -0.5  
 MSU 6.65 50 ePg 55 29.30 22.4  
 32 obs. associated

& JAN 18, 1994 11h 13m 00.66s  
 34.303 N 118.639 W  
 DEPTH = 8.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.6 (GS).

FTC 0.60 340 P 13 11.76 -1.1  
 RYS 0.68 300 P 13 13.56 -0.8  
 ABL 0.73 319 eP 13 13.52 -1.7  
 PLEC 0.75 332 P 13 15.28 -0.3  
 SSK 0.79 96 iPc 13 15.02 -1.2  
 BMTc 0.83 2 P 13 15.57 -1.4  
 ARVC 0.84 349 P 13 15.98 -0.9  
 MARC 0.91 321 P 13 17.62 -0.5  
 LPC 0.91 283 P 13 17.21 -1.0  
 TEJ 0.93 357 P 13 16.78 -1.7  
 WOFP 1.23 357 P 13 23.20 -0.6  
 PEC 1.29 108 eP 13 22.61 -2.1  
 eS 13 41.49  
 CRGC 1.29 317 P 13 24.48 -0.3  
 WBSM 1.30 18 P 13 24.29 -0.7  
 BCH 1.48 307 eP 13 26.19 -1.4  
 WSHM 1.63 35 P 13 28.13 -1.5  
 WCHM 1.64 16 P 13 31.92 1.8  
 TOW 1.67 25 P 13 32.29 2.1  
 PLM 1.76 122 eP 13 30.16 -1.5  
 GSC 1.81 56 eP 13 31.26 -1.1  
 RCWM 1.83 26 P 13 37.09 4.4  
 MTUM 3.04 1 ePg 13 56.20 6.1  
 TPNV 3.28 36 ePn 13 52.54 -0.9  
 MMPM 3.32 355 ePg 13 59.45 5.4  
 GLA 3.41 110 (Pn) 13 54.86 -0.3  
 ARN 3.84 323 eP 14 00.88 -0.4  
 CMB 3.98 340 (P) 13 58.50 -4.8  
 27 obs. associated

? JAN 18, 1994 11h 15m 35.51±1.05s  
 40.646 N ±10.1km 29.913 E ±6.9km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.5 (ISK).

EYL 0.20 113 iPg 15 40.00 0.0  
 iSg 15 42.00  
 HRT 0.26 313 iPg 15 41.00 0.0  
 eSg 15 46.00  
 YLV 0.42 259 ePg 15 44.00 -0.1  
 IZI 0.46 228 iPg 15 44.90 0.1  
 iSg 15 51.90  
 S.D. = 0.1 on 4 of 4 obs.

& JAN 18, 1994 11h 34m 09.57s  
 34.267 N 118.452 W  
 DEPTH = 3.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.6 (GS).

SSK 0.63 95 ePd 34 21.39 -0.8  
 eS 34 30.53  
 ABL 0.86 313 eP 34 24.97 -1.9  
 PEC 1.14 109 eP 34 29.74 -1.7  
 PLM 1.61 124 eP 34 36.90 -2.1  
 BCH 1.63 305 eP 34 37.22 -2.0  
 GSC 1.70 52 eP 34 38.98 -1.4  
 TPNV 3.22 33 ePn 35 00.81 -1.3  
 MEMM 3.42 353 ePg 35 11.76 7.0  
 BONR 3.68 2 ePg 35 16.94 8.1  
 ORV 5.82 336 ePc 35 45.84 7.1  
 eS 36 19.89  
 10 obs. associated

& JAN 18, 1994 11h 35m 09.90s  
 34.218 N 118.607 W  
 DEPTH = 12.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.2 (PAS), 4.2 (GS),  
 4.2 (BRK).

RYS 0.75 305 P 35 23.75 -0.7  
 ABL 0.81 321 ePc 35 24.28 -1.3  
 ARVC 0.93 349 P 35 27.01 -0.4  
 MARC 0.99 323 P 35 27.77 -0.7  
 PEC 1.24 105 ePc 35 31.37 -1.5



WOFM	1.32	356	P	35	33.68	-0.5
SCCM	1.48	300	P	35	35.82	-0.5
BCH	1.55	309	eP	35	36.38	-1.1
PLM	1.69	120	eP	35	37.66	-1.9
NMC	1.72	19	P	35	41.25	1.4
GSC	1.84	53	eP	35	41.79	0.2
RCWM	1.90	24	P	35	42.38	-0.1
PMCM	2.09	317	P	35	43.95	-1.2
PHAM	2.18	318	eP	35	45.02	-1.5
PKEM	2.21	327	eP	35	46.59	-0.3
PANM	2.45	310	P	35	48.10	-2.2
PARM	2.47	325	P	35	54.40	3.8
PHCM	2.55	306	P	35	50.40	-1.4
PRI	2.55	319	eP	35	50.31	-1.6
PAPM	2.82	308	P	35	53.18	-2.5
FRI	2.91	342	ePd	35	55.70	-1.1
			iS	36	29.37	
MTUM	3.13	1	(Pn)	36	00.50	0.4
BAPM	3.16	309	P	35	57.77	-2.7
EKH	3.22	320	P	36	01.19	0.0
TPNV	3.33	35	eP	36	02.17	-0.9
GLA	3.36	109	ePn	36	02.31	-1.0
BSLM	3.39	320	P	36	02.75	-0.9
HJSM	3.40	321	P	36	04.03	0.3
MMPM	3.40	354	ePn	36	03.39	-0.7
SAO	3.44	318	eP	36	01.68	-2.6
MRCM	3.45	1	ePn	36	02.85	-1.8
MEMM	3.45	356	ePn	36	03.71	-0.7
CSR	3.65	319	P	36	07.71	0.3
CBC	3.68	318	P	36	07.67	-0.1
BONR	3.74	4	ePn	36	07.63	-1.3
JBZM	3.81	318	P	36	10.53	0.9
COE	3.93	321	eP	36	08.97	-2.3
ARN	3.93	324	eP	36	08.62	-2.7
MHC	3.97	323	eP	36	10.04	-2.0
TNP	4.02	16	ePn	36	14.09	1.4
			ePg	36	24.14	
CMB	4.07	340	eP	36	12.70	-0.6
JSM	4.16	317	P	36	12.26	-2.3
HMR	4.70	328	eP	36	20.47	-1.8
KVN	4.84	5	ePn	36	24.94	0.5
			ePg	36	37.02	
NTYM	5.30	323	eP	36	27.71	-2.9
ARUT	5.50	48	ePn	36	34.43	0.7
			ePg	36	53.02	
ORV	5.81	337	eP	36	36.00	-1.9
MSU	6.73	49	ePn	36	52.93	1.8
			ePg	37	14.28	
TUC	6.82	104	ePn	36	51.12	-1.2
DUG	7.55	36	ePn	37	02.87	0.4
			ePg	37	29.80	
LBFM	7.58	341	eP	37	02.29	-0.6
KMPM	7.59	326	eP	37	01.38	-1.6
SRU	8.12	51	eP	37	13.13	2.5
EMUT	8.37	46	(P)	37	15.44	1.4
DAU	8.51	41	(P)	37	17.40	1.2
PV09	8.75	58	eP	37	19.30	-0.2
PV10	8.77	59	eP	37	20.19	0.6
PV08	9.13	59	eP	37	23.79	-0.9
ALQ	10.04	82	eP	37	38.08	0.9
	0.9s	2.61nm			4.7mb	X
LTX	13.61	107	(P)	38	24.22	-0.9
RSSD	15.00	44	eP	38	41.66	-1.8
	1.1s	6.30nm			4.0mb	
TUL	18.75	78	iPc	39	33.10	2.4
UYO	19.97	83	iPc	39	44.80	0.0
ULM	23.10	39	eP	40	20.00	3.7
YKA	28.41	4	P	41	04.50	-1.4
	0.8s	0.30nm			3.1mb	
MBC	42.12	360	eP	43	05.00	2.1
	66 obs.	associated				
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& JAN 18, 1994 11h 47m 20.95s						
34.302 N 118.639 W						
DEPTH = 3.6km						
SOUTHERN CALIFORNIA (43)						
<PAS-P>. ML 2.6 (PAS).						
ABL	0.73	319	eP	47	34.27	-1.2
SSK	0.79	96	eP	47	35.50	-1.2
			eS	47	48.22	
PEC	1.29	108	eP	47	43.75	-1.8
BCH	1.48	307	eP	47	46.87	-1.7
PLM	1.76	122	(P)	47	50.20	-2.4
GSC	1.81	56	(P)	47	51.88	-1.4
TPNV	3.28	36	(Pn)	48	12.97	-1.4
7 obs. associated						

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* JAN 18, 1994 11h 53m 31.38s 1.20s						
51.592 N ± 9.5km 7.632 E ± 8.9km						
DEPTH = 10.0km (geophysicist)						
GERMANY (543)						
ML 3.1 (LDG), 3.0 (BNS).						
WTS	0.65	309	iPg	53	44.80	0.5
	0.7s	50.00nm				
BNS	0.69	205	ePd	53	46.30	1.3
	0.7s	465.00nm				
		ic	53	48.40		
		iS	53	57.50		
STB	1.12	207	iPd	53	52.50	0.2
	0.2s	191.00nm				
		ec	53	54.20		
		iS	54	11.60		
KOE	1.17	177	ePc	53	54.40	1.2
		iS	54	11.30		
KLL	1.26	222	iPd	53	56.80	2.0
		iS	54	14.80		
ENN	1.36	233	ePn	53	57.50	1.2
	0.5s	19.40nm				
		iPg	54	00.00		
		iS	54	17.30		
TNS	1.46	159	ePnc	53	57.40	-0.5
		ePg	53	59.50		
		eSn	54	16.70		
WLF	2.15	207	iPc	54	13.94	6.3X
SNF	2.37	244	P	54	18.90	8.0X
DOU	2.44	233	P	54	20.30	8.4X
		iS	54	42.50		
MOX	2.68	109	ePn	54	15.90	0.5
		ePg	54	22.30		
		iSg	54	56.20		
CDF	3.19	184	Pn	54	22.00	-0.7
		Sg	55	13.20		
HAU	3.69	194	Pn	54	28.90	-0.7
LOR	4.98	211	Pn	54	46.50	-1.4
		Sn	55	42.10		
		Sg	56	11.30		
LBF	5.19	209	Pn	54	49.30	-1.7
		Sn	55	47.80		
		Sg	56	17.90		
GRR	6.34	243	Pn	55	05.30	-1.9
		Sn	56	14.80		
S.D. = 1.4 on 13 of 16 obs.						
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& JAN 18, 1994 12h 07m 13.89s						
34.335 N 118.523 W						
DEPTH = 1.7km						
SOUTHERN CALIFORNIA (43)						
<PAS-P>. ML 2.9 (PAS), 3.1 (GS).						
FTC	0.62	330	P	07	25.72	-0.5
SSK	0.70	100	eP	07	26.79	-1.1
		eS	07	38.57		
RYS	0.75	294	P	07	28.39	-0.5
ABL	0.77	312	eP	07	27.96	-1.4
BMT	0.80	356	P	07	28.78	-1.1
ARVC	0.83	342	P	07	29.51	-0.9
TEL	0.90	351	P	07	29.47	-2.5
MARC	0.95	315	P	07	31.72	-1.0
LPC	1.00	280	P	07	32.02	-1.6
TMB	1.12	312	P	07	35.25	-0.5
WOFM	1.21	353	P	07	36.97	-0.3
PEC	1.21	111	iPc	07	35.52	-1.8
WBSM	1.24	15	P	07	38.08	0.2
CRGC	1.34	313	P	07	38.99	-0.5
SCCM	1.49	294	P	07	40.82	-1.0
BCH	1.54	304	eP	07	40.95	-1.6
WSHM	1.55	33	P	07	42.52	-0.1
TOW	1.60	23	P	07	44.56	1.2
PLM	1.69	125	eP	07	42.57	-2.3
		eS	08	05.59		
RCWM	1.76	24	P	07	46.95	1.2
WLHM	1.82	5	P	07	47.58	0.8
PHAM	2.15	315	eP	07	49.60	-1.7
GLA	3.34	112	ePn	08	04.66	-3.6
BONR	3.62	3	ePg	08	22.12	9.7
CMB	3.99	338	(P)	08	16.48	-1.0
25 obs. associated						
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& JAN 18, 1994 12h 15m 37.60s						
34.346 N 118.469 W						
DEPTH = 5.5km						
SOUTHERN CALIFORNIA (43)						

<PAS-P> ML 2.8 (PAS).						
BCH	1.57	303	eP	16	04.74	-1.5
MTUM	3.00	359	(Pn)	16	27.26	0.4
MMPM	3.29	352	(Pn)	16	30.81	-0.2
3 obs. associated						
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& JAN 18, 1994 12h 39m 38.75s						
60.130 N 151.294 W						
DEPTH = 61.9km						
KENAI PENINSULA, ALASKA (14)						
<AEIC>. ML 3.2 (AEIC), 3.1 (PMR).						
BRLK	0.42	151	eP	39	49.73	-0.5
		eS	39	58.16		
HOM	0.50	201	iPd	39	50.87	-0.1
		eS	39	59.56		
CNPM	0.61	177	iPd	39	51.54	-0.6
		eS	40	01.48		
NKA	0.62	3	iPc	39	53.75	1.5
SLKM	0.65	54	iPc	39	52.15	-0.6
		eS	40	03.13		
XLV	0.71	198	eP	39	52.38	-1.0
		eS	40	03.46		
REF	0.79	298	iPd	39	53.72	-0.8
		eS	40	04.73		
RED	0.79	292	iPd	39	53.65	-0.8
		eS	40	05.41		
RSO	0.80	295	ePd	39	53.92	-0.7
RS2	0.80	295	iPd	39	53.94	-0.7
DFR	0.83	304	iPd	39	54.10	-0.8
RDW	0.83	296	iPd	39	54.23	-0.8
ILIM	0.84	267	eP	39	54.12	-0.8
		eS	40	05.82		
INE	0.89	266	eP	39	54.67	-1.0



18d 12h

CVA	2.79	79	eP	40 19.05	-2.8
HUR	2.97	15	eP	40 25.09	0.7
KLU	2.97	60	ePc	40 22.83	-1.6
TOA	3.18	49	P	40 26.80	-0.6
TRF	3.37	8	eP	40 29.44	-0.7
TZL	3.44	53	eP	40 30.21	-0.8
KTH	3.44	3	eP	40 30.69	-0.4
RND	3.49	18	eP	40 31.47	-0.3
DHY	3.50	31	eP	40 31.35	-0.7
TTA	3.60	323	eP	40 31.04	-2.4
MCK	3.78	16	eP	40 34.88	-1.0
GLB	3.90	67	eP	40 34.97	-2.5
PAX	3.99	42	eP	40 37.72	-1.1
			eS	41 22.80	
BWN	4.15	11	eP	40 40.32	-0.6
SNH	4.23	86	eP	40 39.79	-2.3
DDM	4.48	33	P	40 45.80	0.2
BALM	4.51	74	eP	40 43.08	-3.0
NEA	4.58	12	eP	40 45.41	-1.6
WRH	4.61	18	eP	40 45.85	-1.5
HDA	4.75	23	eP	40 48.12	-1.3
YAH	4.76	83	eP	40 47.91	-2.0
CCB	4.81	18	eP	40 48.50	-1.8
MLY	4.93	3	eP	40 50.04	-1.9
FBA	5.05	17	eP	40 51.45	-2.3
IL1	5.09	22	eP	40 52.11	-2.1
ILB	5.09	22	eP	40 52.33	-1.9
GLM	5.20	19	eP	40 54.06	-1.7
BC3	5.41	53	eP	40 57.09	-1.7
IM3	5.98	350	eP	41 03.16	-3.5
IMA	6.06	351	eP	41 05.80	-2.1
YKA	17.62	66	P	43 53.90	12.9
	1.0s		0.50nm		
	86 obs.		associated		

& JAN 18, 1994 12h 41m 19.29s  
34.300 N 118.636 W  
DEPTH = 3.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.6 (GS).

ABL	0.73	319	eP	41 32.44	-1.5
SSK	0.79	96	eP	41 32.01	-3.0
			eS	41 46.43	
PEC	1.29	108	eP	41 40.36	-3.5
BCH	1.48	307	eP	41 45.15	-1.8
PLM	1.75	122	eP	41 49.29	-1.6
GSC	1.81	56	eP	41 50.21	-1.4
MTUV	3.05	1	ePg	42 14.72	5.3
TPNV	3.28	36	(Pn)	42 11.00	-1.7
MMPM	3.32	355	ePg	42 17.97	4.5
MEMM	3.37	356	ePg	42 19.44	5.6
			10 obs.		associated

& JAN 18, 1994 12h 42m 03.30s  
34.308 N 118.580 W  
DEPTH = 2.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.4 (PAS), 3.6 (GS).

FTC	0.62	335	P	42 15.47	-0.2
RYS	0.72	298	P	42 17.47	-0.2
SSK	0.74	97	eP	42 17.33	-0.8
ABL	0.76	316	eP	42 17.48	-0.9
PLEC	0.77	329	P	42 19.88	1.2
BMTC	0.83	359	P	42 18.65	-1.1
ARVC	0.84	346	P	42 19.73	-0.4
TEJ	0.92	354	P	42 19.89	-1.9
MARC	0.93	318	P	42 21.18	-0.7
LPC	0.96	282	P	42 21.10	-1.2
WJPM	1.10	4	P	42 24.32	-0.5
TMB	1.11	315	P	42 25.07	0.2
WOFM	1.23	355	P	42 26.77	-0.2
PEC	1.25	109	eP	42 24.89	-2.4
WBSM	1.28	16	P	42 28.17	0.3
CRGC	1.32	315	P	42 28.01	-0.6
WORM	1.41	11	P	42 30.17	0.1
SCCM	1.46	296	P	42 29.84	-0.9
BCH	1.52	306	eP	42 30.98	-0.6
WSHM	1.60	34	P	42 33.50	0.8
WCHM	1.63	15	P	42 34.25	0.9
TOW	1.64	24	P	42 35.80	2.5
PLM	1.72	123	eP	42 32.61	-2.0
VPFM	1.75	21	P	42 35.41	0.4
GSC	1.77	55	eP	42 35.77	0.6
PHAM	2.13	316	(P)	42 39.95	-0.5

MTUM	3.04	0	(P)	42 53.58	0.1
TPNV	3.25	35	ePn	42 55.90	-0.5
MMPM	3.32	354	(P)	42 57.85	0.3
MRCM	3.36	1	(Pn)	42 57.15	-0.9
MEMM	3.36	355	(P)	42 57.34	-0.6
GLA	3.37	111	eP	42 55.70	-2.4
SAO	3.39	317	eP	42 55.51	-2.8
BONR	3.65	3	(Pn)	43 06.89	4.7
ARN	3.87	323	eP	43 03.50	-1.7
COE	3.87	320	(P)	43 01.62	-3.6
TNP	3.92	16	(Pn)	43 06.92	0.8
CMB	4.00	339	(P)	43 06.10	-0.9
KVN	4.75	5	(Pn)	43 18.22	0.4
ARUT	5.42	49	ePn	43 26.59	-0.7
MSU	6.65	49	ePg	44 07.88	23.1
DUG	7.46	36	ePg	44 22.16	26.2

42 obs. associated

& JAN 18, 1994 12h 42m 55.02s  
34.311 N 118.584 W  
DEPTH = 1.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.6 (GS).

SSK	0.74	97	eP	43 08.88	-1.0
			eS	43 20.98	
ABL	0.75	316	eP	43 09.46	-0.6
PEC	1.25	109	eP	43 18.11	-1.0
BCH	1.51	306	eP	43 22.71	-0.6
PLM	1.72	123	(P)	43 24.47	-1.9
TPNV	3.25	35	(P)	43 50.00	1.8
			6 obs.		associated

JAN 18, 1994 12h 43m 11.95s ± 0.54s  
18.575 N ± 5.2km 68.816 W ± 6.3km  
DEPTH = 163.0 ± 6.4 km  
4.6mb ( 7 obs.)  
MONA PASSAGE ( 89)

LSP	1.69	103	P	43 44.63	-0.2
MGP	1.74	109	iP	43 45.00	-0.3
LRS	1.89	98	iP	43 47.00	-0.1
APR	1.98	93	iP	43 48.50	0.4
PNP	2.09	104	P	43 49.56	0.3
PORP	2.13	104	P	43 49.97	0.1
CLLP	2.18	103	P	43 50.45	0.1
CSB	2.54	96	P	43 53.58	-1.1
SJG	2.57	100	iP	43 54.40	-0.7
CPD	2.81	101	iP	43 57.40	-0.6
LPR	2.81	95	iP	43 57.00	-1.0
SKI	5.92	101	eP	44 39.00	0.5
MGH	6.56	105	eP	44 48.10	0.9
BPA	6.80	102	eP	44 48.34	-2.1

			S	47 04.00	
PAG	7.27	109	eP	44 56.00	-0.8
CANV	7.49	180	iP	44 59.40	-0.3
			eS	46 19.70	
MGG	7.64	109	eP	45 02.12	0.6
MORO	7.67	176	eP	45 03.60	1.5
			eS	46 22.70	

DEG	7.74	106	eP	45 02.20	-0.7
DFD	8.28	116	eP	45 10.80	0.7
LLAV	8.28	166	iP	45 09.20	-1.0
			eS	46 32.50	
BIM	8.45	117	eP	45 11.70	-0.7
MVM	8.58	117	eP	45 15.68	1.6
OLLA	8.73	167	iP	45 16.40	0.3
			eS	46 48.70	
TOV	8.79	186	eP	45 16.80	-0.1
SLB	8.84	121	eP	45 17.50	0.0
SVB	8.98	125	eP	45 19.82	0.4
SVV	8.99	124	eP	45 19.88	0.4
SDV	9.79	191	eP	45 30.00	-0.2
			eS	47 21.50	

TCE	10.39	138	eP	45 40.34	2.4
TRN	10.65	137	eP	45 44.07	2.7
			eS	47 26.70	
BOT	10.75	132	eP	45 45.60	3.1X
TBH	11.00	136	eP	45 49.66	3.8X
LHS	19.10	328	(P)	47 23.85	-0.7
JSC	19.17	327	eP	47 24.71	-0.6
CEH	19.49	334	eP	47 30.71	2.1
	0.5s		16.39nm		4.7mb
			eLg	50 57.53	

PRM	19.61	325	(P)	47 29.49	-0.3
GOGA	19.76	321	eP	47 31.29	0.0
	0.8s		22.12nm		4.6mb

TUL	29.41	311	iPd	49 02.60	0.5
LTX	33.49	295	(P)	49 33.42	-4.4X
LPZ	34.65	179	P	49 45.90	-2.5
LPB	34.89	179	eP	49 45.00	-5.2X
SIV	35.18	167	P	49 49.80	-2.4
MOCB	39.70	175	P	50 26.90	-3.5X
FRB	45.13	0	eP	51 15.00	1.7
			pP	51 49.50	154kmX
YKA	54.02	336	P	52 19.80	-1.3
	0.5s		0.30nm		3.3mb X
LKO	61.73	89	P	53 16.14	0.4
	0.5s		2.50nm		4.4mb
TIC	63.10	92	P	53 24.42	-0.3
	1.0s		10.00nm		4.7mb
MBC	63.15	348	eP	53 25.50	1.5
LIC	63.22	92	P	53 25.40	0.0
	0.8s		6.00nm		4.5mb
KIC	63.45	92	P	53 27.04	0.1
	0.5s		8.50nm		4.9mb
GEC2	71.38	44	P	54 14.30	-1.8
	1.0s		2.29nm		3.9mb
WRA	158.10	263	PKP	02 51.70	0.7
	0.8s		0.50nm		
	S.D.		= 1.2 on 48 of 53 obs.		

& JAN 18, 1994 13h 09m 12.07s  
34.312 N 118.621 W  
DEPTH = 15.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

ABL	0.73	318	eP	09 25.15	-1.0
SSK	0.78	97	eP	09 26.18	-0.7
PEC	1.28	109	eP	09 34.49	-0.8
BCH	1.49	306	eP	09 37.56	-0.7
PLM	1.75	123	eP	09 42.17	0.0
GSC	1.79	56	eP	09 41.81	-0.9
TPNV	3.26	36	ePn	10 02.60	-1.2
MEMM	3.36	356	P	10 12.76	7.9
			8 obs.		associated

JAN 18, 1994 13h 18m 47.12s ± 0.58s  
17.500 N ± 6.2km 145.920 E ± 11.2km  
DEPTH = 110.6 ± 5.2 km  
4.4mb ( 8 obs.)  
MARIANA ISLANDS (216)

ALMG	0.13	322	eP	19 02.30	-1.3
PAGN	0.60	343	eP	19 05.00	0.0
ANAT	1.17	193	eP	19 10.50	0.0
SAPN	2.29	184	eP	19 49.00	24.6X
GUMO	4.02	195	eP	19 48.90	1.2
	0.7s		259.10nm		
			eS	20 37.30	

PJG	4.02	195	eP	19 49.00	1.3
GUA	4.06	194	eP	19 48.60	0.4
	0.5s		152.11nm		
PMG	26.76	177	eP	24 17.00	-1.4
WB2	38.90	197	eP	26 02.40	-1.3
	0.8s		11.50nm		4.7mb
			eS	31 48.90	

ASPA	42.57	196	eP	26 34.60	0.9
NST	43.84	275	eP	26 46.50	2.3
BDT	44.69	277	eP	26 52.00	1.1
WARB	47.29	204	eP	27 11.80	0.4
STK	49.27	185	eP	27 29.60	3.1X
	0.5s		2.10nm		4.3mb

BWA	51.69	177	eP	27 45.20	0.3
CAN	52.61	177	eP	27 52.10	0.4
			i	27 54.30	
BAL	55.48	211	eP	28 10.80	-1.9
GUN	55.88	292	P	28 16.80	0.5
PKI	56.32	292	P	28 17.60	-1.8
DMN	56.58	292	P	28 20.20	-1.0
MUN	56.85	210	eP	28 21.50	



18d 13h

RES 80.53 14 eP 30 48.00 0.0  
0.9s 3.00nm 4.1mb  
OBN 86.38 327 ePc 31 26.50 8.5X  
0.8s 14.00nm 5.0mb  
e 32 03.00  
LPZ 147.42 93 PKP 38 18.50 0.0  
LPB 147.48 93 PKP 38 23.00 4.7X  
MOCB 150.02 102 PKP 38 28.10 5.9X  
S.D. = 1.1 on 29 of 34 obs.

& JAN 18, 1994 13h 23m 15.11s  
34.333 N 118.438 W  
DEPTH = 7.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.1 (GS).

SSK 0.63 101 eP 23 26.59 -1.2  
FTC 0.65 325 P 23 27.11 -1.2  
BMT 0.81 351 P 23 29.69 -1.5  
SNDC 0.82 8 P 23 32.02 0.7  
PLEC 0.82 321 P 23 30.97 -0.4  
ABL 0.83 309 eP 23 29.82 -1.7  
ARVC 0.86 338 P 23 29.56 -2.3  
TEJ 0.92 347 P 23 29.95 -3.0  
MARC 1.00 312 P 23 33.36 -1.0  
LPC 1.07 279 P 23 34.43 -1.1  
WJPM 1.08 358 P 23 34.56 -1.1  
PEC 1.15 112 eP 23 35.13 -1.7  
eS 23 51.29  
TMB 1.18 310 P 23 36.59 -0.8  
WOFM 1.22 349 P 23 37.52 -0.7  
WORM 1.37 7 P 23 40.50 -0.1  
CRGC 1.39 311 P 23 40.06 -1.0  
WASH 1.41 356 P 23 41.30 0.0  
WSHM 1.51 31 P 23 41.22 -1.4  
TOW 1.57 20 P 23 42.43 -1.1  
WCHM 1.57 11 P 23 44.63 0.9  
BCH 1.60 303 eP 23 42.34 -1.6  
PLM 1.64 126 eP 23 42.00 -2.6  
GSC 1.66 54 ePn 23 43.40 -1.4  
VP 1.69 17 P 23 46.99 1.7  
RCWM 1.74 22 P 23 45.12 -0.8  
WLHM 1.82 3 P 23 48.25 0.9  
PHAM 2.20 314 eP 23 54.55 2.0  
MTUM 3.02 358 ePg 24 09.86 5.5  
TPNV 3.16 34 ePn 24 04.99 -1.4  
MMPM 3.30 352 ePg 24 13.92 5.3  
MRMC 3.33 359 ePg 24 15.94 7.1  
MEMM 3.35 353 ePg 24 15.87 7.0  
BONR 3.62 2 ePg 24 20.89 7.9  
TNP 3.87 14 ePg 24 27.25 10.7  
34 obs. associated

& JAN 18, 1994 13h 24m 44.13s  
34.319 N 118.558 W  
DEPTH = 1.7km  
3.9mb (1 obs.)  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 4.3 (PAS), 4.4 (GS),  
4.5 (BRK).

SSK 0.72 98 iPc 24 57.91 -0.7  
RYS 0.73 296 P 24 58.12 -0.6  
ABL 0.76 314 ePc 24 58.17 -1.2  
LPC 0.97 281 P 25 01.82 -1.6  
PEC 1.24 110 eP 25 05.92 -2.0  
WORM 1.40 11 P 25 10.38 -0.3  
BCH 1.52 305 eP 25 10.82 -1.8  
PLM 1.71 124 eP 25 12.98 -2.3  
GSC 1.74 55 eP 25 14.32 -1.4  
PTRM 1.90 315 P 25 16.43 -1.5  
PMCM 2.04 314 P 25 18.53 -1.5  
PHAM 2.14 316 eP 25 19.15 -2.2  
PKEM 2.15 324 eP 25 19.63 -1.9  
PSTM 2.27 316 P 25 21.86 -1.4  
PSMM 2.42 317 P 25 23.93 -1.5  
PRI 2.51 317 iP 25 24.72 -2.0  
PAPM 2.79 305 P 25 27.40 -3.5  
LRC 2.80 314 P 25 28.00 -2.8  
FRI 2.83 341 iP 25 29.17 -2.0  
eS 26 04.90  
BMSM 2.96 323 P 25 31.02 -2.2  
MTUM 3.03 360 eP 25 34.25 0.0  
BLRM 3.22 317 P 25 35.16 -1.6  
TPNV 3.23 35 ePn 25 35.99 -1.0  
BPOM 3.24 307 P 25 33.70 -3.4  
MRMC 3.35 1 ePn 25 38.36 -0.4

GLA 3.36 111 eP 25 36.88 -1.9  
SAO 3.39 317 eP 25 36.14 -3.1  
FRP 3.41 316 P 25 36.72 -2.8  
HJGM 3.49 316 P 25 37.29 -3.3  
HCOM 3.63 316 P 25 39.91 -2.6  
BONR 3.63 3 ePn 25 43.55 0.6  
PEV 3.76 316 P 25 41.49 -3.0  
JBZM 3.76 317 P 25 42.49 -2.0  
ARN 3.87 322 eP 25 43.41 -2.7  
COE 3.87 320 eP 25 43.83 -2.3  
TNP 3.91 16 ePn 25 46.26 -0.5  
MHC 3.92 321 eP 25 44.35 -2.5  
CMB 3.99 339 eP 25 46.67 -1.1  
JBLM 4.06 315 P 25 44.74 -4.0  
MSJ 4.18 321 P 25 48.02 -2.3  
BKS 4.63 321 eP 25 54.21 -2.6  
HMR 4.64 327 eP 25 55.00 -1.9  
KVN 4.74 4 ePn 25 58.93 0.4  
NTYM 5.24 322 eP 26 02.37 -3.0  
ARUT 5.40 49 eP 26 06.92 -1.0  
ORV 5.73 337 eP 26 10.30 -2.1  
MSU 6.63 49 eP 26 25.22 -0.1  
LMEM 6.65 340 (Pn) 26 28.71 3.1  
TUC 6.81 105 (P) 26 24.57 -3.1  
LGPM 7.40 334 (P) 26 34.37 -1.6  
DUG 7.44 36 (P) 26 37.13 0.6  
e 26 57.08

LBFM 7.49 340 (P) 26 36.41 -0.9  
KMFM 7.53 326 eP 26 35.92 -1.7  
FHC 7.77 328 (P) 26 39.53 -1.6  
SRU 8.03 51 (P) 26 43.68 -1.2  
EMUT 8.27 46 (P) 26 47.19 -1.0  
DAU 8.41 42 (P) 26 50.03 -0.3  
PV09 8.67 59 eP 26 53.83 0.0  
PV10 8.68 59 eP 26 53.92 -0.1  
PV08 9.04 59 eP 26 59.17 0.1  
VGB 11.31 352 (P) 27 31.19 1.3  
LRM 12.40 20 eP 27 44.40 -0.4  
RMW 13.35 350 (P) 27 57.40 0.1  
LTX 13.60 107 (P) 28 01.22 0.5  
MIAR 20.60 82 eP 29 24.22 -3.0  
0.8s 4.83nm 3.9mb  
ULM 22.99 39 eP 29 53.00 1.9  
MBC 42.01 360 eP 32 39.50 1.5  
67 obs. associated

& JAN 18, 1994 13h 33m 33.33s  
34.305 N 118.585 W  
DEPTH = 2.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.1 (PAS), 3.2 (GS).

FTC 0.62 336 P 33 45.47 -0.2  
RYS 0.72 298 P 33 47.66 0.0  
SSK 0.74 97 ePc 33 47.40 -0.8  
ABL 0.76 316 ePc 33 47.53 -0.9  
PLEC 0.77 329 P 33 49.43 0.7  
BMT 0.83 359 P 33 48.79 -1.1  
ARVC 0.84 346 P 33 49.36 -0.8  
TEJ 0.93 355 P 33 49.58 -2.2  
MARC 0.93 318 P 33 51.22 -0.7  
LPC 0.95 282 P 33 51.13 -1.2  
WOFM 1.23 355 P 33 57.25 0.2  
PEC 1.25 109 eP 33 55.69 -1.6  
WBSM 1.28 16 P 33 57.86 -0.1  
CRGC 1.32 315 P 33 58.30 -0.3  
SCCM 1.45 296 P 34 00.06 -0.6  
BCH 1.51 306 eP 34 00.54 -1.1  
WSHM 1.60 34 P 34 01.77 -1.0  
TOW 1.64 24 P 34 05.07 1.7  
PLM 1.72 123 eP 34 03.89 -0.7  
GSC 1.77 55 eP 34 04.64 -0.6  
RCWM 1.81 25 P 34 07.93 2.1  
WLHM 1.86 7 P 34 08.92 2.2  
PAPM 2.78 306 P 34 16.95 -2.9  
MTUM 3.04 0 eP 34 23.95 0.4  
TPNV 3.25 35 eP 34 25.84 -0.7  
MEMM 3.37 355 (Pn) 34 27.44 -0.5  
GLA 3.37 111 ePn 34 29.25 1.1  
BONR 3.65 4 ePg 34 44.55 12.3  
TNP 3.93 16 ePg 34 46.89 10.7  
29 obs. associated

& JAN 18, 1994 13h 34m 20.40s  
34.312 N 118.566 W  
DEPTH = 2.0km  
SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.3 (PAS), 3.5 (GS).

FTC 0.62 334 P 34 32.60 -0.2  
SSK 0.73 98 eP 34 34.31 -0.7  
eS 34 45.74  
ABL 0.76 315 ePc 34 34.73 -0.9  
LPC 0.97 281 P 34 38.95 -0.7  
TMB 1.11 314 P 34 41.75 -0.3  
WOFM 1.23 354 P 34 43.79 -0.3  
PEC 1.24 109 eP 34 42.66 -1.5  
WBSM 1.27 16 P 34 45.29 0.4  
WORM 1.41 11 P 34 47.25 0.2  
BCH 1.52 305 eP 34 48.63 -0.2  
WCHM 1.62 14 P 34 51.61 1.3  
PLM 1.71 124 (P) 34 50.36 -1.2  
GSC 1.75 55 eP 34 52.24 0.1  
WLHM 1.85 6 P 34 55.72 2.0  
PAPM 2.79 306 P 35 04.07 -3.0  
MTUM 3.03 0 eP 35 10.75 0.2  
TPNV 3.24 35 (Pn) 35 12.82 -0.6  
GLA 3.36 111 (Pn) 35 12.65 -2.4  
FRP 3.41 316 P 35 13.31 -2.4  
TNP 3.92 16 ePg 35 36.45 13.3  
CMB 4.00 339 eP 35 25.69 1.6  
ARUT 5.41 49 ePg 36 03.43 19.2  
22 obs. associated

& JAN 18, 1994 13h 50m 51.04s  
34.309 N 118.450 W  
DEPTH = 2.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS).

SSK 0.63 99 eP 51 03.19 -0.5  
eS 51 13.51  
FTC 0.67 327 P 51 03.65 -0.7  
RYS 0.82 294 P 51 06.57 -0.8  
BMT 0.83 352 P 51 06.42 -1.3  
ABL 0.83 311 iPc 51 06.05 -1.7  
SNDC 0.84 8 P 51 09.00 1.2  
ARVC 0.87 339 P 51 07.26 -1.2  
TEJ 0.94 348 P 51 06.86 -2.9  
MARC 1.01 314 P 51 09.56 -1.3  
LPC 1.06 281 P 51 10.31 -1.5  
WJPM 1.10 359 P 51 11.19 -1.3  
PEC 1.15 111 ePc 51 11.69 -1.6  
TMB 1.18 311 P 51 12.77 -1.1  
WOFM 1.24 350 P 51 14.10 -0.8  
WBSM 1.25 12 P 51 14.15 -1.0  
WORM 1.39 7 P 51 17.50 0.0  
CRGC 1.40 312 P 51 16.56 -1.1  
WSHM 1.54 31 P 51 16.18 -3.4  
SCCM 1.55 294 P 51 22.65 2.9  
WCHM 1.60 11 P 51 20.48 -0.2  
BCH 1.60 303 eP 51 18.21 -2.3  
PLM 1.63 125 eP 51 18.85 -2.1  
GSC 1.68 53 eP 51 20.00 -1.6  
VP 1.72 17 P 51 23.76 1.6  
RCWM 1.76 22 P 51 24.55 1.7  
WLHM 1.84 3 P 51 24.98 0.8  
PHAM 2.21 314 (P) 51 27.81 -1.4  
MTUM 3.04 358 (Pn) 51 42.04 0.9  
TPNV 3.19 34 ePn 51 41.98 -1.2  
MMPM 3.33 352 ePg 51 49.80 4.4  
MEMM 3.37 353 ePg 51 51.88 6.1  
BONR 3.64 2 (Pn) 51 48.59 -1.2  
TNP 3.89 14 ePg 52 03.25 9.9  
33 obs. associated

& JAN 18, 1994 14h 05m 08.30s  
34.264 N 118.464 W  
DEPTH = 9.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.4 (GS).

SSK 0.64 95 iPd 05 20.19 -1.1  
FTC 0.70 330 P 05 21.18 -1.0  
RYS 0.83 298 P 05 23.55 -0.9  
ABL 0.86 313 ePc 05 23.42 -1.5  
BMT 0.88 353 P 05 24.25 -1.0  
ARVC 0.91 341 P 05 25.54 -0.2  
TEJ 0.98 349 P 05 24.51 -2.5  
MARC 1.03 316 P 05 26.94 -0.9  
LPC 1.06 283 P 05 27.20 -1.2  
PEC 1.14 109 eP 05 28.34 -1.4  
TMB 1.21 313 P 05 30.21 -0.6  
WOFM 1.29 351 P 05 32.29 0.1



18d 14h

WBSM	1.30	12	P	05	31.80	-0.7
CRGC	1.42	314	P	05	33.61	-0.7
WSHM	1.58	30	P	05	35.60	-0.9
PLM	1.61	124	eP	05	34.99	-2.1
BCH	1.62	305	eP	05	35.94	-1.2
TOW	1.64	20	P	05	37.50	0.1
WCHM	1.65	11	P	05	39.43	1.8
GSC	1.71	52	eP	05	35.76	-2.7
VPEM	1.76	17	P	05	41.22	2.0
RCWM	1.81	21	P	05	39.20	-0.7
WLHM	1.89	4	P	05	40.47	-0.7
PHAM	2.23	315	(P)	05	46.80	0.9
BHPR	3.03	360	P	06	04.15	6.7
MTUM	3.08	359	ePg	06	04.53	6.4
TPNV	3.23	33	ePn	05	59.61	-0.6
GLA	3.27	111	ePn	05	59.40	-1.2
MMPM	3.37	352	ePg	06	11.06	8.7
MEMM	3.42	354	ePg	06	10.59	7.9
SAO	3.48	317	ePn	06	01.19	-2.5
BONR	3.69	2	ePg	06	15.79	8.9
TNP	3.94	14	ePg	06	23.29	12.9
ARN	3.96	322	(P)	06	10.56	0.1
CMB	4.07	338	eP	06	11.90	-0.1
ARUT	5.38	48	ePn	06	30.41	-0.3

36 obs. associated

& JAN 18, 1994 14h 12m 59.91s  
34.317 N 118.446 W  
DEPTH = 1.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.1 (PAS).

SSK	0.63	99	eP	13	12.06	-0.5
FTC	0.66	326	P	13	12.55	-0.6
RYS	0.82	294	P	13	14.81	-1.4
ARVC	0.87	339	P	13	16.06	-1.2
LPC	1.06	280	P	13	19.19	-1.6
WJPM	1.09	359	P	13	20.04	-1.3
PEC	1.15	111	ePc	13	20.61	-1.6
WBSM	1.24	12	P	13	23.14	-0.8
WSHM	1.53	31	P	13	27.45	-1.0
TOW	1.59	20	P	13	28.44	-0.9
BCH	1.60	303	eP	13	27.43	-2.1
PLM	1.63	126	eP	13	27.48	-2.5
GSC	1.67	54	eP	13	28.88	-1.6
VPEM	1.71	17	P	13	32.31	1.2
RCWM	1.76	22	P	13	32.72	1.0
TPNV	3.18	34	ePn	13	50.58	-1.5
MMPM	3.32	352	ePg	13	59.76	5.4
MEMM	3.37	353	ePg	14	00.02	5.4

18 obs. associated

& JAN 18, 1994 14h 17m 29.83s  
34.287 N 118.491 W  
DEPTH = 10.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.6 (PAS), 3.5 (GS).

SSK	0.67	96	eP	17	41.98	-1.2
FTC	0.67	331	P	17	42.20	-1.0
RYS	0.79	297	P	17	44.63	-0.8
ABL	0.82	313	ePc	17	44.59	-1.3
PLEC	0.83	325	P	17	45.43	-0.5
BMTC	0.85	354	P	17	45.31	-1.0
SNDC	0.87	10	P	17	47.81	1.2
ARVC	0.88	342	P	17	46.04	-0.7
MARC	1.00	316	P	17	48.06	-0.7
LPC	1.03	282	P	17	48.27	-1.1
PEC	1.17	109	iPc	17	50.38	-1.4
			eS	18	05.95	
TMB	1.17	313	P	17	51.31	-0.5
WOFM	1.26	352	P	17	52.56	-0.8
WBSM	1.28	13	P	17	52.91	-0.8
WORM	1.42	8	P	17	54.95	-0.8
WASM	1.45	358	P	17	55.79	-0.5
SCCM	1.53	296	P	17	57.29	0.0
WSHM	1.57	31	P	17	56.56	-1.3
BCH	1.59	305	eP	17	57.44	-0.7
NMC	1.62	17	P	17	57.58	-1.1
WCHM	1.63	12	P	17	57.80	-1.1
PLM	1.65	124	eP	17	57.39	-1.7
GSC	1.72	53	iPc	17	58.99	-1.0
VPEM	1.75	18	P	17	59.49	-1.0
RCWM	1.80	22	P	17	59.97	-1.2
WLHM	1.87	4	P	18	01.63	-0.8
PHAM	2.20	315	(P)	18	05.19	-1.8
MTUM	3.06	359	ePn	18	18.98	-0.3

TPNV	3.22	34	ePn	18	20.22	-1.4
GLA	3.29	111	ePn	18	22.89	0.3
MRCM	3.38	360	ePg	18	31.01	7.1
			eS	19	15.44	
MEMM	3.39	354	ePn	18	25.29	1.5
BONR	3.66	2	ePn	18	28.61	0.6
			ePg	18	36.45	
TNP	3.92	15	ePn	18	31.10	-0.5
			ePg	18	42.26	
ARN	3.93	322	eP	18	32.08	0.5
CMB	4.04	338	eP	18	32.76	-0.3
KVN	4.77	4	ePg	18	56.97	13.4
ARUT	5.38	48	eP	18	51.96	-0.3
MSU	6.61	49	ePn	19	09.88	0.2
DUG	7.43	36	ePg	19	48.90	27.8

40 obs. associated

& JAN 18, 1994 14h 23m 14.20± 0.78s  
39.961 N ± 6.4km 20.683 E ± 9.1km  
DEPTH = 5.0km (geophysicist)  
GREECE-ALBANIA BORDER REGION (392)  
ML 2.1 (THE).

IGT	0.51	212	ePg	23	24.26	-0.1
			eSg	23	33.66	
FNA	0.98	33	ePg	23	33.10	-0.2
			eSg	23	47.30	
OHR	1.15	4	ePn	23	36.50	0.3
LIT	1.39	84	ePb	23	40.42	0.1
			iSb	23	59.38	
AGG	1.58	126	ePb	23	43.14	0.2
			eSb	24	06.90	
GRG	1.65	52	ePb	23	43.66	-0.2
			eSb	24	06.66	

S.D. = 0.2 on 6 of 6 obs.

& JAN 18, 1994 14h 27m 24.33s  
34.305 N 118.452 W  
DEPTH = 6.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.3 (PAS), 3.5 (GS).

SSK	0.64	98	eP	27	35.93	-1.2
FTC	0.67	327	P	27	35.18	-2.6
RYS	0.82	295	P	27	37.64	-3.0
ABL	0.84	311	eP	27	37.50	-3.5
ARVC	0.88	339	P	27	39.97	-1.6
TEJ	0.94	348	P	27	39.62	-3.1
MARC	1.01	314	P	27	41.38	-2.4
LPC	1.06	281	P	27	42.20	-2.6
PEC	1.15	111	eP	27	44.74	-1.5
			eS	28	00.22	
TMB	1.19	311	P	27	46.36	-0.5
WOFM	1.25	350	P	27	46.99	-1.0
WBSM	1.26	12	P	27	47.34	-0.8
CRGC	1.40	312	P	27	47.97	-2.6
WASM	1.43	357	P	27	51.06	0.0
WSHM	1.54	30	P	27	51.88	-0.6
NMC	1.60	16	P	27	53.25	0.0
TOW	1.60	20	P	27	54.11	0.8
WCHM	1.60	11	P	27	54.02	0.5
BCH	1.61	304	(P)	27	51.42	-2.0
PLM	1.63	125	eP	27	51.66	-2.1
GSC	1.68	53	(P)	27	52.63	-1.9
VPEM	1.72	17	P	27	56.88	1.8
RCWM	1.77	22	P	27	56.86	1.1
WLHM	1.85	4	P	27	59.02	1.9
PHAM	2.21	314	(P)	28	01.01	-1.1
MTUM	3.04	358	ePg	28	19.34	5.3
TPNV	3.19	34	ePn	28	15.00	-1.1
MMPM	3.33	352	ePg	28	23.81	5.5
MEMM	3.38	353	ePg	28	25.86	7.2
BONR	3.64	2	ePg	28	30.83	8.1
TNP	3.90	14	ePg	28	37.38	11.1
ARN	3.94	321	(P)	28	27.10	0.5
CMB	4.04	338	(P)	28	30.00	1.9
ARUT	5.34	48	(Pn)	28	49.94	3.2
DUG	7.40	36	ePg	29	41.29	25.7

35 obs. associated

& JAN 18, 1994 14h 47m 56.07s  
34.289 N 118.468 W  
DEPTH = 3.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.6 (PAS), 3.2 (GS).

SSK	0.65	97	iPc	48	08.25	-0.8
FTC	0.68	329	P	48	08.72	-0.9
RYS	0.81	296	P	48	11.18	-1.1
ABL	0.84	312	eP	48	11.03	-1.7
PLEC	0.84	324	P	48	12.01	-0.8
BMTC	0.85	353	P	48	11.71	-1.4
TEJ	0.96	349	P	48	12.10	-2.8
MARC	1.01	315	P	48	14.57	-1.3
LPC	1.05	282	P	48	15.00	-1.6
WJPM	1.12	359	P	48	16.79	-1.0
PEC	1.15	110	iPc	48	16.63	-1.7
TMB	1.19	312	P	48	17.81	-1.1
WOFM	1.26	351	P	48	19.20	-1.0
WBSM	1.27	12	P	48	19.44	-1.1
CRGC	1.40	313	P	48	21.61	-1.0
SCCM	1.55	295	P	48	24.36	-0.3
WSHM	1.56	31	P	48	22.67	-2.2
BCH	1.60	304	eP	48	23.19	-2.3
TOW	1.62	21	P	48	24.29	-1.4
PLM	1.63	124	eP	48	23.40	-2.5
GSC	1.70	53	iPc	48	25.28	-1.6
RCWM	1.79	22	P	48	29.90	1.8
WLHM	1.86	4	P	48	30.71	1.3
PHAM	2.21	315	(P)	48	34.48	0.3
PHBM	2.36	326	P	48	35.90	-0.4
HVC	2.83	318	P	48	41.72	-1.4
BHPR	3.00	360	P	48	51.38	5.7
MTUM	3.06	359	ePn	48	46.45	0.0

			ePg	48	51.82	
TPNV	3.21	34	ePn	48	46.81	-1.7
GLA	3.28	111	(P)	48	47.75	-1.7
MMPM	3.34	352	(P)	48	50.17	-0.5
MRCM	3.38	359	eP	48	50.20	-0.8
MEMM	3.39	354	(P)	48	50.13	-0.8
SAO	3.46	316	ePn	48	50.09	-1.9
BONR	3.66	2	ePg	49	03.07	8.0
TNP	3.92	15	ePg	49	08.89	10.2
ARN	3.94	322	eP	48	57.50	-1.3
CMB	4.05	338	ePn	48	59.84	-0.5
ARUT	5.36	48	ePn	49	18.68	-0.5
ORV	5.79	336	(P)	49	24.34	-0.6
MSU	6.60	48	ePn	49	36.74	0.1
DUG	7.42	36	(P)	49	47.53	-0.5
SRU	7.99	51	eP	49	55.40	-0.7

43 obs. associated

JAN 18, 1994 14h 52m 39.46± 0.57s  
34.237 N ± 5.2km 118.534 W ± 3.4km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 3.5 (GS).

SSK	0.70	92	iPd	52	53.08	-0.3
RYS	0.79	301	P	52	55.60	0.7
ABL	0.83	317	iPc	52	55.82	0.1
ARVC	0.92	345	P	52	57.12	0.1
SNDC	0.92	12	P	52	58.54	1.3
TEJ	1.00	353	P	52	56.86	-1.6
LPC	1.01	285	P	52	59.38	0.7
MARC	1.01	319	P	52	56.45	-2.2
WJPM	1.17	2	P	53	01.26	-0.2
TMB	1.18	316	P	53	02.32	0.7
PEC	1.19	106	iPc	53		



18d 14h

CMB 4.08 339 ePn 53 43.44 0.2  
 ARUT 5.44 48 ePn 54 03.92 1.2  
 MSU 6.67 48 ePg 54 41.87 21.7X  
 S.D. = 0.8 on 32 of 35 obs.

? JAN 18, 1994 15h 00m 11.02± 8.09s  
 14.041 N ±38.0km 123.343 E ±62.4km  
 DEPTH = 33.0km (normal)

LUZON, PHILIPPINE ISLANDS (249)

GQP 0.88 261 iPd 00 27.00 0.0  
 iS 00 36.00  
 TGY 2.34 272 iPc 00 57.50 9.5X  
 QVP 2.34 285 eP 00 48.00 0.0  
 eS 01 17.00  
 PGP 2.38 257 eP 00 52.00 3.3X  
 iS 01 21.50  
 BCP 3.54 312 eP 01 05.20 0.0  
 eS 01 47.00  
 CVP 3.93 338 eP 01 10.50 0.0  
 S.D. = 0.1 on 4 of 6 obs.

& JAN 18, 1994 15h 01m 52.27s  
 34.369 N 118.442 W  
 DEPTH = 5.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.5 (PAS), 3.4 (GS).

FTC 0.62 324 P 02 03.61 -1.1  
 SSK 0.64 104 iPc 02 03.97 -1.1  
 PLEC 0.79 319 P 02 07.19 -1.0  
 ABL 0.80 307 iPd 02 06.74 -1.7  
 ARVC 0.82 337 P 02 07.25 -1.4  
 MARC 0.97 311 P 02 10.06 -1.2  
 LPC 1.06 277 P 02 11.46 -1.3  
 PEC 1.16 114 iPc 02 13.70 -0.8  
 WOFM 1.18 349 P 02 13.56 -1.4  
 WBSM 1.19 12 P 02 14.01 -1.1  
 CRGC 1.37 310 P 02 17.07 -1.0  
 WASM 1.37 356 P 02 17.10 -1.1  
 NMC 1.53 17 P 02 20.28 -0.2  
 SCCM 1.54 292 P 02 19.79 -0.6  
 WCHM 1.54 11 P 02 19.94 -0.8  
 BCH 1.58 302 iPc 02 19.86 -1.2  
 GSC 1.64 55 iPc 02 20.96 -0.9  
 VPEN 1.66 18 P 02 22.44 0.2  
 PLM 1.66 127 iPc 02 20.28 -2.0  
 eS 02 42.93  
 WLHM 1.78 3 P 02 23.94 -0.3  
 PHAM 2.17 313 ePn 02 27.43 -2.2  
 HVC 2.79 317 P 02 42.27 3.8  
 PAMP 2.85 304 P 02 36.54 -2.8  
 BHPR 2.92 359 P 02 46.47 5.9  
 MTUM 2.98 358 ePn 02 41.30 0.0  
 BMSM 2.98 321 P 02 39.72 -1.5  
 TPNV 3.13 34 eP 02 42.36 -1.0  
 ORC 3.26 357 P 02 52.13 6.8  
 MMPM 3.27 352 ePn 02 44.45 -1.1  
 GLA 3.29 113 ePn 02 44.20 -1.3  
 MRCM 3.30 359 ePn 02 43.50 -2.3  
 MEMM 3.31 353 ePn 02 45.36 -0.5  
 SAO 3.42 315 P 02 44.34 -3.0  
 BONR 3.58 2 ePn 02 49.09 -0.8  
 HCOM 3.66 314 P 02 48.40 -2.3  
 TNP 3.84 15 ePg 03 03.28 9.8  
 ARN 3.89 321 ePn 02 50.66 -3.4  
 CMB 3.98 337 ePn 02 53.84 -1.5  
 KVN 4.68 3 ePg 03 18.09 12.7  
 ARUT 5.30 48 ePg 03 22.37 8.2  
 40 obs. associated

& JAN 18, 1994 15h 09m 26.43s  
 34.292 N 118.559 W  
 DEPTH = 10.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.6 (GS).

FTC 0.64 335 P 09 38.24 -1.0  
 SSK 0.72 96 iPc 09 39.77 -0.9  
 ABL 0.78 316 iPd 09 40.20 -1.5  
 PLEC 0.79 328 P 09 41.50 -0.4  
 BMTC 0.84 358 P 09 41.62 -1.1  
 ARVC 0.86 345 P 09 42.20 -0.8  
 MARC 0.96 318 P 09 44.00 -0.6  
 LPC 0.98 282 P 09 43.79 -1.2  
 WJPM 1.12 3 P 09 46.88 -0.5  
 TMB 1.13 315 P 09 47.06 -0.5

PEC 1.23 109 iPc 09 48.05 -1.2  
 WBSM 1.29 15 P 09 50.09 -0.3  
 WORM 1.43 10 P 09 51.77 -0.5  
 WASM 1.44 0 P 09 52.70 0.0  
 SCCM 1.48 296 P 09 52.16 -0.9  
 BCH 1.54 306 eP 09 52.70 -1.3  
 WCHM 1.64 14 P 09 54.74 -0.8  
 TOW 1.65 23 P 09 55.18 -0.3  
 VPEN 1.76 20 P 09 58.75 1.5  
 RCWM 1.82 24 P 09 57.27 -0.7  
 WLHM 1.87 6 P 10 01.37 2.5  
 PHAM 2.16 316 (P) 10 01.22 -1.6  
 BMSM 2.98 323 P 10 13.46 -1.1  
 TPNV 3.25 35 ePn 10 17.40 -1.1  
 ORC 3.34 359 P 10 27.65 7.8  
 BPRM 3.34 310 P 10 17.27 -2.5  
 MRCM 3.37 1 eP 10 20.03 -0.3  
 TNP 3.93 16 ePg 10 38.81 10.6  
 CMB 4.02 339 ePg 10 28.49 -0.8  
 HMR 4.66 327 (P) 10 39.16 0.8  
 30 obs. associated

& JAN 18, 1994 15h 19m 54.28s  
 34.209 N 118.605 W  
 DEPTH = 8.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.9 (PAS), 3.9 (GS).

FTC 0.70 340 P 20 07.19 -1.1  
 RYS 0.75 305 P 20 08.15 -1.1  
 SSK 0.76 90 iPc 20 08.03 -1.3  
 BMTC 0.92 0 P 20 11.06 -1.1  
 ARVC 0.93 349 P 20 11.52 -0.7  
 LPC 0.96 288 P 20 11.39 -1.4  
 SNDC 0.96 15 P 20 13.77 0.9  
 TEJ 1.02 356 P 20 11.98 -1.8  
 TMB 1.16 319 P 20 15.89 -0.3  
 WJPM 1.20 5 P 20 16.30 -0.6  
 PEC 1.24 104 iPc 20 15.69 -1.8  
 WOFM 1.33 356 P 20 18.73 -0.3  
 WBSM 1.38 16 P 20 19.61 -0.3  
 SCCM 1.49 300 P 20 19.95 -1.3  
 BCH 1.56 309 eP 20 20.59 -1.8  
 PLM 1.68 120 eP 20 22.73 -1.5  
 WSHM 1.69 32 P 20 23.00 -1.2  
 WCHM 1.73 14 P 20 25.45 0.5  
 GSC 1.84 53 eP 20 25.45 -1.0  
 PHAM 2.19 318 eP 20 31.34 -0.1  
 PKEM 2.22 327 (P) 20 29.44 -2.4  
 PADM 2.34 308 P 20 32.77 -0.8  
 PANM 2.46 310 P 20 33.63 -1.6  
 PSM 2.47 319 P 20 36.00 0.5  
 MTUM 3.14 1 eP 20 49.42 4.4  
 BPOM 3.28 309 P 20 43.79 -3.1  
 TPNV 3.34 34 eP 20 46.63 -1.3  
 GLA 3.36 109 eP 20 47.41 -0.6  
 BPRM 3.37 312 P 20 47.50 -0.7  
 MMPM 3.41 354 eP 20 51.50 2.4  
 SAO 3.45 319 eP 20 46.91 -2.3  
 MRCM 3.46 1 (P) 20 52.06 2.5  
 MEMM 3.46 356 ePn 20 51.99 2.6  
 BONR 3.75 4 (P) 20 57.57 3.7  
 COE 3.93 322 (P) 20 57.39 1.2  
 ARN 3.93 324 eP 20 52.90 -3.3  
 TNP 4.02 16 (P) 20 58.68 1.0  
 CMB 4.08 340 (P) 20 59.77 1.5  
 KVN 4.85 5 (P) 21 09.35 0.0  
 ARUT 5.50 48 eP 21 18.10 -0.5  
 ORV 5.82 337 (P) 21 20.59 -2.2  
 MSU 6.73 49 eP 21 38.02 2.0  
 SRU 8.13 51 eP 21 58.08 2.6  
 EMUT 8.37 46 eP 22 01.65 2.7  
 PV10 8.77 59 eP 22 06.51 2.0  
 PV08 9.13 59 (P) 22 13.18 3.6  
 46 obs. associated

\* JAN 18, 1994 15h 21m 02.24± 1.25s  
 34.300 N ±14.7km 118.498 W ± 9.6km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.7 (GS).

SSK 0.67 97 eP 21 15.67 -0.1  
 PEC 1.18 110 eP 21 24.20 -0.1  
 BCH 1.58 305 eP 21 31.33 0.9  
 TPNV 3.22 34 (P) 21 54.67 0.7  
 SAO 3.44 317 (P) 21 56.02 -0.9

KVN 4.75 4 (Pn) 22 15.26 -0.5  
 S.D. = 0.9 on 6 of 6 obs.

& JAN 18, 1994 15h 23m 46.89s  
 34.379 N 118.561 W  
 DEPTH = 7.7km  
 4.8mb (27 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.8 (PAS), 4.8 (GS),  
 5.0 (BRK).  
 Mo=1.6\*10\*\*16 Nm (BRK). Felt.

RYS 0.70 292 P 24 00.09 -1.0  
 ABL 0.72 311 iPd 23 59.91 -1.5  
 SSK 0.74 103 iPc 24 00.53 -1.2  
 SNDC 0.79 16 P 24 02.49 -0.1  
 WOFM 1.16 354 P 24 07.75 -1.1  
 PEC 1.26 112 iPc 24 08.89 -1.6  
 WORM 1.34 11 P 24 11.05 -0.8  
 BCH 1.49 303 iPc 24 12.63 -1.5  
 NMC 1.56 20 P 24 14.42 -0.6  
 PLM 1.75 125 eP 24 17.09 -0.8  
 WLHM 1.78 7 P 24 17.94 -0.6  
 PMCM 2.00 313 P 24 19.98 -1.4  
 PHAM 2.09 314 eP 24 21.07 -1.7  
 PKEM 2.10 323 eP 24 21.90 -1.0  
 PADM 2.27 304 P 24 22.93 -2.4  
 PANM 2.38 307 P 24 24.28 -2.6  
 PSAM 2.52 311 P 24 26.53 -2.2  
 BTW 2.73 316 P 24 29.67 -2.3  
 BMSM 2.91 322 P 24 32.64 -1.8  
 MTUM 2.97 360 ePn 24 35.06 -0.3  
 CWCR 3.12 4 P 24 41.91 4.4  
 BCWM 3.12 309 P 24 35.29 -2.2  
 EKH 3.12 318 P 24 36.79 -0.6  
 HTRC 3.15 357 P 24 43.86 5.8  
 TPNV 3.18 36 ePn 24 37.13 -1.2  
 MMPM 3.25 353 ePn 24 39.39 -0.1  
 MRCM 3.29 1 ePn 24 41.18 1.2  
 MEMM 3.29 355 eP 24 40.00 0.2  
 SAO 3.35 316 ePn 24 38.18 -2.4  
 FRP 3.36 316 P 24 38.56 -2.3  
 GLA 3.38 112 ePn 24 38.82 -2.3  
 DIL 3.51 315 P 24 40.15 -2.7  
 BONR 3.57 3 ePn 24 43.83 -0.3  
 CBO 3.73 318 P 24 44.29 -1.7  
 ARN 3.82 322 ePn 24 43.94 -3.4  
 COE 3.83 320 ePn 24 44.21 -3.2  
 TNP 3.85 16 ePn 24 47.74 -0.2  
 MHC 3.87 321 eP 24 46.41 -1.8  
 CMB 3.94 339 eP 24 47.98 -1.0  
 LXR 3.96 316 P 24 47.45 -1.8  
 JEGM 4.45 316 ePn 24 52.31 -3.9  
 BKS 4.58 321 eP 24 55.64 -2.5  
 HMR 4.59 326 (Pn) 24 57.40 -0.7  
 KVN 4.68 4 (Pn) 25 00.31 0.6  
 NTYM 5.19 322 eP 25 04.10 -2.6  
 ARUT 5.36 49 ePn 25 09.04 -0.3  
 ORV 5.68 336 ePn 25 11.79 -1.8  
 MIN 6.43 339 ePc 25 27.44 3.1  
 MSU 6.60 49 ePn 25 26.73 -0.1  
 TUC 6.83 105 ePn 25 27.67 -2.2  
 ELK 6.88 22 eP 25 30.18 -0.6  
 WDC 6.95 334 ePn 25 29.13 -2.4  
 LGPM 7.35 334 eP 25 37.13 -0.1  
 DUG 7.39 37 ePn 25 36.71 -1.2  
 LBFM 7.44 340 (P) 25 38.69 0.1  
 KMPM 7.48 325 eP 25 37.24 -1.7  
 FHC 7.72 328 (P) 25 41.03 -1.3  
 SRU 7.99 51 ePn 25 46.72 0.4  
 EMUT 8.23 47 ePn 25 50.68 1.0  
 DAU 8.37 42 ePn 25 51.29 -0.4  
 PV09 8.64 59 ePn 25 55.55 0.1  
 HVU 8.68 30 ePn 25 56.13 0.3  
 PV08 9.01 59 ePn 26 00.56 -0.1  
 ALQ 9.99 83 ePn 26 12.33 -1.6  
 JBO 11.11 355 P 26 32.71 3.6  
 VGB 11.25 352 eP 26 29.89 -1.2  
 MCMT 11.32 21 eP 26 35.60 3.4  
 LNOR 11.48 1 P 26 36.35 2.2  
 GOL 11.80 59 eP 26 40.26 1.5  
 ASR 11.98 350 P 26 43.17 2.1  
 LRM 12.34 20 eP 26 50.40 4.4  
 BMW 12.59 345 (P) 26 51.09 1.9  
 LON 12.60 350 (Pn) 26 48.36 -0.9  
 EBG 12.61 354 P 26 51.48 2.1  
 FMW 12.76 350 P 26 54.08 2.6



18d 15h

RMW	13.29	350 eP	26	58.15	-0.4
SAW	13.33	358 P	27	01.93	3.0
WTV	13.35	356 P	27	01.34	2.1
DPW	13.48	1 (P)	27	04.11	3.1
LTX	13.62	108 eP	27	03.30	0.4
NEW	13.91	4 (P)	27	07.99	1.4
	1.0s	12.67nm			4.7mb
STW	14.28	346 P	27	12.36	1.0
MCW	14.64	349 eP	27	15.45	-0.7
RSSD	14.85	45 eP	27	18.52	-0.6
	1.5s	43.16nm			4.7mb
MEO	16.46	83 iPd	27	42.80	3.0
TUL	18.68	79 iPc	28	07.40	0.0
UYO	19.91	84 iPd	28	19.70	-2.2
MIAR	20.59	82 eP	28	26.58	-2.4
	1.0s	30.62nm			4.6mb
ULM	22.95	39 eP	28	53.50	1.0
FVM	22.96	73 (P)	28	52.35	-0.4
	0.9s	10.50nm			4.4mb
YKA	28.25	4 P	29	41.10	-1.0
	0.9s	2.20nm			4.0mb
PMR	33.47	334 eP	30	31.30	3.0
	0.8s	16.40nm			5.0mb
PWA	33.78	333 eP	30	33.20	2.2
	0.9s	28.70nm			5.2mb
GAC	34.48	58 eP	30	35.50	-1.7
FBA	35.29	339 (P)	30	41.98	-2.0
	0.8s	3.36nm			4.3mb
TTA	36.85	332 (P)	30	55.41	-1.8
	1.3s	10.23nm			4.4mb
IMA	37.89	338 eP	31	04.96	-1.1
	1.0s	5.93nm			4.3mb
MBC	41.95	360 eP	31	41.00	1.7
	1.0s	7.00nm			4.3mb
RES	42.00	9 eP	31	39.00	-0.7
	1.0s	3.00nm			4.0mb
FRB	42.29	30 eP	31	41.50	-0.6
	0.9s	14.00nm			4.7mb
DAG	59.03	15 iPd	33	46.80	-2.4
	0.8s	6.72nm			4.8mb
LPZ	69.55	128 iPc	34	56.90	-2.4
LPB	69.75	128 P	35	00.50	0.2
SIV	74.12	123 P	35	23.30	-2.5
MOCB	74.77	130 P	35	28.50	-1.6
HFS	77.98	22 eP	35	44.90	-2.0
	0.9s	12.20nm			5.0mb
KAF	79.75	16 iP	35	55.80	-0.7
	0.9s	4.30nm			4.4mb
NUR	80.75	17 eP	36	01.00	-0.9
TCF	83.60	37 eP	36	15.90	-1.1
	0.9s	8.20nm			4.9mb
SSF	83.69	36 eP	36	16.30	-1.1
	1.1s	11.50nm			5.0mb
LOR	83.71	35 eP	36	16.60	-0.9
	1.2s	18.15nm			5.2mb
BGF	83.72	36 eP	36	16.50	-1.1
	1.0s	16.80nm			5.2mb
AVF	83.80	36 eP	36	16.80	-1.2
	0.9s	6.90nm			4.9mb
MAF	83.82	37 eP	36	17.20	-0.9
	1.0s	10.60nm			5.0mb
LBF	83.97	35 eP	36	17.60	-1.3
HAU	84.34	34 eP	36	19.70	-1.0
	0.8s	9.40nm			5.1mb
CAF	84.48	38 eP	36	20.30	-1.2
	1.0s	10.60nm			5.0mb
MOX	84.62	29 eP	36	23.30	1.2
	1.9s	40.00nm			5.3mb
CLL	84.66	28 e(P)	36	20.00	-2.2
BRG	85.37	28 eP	36	25.00	-0.8
	1.1s	16.00nm			5.1mb
GEC2	86.88	29 P	36	31.70	-1.7
	0.8s	0.89nm			4.0mb
		e		36	35.10
		e		36	40.10
		e		36	46.30

121 obs. associated

& JAN 18, 1994 15h 42m 57.08s  
34.309 N 118.577 W  
DEPTH = 0.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.6 (GS).

FTC	0.62	335 P	43	09.00	-0.4
RYS	0.72	298 P	43	11.14	-0.3
SSK	0.74	97 iPc	43	11.19	-0.6

ABL	0.76	316 iPc	43	11.29	-0.9
PLEC	0.77	329 P	43	12.96	0.5
ARVC	0.84	346 P	43	13.02	-0.9
MARC	0.93	318 P	43	12.92	-2.8
LPC	0.96	282 P	43	14.80	-1.4
TMB	1.11	315 P	43	18.81	0.0
WOFM	1.23	355 P	43	20.22	-0.7
PEC	1.25	109 ePc	43	19.31	-1.8
CRGC	1.33	315 P	43	21.81	-0.7
WORM	1.41	11 P	43	23.84	-0.1
SCCM	1.46	296 P	43	23.27	-1.4
BCH	1.52	306 eP	43	23.86	-1.7
WSHM	1.59	34 P	43	25.36	-1.2
TOW	1.64	24 P	43	29.10	1.9
PLM	1.72	123 eP	43	26.25	-2.2
GSC	1.76	55 eP	43	28.40	-0.7
RCWM	1.81	25 P	43	27.40	-2.3
PHAM	2.13	316 (P)	43	32.38	-2.0
PAPM	2.79	306 P	43	40.59	-3.2
BMSM	2.96	323 P	43	45.49	-0.7
MTUM	3.04	0 eP	43	48.66	1.2
TPNV	3.25	35 eP	43	49.10	-1.2
MMPM	3.31	354 eP	43	52.13	0.6
BPRM	3.32	310 P	43	48.31	-3.0
MRCM	3.36	1 eP	43	55.60	3.6
MEMM	3.36	355 eP	43	56.71	4.9
GLA	3.37	111 eP	43	54.59	2.6
SAO	3.39	317 eP	43	49.17	-3.1
FRP	3.41	317 P	43	49.90	-2.6
BONR	3.65	3 (P)	43	59.28	3.1
CBO	3.77	319 P	43	55.12	-2.6
ARN	3.87	322 (P)	43	52.47	-6.6
TNP	3.92	16 (P)	43	59.95	-0.1
CMB	4.00	339 eP	44	01.67	0.8
KVN	4.75	4 (P)	44	12.87	1.1
ARUT	5.42	49 (P)	44	19.06	-2.2
MSU	6.65	49 (P)	44	38.83	0.2
DUG	7.46	36 eP	44	55.52	5.7
	1.1s	2.07nm			4.3mb X
PV10	8.70	59 eP	45	05.91	-1.4
PV08	9.06	59 eP	45	08.01	-4.4

43 obs. associated

& JAN 18, 1994 15h 51m 44.87s  
34.245 N 118.471 W  
DEPTH = 12.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 4.0 (PAS), 3.8 (GS).  
Double event.

SSK	0.65	93 eP	51	56.65	-1.0
FTC	0.71	331 P	51	57.88	-0.9
ABL	0.87	315 eP	52	00.10	-1.3
PLEC	0.87	326 P	52	01.06	-0.4
TEJ	1.00	350 P	52	01.56	-2.0
MARC	1.04	317 P	52	03.80	-0.5
LPC	1.06	284 P	52	03.71	-1.0
PEC	1.14	108 eP	52	04.65	-1.4
WOFM	1.30	351 P	52	08.10	-0.8
WBSM	1.32	12 P	52	08.47	-0.7
WORM	1.46	7 P	52	10.46	-0.6
WASM	1.49	357 P	52	11.18	-0.4
PLM	1.61	123 ePc	52	11.45	-1.8
BCH	1.63	306 eP	52	12.52	-0.9
NMC	1.66	16 P	52	13.02	-0.9
TOW	1.66	20 P	52	10.03	-3.9
WCHM	1.67	11 P	52	13.22	-1.0
WLHM	1.91	4 P	52	17.20	-0.5
PHAM	2.24	316 eP	52	20.57	-1.7
PANM	2.52	308 P	52	24.22	-2.0
PAPM	2.90	306 P	52	29.00	-2.6
BMSM	3.06	322 P	52	32.27	-1.7
MTUM	3.10	359 eP	52	34.49	-0.1
BRMM	3.22	324 P	52	35.58	-0.6
TPNV	3.25	33 eP	52	35.73	-1.0
GLA	3.26	110 eP	52	37.13	0.3
HTCR	3.29	356 P	52	44.25	6.8
BPOM	3.35	307 P	52	35.54	-2.4
ORC	3.39	358 P	52	39.49	0.7
MMPM	3.39	352 eP	52	40.11	1.3
MRCM	3.42	360 (P)	52	38.86	-0.3
MEMM	3.44	354 eP	52	39.81	0.7
SAO	3.49	317 eP	52	37.80	-2.2
BONR	3.71	2 eP	52	42.86	-0.5
TNP	3.96	14 eP	52	47.13	0.3
ARN	3.97	322 eP	52	44.77	-2.1
CMB	4.09	338 (P)	52	47.24	-1.2

KVN	4.81	3 (P)	53	00.59	1.7
ARUT	5.40	48 eP	53	06.69	-0.5
MSU	6.63	48 eP	53	24.53	-0.1
DUG	7.46	36 (P)	53	35.01	-1.1
	0.3s	1.09nm			4.5mb X
SRU	8.02	50 eP	53	45.18	1.1
PV09	8.64	58 eP	53	53.02	0.1
PV10	8.66	59 eP	53	53.42	0.4
YKA	28.37	4 P	57	44.20	3.7
	0.6s	0.30nm			3.2mb X
	45 obs.	associated			

& JAN 18, 1994 16h 04m 04.18s  
34.366 N 118.574 W  
DEPTH = 3.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

FTC	0.57	333 P	04	14.92	-0.6
RYS	0.70	294 P	04	18.42	0.3
ABL	0.72	312 eP	04	17.59	-1.0
PLEC	0.73	326 P	04	18.79	0.1
SSK	0.75	102 eP	04	18.12	-1.0
BMTCP	0.77	359 P	04	18.20	-1.4
ARVC	0.79	345 P	04	18.92	-1.0
TEJ	0.87	354 P	04	19.15	-2.3
MARC	0.89	315 P	04	21.19	-0.7
WOFM	1.17	354 P	04	25.93	-0.8
WBSM	1.22	17 P	04	27.62	0.0
PEC	1.26	112 ePc	04	26.44	-1.8
CRGC	1.29	313 P	04	28.79	0.1
WORM	1.36	12 P	04	29.80	-0.1
BCH	1.49	304 eP	04	31.22	-0.6
WSHM	1.54	35 P	04	32.24	-0.4
WCHM	1.57	15 P	04	33.41	0.3
TOW	1.59	25 P	04	34.45	1.3
VPEN	1.70	21 P	04	35.91	1.0
GSC	1.73	57 eP	04	34.50	-0.8
PLM	1.75	125 eP	04	34.09	-1.5
RCWM	1.75	25 P	04	37.25	1.6
WLHM	1.80	7 P	04	38.43	2.0
PHAM	2.09	315 (P)	04	39.64	-0.9
MTUM	2.98	0 eP	04	57.97	4.6
TPNV	3.20	36 eP	04	55.54	-0.8
MMPM	3.26	354 eP	05	01.79	4.4
BONR	3.59	3 eP	05	09.93	7.9
TNP	3.87	16 (P)	05	11.50	5.5

& JAN 18, 1994 16h 08m 01.00s  
34.230 N 118.613 W  
DEPTH = 16.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).  
Small precursor about 6 seconds  
prior to this event.

SSK	0.76	91 (P)	08	15.20	-0.4
PEC	1.25	105 (P)	08	23.64	-0.1
BCH	1.54	309 (P)	08	27.54	-0.4
PLM	1.70	120 (P)	08	30.46	0.2
BONR	3.73	4 ePg	09	05.78	6.5

5 obs. associated

? JAN 18, 1994 16h 08m 42.45±1.63s  
21.889 S ±44.4km 177.460 W ±33.2km  
DEPTH = 400.0km (geophysicist)  
4.0mb (4 obs.)  
FIJI ISLANDS REGION (181)

BKM	14.10	285 iPd	11	55.90	8.4X
DZM	14.93	266 iPc	11	56.80	0.3
TOO	35.51	236 eP	15	03.90	-0.9
STK	37.66	246 eP	15	23.20	0.5
	0.3s	1.60nm			3.8mb
ASPA	44.71	258 eP	16	20.00	0.4
	0.7s	8.40nm			4.2mb
WRA	44.92	263 P	16	21.50	0.2
	0.8s	1.			



18d 16h

S.D. = 1.4 on 9 of 12 obs.  
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 JAN 18, 1994 16h 23m 34.26± 0.37s  
 34.333 N ± 3.9km 118.602 W ± 3.0km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.9 (GS).

LHU	0.37	25	P	23	41.24	-0.7
JNH	0.55	78	P	23	44.52	-0.8
FTC	0.59	336	P	23	45.56	-0.6
RYS	0.69	297	P	23	48.11	0.0
TJR	0.70	351	P	23	47.27	-0.9
ABL	0.73	315	iPd	23	48.09	-0.6
SSK	0.76	99	ePc	23	48.83	-0.5
ARVC	0.81	347	P	23	49.43	-0.6
MARC	0.90	318	P	23	51.47	-0.1
CIS	0.94	170	P	23	52.11	-0.1
RVR	1.07	108	P	23	53.95	-0.5
TMB	1.08	315	P	23	54.75	0.2
ELS	1.19	125	P	23	56.25	-0.3
PEC	1.27	110	iPc	23	57.06	-0.9
CRGC	1.29	315	P	23	58.54	0.2
WASM	1.40	1	P	23	59.59	-0.5
SCCM	1.43	296	P	24	00.30	0.0
WWPM	1.46	17	P	24	00.45	-0.3
BCH	1.49	305	eP	24	00.90	-0.2
POB	1.54	114	P	24	00.85	-1.0
XMS	1.57	40	P	24	02.32	0.1
NMC	1.61	21	P	24	03.25	0.4
TOW	1.62	25	P	24	03.00	-0.1
RMR	1.68	94	P	24	04.46	0.4
VPEM	1.74	22	P	24	05.23	0.5
PLM	1.75	124	eP	24	03.67	-1.3
GSC	1.77	56	eP	24	04.75	-0.4
CPE	1.92	139	P	24	08.06	0.8
PAGM	1.94	316	P	24	08.26	0.6
PMRM	1.97	318	P	24	08.61	0.5
CPM	2.00	94	P	24	10.43	1.9
LAQC	2.05	109	P	24	10.90	1.7
PHAM	2.10	316	eP	24	09.40	-0.6
PKEM	2.12	325	eP	24	10.77	0.6
MECC	2.25	107	P	24	15.22	3.1X
CTW	2.36	105	P	24	16.28	2.6X
PSMM	2.38	317	P	24	14.05	0.0
SHH	2.45	93	P	24	13.97	-1.0
PRI	2.47	317	ePd	24	14.89	-0.4
PRCM	2.53	320	P	24	16.78	0.7
SUP	2.69	120	P	24	23.18	4.8X
PAPM	2.76	306	P	24	17.63	-1.8
FRI	2.80	342	eP	24	18.65	-1.3
			iS	24	53.19	
BHPR	2.96	2	P	24	27.90	5.5X
MTUM	3.01	1	eP	24	23.27	0.2
CWCR	3.16	4	P	24	31.96	6.7X
TPNV	3.24	36	eP	24	25.45	-0.8
MMPM	3.29	354	eP	24	28.36	1.2
ORC	3.30	359	P	24	33.72	6.5X
MRCM	3.33	1	eP	24	30.99	3.3X
MEMM	3.34	355	eP	24	29.75	2.3X
SAO	3.36	317	eP	24	26.85	-0.9
FRP	3.37	317	P	24	26.34	-1.8
GLA	3.40	111	eP	24	30.00	1.6
BONR	3.62	4	eP	24	33.66	1.8
ARN	3.84	322	eP	24	33.94	-0.7
COE	3.84	320	(P)	24	35.73	1.0
MHC	3.89	321	eP	24	37.16	1.7
TNP	3.90	16	eP	24	36.92	1.1
CMB	3.97	339	eP	24	37.08	0.6
HMR	4.61	327	eP	24	45.87	0.4
KVN	4.73	5	eP	24	52.25	4.8X
NTYM	5.21	322	eP	24	55.25	1.2
ARUT	5.42	49	eP	24	55.29	-1.9
ORV	5.71	337	eP	24	58.28	-2.8
MSU	6.65	49	eP	25	15.52	0.8
LBFM	7.47	341	(P)	25	27.79	1.7
SRU	8.05	51	eP	25	36.36	2.2
EMUT	8.28	46	(P)	25	42.47	4.9X
PV09	8.69	59	eP	25	41.80	-1.4
PV10	8.70	60	eP	25	42.48	-0.9
PV08	9.07	59	(P)	25	48.80	0.3
VGB	11.29	352	eP	26	23.37	4.7X
YKA	28.29	4	P	29	31.70	2.1

0.4s on 10nm 3.0mb  
 S.D. = 1.1 on 63 of 74 obs.

JAN 18, 1994 16h 34m 33.13± 0.51s

34.227 N ± 5.1km 117.348 W ± 5.4km  
 DEPTH = 5.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.2 (GS).

SSK	0.29	267	iPc	34	39.41	0.4
PEC	0.37	155	ePd	34	40.99	0.4
			S	34	46.03	
PLM	0.96	155	eP	34	51.34	-0.7
GSC	1.16	23	eP	34	56.60	1.2
			eS	35	12.91	
BMTC	1.37	312	P	34	59.41	0.4
WSHM	1.41	355	P	34	57.12	-2.4
FTC	1.43	297	P	35	00.46	0.6
WBSM	1.46	334	P	35	00.89	0.5
TEJ	1.49	313	P	34	56.72	-3.9X
WJPM	1.50	322	P	35	00.94	0.1
PLEC	1.60	298	P	35	04.63	2.4X
TOW	1.61	348	P	35	05.11	2.7X
ABL	1.67	292	eP	35	02.89	-0.4
RYS	1.71	285	P	35	04.26	0.4
RCWM	1.74	352	P	35	06.80	2.6X
GLA	2.41	118	(P)	35	13.97	0.1
BCH	2.45	294	ePn	35	13.55	-1.0
TPNV	2.86	18	eP	35	20.68	0.3

S.D. = 1.0 on 14 of 18 obs.

JAN 18, 1994 16h 38m 42.10± 0.66s  
 34.217 N ± 6.2km 118.449 W ± 4.3km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 ML 3.5 (GS).

SSK	0.63	90	eP	38	54.48	-0.3
FTC	0.75	331	P	38	56.13	-0.7
RYS	0.86	300	P	39	02.75	4.0X
ABL	0.90	315	eP	38	58.74	-0.7
BMTC	0.92	352	P	38	58.86	-1.0
ARVC	0.96	341	P	38	59.68	-0.7
TEJ	1.03	349	P	38	58.30	-3.3X
LPC	1.08	285	P	39	03.12	0.6
PEC	1.12	107	eP	39	02.97	-0.1
WBSM	1.34	11	P	39	06.21	-0.7
PLM	1.58	123	eP	39	09.99	-0.4
WSHM	1.62	29	P	39	09.72	-1.1
BCH	1.66	306	eP	39	11.33	-0.1
NMC	1.68	15	P	39	12.55	0.8
TOW	1.68	19	P	39	13.15	1.4
GSC	1.73	51	ePd	39	11.96	-0.6
VPEM	1.80	17	P	39	14.80	1.2
PHAM	2.27	316	eP	39	21.13	0.8
MTUM	3.13	358	eP	39	32.73	0.2
GLA	3.24	110	(P)	39	41.83	7.8X
TPNV	3.26	33	eP	39	33.82	-0.6
MMPM	3.42	352	(P)	39	40.02	3.2X
MRCM	3.45	359	(P)	39	38.82	1.7X
MEMM	3.46	354	eP	39	41.68	4.6X
BONR	3.73	2	eP	39	42.03	0.7
TNP	3.98	14	eP	39	49.41	4.7X
ARN	4.01	322	(P)	39	44.84	0.0
ARUT	5.40	47	(P)	40	06.22	1.4

S.D. = 0.8 on 21 of 28 obs.

& JAN 18, 1994 16h 56m 13.53s  
 34.204 N 118.610 W  
 DEPTH = 11.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 2.9 (GS).

SSK	0.76	89	iPc	56	27.38	-1.0
			eS	56	38.40	
ABL	0.82	322	eP	56	28.28	-1.1
PEC	1.24	104	eP	56	35.15	-1.3
BCH	1.56	309	eP	56	40.97	-0.3
PLM	1.69	120	eP	56	41.94	-1.2
GSC	1.85	53	(P)	56	45.35	0.0
MTUM	3.14	1	ePg	57	09.97	6.0
TPNV	3.35	34	ePn	57	06.75	-0.1
MEMM	3.47	356	ePg	57	17.77	9.4
BONR	3.75	4	ePg	57	22.19	9.4

10 obs. associated

& JAN 18, 1994 16h 58m 58.95s  
 34.319 N 118.461 W  
 DEPTH = 8.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS), 2.8 (GS).

SSK	0.65	99	eP	59	11.00	-0.9
			eS	59	20.34	
ABL	0.82	310	eP	59	13.46	-1.7
PEC	1.16	111	eP	59	19.39	-1.4
BCH	1.59	303	(P)	59	26.42	-1.1
PLM	1.64	125	eP	59	26.51	-1.8
GSC	1.68	54	(P)	59	27.88	-0.9
MTUM	3.03	358	ePg	59	53.89	5.7
TPNV	3.18	34	(Pn)	59	49.77	-0.5
BONR	3.63	2	ePg	00	04.69	7.9

9 obs. associated

& JAN 18, 1994 16h 59m 10.14s  
 62.074 N 150.660 W  
 DEPTH = 0.0km (geophysicist)  
 CENTRAL ALASKA ( 1)  
 <AEIC>. ML 2.5 (AEIC).

CUT	0.38	29	iP	59	18.12	0.4
SKT	0.42	257	iP	59	18.76	0.2
			eS	59	25.06	
PWA	0.56	139	eP	59	22.43	1.0
			eS	59	31.71	
SUA	0.61	184	eP	59	23.34	1.0
PLRM	0.87	123	eP	59	27.08	-0.5
GHO	0.88	109	eP	59	27.14	-0.5
			eS	59	40.48	
NCG	0.98	227	eP	59	28.84	-0.9
			eS	59	42.20	
CGLM	1.00	220	eP	59	29.33	-0.8
HUR	1.02	27	eP	59	29.00	-1.5
CRP	1.08	222	eP	59	30.87	-0.6
			eS	59	46.86	
CP2	1.11	224	eP	59	31.09	-0.9
SPU	1.12	217	eP	59	31.05	-1.0
CKN	1.12	221	eP	59	31.60	-0.5
SML	1.13	103	eP	59	31.31	-1.0
CKT	1.15	221	eP	59	31.80	-0.8
BGL	1.16	226	eP	59	31.83	-1.0
CKL	1.19	223	eP	59	32.91	-0.4
KNK	1.24	121	eP	59	33.50	-0.7
			eS	59	50.95	
BKG	1.27	218	eP	59	33.41	-1.2
			eS	59	51.07	
NKA	1.36	192	eP	59	37.58	1.4
TRF	1.39	7	eP	59	35.35	-1.5
			eS	59	53.10	
KTH	1.49	355	eP	59	36.87	-1.4
RND	1.58	31	eP	59	38.58	-0.9
			eS	59	58.69	
SLKM	1.59	172	eP	59	38.63	-1.0
CFI	1.65	122	eP	59	39.05	-1.3
PWL	1.65	136	eP	59	39.97	-0.6
MPA	1.71	158	eP	59	39.21	-2.1
DFR	1.78	214	eP	59	41.41	-1.0
DHY	1.82	55	eP	59	42.33	-0.8
REF	1.87	213	eP	59	43.46	-0.4
RDW	1.90	214	eP	59	43.96	-0.4
TOA	2.11	87	eP	59	46.92	-0.3
VLZ	2.27	113	eP	59	49.14	-0.4
ILIM	2.29	210	eP	59	51.41	1.6
KLU	2.33	102	eP	59		



JAN 18, 1994 17h 28m 01.37± 0.41s 44.358 N ± 2.4km 7.304 E ± 3.3km DEPTH = 12.5 ± 4.7 km NORTHERN ITALY (545) ML 2.2 (GEN), 2.1 (LDG).					BCH 1.59 304 eP 37 48.62 -1.4 PLM 1.64 125 eP 37 48.72 -2.1 GSC 1.70 54 eP 37 50.11 -1.4 MTUM 3.05 359 ePg 38 16.46 5.5 TPNV 3.20 34 (Pn) 38 11.62 -1.5 MMPM 3.33 352 ePg 38 20.95 5.8 MEMM 3.38 354 ePg 38 22.30 6.8 BONR 3.65 2 ePg 38 27.62 8.0 11 obs. associated					IIDJ 3.89 238 P 11 23.80 0.5 MRRJ 4.85 352 eP 12 08.60 eS 12 27.70 HOOJ 4.87 12 P 11 37.00 0.0 eS 12 28.40 KUSJ 5.87 20 P 11 49.80 -1.1 ASAJ 6.52 4 eP 11 58.30 -1.6 WB2 57.69 188 iPc 20 09.10 -1.3 0.6s 5.10nm 4.8mb WRA 57.69 188 P 20 09.90 -0.5 0.7s 3.10nm 4.5mb YKA 63.09 30 P 20 46.40 -0.3 0.7s 0.50nm 3.7mb PV10 80.07 49 (P) 22 31.28 2.6 LPZ 146.02 59 PKP 29 58.70 0.1 S.D. = 1.1 on 18 of 18 obs.				
STV 0.11 173 P 28 04.93 0.2 S 28 06.85 ENR 0.16 148 P 28 05.53 0.2 PZZ 0.21 315 P 28 07.02 0.8 TOUF 0.35 187 Pg 28 08.55 -0.2 Sg 28 13.29 AUTN 0.37 166 Pg 28 09.14 -0.1 ROB 0.41 99 P 28 10.42 0.5 SAOF 0.41 154 Pg 28 09.80 -0.1 Sg 28 14.92 AURF 0.47 178 Pg 28 10.72 -0.3 Sg 28 17.10 MVIF 0.47 193 Pg 28 10.85 -0.3 Sg 28 17.20 BHB 0.48 357 P 28 10.51 -0.8 SBF 0.50 169 Pg 28 11.70 0.1 Sg 28 16.70 IMI 0.61 137 P 28 13.41 -0.2 S 28 21.32 FIN 0.67 103 P 28 14.30 -0.1 RRL 0.67 327 P 28 15.21 0.5 PCP 0.91 78 P 28 19.35 0.8 FRF 0.93 211 Pg 28 18.80 -0.1 Sg 28 30.30 LRG 1.13 217 Pg 28 22.70 0.4 Sg 28 37.80 LMR 1.17 210 Pg 28 24.00 0.9 Sg 28 37.60 LPL 1.23 341 Pg 28 24.20 0.1 Sg 28 40.20 S.D. = 0.5 on 19 of 19 obs.					? JAN 18, 1994 17h 43m 04.23± 3.14s 36.608 N ± 28.1km 2.799 W ± 9.5km DEPTH = 10.0km (geophysicist) STRAIT OF GIBRALTAR (385) ENIJ 0.60 52 iPc 43 16.55 0.2 eS 43 23.90 EGUA 0.66 290 iPd 43 16.90 -0.4 eS 43 24.90 ECOG 0.91 318 eP 43 22.41 0.7 eS 43 33.60 EHUE 1.22 8 eP 43 26.39 -0.5 S.D. = 1.0 on 4 of 4 obs.					* JAN 18, 1994 18h 22m 50.67± 1.04s 34.269 N ± 12.5km 118.570 W ± 8.5km DEPTH = 10.0km (geophysicist) SOUTHERN CALIFORNIA (43) ML 2.8 (GS).				
& JAN 18, 1994 17h 34m 39.58s 34.291 N 118.543 W DEPTH = 2.8km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 2.9 (PAS), 3.0 (GS).					JAN 18, 1994 18h 03m 53.88± 0.66s 34.211 N ± 6.2km 118.531 W ± 4.2km DEPTH = 10.0km (geophysicist) SOUTHERN CALIFORNIA (43) ML 3.7 (GS).					SSK 0.73 94 eP 23 05.27 0.2 ABL 0.79 317 ePd 23 05.37 -0.8 PEC 1.23 107 eP 23 13.20 -0.3 BCH 1.55 307 eP 23 19.31 0.9 PLM 1.69 122 eP 23 20.39 -0.2 GSC 1.78 54 eP 23 22.74 1.0 TPNV 3.27 35 ePn 23 42.54 -0.7 MMPM 3.35 354 ePg 23 50.58 6.1X BONR 3.69 3 ePg 23 57.88 8.7X S.D. = 0.9 on 7 of 9 obs.				
FTC 0.65 334 P 34 51.86 -0.6 SSK 0.71 96 iPc 34 52.91 -0.8 RYS 0.75 298 P 34 54.12 -0.6 ABL 0.79 315 ePd 34 54.10 -1.3 BMTC 0.84 357 P 34 54.95 -1.5 ARVC 0.87 344 P 34 55.59 -1.3 TEJ 0.94 353 P 34 55.79 -2.5 MARC 0.97 317 P 34 57.74 -0.9 LPC 0.99 282 P 34 57.65 -1.5 TMB 1.14 314 P 35 01.59 -0.1 PEC 1.21 109 ePc 35 01.00 -1.9 WOFM 1.25 354 P 35 03.01 -0.5 WBSM 1.29 15 P 35 03.44 -0.8 CRGC 1.36 315 P 35 05.30 -0.1 SCCM 1.49 296 P 35 06.57 -0.8 BCH 1.55 306 eP 35 06.98 -1.3 WSHM 1.59 33 P 35 09.01 0.2 WCHM 1.63 13 P 35 08.27 -1.4 TOW 1.64 23 P 35 11.39 1.9 PLM 1.68 123 eP 35 08.14 -2.1 GSC 1.75 54 eP 35 06.39 -4.7 VPEN 1.76 20 P 35 12.43 1.1 RCWM 1.81 24 P 35 13.26 1.3 MTUM 3.06 360 eP 35 32.09 2.2 TPNV 3.24 35 (P) 35 31.46 -1.1 MMPM 3.34 353 (P) 35 37.52 3.5 MEMM 3.38 355 (P) 35 32.01 -2.4 BONR 3.66 3 (P) 35 43.84 5.2 TNP 3.93 15 Pg 35 52.59 10.2 29 obs. associated					ABL 0.86 318 eP 04 10.43 -0.1 PLEC 0.88 330 P 04 11.28 0.5 ARVC 0.95 345 P 04 11.15 -0.8 SNDC 0.95 11 P 04 12.73 0.7 MARC 1.03 320 P 04 13.94 0.5 PEC 1.18 105 ePc 04 15.94 0.0 WJPM 1.20 2 P 04 15.13 -1.1 TMB 1.20 317 P 04 17.07 0.7 WOFM 1.33 354 P 04 18.11 -0.4 CRGC 1.42 317 P 04 20.42 0.6 WORM 1.50 9 P 04 20.84 -0.1 SCCM 1.54 299 P 04 22.27 0.9 BCH 1.61 308 eP 04 22.68 0.2 PLM 1.63 121 ePc 04 23.15 0.2 WSHM 1.66 31 P 04 21.79 -1.4 WCHM 1.71 13 P 04 23.39 -0.8 VPEN 1.83 18 P 04 25.13 -0.6 RCWM 1.88 22 P 04 25.56 -0.9 WLHM 1.95 5 P 04 27.92 0.3 PHAM 2.23 317 eP 04 31.31 -0.1 PANM 2.50 309 P 04 34.54 -0.7 MTUM 3.14 360 eP 04 44.56 0.1 GLA 3.30 109 (P) 04 46.72 0.0 TPNV 3.30 34 eP 04 45.55 -1.3 BPRM 3.41 311 P 04 47.43 -0.8 MMPM 3.42 353 eP 04 50.60 2.0 MRCM 3.45 0 eP 04 51.42 2.4 MEMM 3.46 355 eP 04 50.81 1.9 SAO 3.49 318 eP 04 48.10 -1.1 HCOM 3.72 317 P 04 51.52 -1.1 ARN 3.97 323 eP 04 55.02 -1.1 COE 3.97 321 (P) 05 01.36 5.2X TNP 4.01 15 eP 05 02.16 5.3X ARUT 5.46 48 eP 05 17.42 0.0 MSU 6.69 48 (P) 05 36.03 1.2 S.D. = 1.0 on 33 of 35 obs.					& JAN 18, 1994 18h 24m 04.64s 34.265 N 118.596 W DEPTH = 15.4km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 2.7 (PAS), 2.8 (GS).				
& JAN 18, 1994 17h 37m 21.11s 34.301 N 118.474 W DEPTH = 5.9km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 2.9 (PAS), 2.7 (GS). Double event.					* JAN 18, 1994 18h 10m 24.59± 1.37s 37.614 N ± 10.9km 141.959 E ± 17.1km DEPTH = 67.7 ± 15.6 km 4.4mb (3 obs.) NEAR EAST COAST OF HONSHU, JAPAN(228)					& JAN 18, 1994 18h 35m 13.17s 34.232 N 118.511 W DEPTH = 16.0km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 3.3 (PAS), 3.5 (GS).				
SSK 0.65 98 iPc 37 33.25 -1.0 eS 37 44.14 ABL 0.82 312 eP 37 35.61 -2.0 PEC 1.16 110 ePc 37 41.30 -2.0					OFUJ 1.48 351 iPd 10 51.40 1.8 S 11 08.90 YAMJ 1.62 291 P 10 51.00 -0.5 S 11 08.60 KAKJ 2.01 226 iP+ 10 57.30 0.5 S 11 19.70 NIIJ 2.38 262 iP+ 11 01.70 -0.4 CHJJ 2.85 238 iP+ 11 08.50 -0.1 S 11 38.90 MAT 3.18 251 iPc 11 13.50 0.1 eS 11 37.00 AOMJ 3.19 338 P 11 13.80 0.4 MTMJ 3.48 254 iP+ 11 17.50 0.0					SSK 0.75 94 eP 24 16.46 -2.5 ABL 0.78 319 eP 24 18.19 -1.3 PEC 1.25 107 eP 24 26.70 -0.6 eS 24 42.97 BCH 1.53 307 eP 24 31.31 -0.2 PLM 1.71 122 (P) 24 33.28 -0.8 GSC 1.80 54 (P) 24 34.61 -0.8 TPNV 3.29 35 (Pn) 24 54.19 -2.5 7 obs. associated				
SSK 0.65 98 iPc 37 33.25 -1.0 eS 37 44.14 ABL 0.82 312 eP 37 35.61 -2.0 PEC 1.16 110 ePc 37 41.30 -2.0					WOFM 1.31 353 P 35 36.50 -0.4 CRGC 1.42 316 P 35 37.65 -0.7 WORM 1.48 9 P 35 38.72 -0.4 WASM 1.50 359 P 35 39.56 -0.1 SCCM 1.54 298 P 35 39.20 -0.9 BCH 1.61 307 eP 35 40.01 -1.1 PLM 1.63 122 eP 35 40.26 -1.2 WSHM 1.63 31 P 35 40.49 -0.9 NMC 1.68 17 P 35 44.15 2.0 WCHM 1.69 12 P 35 41.52 -0.9 TOW 1.69 21 P 35 42.02 -0.2 GSC 1.76 52 eP 35 42.58 -0.8 RCWM 1.85 22 P 35 43.82 -0.8 WLHM 1.92 5 P 35 45.34 -0.5 MTUM 3.11 359 ePn 36 02.44 -0.3 TPNV 3.28 34 ePn 36 04.39 -0.7 GLA 3.29 110 ePn 36 02.99 -2.1 MMPM 3.40 353 ePn 36 07.51 0.6									



18d 18h

MRCM 3.43 0 (Pn) 36 08.57 1.3  
 MEMM 3.44 354 ePn 36 13.83 6.7  
 BONR 3.72 3 ePg 36 20.88 9.4  
 CMB 4.09 339 eP 36 16.49 0.1  
 ARUT 5.43 48 ePn 36 35.35 -0.2  
 ePg 36 52.65

35 obs. associated

& JAN 18, 1994 18h 35m 54.50s  
 34.328 N 118.427 W

DEPTH = 5.8km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.5 (GS).

SSK 0.62 101 eP 36 06.15 -0.8  
 ABL 0.84 309 eP 36 08.90 -2.3  
 PEC 1.14 112 eP 36 14.72 -1.5  
 BCH 1.61 303 (P) 36 23.57 -0.1  
 PLM 1.63 126 (P) 36 22.63 -1.3  
 5 obs. associated

& JAN 18, 1994 18h 45m 02.37s  
 34.344 N 118.468 W

DEPTH = 1.8km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 3.0 (GS).

ABL 0.80 309 eP 45 14.03 -4.3  
 PEC 1.17 112 eP 45 21.90 -3.2  
 BCH 1.57 303 eP 45 27.60 -3.9  
 PLM 1.66 126 eP 45 30.41 -2.4  
 GSC 1.67 55 eP 45 30.86 -2.0  
 MTUM 3.00 359 ePg 45 54.81 2.7  
 TPNV 3.17 34 (Pn) 45 52.46 -1.9  
 MMPM 3.29 352 eP 46 02.14 5.8  
 BONR 3.61 2 (P) 46 06.06 5.3  
 9 obs. associated

& JAN 18, 1994 18h 46m 58.63s  
 33.964 N 118.434 W

DEPTH = 15.8km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS).

SSK 0.66 68 eP 47 10.63 -0.9  
 eS 47 20.09  
 PEC 1.06 94 eP 47 17.10 -1.1  
 PLM 1.45 114 eP 47 22.83 -1.5  
 WOFM 1.58 352 P 47 26.94 0.7  
 WBSM 1.59 9 P 47 26.94 0.6  
 CRGC 1.66 321 P 47 29.19 1.9  
 BCH 1.83 312 eP 47 29.75 0.0  
 MTUM 3.38 358 ePn 47 52.84 0.8  
 TPNV 3.47 30 eP 47 53.29 0.1  
 BONR 3.98 2 (Pn) 48 01.89 1.3  
 ARUT 5.57 45 eP 48 23.64 0.7  
 11 obs. associated

% JAN 18, 1994 18h 48m 55.07± 0.86s  
 40.277 N ±13.1km 25.046 E ± 5.2km  
 DEPTH = 5.0km (geophysicist)

AEGEAN SEA (365)  
 ML 2.6 (THE).

OUR 0.82 274 ePg 49 11.44 0.1  
 ALN 0.98 51 ePg 49 14.36 0.2  
 eSg 49 29.00  
 PAIG 1.10 252 ePg 49 16.12 -0.1  
 eSg 49 30.72  
 SRS 1.39 308 ePb 49 20.57 -0.5  
 eSb 49 40.52  
 SOH 1.40 293 ePb 49 20.88 -0.4  
 KNT 1.86 299 ePb 49 27.64 -0.2  
 eSb 49 51.72  
 GRG 2.12 289 ePn 49 32.84 1.1  
 EDC 2.16 87 ePn 49 32.00 -0.1  
 S.D. = 0.6 on 8 of 8 obs.

? JAN 18, 1994 18h 57m 10.11± 0.76s  
 31.284 S ±20.3km 68.649 W ±31.4km  
 DEPTH = 100.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.16 107 iPd 57 24.50 -0.2  
 S 57 35.00  
 RTCB 0.24 213 iPd 57 24.80 -0.2  
 S 57 36.20

CFA 0.48 133 iPc 57 26.10 0.1  
 S 57 39.00  
 RTCV 0.58 171 iPd 57 27.00 0.2  
 S 57 40.00  
 RTRS 1.31 328 iPd 57 34.50 0.1  
 S 57 53.40

S.D. = 0.3 on 5 of 5 obs.

JAN 18, 1994 19h 09m 18.53± 0.75s  
 34.288 N ± 7.2km 118.534 W ± 5.2km

DEPTH = 10.0km (geophysicist)

SOUTHERN CALIFORNIA (43)  
 ML 3.3 (GS).

SSK 0.70 96 eP 09 31.84 -0.7  
 RYS 0.76 298 P 09 34.36 0.8  
 ABL 0.80 315 eP 09 33.74 -0.4  
 PLEC 0.81 327 P 09 34.77 0.5  
 BMTC 0.85 357 P 09 32.56 -2.4  
 ARVC 0.87 344 P 09 33.43 -1.8  
 TEJ 0.95 352 P 09 34.10 -2.5  
 MARC 0.97 317 P 09 34.25 -2.8  
 LPC 1.00 282 P 09 37.84 0.3  
 PEC 1.21 109 iPc 09 40.35 -0.7  
 eS 09 57.32

WOFM 1.25 353 P 09 42.54 0.6  
 WBSM 1.29 14 P 09 43.38 0.8  
 CRGC 1.37 315 P 09 44.54 0.8  
 WORM 1.43 10 P 09 45.61 1.1  
 SCCM 1.50 296 P 09 46.47 1.0  
 BCH 1.56 305 ePn 09 47.15 0.7  
 eS 10 10.51

NMC 1.63 18 P 09 49.43 1.9  
 WCHM 1.64 13 P 09 49.00 1.3  
 TOW 1.64 22 P 09 50.08 2.5X  
 PLM 1.68 123 eP 09 47.18 -1.0  
 GSC 1.75 54 eP 09 48.93 -0.2  
 VPEM 1.76 19 P 09 51.22 1.8  
 RCWM 1.81 23 P 09 53.14 3.1X  
 WLHM 1.87 6 P 09 53.36 2.2X  
 MTUM 3.06 360 ePn 10 09.02 1.0  
 TPNV 3.24 34 ePn 10 10.13 -0.5  
 GLA 3.33 111 ePn 10 12.38 0.6  
 MMPM 3.34 353 ePg 10 18.19 6.0X  
 MRCM 3.38 0 ePg 10 21.44 8.9X  
 BONR 3.66 3 ePg 10 27.85 11.1X  
 TNP 3.93 15 (P) 10 19.61 -0.8  
 CMB 4.03 339 (P) 10 25.57 4.0X  
 ARUT 5.41 48 ePn 10 41.83 0.5  
 S.D. = 1.4 on 26 of 33 obs.

JAN 18, 1994 19h 19m 45.00± 0.68s  
 34.184 N ± 6.5km 118.643 W ± 4.2km

DEPTH = 10.0km (geophysicist)

SOUTHERN CALIFORNIA (43)  
 ML 3.4 (GS).

FTC 0.72 343 P 19 59.36 0.2  
 SSK 0.79 88 iP 20 00.34 -0.1  
 ABL 0.82 325 ePc 20 01.31 0.3  
 PLEC 0.86 336 P 20 02.51 0.9  
 LPC 0.94 290 P 20 04.63 1.6  
 ARVC 0.95 351 P 20 03.44 0.3  
 MARC 1.00 325 P 20 04.80 0.9  
 WJPM 1.23 6 P 20 07.86 -0.1  
 PEC 1.27 103 eP 20 07.97 -0.6  
 WOFM 1.35 358 P 20 10.09 0.1  
 WBSM 1.41 17 P 20 10.78 -0.2  
 SCCM 1.47 301 P 20 12.53 0.9  
 WORM 1.55 12 P 20 12.44 -0.2  
 BCH 1.55 310 eP 20 13.37 0.6  
 PLM 1.70 119 eP 20 15.17 0.2  
 WSHM 1.73 33 P 20 14.02 -1.3  
 WCHM 1.76 15 P 20 15.40 -0.6  
 GSC 1.88 53 iPd 20 16.78 -0.8  
 RCWM 1.94 25 P 20 17.67 -0.8  
 WLHM 1.98 8 P 20 19.11 -0.1  
 PHAM 2.19 319 (P) 20 20.75 -1.2  
 PAMP 2.82 308 P 20 29.97 -1.1  
 LRC 2.85 317 P 20 30.31 -1.0  
 BHPR 3.11 2 P 20 41.93 6.7X  
 MTUM 3.16 1 eP 20 36.34 0.4  
 BPRM 3.36 312 P 20 37.72 -0.9  
 GLA 3.38 108 eP 20 40.58 1.7  
 TPNV 3.38 35 eP 20 38.11 -0.9  
 BVYM 3.42 319 P 20 38.59 -0.8  
 MMPM 3.43 355 (P) 20 42.38 2.4

SAO 3.44 319 eP 20 38.82 -1.0  
 MRCM 3.48 2 (P) 20 40.10 -0.4  
 MEMM 3.48 356 (P) 20 42.78 2.5  
 DIL 3.60 318 P 20 40.81 -1.2  
 BONR 3.77 4 eP 20 46.41 1.6  
 ARN 3.94 324 (P) 20 44.26 -2.5  
 TNP 4.06 16 (P) 20 48.54 -0.1  
 CMB 4.09 340 eP 20 50.06 1.1  
 ARUT 5.54 48 eP 21 05.70 -4.0X  
 MSU 6.78 49 eP 21 27.41 0.3  
 S.D. = 1.1 on 38 of 40 obs.

? JAN 18, 1994 19h 21m 26.77± 0.63s  
 2.453 N ± 8.9km 125.999 E ±15.5km

DEPTH = 33.0km (normal)

4.7mb (4 obs.)

TALAUD ISLANDS, INDONESIA (263)

BIP 5.74 2 eP 22 52.50 0.6  
 WB2 23.72 160 iPd 26 35.80 -1.1  
 0.5s 16.60nm 4.8mb  
 eS 30 52.50  
 WARB 28.47 179 eP 27 23.00 1.9  
 FORT 33.10 177 eP 28 02.00 0.1  
 0.6s 25.00nm 5.3mb  
 STK 37.22 158 eP 28 36.30 -0.7  
 2.0s 4.10nm 3.9mb  
 ARMA 40.82 145 eP 29 00.60 -6.6X  
 0.7s 8.00nm 4.6mb  
 GUN 45.90 307 P 29 49.00 0.3  
 PKI 46.13 307 P 29 50.00 -0.5  
 KKN 46.32 307 P 29 51.80 -0.1  
 DMN 46.38 307 P 29 52.20 -0.2  
 GKN 46.93 307 P 29 56.00 -0.6  
 HYB 48.87 291 eP 30 11.50 -0.2  
 GBA 49.25 286 P 30 15.00 0.4  
 S.D. = 0.9 on 12 of 13 obs.

& JAN 18, 1994 19h 24m 07.49s  
 34.318 N 118.454 W

DEPTH = 4.9km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.0 (GS).

FTC 0.66 327 P 24 19.67 -1.0  
 RYS 0.81 294 P 24 22.87 -0.9  
 BMTC 0.82 352 P 24 22.56 -1.5  
 ARVC 0.86 339 P 24 23.29 -1.3  
 TEJ 0.93 348 P 24 23.02 -2.7  
 MARC 1.00 313 P 24 26.15 -0.8  
 LPC 1.06 280 P 24 26.88 -1.1  
 PEC 1.15 111 ePc 24 27.80 -1.8  
 eS 24 44.32  
 TMB 1.18 311 P 24 29.64 -0.3  
 WOFM 1.23 350 P 24 30.14 -0.8  
 WBSM 1.24 12 P 24 31.28 0.1  
 WORM 1.39 7 P 24 33.74 0.2  
 CRGC 1.39 312 P 24 33.22 -0.5  
 WSHM 1.53 31 P 24 35.00 -0.6  
 SCCM 1.55 294 P 24 35.50 -0.3  
 TOW 1.59 21 P 24 38.29 1.9  
 PLM 1.64 126 eP 24 35.06 -2.2  
 eS 24 58.42  
 GSC 1.67 54 eP 24 36.55 -1.1  
 VPEM 1.71 18 P 24 40.06 1.8  
 WLHM 1.83 4 P 24 41.08 0.9  
 TPNV 3.18 34 ePn 24 59.25 0.0  
 MMPM 3.32 352 ePg 25 07.37 5.9  
 MRCM 3.35 359 ePg 25 08.31 6.6  
 MEMM 3.36 353 ePg 25 08.29 6.5  
 BONR 3.63 2 ePg 25 14.02 8.2  
 25 obs. associated

& JAN 18, 1994 19h 28m 02.76s  
 34.373 N 118.648 W

DEPTH = 13.4km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.5 (GS).

FTC 0.54 338 P 28 12.85 -0.7  
 RYS 0.64 295 P 28 14.60 -0.8  
 ABL 0.67 315 iPd 28 14.71 -1.2  
 PLEC 0.69 330 P 28 16.04 -0.1  
 BMTC 0.76 3 P 28 16.63 -0.8  
 ARVC 0.77 349 P 28 17.14 -0.3  
 SNDC 0.82 20 P 28 18.85 0.4  
 LPC 0.89 278 P 28 18.71 -0.9



18d 19h

TMB	1.02	315	P	28	21.62	-0.2
WJPM	1.04	8	P	28	22.00	-0.2
WOFM	1.16	357	P	28	23.88	-0.4
CRGC	1.24	315	P	28	25.15	-0.4
WORM	1.36	14	P	28	27.78	0.4
WASM	1.36	3	P	28	28.52	0.9
SCCM	1.38	295	P	28	26.75	-0.9
TOW	1.61	27	P	28	33.31	2.5
PAPM	2.70	305	P	28	43.97	-2.7
LRC	2.71	314	P	28	44.32	-2.4
MTUM	2.97	1	ePg	28	53.18	2.6
TPNV	3.23	37	ePg	29	09.03	14.8
BPRM	3.23	310	P	28	51.84	-2.3
MMPM	3.24	355	ePg	28	55.39	0.8
MEMM	3.29	356	ePn	28	56.43	1.5
SAO	3.30	317	eP	28	52.22	-2.9
FRP	3.32	317	P	28	52.93	-2.5
DIL	3.46	316	P	28	54.32	-3.0
BONR	3.59	4	ePg	29	08.71	9.3
ARN	3.78	323	eP	29	00.68	-1.3
TNP	3.88	17	ePg	29	13.56	10.1
CMB	3.91	339	eP	29	02.48	-1.3

30 obs. associated

&amp; JAN 18, 1994 19h 59m 06.08s

34.360 N 118.605 W

DEPTH = 4.1km

SOUTHERN CALIFORNIA

&lt;PAS-P&gt;. ML 3.3 (PAS), 3.3 (GS).

FTC	0.56	335	P	59	16.47	-0.9
RYS	0.68	295	P	59	18.77	-0.9
ABL	0.71	314	eP	59	18.58	-1.6
PLEC	0.72	328	P	59	19.93	-0.5
SSK	0.77	101	eP	59	19.92	-1.6
ARVC	0.79	346	P	59	20.46	-1.4
SNDC	0.82	18	P	59	22.18	-0.3
TEJ	0.87	355	P	59	21.22	-2.2
LPC	0.93	279	P	59	22.77	-1.6
WJPM	1.05	6	P	59	25.72	-0.8
TMB	1.05	314	P	59	25.55	-1.0
WOFM	1.18	356	P	59	27.31	-1.4
WBSM	1.23	18	P	59	28.50	-1.2
CRGC	1.27	314	P	59	29.13	-1.2
PEC	1.29	111	eP	59	27.89	-2.6
WORM	1.37	12	P	59	30.62	-1.3
WASM	1.38	2	P	59	31.22	-1.0
BCH	1.47	304	eP	59	31.04	-2.4
WSHM	1.56	35	P	59	32.86	-1.9
WCHM	1.58	16	P	59	33.20	-2.0
TOW	1.60	25	P	59	33.72	-1.5
VPEM	1.71	22	P	59	35.77	-1.2
GSC	1.75	57	eP	59	35.74	-1.8
PLM	1.76	124	eP	59	35.79	-2.0
RCWM	1.77	26	P	59	37.38	-0.4
WLHM	1.80	8	P	59	37.38	-1.1
MTUM	2.99	1	(P)	59	54.85	-0.4
TPNV	3.22	36	eP	59	56.39	-2.1
MMPM	3.26	354	(P)	00	01.26	1.9
MRCM	3.31	1	(P)	00	00.91	1.1
MEMM	3.31	355	(P)	00	01.33	1.7
BONR	3.60	4	(P)	00	03.38	-0.6
ARN	3.81	322	(P)	00	08.78	1.8
TNP	3.88	16	eP	00	17.62	9.6
CMB	3.94	339	(P)	00	06.22	-2.5

35 obs. associated

? JAN 18, 1994 19h 59m 43.93± 5.81s

41.768 N ±40.8km 23.094 E ±13.5km

DEPTH = 5.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 2.2 (THE).

KNT	0.62	194	ePg	59	56.72	0.3
			eSg	00	07.16	
SRS	0.75	150	ePg	59	58.42	-0.6
			eSg	00	10.64	
GRG	0.96	213	ePg	00	02.40	-0.3
			eSg	00	17.92	
SOH	0.97	168	ePg	00	02.72	-0.1
			eSg	00	18.44	
OUR	1.58	155	ePb	00	13.32	0.7
			eSb	00	36.68	

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

? JAN 18, 1994 20h 04m 31.15± 0.55s

11.383 S ± 8.4km 117.664 E ±10.3km

DEPTH = 33.0km (normal)  
4.9mb ( 3 obs.)  
SOUTH OF SUMBAWA, INDONESIA (291)

MBL	9.94	168	eP	06	54.00	-0.9
			iS	08	32.50	
KNA	11.63	113	eP	07	16.50	-1.5
MTN	13.25	98	eP	07	40.50	1.0
	0.3s	16.00nm			5.5mb X	
		eS	09	59.00		
MEEK	15.20	177	eP	08	04.00	-1.2
		eS	10	37.20		
WARB	16.99	151	eP	08	27.70	-0.3
		eS	11	28.00		
WB2	18.17	120	iPd	08	42.90	0.2
	0.3s	7.10nm			4.3mb	
BAL	19.15	183	eP	08	56.50	1.9
		eS	12	11.00		
COOL	19.67	171	eP	09	01.00	0.5
		eS	12	23.00		
KLB	20.11	180	eP	09	08.50	3.4X
		eS	12	31.00		
MUN	20.54	184	eP	09	14.50	5.0X
		eS	12	40.40		
NWAO	21.45	181	eP	09	25.40	6.7X
		eS	13	04.30		
GUN	49.73	322	P	13	23.60	0.7
	0.6s	14.00nm			5.2mb	
PKI	49.77	322	P	13	22.00	-1.2
DMN	49.98	321	P	13	24.20	-0.5
KKN	50.01	322	P	13	24.40	-0.5
GKN	50.55	321	P	13	28.80	-0.1
	0.4s	7.00nm			5.0mb	
GEC2	107.67	318	PKP	23	11.30	14.6X
	0.6s	0.66nm				
YKA	116.89	24	PKP	23	15.50	1.8
	0.6s	0.40nm				

S.D. = 1.2 on 14 of 18 obs.

JAN 18, 1994 20h 06m 32.69± 0.81s

34.293 N ±10.1km 118.466 W ± 6.8km

DEPTH = 10.0km (geophysicist)

SOUTHERN CALIFORNIA (43)

ML 2.5 (GS).

SSK	0.65	97	eP	06	45.88	0.1
ABL	0.83	312	eP	06	48.86	-0.1
PEC	1.16	110	eP	06	54.28	0.0
BCH	1.60	304	eP	07	01.35	0.1
PLM	1.63	125	eP	07	01.66	-0.1
GSC	1.70	53	eP	07	02.50	-0.1
TPNV	3.21	34	(P)	07	24.30	0.1
MEMM	3.39	354	eP	07	32.25	5.6X

S.D. = 0.1 on 7 of 8 obs.

&amp; JAN 18, 1994 20h 07m 15.09s

34.252 N 118.647 W

DEPTH = 18.7km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.0 (PAS), 3.0 (GS).

FTC	0.65	342	P	07	27.29	-0.4
RYS	0.70	304	P	07	28.67	0.0
ABL	0.76	322	eP	07	28.71	-1.0
SSK	0.79	93	eP	07	29.38	-0.8
PLEC	0.79	334	P	07	30.32	0.2
BMTX	0.88	3	P	07	31.01	-0.7
ARVC	0.89	350	P	07	31.37	-0.3
LPC	0.92	286	P	07	32.06	-0.2
MARC	0.94	323	P	07	32.64	0.0
TMB	1.11	319	P	07	35.75	0.2
WOFM	1.28	358	P	07	38.45	0.3
PEC	1.28	106	eP	07	37.65	-0.5
CRGC	1.33	318	P	07	39.54	0.8
WASM	1.48	3	P	07	42.68	1.6
BCH	1.51	309	eP	07	43.05	1.7
WSHM	1.67	34	P	07	44.68	1.0
WLHM	1.92	8	P	07	50.22	2.8
TPNV	3.33	35	eP	08	06.50	-0.9

18 obs. associated

&amp; JAN 18, 1994 20h 16m 45.96s

34.320 N 118.418 W

DEPTH = 7.2km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 2.8 (PAS), 2.9 (GS).

SSK	0.61	100	eP	16	57.15	-1.1
ABL	0.85	309	ePc	17	00.97	-1.8
PEC	1.13	112	eP	17	05.91	-1.5
PLM	1.61	126	eP	17	13.29	-1.8
BCH	1.62	303	eP	17	13.54	-1.6
GSC	1.65	53	eP	17	14.70	-0.8
MTUM	3.03	358	(P)	17	38.50	3.1
TPNV	3.16	33	(P)	17	36.45	-0.8
MMPM	3.32	352	(P)	17	40.61	0.9
MEMM	3.37	353	(P)	17	45.35	5.4
BONR	3.63	1	(P)	17	45.98	2.0

11 obs. associated

&amp; JAN 18, 1994 20h 24m 09.62s

34.284 N 118.442 W

DEPTH = 0.8km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.0 (PAS).

RYS	0.83	296	P	24	25.15	-1.1
ABL	0.86	312	eP	24	24.73	-2.0
BMTX	0.86	352	P	24	23.69	-3.1
ARVC	0.90	339	P	24	25.65	-1.9
TEJ	0.97	348	P	24	23.94	-4.9
MARC	1.03	314	P	24	26.44	-3.5
LPC	1.07	282	P	24	26.89	-3.9
WBSM	1.27	11	P	24	33.36	-0.9
WSHM	1.56	30	P	24	35.74	-2.8
PLM	1.61	125	eP	24	36.75	-2.7
TOW	1.62	20	P	24	38.81	-0.7
RCWM	1.79	21	P	24	43.13	1.2
TPNV	3.20	33	eP	25	00.40	-1.9
MMPM	3.35	352	(Pn)	25	04.59	0.0
MEMM	3.40	353	(Pn)	25	04.98	0.1
BONR	3.67	2	(Pn)	25	10.46	1.5
TNP	3.92	14	ePg	25	21.47	9.0

17 obs. associated

&amp; JAN 18, 1994 20h 35m 18.01s

34.330 N 118.427 W

DEPTH = 5.3km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 2.7 (PAS), 2.7 (GS).

SSK	0.62	101	eP	35	30.05	-0.4
ABL	0.84	309	eP	35	32.75	-2.0
PEC	1.14	112	eP	35	38.41	-1.4
BCH	1.61	302	eP	35	46.10	-1.1
PLM	1.63	126	(P)	35	46.48	-1.1
GSC	1.65	54	eP	35	48.06	0.3

6 obs. associated

&amp; JAN 18, 1994 20h 37m 06.76s

34.338 N 118.431 W

DEPTH = 6.7km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 2.6 (PAS), 2.8 (GS).

SSK	0.62	102	eP	37	18.11	-1.2
		eS	37	27.61		
ABL	0.83	308	eP	37	21.54	-1.7
PEC	1.14	113	eP	37	26.87	-1.6
BCH	1.60	302	eP	37	35.23	-0.5
PLM	1.					



18d 20h

eSn 55 57.48  
S.D. = 0.3 on 8 of 8 obs.  
-----  
& JAN 18, 1994 20h 55m 12.32s  
34.392 N 118.625 W  
DEPTH = 3.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 2.9 (GS).  
ABL 0.67 313 ePc 55 24.35 -1.4  
SSK 0.79 103 eP 55 28.03 -0.1  
PEC 1.31 112 eP 55 36.16 -1.1  
BCH 1.44 304 eP 55 36.08 -3.3  
GSC 1.75 58 eP 55 45.25 1.4  
PLM 1.80 125 (P) 55 43.19 -1.4  
6 obs. associated

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& JAN 18, 1994 21h 14m 14.71s  
34.404 N 118.635 W  
DEPTH = 9.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.3 (GS).

FTC 0.51 336 P 14 24.21 -0.9  
RYS 0.64 292 P 14 26.71 -1.0  
ABL 0.66 313 eP 14 26.36 -1.6  
PLEC 0.67 328 P 14 27.45 -0.6  
SNDC 0.79 20 P 14 29.89 -0.3  
SSK 0.80 104 eP 14 29.94 -0.5  
MARC 0.83 316 P 14 27.18 -3.7  
LPC 0.90 276 P 14 30.62 -1.4  
WJPM 1.01 7 P 14 33.20 -0.8  
WBSM 1.20 20 P 14 36.22 -1.1  
PEC 1.33 112 eP 14 36.63 -2.6  
SCCM 1.38 293 P 14 38.49 -1.5  
BCH 1.42 304 eP 14 38.94 -1.8  
WSHM 1.54 37 P 14 42.59 0.2  
WCHM 1.55 17 P 14 40.84 -1.8  
VPDM 1.68 23 P 14 45.52 1.0  
GSC 1.75 59 eP 14 43.80 -1.6  
PLM 1.81 125 eP 14 43.85 -2.5  
PHAM 2.03 315 eP 14 47.36 -2.1  
PADM 2.21 305 P 14 49.52 -2.5  
BMSM 2.86 323 P 14 59.38 -1.9  
MTUM 2.94 1 (P) 15 02.04 -0.6  
TPNV 3.20 37 (P) 15 04.47 -1.7  
MMPM 3.22 354 (P) 15 06.68 0.1  
BPRM 3.22 309 P 15 03.68 -2.8  
ORC 3.22 360 P 15 08.81 2.1  
MRCM 3.26 2 (P) 15 07.37 0.2  
MEMM 3.26 356 eP 15 08.21 1.3  
GLA 3.45 112 (P) 15 09.66 0.0  
BONR 3.55 4 (P) 15 12.77 1.4  
ARN 3.76 322 (P) 15 11.49 -2.7  
TNP 3.84 17 (P) 15 17.30 1.9  
CMB 3.89 339 (P) 15 14.45 -1.5  
33 obs. associated

\* JAN 18, 1994 21h 58m 55.11± 1.13s  
15.374 S ± 9.5km 167.407 E ± 9.8km  
DEPTH = 124.6 ± 10.2 km  
4.8mb (14 obs.)  
VANUATU ISLANDS (186)

BKM 2.42 161 iP 59 35.00 0.4  
iS 00 05.50  
PVC 2.51 160 iP 59 35.80 0.1  
iS 00 10.50  
DZM 6.72 188 iPd 00 32.10 -0.7  
iS 01 48.50  
HNR 9.38 308 eP 01 09.00 0.4  
eS 02 56.00  
VUN 10.91 105 iPd 01 39.20 10.2X  
SVA 10.93 106 ePc 01 38.60 9.4X  
MBU 10.99 100 eP 01 39.10 9.1X  
CNB 25.61 216 eP 04 15.00 0.4  
STK 28.69 231 eP 04 43.30 0.9  
0.5s 4.50nm 4.4mb  
TOO 29.42 217 iPd 04 49.00 0.1  
0.8s 14.00nm 4.7mb  
WB2 31.79 257 iPc 05 08.70 -1.2  
1.0s 4.20nm 4.2mb  
WRA 31.80 257 P 05 08.80 -1.2  
0.6s 0.90nm 3.7mb X  
FORT 39.09 240 eP 06 12.00 0.3  
0.6s 20.00nm 5.1mb  
MEEK 46.66 248 eP 07 12.50 -0.6

MDJ 68.91 332 eP 09 48.00 -0.3  
1.0s 19.00nm 4.9mb  
CN2 70.26 329 Pd 09 56.00 -0.6  
0.6s 16.00nm 5.0mb  
GYA 72.19 305 P 10 08.40 -0.3  
BJI 72.85 321 eP 10 11.50 -0.5  
0.8s 5.00nm 4.3mb  
TIY 73.82 317 eP 10 18.30 0.4  
XAN 74.22 313 Pc 10 19.80 -0.4  
0.8s 8.30nm 4.6mb  
CHTO 75.46 294 eP 10 28.00 0.4  
HHC 76.16 320 Pc 10 31.60 0.4  
0.9s 11.00nm 4.6mb  
BTO 76.99 319 eP 10 36.20 0.4  
LZH 78.85 312 Pc 10 47.00 0.8  
1.3s 38.00nm 5.0mb  
YAK 82.66 343 iP 11 05.10 -0.4  
0.8s 63.00nm 5.5mb  
GTA 83.21 314 eP 11 09.50 0.6  
1.2s 20.00nm 4.9mb  
BONR 87.42 50 (P) 11 29.66 -0.3  
WMQ 93.27 314 P 11 57.40 0.5  
1.2s 10.00nm 5.0mb  
GBA 93.50 283 P 11 59.00 0.7  
YKA 98.06 27 P 12 15.80 -2.3  
0.7s 1.30nm 4.6mb  
KAF 125.84 339 iPKP 17 41.90 -1.3  
0.5s 2.50nm  
NUR 127.51 338 iPKP 17 45.90 -0.6  
0.5s 4.00nm  
APO 130.97 343 ePKP 17 39.00 -14.1X  
0.5s 1.00nm  
ZST 139.15 330 ePKP 18 09.70 0.8  
GEC2 140.27 333 PKP 18 02.70 -8.3X  
e 18 04.70  
e 18 10.10  
CDF 143.22 338 ePKP 18 12.30 -3.9X  
0.7s 6.85nm  
OSS 143.47 333 ePKPc 18 14.10 -2.7  
BSF 143.88 338 ePKP 18 14.30 -3.1X  
0.8s 10.05nm  
HAU 143.90 338 iPKPc 18 14.50 -2.8  
0.8s 18.55nm  
TMA 144.47 334 ePKPc 18 16.90 -1.6  
MMK 144.90 335 ePKPc 18 18.80 -0.5  
DIX 145.10 335 ePKPc 18 19.60 -0.1  
ORX 145.23 334 PKP 18 18.64 -1.1  
FLN 145.25 346 iPKPc 18 18.80 -0.7  
0.7s 97.90nm  
EMS 145.30 336 ePKPc 18 19.80 -0.1  
LDF 145.32 345 iPKPc 18 19.00 -0.6  
0.7s 60.85nm  
LOR 145.39 340 iPKPc 18 19.70 -0.1  
0.9s 56.50nm  
LBF 145.60 340 iPKPc 18 20.60 0.4  
1.1s 105.50nm  
SSF 145.68 340 iPKPc 18 20.80 0.5  
1.3s 110.10nm  
GRR 145.69 346 iPKPc 18 20.50 0.3  
0.6s 51.40nm  
LSD 145.71 335 PKP 18 20.98 0.2  
HYF 145.77 341 iPKPc 18 21.20 0.8  
LPL 145.83 336 ePKP 18 21.00 0.1  
0.7s 18.10nm  
LPG 145.84 335 ePKP 18 21.20 0.2  
0.6s 16.05nm  
PCP 145.85 333 PKP 18 21.44 0.7  
RSP 145.92 335 PKP 18 20.02 -0.9  
SMF 145.94 340 ePKP 18 21.20 0.5  
0.9s 36.85nm  
AVF 145.97 340 ePKP 18 21.20 0.4  
0.9s 48.15nm  
LPF 146.07 346 iPKPc 18 21.70 0.8  
0.6s 38.40nm  
BHB 146.16 334 PKP 18 19.70 -1.5  
FIN 146.26 333 PKP 18 18.64 -2.7  
RRL 146.30 335 PKP 18 23.13 1.4  
BGF 146.34 341 iPKPc 18 22.50 1.1  
0.7s 28.75nm  
ROB 146.34 333 PKP 18 20.98 -0.6  
PZZ 146.51 334 PKP 18 20.02 -1.9  
ENR 146.59 333 PKP 18 19.47 -2.5  
IMI 146.64 333 PKP 18 22.30 0.3  
MAF 146.73 341 iPKPc 18 23.80 1.8  
1.0s 28.80nm  
TCF 146.78 341 iPKPc 18 23.80 1.7  
1.1s 47.35nm

SBF 146.88 333 iPKPc 18 23.50 1.1  
LSF 147.02 342 iPKPc 18 24.20 1.7  
0.7s 24.80nm  
MFF 147.17 344 iPKPc 18 24.80 2.1  
0.8s 57.75nm  
PGF 147.18 330 iPKPc 18 24.70 1.7  
0.7s 19.95nm  
FRF 147.46 334 ePKP 18 25.30 2.0  
0.7s 12.00nm  
BCAO 147.52 254 ePKPd 18 23.40 -0.9  
0.2s 28.00nm  
i 18 26.00  
LRG 147.67 334 ePKP 18 26.00 2.4  
LMR 147.70 333 iPKPc 18 26.00 2.4  
1.1s 36.65nm  
RJF 147.88 341 iPKPc 18 26.90 3.0X  
0.9s 31.45nm  
CAF 148.04 340 iPKPc 18 27.60 3.4X  
1.0s 21.80nm  
LFF 148.45 342 iPKPc 18 28.40 3.6X  
1.0s 34.40nm  
LPO 148.54 341 iPKPc 18 28.70 3.7X  
0.7s 10.80nm  
EPF 150.29 341 iPKPc 18 33.40 5.7X  
0.7s 3.95nm  
S.D. = 1.2 on 70 of 82 obs.

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\* JAN 18, 1994 22h 18m 43.03± 1.63s  
16.476 N ± 7.6km 122.532 E ± 17.5km  
DEPTH = 33.0km (normal)

LUZON, PHILIPPINE ISLANDS (249)  
CVP 1.40 331 iPc 19 06.70 0.3  
iS 19 19.00  
BCP 1.85 268 eP 19 13.80 0.7  
eS 19 38.20  
BAG 1.87 268 iPc+ 19 13.00 -0.5  
i 19 36.00  
SZP 2.26 299 iP 19 19.00 0.2  
QCP 2.30 218 eP 19 07.00 -12.5X  
QVP 2.36 219 eP 19 19.00 -1.3  
eS 19 44.00  
GQP 2.56 182 ePc 19 23.00 -0.1  
eS 19 54.00  
PIP 2.59 315 iPd 19 23.00 -0.6  
TGY 2.82 213 eP 19 28.00 1.2  
PGP 3.33 208 eP 19 42.50 8.5X  
S.D. = 0.9 on 8 of 10 obs.

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& JAN 18, 1994 22h 56m 15.91s  
34.330 N 118.438 W  
DEPTH = 6.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.6 (GS).

SSK 0.63 101 eP 56 27.39 -1.1  
PEC 1.15 112 eP 56 36.02 -1.7  
eS 56 51.65  
ISA 1.33 359 eP 56 39.29 -1.6  
BCH 1.60 303 eP 56 43.31 -1.6  
GSC 1.66 54 eP 56 44.54 -1.2  
5 obs. associated

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JAN 18, 1994 23h 10m 36.65± 0.76s  
34.373 N ± 8.0km 27.148 E ± 5.9km  
DEPTH = 43.7 ± 8.9 km  
4.2mb (7 obs.)  
EASTERN MEDITERRANEAN SEA (371)  
MD 4.0 (HLW).

NPS 1.54 306 eP 11 04.00 1.9  
VAM 2.63 294 eP 11 20.00 2.3  
KSL 2.65 48 eP 11 19.00 1.2  
ELL 3.27 43 iPrn 11 36.50 9.7X  
CIN 3.31 13 eP 11 27.00 -0.3  
IZM 4.02 1 ePrn 11 36.50 -0.8  
VLI 4.15 305 eP 11 38.50 -0.8  
PPCY 4.32 82 eP 11 43.50 2.0  
KHL 4.38 25 ePrn 11 41.30 -1.2  
CSS 5.13 82 eP 11 52.50 -0.5  
eS 12 46.50  
HLW 5.74 141 ePrn 12 02.00 0.5  
eSn 13 03.50  
VLS 6.52 308 eP 12 11.20 -1.3  
HQL 8.43 125 iPd 12 38.00 -1.1  
eS 14 02.00  
SRFA 8.74 126 eP 12 41.33 -2.0



18d 23h

BADA 8.89 129 eP 12 43.67 -1.7  
 GEC2 17.57 329 Pn 14 40.20 0.3  
 0.5s 0.49nm 2.9mb X  
 e 14 42.10  
 e 14 51.60  
 e 14 54.40  
 LPG 19.13 312 eP 15 00.30 1.2  
 LPL 19.15 312 eP 15 00.40 1.1  
 SMF 21.46 312 eP 15 23.30 0.2  
 0.7s 3.75nm 3.9mb  
 LBF 21.53 313 eP 15 23.80 -0.1  
 OBN 21.75 15 eP 15 26.00 0.1  
 SSF 21.85 313 eP 15 25.90 -1.1  
 1.0s 8.20nm 4.1mb  
 LDF 24.72 313 eP 15 54.40 -0.6  
 0.4s 5.25nm 4.4mb  
 FLN 25.01 313 eP 15 57.00 -0.7  
 0.5s 11.15nm 4.7mb  
 LPF 25.05 312 eP 15 57.60 -0.6  
 GRR 25.08 312 eP 15 58.10 -0.3  
 0.5s 6.25nm 4.4mb  
 NUR 26.20 357 iP 16 06.70 -2.0  
 0.4s 2.00nm 4.0mb  
 KAF 27.76 359 iP 16 20.90 -2.1  
 0.3s 1.80nm 4.2mb  
 GKN 49.04 81 P 19 22.80 1.3  
 DMN 49.57 81 P 19 27.40 1.6  
 KKN 49.64 81 P 19 27.60 1.3  
 PKI 49.83 81 P 19 29.00 1.1  
 GUN 50.09 80 P 19 31.00 1.2  
 S.D. = 1.3 on 32 of 33 obs.

& JAN 19, 1994 00h 03m 17.66s  
 34.270 N 118.460 W  
 DEPTH = 6.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.3 (GS).

SSK 0.64 95 eP 03 29.46 -1.0  
 FTC 0.70 329 P 03 30.48 -1.2  
 RYS 0.83 297 P 03 32.93 -1.1  
 ABL 0.85 313 ePc 03 32.86 -1.7  
 ARVC 0.91 341 P 03 34.22 -1.1  
 TEJ 0.98 349 P 03 33.90 -2.6  
 MARC 1.03 315 P 03 36.32 -1.1  
 LPC 1.06 283 P 03 36.47 -1.6  
 WJPM 1.14 359 P 03 38.54 -0.8  
 PEC 1.14 109 eP 03 37.62 -1.7  
 TMB 1.20 313 P 03 39.56 -0.9  
 WOFM 1.28 351 P 03 40.88 -0.9  
 WBSM 1.29 12 P 03 41.02 -1.0  
 ISA 1.39 360 ePc 03 42.19 -1.4  
 CRGC 1.42 313 P 03 42.82 -1.2  
 WORM 1.43 7 P 03 43.93 -0.3  
 SCCM 1.56 296 P 03 44.72 -1.2  
 WSHM 1.58 30 P 03 44.56 -1.6  
 PLM 1.61 124 eP 03 44.74 -2.1  
 BCH 1.62 305 ePd 03 45.47 -1.4  
 NMC 1.63 16 P 03 47.38 0.4  
 TOW 1.64 20 P 03 48.36 1.3  
 WCHM 1.64 11 P 03 48.34 1.0  
 GSC 1.71 52 ePc 03 47.00 -1.1  
 VPME 1.76 17 P 03 48.38 -0.5  
 RCWM 1.80 21 P 03 48.02 -1.5  
 WLHM 1.88 4 P 03 52.02 1.2  
 MTUM 3.08 358 (P) 04 10.98 3.2  
 TPNV 3.22 33 P 04 08.75 -1.1  
 GLA 3.26 111 (P) 04 07.72 -2.6  
 MMPM 3.36 352 (P) 04 12.13 0.1  
 MRCM 3.39 359 (P) 04 15.88 3.5  
 MEMM 3.41 354 (P) 04 13.73 1.4  
 BONR 3.68 2 (P) 04 15.86 -0.6  
 ARN 3.96 322 (P) 04 19.84 -0.3  
 CMB 4.07 338 eP 04 23.59 1.9  
 ARUT 5.37 48 eP 04 39.67 -0.7  
 MSU 6.60 48 (P) 04 58.21 0.4  
 38 obs. associated

? JAN 19, 1994 00h 44m 03.35 ± 1.06s  
 39.356 N ± 9.8km 27.766 E ± 13.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

DST 0.71 69 iPg 44 17.00 -0.4  
 eSg 44 27.50  
 EDC 0.99 4 iPg 44 22.00 -0.2

IZM 1.03 203 iSg 44 35.00  
 IZI 1.64 53 ePg 44 22.90 0.0  
 ePn 44 33.00 0.6  
 eSg 44 36.90  
 S.D. = 0.8 on 4 of 4 obs.

& JAN 19, 1994 01h 09m 15.19s  
 34.310 N 118.407 W  
 DEPTH = 6.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.6 (GS).

SSK 0.60 99 ePd 09 26.51 -0.7  
 ABL 0.86 309 ePc 09 30.31 -2.0  
 PEC 1.12 112 eP 09 35.11 -1.4  
 ISA 1.35 358 eP 09 39.34 -1.2  
 PLM 1.60 126 eP 09 42.04 -2.2  
 BCH 1.63 303 eP 09 42.83 -1.8  
 GSC 1.65 53 eP 09 43.97 -0.8  
 TPNV 3.17 33 eP 10 05.43 -1.2  
 MMPM 3.33 351 (P) 10 09.13 0.0  
 MEMM 3.38 353 (P) 10 10.73 1.3  
 BONR 3.64 1 eP 10 16.54 3.1  
 11 obs. associated

JAN 19, 1994 01h 16m 25.90 ± 0.43s  
 43.660 N ± 4.4km 127.551 W ± 4.5km  
 DEPTH = 10.0km (geophysicist)  
 4.5mb (12 obs.) 4.9Msz (1 obs.)  
 OFF COAST OF OREGON (30)  
 ML 5.1 (BRK).

RNO 2.77 83 P 17 10.71 -0.5  
 MPOR 3.00 72 P 17 13.84 -0.7  
 DBO 3.19 98 P 17 16.18 -0.9  
 HSO 3.24 91 P 17 17.70 -0.2  
 TKO 3.39 58 P 17 19.83 -0.2  
 KMOR 3.51 54 P 17 21.29 -0.3  
 S 18 08.33

NLO 3.79 49 P 17 25.74 0.0  
 SSOR 3.85 70 P 17 27.06 0.5  
 YBH 4.05 117 eP 17 29.81 0.4  
 eS 18 19.71  
 GT2 4.07 67 P 17 30.17 0.6  
 BMW 4.16 46 P 17 30.29 -0.6  
 S 18 23.57

ONR 4.18 38 P 17 30.37 -0.7  
 RVW 4.23 52 P 17 31.92 0.1  
 TCO 4.32 82 P 17 33.59 0.2  
 MTMW 4.47 56 P 17 35.52 0.2  
 VBEM 4.50 70 P 17 36.11 0.3  
 WDC 4.83 128 eP 17 41.50 1.1  
 CROR 4.89 72 P 17 40.97 -0.3

ASR 4.91 57 P 17 42.28 0.7  
 VIPM 5.07 78 P 17 43.55 -0.3  
 LON 5.10 51 P 17 44.48 0.3  
 STW 5.24 30 P 17 45.27 -0.9  
 FMW 5.28 50 P 17 47.08 0.1  
 MIN 5.53 125 eP 17 42.50 -7.9X  
 JBO 5.80 69 P 17 53.82 -0.2

EBG 5.90 54 P 17 56.05 0.6  
 JCW 5.99 39 Pd 17 56.34 -0.4  
 MCW 5.99 31 P 17 56.02 -0.7  
 ORV 6.11 130 eP 17 57.44 -1.0  
 WAH2 6.44 58 P 18 03.60 0.6  
 WTV 6.68 50 P 18 06.66 0.1

LNOR 6.96 68 P 18 09.03 -1.3  
 SAW 6.99 52 P 18 10.24 -0.6  
 BKS 7.05 143 ePd 18 08.81 -2.8  
 eS 19 42.11  
 MHC 7.75 143 eP 18 19.54 -2.0  
 eS 19 59.64

DPW 7.77 54 P 18 20.98 -0.8  
 CMB 7.81 134 iPd 18 23.30 0.9  
 eS 20 07.05  
 SAO 8.32 144 eP 18 29.04 -0.4  
 MCMT 10.62 79 eP 19 01.90 0.6  
 LRM 10.96 73 eP 19 04.80 -1.2

YKA 20.33 17 eP 21 04.80 0.2  
 1.1s 16.60nm 4.3mb  
 TOA 21.47 336 eP 21 17.60 1.2  
 PMR 22.04 332 eP 21 22.10 0.1  
 1.0s 30.50nm 4.7mb  
 ACO 22.72 98 iPd 21 30.50 1.5  
 MEO 24.03 102 iPc 21 44.70 2.9X  
 FBA 24.12 339 eP 21 42.80 0.5  
 SVW 24.16 326 eP 21 41.30 -1.5

OCO 24.46 99 iPc 21 48.10 2.2  
 FNO 24.64 100 iPc 21 48.80 1.1  
 TTA 25.36 329 eP 21 52.10 -2.3  
 1.1s 21.90nm 4.8mb

TUL 25.49 97 iPc 21 57.10 1.4  
 IMA 26.63 336 eP 22 06.20 0.0  
 2.1s 81.20nm 5.0mb  
 UYO 27.29 99 iPd 22 13.10 0.8  
 MBC 32.87 4 eP 23 01.00 -0.5  
 1.0s 4.00nm 4.3mb

RES 34.35 15 eP 23 15.50 1.2  
 1.0s 6.00nm 4.5mb  
 SAC 36.55 68 eP 23 31.00 -2.3  
 FRB 38.52 38 eP 23 51.50 1.9  
 1.0s 8.00nm 4.4mb  
 DAG 52.00 16 eP 25 33.00 -3.9X  
 0.8s 6.72nm 4.6mb

SDF 67.49 11 iP 27 32.10 8.5X  
 HFS 71.80 19 eP 27 49.20 -0.9  
 0.5s 0.70nm 4.0mb  
 KAF 72.49 13 eP 28 00.00 5.9X  
 NUR 73.73 14 eP 28 06.00 4.7X  
 BJI 78.80 315 eP 28 30.00 -0.3

Z 24s 0.39um 4.7MszX  
 CLL 79.41 24 e(P) 28 38.00 4.6X  
 2.2s 37.00nm 5.0mb  
 BRG 80.07 24 eP 28 44.80 7.9X  
 HHC 80.47 319 eP 28 35.50 -3.9X  
 LPAZ 80.63 123 P 28 39.10 -2.0

OBN 80.69 9 eP 28 42.00 1.9  
 Z 20s 0.50um 4.9Msz  
 e 28 48.00  
 i 28 53.00  
 e 29 22.00  
 LQ 51 40.00

LPB 80.84 123 P 28 44.00 2.1  
 BTO 81.40 319 eP 28 42.80 -1.5  
 KHC 81.51 25 eP 28 57.00 12.4X  
 GEC2 81.81 25 P 28 50.60 4.4X  
 0.6s 0.52nm 3.8mb

TIY 82.47 316 eP 28 53.90 4.1X  
 CCH 82.69 122 P 28 53.80 2.3  
 SPC 83.32 21 eP 28 56.80 2.6  
 ZST 83.39 23 e(P) 29 01.90 7.6X  
 SRO 84.07 22 eP 29 06.30 8.5X  
 PSZ 84.40 21 e(P) 29 08.80 9.2X

SIV 84.82 118 P 29 03.30 1.4  
 MOCB 85.94 124 P 29 06.40 -1.5  
 XAN 87.11 316 P 29 14.50 1.3  
 WMQ 87.38 335 eP 29 10.00 -4.4X  
 LZH 87.90 321 eP 29 16.00 -1.1  
 1.5s 24.00nm 5.3mb

sP 29 27.00  
 SLR 153.42 56 e(PKP) 36 30.50 12.3X  
 S.D. = 1.2 on 67 of 84 obs.

& JAN 19, 1994 01h 17m 54.46s  
 34.278 N 118.564 W  
 DEPTH = 14.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.7 (GS).

FTC 0.65 336 P 18 06.73 -0.4  
 SSK 0.72 95 ePc 18 08.02 -0.4  
 RYS 0.75 299 P 18 08.75 -0.1  
 ABL 0.79 317 ePc 18 09.02 -0.5  
 PLEC 0.80 329 P 18 10.02 0.3  
 ARVC 0.87 346 P 18 10.68 -0.2

SNDC 0.89 14 P 18 12.39 1.2  
 TEJ 0.96 354 P 18 10.97 -1.3  
 MARC 0.96 319 P 18 12.57 0.1  
 WJPM 1.13 3 P 18 15.11 -0.2  
 TMB 1.14 316 P 18 15.88 0.5  
 PEC 1.23 108 ePc 18 15.98 -0.9  
 WOFM 1.26 354 P 18 17.60 0.0  
 WBSM 1.30 15 P 18 18.31 0.0  
 CRGC 1.36 316 P 18 19.47 0.5  
 ISA 1.38 3 iPd 18 19.29 0.0  
 WASM 1.46 0 P 18 21.79 1.3  
 SCCM 1.48 297 P 18 20.71 0.0  
 BCH 1.54 306 ePd 18 21.48 -0.1  
 WSHM 1.61 33 P 18 22.44 -0.1  
 NMC 1.65 19 P 18 25.46 2.3  
 TOW 1.66 23 P 18 23.69 0.4  
 PLM 1.69 123 eP 18 23.37 -0.5  
 GSC 1.77 54 eP 18 23.48 -1.4  
 RCWM 1.83 24 P 18 25.77 0.0



19d 01h

WLHM 1.88 6 P 18 26.79 0.1  
PHAM 2.16 316 (P) 18 27.95 -2.6  
TPNV 3.26 35 ePn 18 45.79 -0.5  
28 obs. associated

? JAN 19, 1994 01h 18m 54.07± 1.21s  
20.337 S ±26.1km 175.531 W ±20.2km  
DEPTH = 200.0km (geophysicist)  
5.0mb (11 obs.)

TONGA ISLANDS (173)

MBU 6.39 301 eP 19 41.20 -46.0X  
BKM 15.57 277 iP 22 27.50 2.9  
DZM 16.90 261 iPc 22 41.90 1.2  
CNB 34.24 237 iPd 25 23.70 0.8  
0.8s 19.00nm 4.8mb  
TOO 37.87 235 iPd 25 54.80 1.5  
0.3s 19.00nm 5.2mb  
STK 39.95 244 eP 26 11.30 0.9  
0.9s 4.50nm 4.0mb  
ASPA 46.81 256 eP 27 04.70 -1.1  
0.5s 139.30nm 5.6mb  
eS 33 34.80  
WB2 46.90 261 iPc 27 04.50 -2.0  
0.4s 38.50nm 5.2mb  
WRA 46.91 261 P 27 04.90 -1.7  
0.7s 13.30nm 4.5mb  
GUA 51.44 308 eP 27 39.70 -1.4  
0.8s 167.16nm 5.7mb  
MTN 51.48 270 iPc 27 41.20 -0.3  
0.5s 83.00nm 5.6mb  
KNA 52.96 265 iPd 27 51.70 -0.6  
0.9s 57.00nm 5.2mb  
WARB 53.08 252 eP 27 51.90 -1.3  
MBL 60.05 257 eP 28 41.30 -1.1  
0.4s 6.00nm 4.7mb  
FBA 87.60 11 eP 31 20.49 0.3  
0.8s 2.84nm 4.2mb  
pP 32 13.42 216kmX  
YKA 95.41 24 eP 31 57.20 0.9  
0.9s 0.60nm 3.9mb X  
DLF 146.02 12 ePKP 38 11.30 1.0  
CLL 148.37 350 ePKP 38 20.00 5.9X  
PRU 149.35 347 PKP 38 22.00 6.3X  
KHC 150.36 348 PKPc 38 25.00 7.7X  
1.0s 5.40nm  
Z 16s 1.10um 5.8mszX  
N 16s 0.50um  
E 16s 0.60um

GEC2 150.61 348 PKP 38 24.90 7.1X  
1.1s 3.70nm  
e 39 21.30  
S.D. = 1.5 on 16 of 21 obs.

& JAN 19, 1994 01h 24m 31.06s  
34.298 N 118.572 W  
DEPTH = 2.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).

FTC 0.63 335 P 24 43.02 -0.6  
RYS 0.73 298 P 24 45.27 -0.4  
SSK 0.73 97 eP 24 45.03 -0.7  
ABL 0.77 316 iPc 24 45.18 -1.2  
PLEC 0.78 329 P 24 46.90 0.2  
BMTc 0.84 359 P 24 46.31 -1.4  
ARVC 0.85 346 P 24 46.86 -1.3  
TEJ 0.93 354 P 24 47.25 -2.4  
MARC 0.95 318 P 24 49.08 -0.8  
LPC 0.96 282 P 24 48.93 -1.3  
WJPM 1.11 4 P 24 51.52 -1.2  
TMB 1.12 315 P 24 52.34 -0.5  
PEC 1.24 109 eP 24 53.09 -1.7  
WOFM 1.24 355 P 24 53.60 -1.3  
WBSM 1.29 16 P 24 55.09 -0.7  
CRGC 1.34 315 P 24 55.63 -0.9  
ISA 1.36 3 eP 24 55.48 -1.5  
WORM 1.42 11 P 24 58.04 0.1  
WSHM 1.60 33 P 24 59.14 -1.3  
NMC 1.64 19 P 25 01.56 0.6  
TOW 1.65 23 P 25 02.47 1.3  
PLM 1.71 123 eP 25 00.74 -1.4  
RCWM 1.81 24 P 25 05.13 1.5  
WLHM 1.86 6 P 25 05.03 0.5  
PAPM 2.80 306 P 25 14.61 -3.2  
TPNV 3.25 35 (P) 25 25.09 0.9

MEMM 3.37 355 (P) 25 26.24 0.4  
BONR 3.66 3 (P) 25 28.63 -1.5  
28 obs. associated

& JAN 19, 1994 01h 26m 54.10s  
34.307 N 118.387 W  
DEPTH = 2.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.7 (GS).

MWC 0.29 107 P 27 00.02 0.2  
QAL 0.52 329 P 27 03.84 -0.6  
SSK 0.58 99 eP 27 05.21 -0.5  
ELMC 0.66 70 P 27 06.53 -0.7  
FTC 0.70 324 P 27 07.13 -1.0  
LOK 0.72 306 P 27 07.53 -0.9  
GAV 0.78 111 P 27 08.59 -1.1  
PLEC 0.87 320 P 27 11.25 -0.2  
HYS 0.87 50 P 27 10.36 -1.2  
ABL 0.88 308 eP 27 10.12 -1.6  
eS 27 23.42  
ARVC 0.90 336 P 27 10.63 -1.3  
TEJ 0.95 345 P 27 09.76 -3.2  
ELS 1.03 129 P 27 12.85 -1.5  
HOD 1.08 60 P 27 14.00 -1.2  
PEC 1.10 112 iPd 27 13.72 -1.7  
LPC 1.11 280 P 27 13.96 -1.8  
WHVM 1.20 355 P 27 15.93 -1.4  
TMB 1.22 310 P 27 16.82 -0.8  
WBSM 1.24 9 P 27 16.75 -1.3  
SIL 1.29 88 P 27 18.44 -0.4  
ISA 1.36 357 ePd 27 18.48 -1.4  
WORM 1.39 5 P 27 19.48 -1.0  
WASM 1.43 354 P 27 20.78 -0.4  
CRGC 1.44 311 P 27 20.35 -0.9  
NMC 1.58 14 P 27 22.01 -1.2  
TOW 1.58 19 P 27 22.43 -0.8  
PLM 1.59 126 eP 27 21.42 -2.0  
WCHM 1.59 9 P 27 22.39 -1.2  
SCCM 1.60 294 P 27 22.52 -1.0  
GSC 1.64 52 eP 27 22.88 -1.1  
BCH 1.65 303 ePn 27 22.22 -2.0  
VPEM 1.70 16 P 27 26.42 1.4  
YEG 1.71 312 P 27 24.32 -0.8  
RCWM 1.75 20 P 27 24.52 -1.1  
CPM 1.82 94 P 27 28.42 1.7  
INS 1.86 101 P 27 26.94 -0.4  
BRGC 2.16 121 P 27 32.27 0.7  
PHAM 2.25 313 ePn 27 30.75 -2.1  
PHBM 2.38 325 P 27 34.56 -0.2  
PAPM 2.92 304 P 27 39.02 -3.4  
BHPM 2.99 358 P 27 48.93 5.4  
MTUM 3.04 357 ePn 27 43.58 -0.7  
TPNV 3.16 33 ePn 27 44.43 -1.4  
GLA 3.22 112 eP 27 45.69 -1.0  
MMPM 3.34 351 ePn 27 47.06 -1.5  
ePg 27 54.09  
MRMC 3.36 358 ePn 27 48.28 -0.5  
ePg 27 55.27

BHRM 3.37 317 P 27 44.36 -4.4  
BPRM 3.44 308 P 27 46.02 -3.8  
SAO 3.50 315 ePn 27 48.74 -1.8  
BONR 3.64 1 ePn 27 51.16 -1.7  
ePg 28 00.43

TNP 3.88 14 (Pn) 27 55.97 -0.3  
JTGM 3.93 315 P 28 07.34 10.6  
ARN 3.97 321 eP 27 55.04 -2.2  
COE 3.98 319 eP 27 56.56 -0.8  
CMB 4.06 337 (Pn) 27 57.09 -1.4  
KVN 4.74 3 ePn 28 07.12 -1.3  
ePg 28 20.88  
ARUT 5.30 48 ePn 28 16.18 -0.2  
ORV 5.80 335 (P) 28 21.81 -1.4  
MSU 6.53 48 (Pn) 28 33.34 -0.5  
59 obs. associated

% JAN 19, 1994 01h 27m 11.69± 0.67s  
44.474 N ± 5.8km 7.456 E ± 5.8km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.9 (GEN).

ENR 0.25 186 P 27 17.12 0.1  
S 27 20.29  
STV 0.25 202 P 27 17.01 0.0  
S 27 19.92  
PZZ 0.26 277 P 27 17.21 0.0

ROB 0.35 121 P 27 19.64 0.8  
S 27 24.42  
BHB 0.39 340 P 27 19.75 0.0  
S 27 25.03  
FIN 0.60 116 P 27 23.25 -0.6  
IMI 0.64 151 P 27 24.40 -0.3  
S 27 32.91  
S.D. = 0.5 on 7 of 7 obs.

JAN 19, 1994 01h 53m 34.90± 0.13s  
3.176 S ± 3.3km 135.970 E ± 3.5km  
DEPTH = 23.2km (geophysicist)  
6.1mb (85 obs.) 6.8Msz (63 obs.)  
IRIAN JAYA REGION, INDONESIA (196)  
Mw 6.7 (GS), 6.8 (HRV). Ms 6.7  
(BRK). Mo=2.2\*10\*\*19 Nm (PPT).  
Felt at Biak, Nabire and Timuka.  
Depth from broadband  
displacement seismograms.  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=285 Dip=52 Slip=112  
NP2: 72 43 64  
Principal Axes:  
T Plg=72 Azm=255  
P 5 360  
Comment: The focal mechanism is  
poorly controlled and  
corresponds to reverse  
faulting with a moderate  
strike-slip component. The  
preferred fault plane is not  
determined.

RADIATED ENERGY  
No. of sta: 18 Focal mech. F  
Energy 1.3±0.2\*10\*\*14 Nm  
MOMENT TENSOR SOLUTION  
Dep 29 No. of sta: 9  
Moment Tensor; Scale 10\*\*19 Nm  
Mrr= 1.12 Mtt=-1.15  
Mff= 0.03 Mrt=-0.48  
Mrf= 0.37 Mtf=-0.57  
Principal axes:  
T Val= 1.39 Plg=65 Azm=234  
N 0.03 24 74  
P -1.42 7 340  
Best Double Couple:Mo=1.4\*10\*\*19  
NP1:Strike= 45 Dip=43 Slip= 53  
NP2: 271 57 119  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 58S, \*\*C M.W.: 49S, 99C  
Centroid Location:  
Origin Time 01:53:44.1 0.1  
Lat 3.05S 0.01 Lon 135.91E 0.01  
Dep 33.0 0.3 Half-duration 5.9  
Moment Tensor; Scale 10\*\*19 Nm  
Mrr= 1.10 0.01 Mtt=-1.13 0.01  
Mff= 0.03 0.01 Mrt=-0.82 0.02  
Mrf= 0.23 0.02 Mtf=-0.40 0.00  
Principal Axes:  
T Val= 1.45 Plg=66 Azm=217  
N 0.01 17 83  
P -1.46 16 348  
Best Double Couple:Mo=1.5\*10\*\*19  
NP1:Strike= 54 Dip=32 Slip= 57  
NP2: 272 63 109

MNDI 8.21 111 eP 55 36.00 0.1  
eS 56 10.00  
MDG 10.00 102 eP 56 03.80 3.5X  
MTN 10.73 206 eP 56 12.20 1.8  
LAT 11.52 108 eP 56 22.90 1.8  
PMG 12.72 120 eP 56 37.00 -0.3  
KNA 14.37 209 iPd 56 57.40 -1.6  
iS 58 33.50  
DAV 14.55 315 iPc+ 57 05.00 3.7X  
2.0s 9882.35nm 7.0mb  
BIP 14.91 319 ePc 57 08.80 2.7  
CTB 15.63 311 eP 57 18.00 2.6  
RAB 16.19 94 iP 57 24.00 1.3  
iS 00 32.00  
PCI 16.28 278 ePc 57 33.00 9.2X  
MKS 16.58 262 iPd 57 32.60 5.0X  
1.0s 10.50nm 3.9mb X  
WB5 16.67 185 eP 57 24.50 -4.3X  
i 57 26.50  
WB2 16.74 185 iPc 57 25.50 -4.1X



	N	18s	71.40um			
	E	19s	58.20um			
			S	08	10.00	
MBU		44.14	111 eP	01	47.60	3.8X
XAN		44.95	328 ePc	01	50.93	0.8
		1.4s	350.00nm			6.1mb
Z		30s	104.00um			6.6MsZ
N		18s	93.10um			
E		18s	24.20um			
			epPd	01	59.79	30kmX
			PP	03	34.00	
			S	08	23.00	
			ScS	11	48.00	
CD2		45.74	320 Pd	01	57.50	1.1
		1.4s	510.00nm			6.3mb
Z		16s	22.50um			6.2MsZ
N		15s	42.70um			
			isP	02	15.00	
			iPP	03	42.50	
			iS	08	34.00	
			SS	11	53.00	
TIY		46.17	334 Pd	01	59.40	-0.4
		1.2s	110.00nm			5.7mb
Z		20s	118.00um			6.8MsZ
N		18s	46.40um			
E		17s	45.90um			
			pP	02	12.00	46kmX
			PP	03	49.00	
			S	08	39.00	
			SS	12	00.00	
SNY		46.19	347 iPc	02	00.00	0.3
		1.5s	440.00nm			6.2mb
N		19s	68.40um			
E		16s	28.70um			
			pP	02	12.00	43kmX
			PP	03	48.00	
SAP		46.28	5 eP	02	02.00	1.6
BJI		46.69	339 eP	02	03.51	-0.2
		1.6s	540.00nm			6.3mb
N		20s	199.00um			
			ed	02	12.70	31kmX
			esP	02	16.00	
			ePP	03	53.00	
			S	08	50.00	
			sS	09	10.00	
			SS	12	10.00	
CN2		47.71	350 Pc	02	10.40	-1.4
		0.8s	120.00nm			6.0mb
Z		20s	68.20um			6.6MsZ
N		18s	58.90um			
E		18s	26.20um			
			epP	02	21.00	37kmX
			ePP	04	00.00	
			S	08	58.00	
MDJ		47.92	354 Pc	02	12.50	-0.9
		1.0s	460.00nm			6.5mb
Z		22s	52.80um			6.5MsZ
N		18s	59.30um			
E		18s	30.90um			
			eS	09	12.00	
HHC		49.16	336 Pc	02	23.00	-0.2
		1.6s	400.00nm			6.2mb
Z		20s	150.00um			7.0MsZ
N		20s	113.00um			
E		20s	90.80um			
			pP	02	36.00	48kmX
			S	09	28.00	
LZH		49.26	325 eP	02	25.49	1.4
		2.0s	1660.00nm			6.7mb
Z		23s	72.10um			6.6MsZ
E		20s	64.20um			
			epP	02	32.36	23kmX
			sP	02	38.00	
			PP	04	18.00	
			iS	09	22.00	
			SS	12	52.00	
BTO		49.61	334 iPc	02	27.00	0.4
		1.2s	95.00nm			5.7mb
N		18s	84.10um			
E		18s	41.50um			
			sP	02	39.00	
			S	09	30.00	
			SS	13	02.50	
YSS		50.33	6 ePc	02	31.68	-0.2
			epPd	02	38.97	24kmX
			iS	09	44.00	



[illegible]



19d 02h

					E 20s 11.63um					eSS 28 35.00									
VGB	101.54	44	ePdiff07	27.22	0.5	VRI	105.62	317	ePdiff07	44.50	-0.3	CLL	112.57	325	ePdiff08	19.00	3.5X		
ORV	101.68	50	ePdiff07	21.39	-6.0X	GSC	105.87	54	ePdiff07	47.56	1.3	CLL	112.57	325	ePKP	12	10.00	-1.0	
Z	22s		16.00um		6.5Msz	TPNV	106.09	53	ePdiff07	49.61	2.3		1.5s		40.00nm				
			ePP	11	25.39		Z	20s		12.10nm		6.0mb	Z	20s		46.00um		7.1Msz	
			iSKS	18	02.39	MLR	106.24	317	ePdiff07	40.00	-7.7X		PTJ	112.84	319	ePKP	12	09.90	-1.9
			eS	19	00.39	BOCA	106.38	239	ePdiff07	43.20	-5.3X		ZAG	112.85	319	ePKP	12	12.50	0.8
			eSP	20	25.39	BOCA	106.38	239	(Pdiff07	47.35	-1.2		KHC	113.13	323	PKP	12	12.00	-0.2
			iPS	20	42.39		1.5s		31.89nm		6.1mb			1.0s		5.40nm			
			eSS	26	13.39	UPP	106.66	332	iPdiff07	48.10	-0.9		GEC2	113.17	323	Pdiff	08	17.90	-0.5
			eLQ	34	59.39				iPP	12	26.00			0.9s		0.87nm			
ORV	101.68	50	ePdiff07	27.85	0.5				iSKS	18	26.00					e	08	22.20	
ORV	101.68	50	ePdiff07	37.24	9.9X				iSKKS	19	42.00					e	08	25.30	
Z	21s		25.00um		6.7Msz				iPKKP	21	26.00					e	08	36.00	
			ePP	11	42.24				i	27	18.00					e	08	50.20	
			eS	19	20.24	MCMT	107.18	44	ePdiff07	57.20	5.1X				e	12	10.80		
			eSP	20	48.24	TNR	107.35	317	ePKPc	12	07.00	5.6X			e	12	12.90		
			ePS	20	54.24	ARUT	108.17	51	(Pdiff07	53.77	-2.8				e	12	15.30		
			eSS	26	38.24	DUG	108.19	49	PKP	12	10.00	6.7X			e	12	25.70		
			eLQ	35	27.24		Z	20s		26.13um		6.8Msz			e	12	59.70		
			eLR	40	18.24	HFS	108.33	334	ePdiff07	54.60	-1.9				e	13	17.50		
YKA	101.71	27	ePdiff07	25.40	-1.5		0.5s		1.30nm		5.4mb				e	13	21.30		
	0.9s		11.70nm		5.5mb	NRA0	108.98	335	PKP	11	50.50	-13.4X	GEC2	113.17	323	e(PKP)	12	10.70	-1.7
COE	101.75	53	ePdiff07	28.86	1.1	NRE0	108.98	335	Pdiff	08	05.80	6.5X		0.7s		2.80nm			
MHC	101.77	53	ePdiff07	26.19	-1.8				PP	12	47.20		GEC2	113.17	323	e(PKP)	12	16.00	3.6X
Z	20s		24.00um		6.7Msz				PPP	14	54.70			0.6s		9.30nm			
			ePP	11	38.19				SKS	18	44.60		KMR	113.22	322	ePKP	12	12.00	-0.4
			iSKS	18	05.19				S	20	16.60					iPP	13	04.10	
			eS	19	12.19				PS	22	02.20					ePKP	12	12.37	-0.9
			eSP	20	34.19				SS	27	47.90					ePKP	12	13.40	0.2
			iPS	20	44.19				SSS	33	15.80					23.00nm			
			eSS	26	14.19								Z	21s		39.00um		7.0Msz	
			eLQ	35	09.19											ePP	13	02.70	
			eLR	38	38.19											ePKKP	23	06.70	
ARN	101.86	53	ePdiff07	28.35	0.1	SPC	109.02	321	ePdiff08	04.60	4.5X					(Pdiff08	20.00	-0.8	
KAF	101.92	333	iPdiff07	25.80	-2.1	SPC	109.02	321	e(PKP)	12	16.30	11.7X				ePKP	12	12.50	-1.0
	0.7s		10.40nm		5.6mb				e(PP)	12	38.20					ePP	13	09.50	
SAO	101.98	53	ePdiff07	17.00	-11.8X	DAU	109.31	48	ePdiff08	02.17	0.4					eSP	22	40.00	
Z	21s		30.00um		6.8Msz	VAY	109.57	313	iPdiff08	05.40	3.0X					e	23	48.00	
			ePP	11	37.00				iPP	12	41.40								
			eSKS	18	02.00	PSZ	109.63	320	e(PKP)	12	06.00	0.3							
			eS	19	13.00	SRU	110.15	49	ePdiff08	06.28	0.9								
			eSP	20	31.00	SKO	110.23	314	ePdiff08	05.00	-0.4								
			iPS	20	47.00				e	08	37.00								
			eSS	26	18.00	SKO	110.23	314	iPKP	12	05.50	-1.4							
			iLQ	35	09.00	Z	20s		15.72um		6.6Msz								
			eLR	39	52.00				iPP	12	52.00								
									i	12	57.00								
									iPS	22	06.00								
									eSS	28	46.00								
									eSSS	32	36.00								
									LR	06	31.00								
SAO	101.98	53	Pdiff	07	40.00	11.2X													
	Z	21s		29.49um		6.8Msz	SRO	110.67	320	ePdiff08	07.30	0.1							
CMB	102.70	52	ePdiff07	29.31	-2.7		SRO	110.67	320	ePKP	12	05.80	-1.7						
	Z	21s		16.00um		6.5Msz			i	12	49.80								
			ePP	11	41.31														
			iSKS	18	10.31														
			iS	19	19.31														
			eSP	20	45.31														
			iPS	20	58.31														
			eS	26	30.31														
			iLQ	35	24.31														
			eLR	39	48.31														
RES	102.74	12	ePdiff07	31.00	-0.3		TUC	111.28	57	PKP	12	20.00	10.7X						
	1.0s		8.00nm		5.4mb		Z	21s		36.61um		6.9Msz							
BFT	102.91	243	ePdiff07	34.00	0.5		ZST	111.31	321	ePKP	12	06.30	-2.4						
NUR	103.15	332	iPdiff07	31.60	-1.7				ePS	22	17.70								
	0.6s		11.20nm		5.8mb		PV09	111.34	50	ePKP	12	08.81	-0.7						
BCH	103.22	55	ePdiff07	35.45	1.0		PV10	111.44	50	(Pdiff08	11.06	-0.2							
NEW	103.59	41	Pdiff	07	50.00	14.2X			50	ePKP	12	09.33	-0.9						
	Z	21s		39.69um		6.9Msz			321	(PKP)	12	10.00	0.4						
			ePP	11	41.31		VKA	111.78	321	10.50um		6.5MszX							
MEMM	103.87	52	(Pdiff07	40.42	3.3X				i	12	57.80								
ABL	103.96	55	(Pdiff07	38.35	0.4				i	22	13.00								
HLW	104.26	300	ePdiff07	40.00	0.9				LR	08	30.00								
			e	12	09.00														
			eSKS	17	23.50		BRG	112.21	325	ePdiff08	16.20	2.2							
			eS	18	30.00				1.8s	120.00nm									
			e	18	50.00		BRG	112.21	325	ePKP	12	10.40	0.0						
									1.8s	120.00nm									
SLR	104.47	243	ePdiff07	39.50	-0.8				Z	22s		51.00um		7.1Msz					
	0.8s		33.00nm		6.3mb				N	22s		24.00um							
	Z	22s		42.30um		6.9Msz			E	22s		33.00um							
ISA	104.48	54	ePdiff07	39.73	-0.3														
	1.7s		26.51nm		5.8mb														
	Z	20s		28.20um		6.8Msz													
CFR	104.77	316	ePdiff07	42.00	1.0		PRU	112.22	323	ePKP	12	09.00	-1.4						
DAG	105.16	354	iPdiff07	41.50	-0.5														
	0.9s		7.56nm		5.6mb				i	12	13.90								
	Z	20s		17.02um		6.6Msz			ePP	12	58.80								
	N	18s		5.50um					e	20	35.00								
									PS	22	24.00								



0.9s	86.00nm					EVAL	131.65	320	ePKP	12	49.21	1.2	WCHM	1.61	11	P	26	23.57	0.2	
	i	12	26.00			MOE	132.09	322	iPKPc	12	48.50	-0.3	BCH	1.62	304	eP	26	22.29	-1.0	
	i	13	34.00			LBNH	132.26	27	PKP	13	00.00	11.0X	GSC	1.68	53	eP	26	22.71	-1.5	
SNF	117.80	327	PKP	12	20.30	-0.7	Z	20s	27.18um			6.9Msz	VPEM	1.73	17	P	26	26.18	1.2	
DOU	117.85	327	PKP	12	19.80	-1.4	GOGA	132.47	46	PKP	13	00.00	10.3X	RCWM	1.78	21	P	26	26.60	1.0
	Z	19s	26.60um		6.9Msz	Z	19s	32.78um				7.0Msz	WLHM	1.86	3	P	26	27.96	1.0	
		PP	13	42.00		LSCT	133.58	30	PKP	13	00.00	8.4X	MTUM	3.06	358	(P)	26	46.12	2.2	
		SP	23	14.00		Z	21s	30.95um				7.0Msz	TPNV	3.20	33	eP	26	44.96	-1.0	
		PSS	30	07.00		CBN	133.71	37	ePKP	12	47.00	-4.9X	GLA	3.26	111	(P)	26	44.93	-1.8	
ORX	118.06	321	PKP	12	20.80	-1.1	LMN	133.78	20	ePKP	12	51.00	-0.8	MMPM	3.34	352	(P)	26	50.61	2.4
PCP	118.19	320	PKP	12	21.12	-1.0	CEH	134.09	40	PKP	13	00.00	7.3X	MEMM	3.39	353	(P)	26	50.39	1.9
DIX	118.21	322	ePKPd	12	22.80	0.4	Z	18s	21.34um			6.9Msz	BONR	3.66	2	(P)	26	54.49	1.9	
EKA	118.46	335	PKP	12	27.00	4.8X	PEL	135.95	147	ePKP	12	56.50	0.1	30 obs. associated						
	2.4s	10.30nm				MDZ	137.12	149	ePKP	13	04.50	5.8X	-----							
							e	15	41.70				&	JAN	19, 1994	02h	29m	53.29s		
FIN	118.55	320	e(PKP)	12	15.00	-7.8X	LPA	139.93	162	ePKP-	12	57.00	-6.6X	34.377 N					118.529 W	
FIN	118.55	320	PKP	12	20.30	-2.5	KIC	140.73	276	e(PKP)	12	57.65	-8.0X	DEPTH = 3.1km						
LSD	118.66	321	PKP	12	23.27	0.0		0.8s	55.00nm				SOUTHERN CALIFORNIA					( 43)		
ROB	118.73	320	PKP	12	21.17	-2.0	TIC	140.99	277	PKP	12	58.03	-8.1X	<PAS-P>. ML 2.7 (PAS), 2.8 (GS).						
RSP	118.74	321	PKP	12	24.09	0.9		0.8s	35.50nm				ISA	1.28	2	eP	30	16.18	-1.6	
BHB	118.87	321	PKP	12	21.76	-1.6	LIC	141.02	276	PKP	12	58.41	-7.8X	BCH	1.51	303	eP	30	20.28	-1.1
IMI	118.89	319	PKP	12	21.76	-1.7		1.0s	91.50nm				PLM	1.72	126	eP	30	22.68	-1.8	
ENR	119.05	320	PKP	12	21.90	-1.9	LKO	141.30	281	PKP	12	58.19	-8.5X	TPNV	3.17	35	ePn	30	43.85	-1.3
STV	119.11	320	PKP	12	23.55	-0.4		0.7s	39.00nm				MEMM	3.30	354	ePg	30	52.88	6.0	
PZZ	119.13	320	PKP	12	23.82	-0.2	NNA	144.07	115	iPKPc	13	09.90	-1.6	5 obs. associated						
RRL	119.14	321	PKP	12	22.81	-1.3		1.0s	125.00nm				-----							
ACO	119.45	49	iPKPc	12	24.70	0.0	ARE	146.58	127	ePKP	13	18.00	2.0	* JAN 19, 1994 02h 50m 20.77± 3.17s						
WMOK	120.38	51	PKP	12	40.00	13.4X	PSO	146.67	93	ePKP	13	17.00	0.6	32.828 S ±11.8km 68.184 W ±29.4km						
	Z	18s	33.92um		7.0Msz	MOCB	147.79	140	PKP	13	19.90	1.9	DEPTH = 10.0km (geophysicist)							
MEO	120.52	51	iPKPd	12	30.00	3.2X	LPB	149.19	130	iPKPc	13	22.50	2.2	MENDOZA PROVINCE, ARGENTINA (139)						
DLF	121.30	335	ePKP	12	31.00	3.4X		1.5s	1222.22nm				MD 3.6 (SAN).							
DCN	121.58	335	ePKP	12	31.60	3.4X	Z	24s	41.09um			7.1MszX	RTCV	1.01	343	eP	50	40.00	0.1	
TUL	122.26	49	iPKPd	12	28.80	-1.2			SS	36	44.00		ZON	1.35	342	eP	50	45.50	-0.1	
ETER	122.90	320	ePKP	12	11.79	-19.2X			LR	04	56.00				eS	51	04.50			
UYO	123.93	50	iPKPc	12	31.50	-1.9	LPZ	149.32	130	PKPc	13	22.10	1.4	FCH	1.84	254	iP+	50	51.86	-1.1
MIAR	124.46	50	ePKP	12	34.37	0.0		1.3s	522.20nm						(S)	51	15.03			
	Z	19s	26.36um		6.9Msz	Z	19s	4.13um				6.2Msz	JACH	2.04	273	iPd	50	55.61	0.0	
		e	12	48.09				PP	16	53.60			PCH	2.11	247	iP+	50	56.50	-0.1	
		e	13	29.59		BOG	150.00	86	ePKP	13	24.00	2.5			(S)	51	25.42			
		PP	14	05.97		CCH	150.12	134	PKP	13	23.30	1.8	PEL	2.13	261	iPd	50	56.99	0.1	
		ePP	14	26.46				i	13	27.20				iS	51	23.13				
		SP	24	27.47		BMG	150.82	81	iPKP	13	36.00	13.6X	CHCH	2.34	241	iP+	51	00.06	0.1	
EGRA	124.97	321	ePKP	12	36.98	1.9	MBO	151.06	294	iPKPd	13	27.70	5.2X		iS	51	30.26			
SLM	125.13	44	PKP	12	40.00	4.5X			i	13	46.30		ROCH	2.38	266	iPd	51	00.66	0.0	
	Z	18s	19.35um		6.8Msz	RSTA	151.92	170	ePKP	13	25.80	2.2		iS	51	31.97				
SLM	125.13	44	PKP	12	50.00	14.5X	SDV	152.95	77	ePKP	13	24.70	-0.9	CACH	2.39	237	iPd	51	00.77	0.0
	Z	18s	19.35um		6.8Msz	TOV	153.59	74	ePKP	13	24.20	-2.1		iS	51	31.99				
ELIZ	125.18	323	ePKP	12	37.21	1.7	PARB	153.60	177	ePKP	13	27.50	1.4	TACH	2.45	250	iP+	51	01.78	0.3
EROQ	125.23	319	ePKP	12	39.79	4.1X			e	13	38.80			iS	51	33.87				
FVM	125.30	45	PKP	12	40.00	4.1X			e	13	50.90		LCCH	2.91	256	iP	51	08.60	0.6	
	Z	19s	35.85um		7.1Msz			e	17	21.00				(S)	51	47.29				
FVM	125.30	45	PKP	12	50.00	14.1X	VAO	153.82	174	ePKP	13	26.90	0.4	LNV	2.92	247	(P)	51	10.14	2.0X
	Z	19s	35.85um		7.1Msz			e(P)	17	13.00				(S)	51	46.89				
ECRI	126.09	323	ePKP	12	37.25	-0.1	SIV	154.57	139	PKP	13	29.00	1.5	S.D. = 0.5 on 11 of 12 obs.						
ECHE	126.77	319	ePKP	12	38.21	-0.6	CAR	156.14	71	iPKPd	13	30.00	0.1	-----						
ETOR	126.81	321	ePKP	12	39.18	0.3	TRN	161.23	66	ePKP	13	37.50	2.1	JAN 19, 1994 02h 51m 36.70± 1.35s						
OXF	127.60	48	PKP	12	50.00	9.6X	TBH	161.60	66	ePKP	13	41.00	5.2X	32.932 S ±10.6km 68.025 W ±12.5km						
	Z	21s	14.94um		6.6Msz	S.D. = 1.2 on 283 of 372 obs.							DEPTH = 10.0km (geophysicist)							
EALH	127.97	317	ePKP	12	41.86	0.8	-----							MENDOZA PROVINCE, ARGENTINA (139)						
ELF	128.21	34	PKP	12	42.10	0.8	& JAN 19, 1994 02h 25m 53.65s							MD 4.2 (SAN). Felt (III) at						
GUD	128.23	322	ePKP	12	42.14	0.5	34.293 N							Mendoza.						
DLA	128.28	35	PKP	12	41.60	0.2	DEPTH = 2.9km													
EVIA	128.29	319	ePKP	12	42.14	0.4	SOUTHERN CALIFORNIA ( 43)							MDZ						
LDN	128.38	34	PKP	12	41.60	0.0	<PAS-P>. ML 3.1 (PAS), 3.0 (GS).							ZON						
EHUE	128.79	318	ePKP	12	42.73	0.0	SSK	0.63	97	ePd	26	05.37	-0.8			iS	51	57.80		
ERUA	128.95	325	ePKP	12	47.41	4.7X	RYS	0.83	295	P	26	10.88	0.7			iPd	52	03.50	-0.1	
PAB	128.98	321	ePKPc	12	44.00	1.0	ABL	0.85	311	ePd	26	09.17	-1.6			eS	52	22.70		
		iPP	14	41.50		BMTc	0.85	351	P	26	09.32	-1.4	RTCB	1.58	335	e(P)	52	05.00	0.0	
EBAN	129.39	319	ePKP	12	43.27	-0.5	ARVC	0.89	339	P	26	10.26	-1.1			(S)	52	26.50		
STS	129.42	326	ePKP	12	44.37	0.8	TEJ	0.96	348	P	26	09.60	-2.9	RTLL	1.64	347	e(P)	52	07.00	1.3
GAC	129.51	28	ePKP	12	43.50	-0.2	MARC	1.02	314	P	26	12.76	-0.9			(S)	52	28.50		
MVO	129.65	324	ePKP	12	45.00	0.8	LPC	1.07	281	P	26	13.35	-1.2	FCH	1.94	258	iP+	52	09.76	-0.6
		i	12	49.50		WJPM	1.12	358	P	26	14.10	-1.2			(S)	52	32.93			
ECOG	129.73	318	ePKP	12	48.45	3.9X	PEC	1.14	110	ePc	26	13.77	-1.8	JACH	2.18	276	eP	52	13.50	-0.1
EPLA	129.76	322	ePKP	12	44.53	0.1			iS	26	29.51				iS	52	40.75			
EGUA	129.97	317	ePKP	12	44.40	-0.5	WOFM	1.26	350	P	26	17.00	-0.8	PCH	2.20	251	eP	52	13.71	-0.1
EZAM	129.98	326	ePKP	12	49.21	4.5X	WBSM	1.27	11	P	26	17.10	-0.8			iS	52	41.98		
ELUQ	130.04	318	ePKP	12	45.61	0.6	ISA	1.37	359	eP	26	18.04	-1.6	PEL	2.24	264	iP	52	14.81	0.3
ELQJ	130.19	318	ePKP	12	45.72	0.3	WSHM	1.55	30	P	26	20.89	-1.4			iS	52	42.01		
YSNY	130.22	33	PKP	12	50.00	4.8X	SCCM	1.57	295	P	26	25.07	2.6	CHCH	2.41	245	ePd	52	17.29	0.4
	Z	21s	37.87um		7.1Msz	NMC	1.61	16	P	26	23.87	0.8			iS	52	48.69			
MTE	130.43	323	iPKPd	12	46.00	0.3	TOW	1.61	20	P	26	22.12	-1.0	CACH	2.45	241	iP	52	17.64	0.1
EHOR	130.54	319	ePKP	12	47.23	1.3	PLM	1.62	125	eP	26	20.89	-2.4			iS	52	50.56		
PTO	130.59	325	ePKP	12	47.80	1.9							ROCH	2.51	268	iPd	52	18.10	-0.3	
EPRU	131.01	318	ePKP	12	43.60	-3.3X									iS	52	50.52			
MYNC	131.14	45	PKP	13	00.00	12.8X														
	Z	19s	24.53um		6.9Msz															
EJIF	131.4																			



19d 02h

TACH 2.54 253 iP 52 19.36 0.7  
 LNV 3.01 249 iP 52 25.18 -0.1  
 (S) 53 05.10  
 LCCH 3.02 259 eP 52 25.15 -0.3  
 (S) 53 05.97  
 IHA 3.04 267 e(P) 52 27.00 1.3  
 eS 53 05.60  
 MOCB 11.83 11 P 54 26.90 -2.0  
 CCH 15.58 7 eP 55 23.00 4.7X  
 LPB 16.33 360 eP 55 30.00 1.9  
 LPAZ 16.57 360 P 55 30.80 -0.6  
 SIV 18.00 22 P 55 48.50 -0.3  
 S.D. = 1.0 on 19 of 20 obs.

& JAN 19, 1994 03h 08m 27.93s  
 61.972 N 151.066 W  
 DEPTH = 63.7km  
 SOUTHERN ALASKA ( 2 )  
 <AEIC>. ML 2.5 (AEIC).

BC3 2.35 111 eP 09 31.05 -1.7  
 BGL 2.35 111 eP 08 45.19 -1.7  
 BKG 2.35 111 iP 08 46.35 -1.7  
 eS 09 01.45  
 BM3 2.35 111 eP 09 54.34 -1.7  
 BWN 2.35 111 eP 09 02.90 -1.7  
 CCB 2.35 111 eP 09 12.12 -1.7  
 CDD 2.35 111 P 09 18.10 -1.7  
 CFI 2.35 111 eP 08 55.04 -1.7  
 CGLM 2.35 111 eP 08 43.15 -1.7  
 CKL 2.35 111 eP 08 46.11 -1.7  
 CKN 2.35 111 eP 08 44.81 -1.7  
 CKT 2.35 111 eP 08 44.81 -1.7  
 CNFM 2.35 111 eP 09 06.97 -1.7  
 CP2 2.35 111 eP 08 44.32 -1.7  
 eS 08 57.78  
 CRP 2.35 111 iPd 08 43.67 -1.7  
 eS 08 56.94  
 CUT 2.35 111 iP 08 40.34 -1.7  
 CVA 2.35 111 eP 09 11.86 -1.7  
 DDM 2.35 111 P 09 14.60 -1.7  
 DFR 2.35 111 eP 08 53.21 -1.7  
 DHY 2.35 111 eP 08 59.34 -1.7  
 FBA 2.35 111 eP 09 14.09 -1.7  
 FID 2.35 111 eP 09 05.06 -1.7  
 GHO 2.35 111 eP 08 46.53 -1.7  
 GLB 2.35 111 eP 09 18.34 -1.7  
 GLM 2.35 111 eP 09 17.75 -1.7  
 HDA 2.35 111 eP 09 13.58 -1.7  
 HIN 2.35 111 eP 09 09.08 -1.7  
 HUR 2.35 111 eP 08 47.86 -1.7  
 IL1 2.35 111 eP 09 16.64 -1.7  
 ILB 2.35 111 eP 09 16.68 -1.7  
 IM3 2.35 111 eP 09 27.88 -1.7  
 KLU 2.35 111 eP 09 04.77 -1.7  
 KNK 2.35 111 eP 08 50.37 -1.7  
 KTH 2.35 111 eP 08 52.98 -1.7  
 MCK 2.35 111 eP 08 59.03 -1.7  
 MDM 2.35 111 eP 09 15.16 -1.7  
 MLY 2.35 111 eP 09 12.57 -1.7  
 MPA 2.35 111 eP 08 54.75 -1.7  
 NCG 2.35 111 iP 08 42.77 -1.7  
 NCT 2.35 111 eP 08 54.68 -1.7  
 NKA 2.35 111 eP 08 50.91 -1.7  
 OPT 2.35 111 eP 09 06.91 -1.7  
 PAX 2.35 111 eP 09 09.73 -1.7  
 PLRM 2.35 111 eP 08 45.45 -1.7  
 PMR 2.35 111 eP 08 45.21 -1.7  
 eS 08 59.81  
 PWA 2.35 111 P 08 41.70 -1.7  
 S 08 53.70

PWL 2.35 111 eP 08 54.60 -1.7  
 RDW 2.35 111 eP 08 55.39 -1.7  
 RED 2.35 111 eP 08 55.93 -1.7  
 REF 2.35 111 eP 08 55.16 -1.7  
 RND 2.35 111 eP 08 54.85 -1.7  
 RS2 2.35 111 eP 08 55.68 -1.7  
 SKT 2.35 111 iP 08 37.56 -1.7  
 SLKM 2.35 111 eP 08 52.94 -1.7  
 SML 2.35 111 eP 08 49.49 -1.7  
 SPU 2.35 111 iP 08 44.56 -1.7  
 SUA 2.35 111 eP 08 40.63 -1.7  
 eS 08 51.67  
 TOA 2.35 111 P 09 03.00 -1.7  
 TRF 2.35 111 eP 08 52.01 -1.7  
 eS 09 11.86

TTA 2.35 111 eP 09 04.22 -1.7  
 VZW 2.35 111 eP 09 03.27 -1.7  
 61 obs. associated

& JAN 19, 1994 03h 09m 10.32s  
 34.290 N 118.534 W  
 DEPTH = 2.8km  
 SOUTHERN CALIFORNIA ( 43 )  
 <PAS-P>. ML 2.6 (PAS), 2.9 (GS).

SSK 0.70 96 eP 09 23.32 -1.0  
 ABL 0.80 315 eP 09 24.71 -1.5  
 PEC 1.21 109 eP 09 31.47 -2.0  
 ISA 1.37 2 eP 09 34.67 -1.7  
 BCH 1.56 305 eP 09 33.70 -5.4  
 PLM 1.68 123 eP 09 38.40 -2.5  
 GSC 1.74 54 eP 09 40.27 -1.5  
 BONR 3.66 3 (P) 10 11.03 1.6  
 8 obs. associated

& JAN 19, 1994 03h 23m 54.03s  
 34.324 N 118.454 W  
 DEPTH = 10.1km  
 SOUTHERN CALIFORNIA ( 43 )  
 <PAS-P>. ML 3.3 (PAS), 3.3 (GS).

SSK 0.64 100 ePc 24 05.97 -1.0  
 FTC 0.65 327 P 24 06.17 -1.0  
 RYS 0.81 294 P 24 09.03 -0.8  
 BMTC 0.82 352 P 24 08.96 -1.0  
 PLEC 0.82 322 P 24 09.50 -0.4  
 ABL 0.82 310 ePc 24 08.62 -1.5  
 TEJ 0.92 348 P 24 09.55 -2.2  
 MARC 1.00 313 P 24 12.13 -0.8  
 LPC 1.06 280 P 24 13.07 -0.9  
 WJPM 1.08 359 P 24 13.73 -0.8  
 PEC 1.16 112 ePc 24 14.38 -1.3  
 TMB 1.17 311 P 24 15.47 -0.5  
 WOFM 1.23 350 P 24 16.32 -0.6  
 WBSM 1.24 12 P 24 16.26 -0.9  
 ISA 1.34 359 eP 24 17.95 -0.7  
 WORM 1.38 7 P 24 20.02 0.7  
 CRGC 1.39 312 P 24 19.11 -0.4  
 WASM 1.41 357 P 24 19.70 -0.3  
 WSHM 1.53 31 P 24 20.14 -1.3  
 NMC 1.58 16 P 24 23.14 0.9  
 WCHM 1.59 11 P 24 24.34 1.9  
 BCH 1.59 303 ePd 24 21.16 -1.3  
 PLM 1.64 126 ePc 24 21.18 -2.0  
 GSC 1.67 54 ePc 24 22.70 -0.8  
 VPEN 1.70 18 P 24 24.60 0.5  
 RCWM 1.75 22 P 24 23.89 -0.8  
 WLHM 1.83 4 P 24 27.56 1.5  
 PHAM 2.20 314 (P) 24 32.41 1.3  
 MTUM 3.02 358 (P) 24 44.59 1.6  
 TPNV 3.18 34 eP 24 44.16 -1.0  
 GLA 3.28 112 eP 24 47.08 0.6  
 MMFM 3.31 352 (P) 24 44.77 -2.5  
 MRCM 3.34 359 (P) 24 51.22 3.7  
 MEMM 3.36 353 eP 24 48.70 1.2  
 BONR 3.63 2 (P) 24 54.64 3.0  
 CMB 4.02 338 (P) 24 59.12 2.1  
 ARUT 5.33 48 eP 25 16.43 0.7  
 MSU 6.56 49 (P) 25 37.03 3.8  
 38 obs. associated

& JAN 19, 1994 03h 31m 28.14s  
 34.306 N 118.595 W  
 DEPTH = 18.4km  
 SOUTHERN CALIFORNIA ( 43 )  
 <PAS-P>. ML 2.8 (PAS), 2.8 (GS).

FTC 0.61 337 P 31 39.40 -0.7  
 RYS 0.71 299 P 31 41.50 -0.3  
 ABL 0.75 317 eP 31 41.63 -0.9  
 SSK 0.75 97 eP 31 41.88 -0.7  
 PLEC 0.77 330 P 31 42.77 0.0  
 BMTC 0.83 360 P 31 43.02 -0.8  
 ARVC 0.84 347 P 31 43.43 -0.5  
 SNDC 0.87 16 P 31 45.36 0.9  
 TEJ 0.92 355 P 31 44.15 -1.2  
 MARC 0.93 319 P 31 45.06 -0.3  
 LPC 0.94 282 P 31 45.04 -0.7  
 TMB 1.10 315 P 31 48.41 0.0  
 WJPM 1.11 5 P 31 48.24 -0.3  
 WOFM 1.23 356 P 31 50.29 -0.2  
 WBSM 1.28 17 P 31 51.04 -0.3

CRGC 1.32 315 P 31 51.68 0.0  
 ISA 1.36 4 eP 31 51.89 -0.3  
 WASM 1.43 1 P 31 53.77 0.4  
 WSHM 1.60 34 P 31 55.04 -0.7  
 TOW 1.65 24 P 31 56.20 -0.2  
 PLM 1.73 123 eP 31 57.28 -0.4  
 GSC 1.78 56 eP 31 57.51 -0.8  
 RCWM 1.82 25 P 32 01.85 3.0  
 WLHM 1.86 7 P 32 02.12 2.5  
 TPNV 3.26 35 eP 32 18.90 -0.6

25 obs. associated

? JAN 19, 1994 03h 39m 00.81± 9.17s  
 43.232 N ±27.5km 128.964 W ±69.2km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF OREGON ( 30 )

RNO 3.86 78 P 40 01.07 -0.5  
 DBO 4.19 90 P 40 06.16 0.0  
 HSO 4.29 84 P 40 07.33 -0.4  
 KMOR 4.60 57 P 40 11.45 -0.6  
 BBOR 4.62 92 P 40 12.85 0.4  
 NLO 4.86 52 P 40 15.98 0.2  
 HBO 4.87 81 P 40 16.01 0.0  
 SSOR 4.96 69 P 40 17.13 -0.1  
 GT2 5.18 66 P 40 20.46 0.2  
 BMW 5.21 50 eP 40 19.84 -0.8  
 RVW 5.31 55 P 40 22.22 0.2  
 BPO 5.44 72 P 40 24.15 0.0  
 LVP 5.47 57 P 40 24.71 0.3  
 VLMM 5.47 63 P 40 24.60 0.1  
 TDH 5.55 66 P 40 25.58 0.0  
 MTMW 5.57 58 P 40 26.07 0.2  
 VBEM 5.61 68 P 40 26.53 0.0  
 ERK 5.63 55 P 40 26.83 0.2  
 SHW 5.63 56 eP 40 27.00 0.2  
 CDFW 5.71 57 P 40 28.03 0.2  
 ASR 6.01 58 P 40 32.24 0.2  
 LON 6.17 53 eP 40 34.20 0.0  
 RMW 6.58 48 eP 40 40.03 0.0  
 S.D. = 0.3 on 23 of 23 obs.

& JAN 19, 1994 03h 57m 51.45s  
 34.349 N 118.594 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA ( 43 )  
 <PAS-P>. ML 3.3 (PAS), 3.2 (GS).  
 Small precursor about 6 seconds  
 prior to this event.

RYS 0.69 295 P 57 59.75 -5.5  
 SSK 0.76 100 (P) 58 06.07 -0.5  
 BMTC 0.78 360 P 58 00.55 -6.6  
 ARVC 0.80 346 P 58 01.39 -6.0  
 TEJ 0.88 355 P 58 02.00 -7.1  
 MARC 0.90 317 P 58 02.94 -6.4  
 LPC 0.94 279 P 58 03.83 -6.3  
 PEC 1.27 111 (P) 58 16.17 0.1  
 eS 58 30.86  
 CRGC 1.29 314 P 58 09.81 -6.5  
 SCCM 1.43 295 P 58 17.34 -1.3  
 BCH 1.48 305 eP 58 17.70 -1.8  
 WSHM 1.57 35 P 58 14.22 -6.5  
 PLM 1.75 124 eP 58 22.25 -1.2  
 GSC 1.75 57 eP 58 21.79 -1.6  
 RCWM 1.78 26 P 58 19.79 -3.9  
 PTRM 1.86 315 P 58 23.15 -1.7  
 PHAM 2.10 316 eP 58 25.42 -2.9  
 PAMP 2.75 305 P 58 34.02 -3.8  
 LRC 2.76 314 P 58 34.18 -3.6  
 MTUM 3.00 0 ePn 58 40.68 -0.7  
 TPNV 3.22 36 ePn 58 42.60 -1.8  
 BPRM 3.28 310 P 58 41.70 -3.6  
 TNP 3.89 16 (P) 58 53.40 -0.6  
 ARUT 5.40 49 ePn 59 14.70 -0.8  
 24 obs. associated

\* JAN 19, 1994 04h 05m 49.02± 1.29s  
 32.389 S ± 5.9km 71.602 W ±11.6km  
 DEPTH = 5.0km (geophysicist)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.9 (SAN).

ROCH 0.77 140 iPd 06 04.99 0.5  
 IS 06 19.14  
 JACH 0.90 109 iP+ 06 06.74 -0.1  
 IS 06 21.45



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 (i.e., 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 ( $M_s$ ). 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  $\Delta$  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 ( $\mu m$ ) 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  $\eta$  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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19d 04h

PEL	1.08	134	iP	06 09.96	0.1	MOP	2.60	316	P	41 29.63	-2.1	SSK	0.85	100	eP	43 30.06	-0.8
			iS	06 27.37		BTW	2.74	316	P	41 31.44	-2.3	TMB	0.99	317	P	43 33.00	-0.2
LCCH	1.08	179	iPd	06 09.09	-0.8	BMSM	2.92	322	P	41 34.25	-2.1	WOFM	1.17	360	P	43 35.88	-0.3
			iS	06 25.95		BHPR	2.93	1	P	41 36.40	-0.3	WBSM	1.26	22	P	43 37.27	-0.6
SAN	1.32	144	iP	06 14.34	0.4	MTUM	2.99	0	eP	41 36.92	-0.5	ISA	1.31	8	eP	43 38.11	-0.5
			eS	06 34.21		TPNV	3.20	36	eP	41 38.94	-1.4	WASM	1.38	5	P	43 39.32	-0.3
TACH	1.38	156	iPd	06 14.60	-0.3	MMPM	3.26	354	eP	41 41.24	-0.2	WORM	1.38	16	P	43 39.02	-0.6
			iS	06 35.83		BPRM	3.29	309	P	41 38.20	-3.4	BCH	1.40	306	eP	43 38.68	-1.2
PCH	1.45	131	iPd	06 15.85	-0.4	MRCM	3.31	1	ePn	41 42.57	0.6	YEG	1.48	316	P	43 40.40	-0.6
			iS	06 37.62		BSLM	3.31	318	P	41 40.56	-1.2	WCHM	1.60	19	P	43 42.04	-0.9
PCH	1.53	144	eP	06 16.88	-0.3	MEMM	3.31	355	ePn	41 42.07	0.3	NMC	1.61	24	P	43 44.63	1.7
			iS	06 40.87		BVYM	3.32	317	P	41 39.64	-2.4	VPEM	1.74	25	P	43 47.04	2.2
LNW	1.57	174	iP	06 17.98	0.4	SAO	3.35	317	eP	41 39.15	-3.3	PMGM	1.83	306	P	43 44.88	-1.1
			iS	06 40.15		GLA	3.38	112	ePn	41 39.59	-3.3	PLM	1.84	123	eP	43 44.59	-1.7
CHCH	1.73	153	iP	06 20.00	0.0	BONR	3.59	3	ePn	41 45.59	-0.5	PHAM	2.02	317	eP	43 46.95	-1.8
			iS	06 46.47		JRRM	3.72	317	P	41 44.88	-2.7	PKEM	2.04	326	eP	43 47.63	-1.5
CACH	1.92	154	iP+	06 23.31	0.5	CBO	3.74	318	P	41 47.29	-0.6	CTM	2.06	320	P	43 48.88	-0.5
			iS	06 53.35		ARN	3.83	322	eP	41 46.06	-3.2	WKR	2.07	315	P	43 49.20	-0.3
RTCB	2.55	70	eP	06 32.50	0.7	COE	3.84	320	ePn	41 46.69	-2.6	PSTM	2.15	317	P	43 49.68	-0.9
			S	07 10.00		JUCM	3.87	314	P	41 46.22	-3.5	PCRM	2.23	321	P	43 50.43	-1.3
RTLL	2.87	69	eP	06 34.50	-1.8	TNP	3.87	16	ePn	41 49.68	-0.3	PTV	2.40	317	P	43 52.80	-1.3
			S	07 13.00		MHC	3.88	321	eP	41 47.86	-2.2	PHCM	2.40	304	P	43 52.84	-1.3
RTRS	2.87	40	eP	06 37.00	0.7	CMB	3.95	339	eP	41 49.61	-1.3	PSAM	2.44	313	P	43 53.10	-1.6
			S	07 15.00		JSMM	4.08	315	P	41 50.22	-2.5	PRCM	2.45	321	P	43 54.22	-0.7
CFA	2.96	76	e(P)	06 37.80	0.2	BKS	4.59	321	eP	41 56.95	-3.1	PAPM	2.67	306	P	43 55.50	-2.6
S.D. = 0.7 on 15 of 15 obs.						KVN	4.70	4	ePn	42 01.67	0.0	SHG	2.92	315	P	43 59.11	-2.4
-----																	
& JAN 19, 1994 04h 31m 56.47s																	
34.380 N 118.539 W																	
DEPTH = 3.4km																	
SOUTHERN CALIFORNIA ( 43)																	
<PAS-P>. ML 2.9 (PAS), 2.8 (GS).																	
SSK	0.72	103	eP	32 10.08	-0.8	NTYM	5.20	322	eP	42 05.13	-3.5	MTUM	2.98	2	eP	44 02.75	0.1
ABL	0.73	310	ePd	32 10.02	-1.1	ARUT	5.38	49	ePn	42 10.04	-1.3	CLKR	3.22	358	P	44 07.25	1.1
PEC	1.24	113	ePc	32 18.47	-1.7	ORV	5.69	337	eP	42 13.47	-2.1	BSRM	3.24	316	P	44 03.92	-2.3
ISA	1.28	2	ePd	32 19.61	-1.3	LMEM	6.61	340	(P)	42 28.60	-0.1	TPNV	3.26	37	ePn	44 05.31	-1.3
BCH	1.50	303	eP	32 23.53	-0.9	MSU	6.61	49	eP	42 27.96	-0.9	SAO	3.27	318	(P)	44 03.69	-2.9
GSC	1.70	57	eP	32 26.18	-1.0	TUC	6.83	105	ePn	42 29.04	-2.7	MEMM	3.30	357	ePn	44 08.55	1.6
PLM	1.73	126	eP	32 25.75	-2.0	WDC	6.96	334	eP	42 30.37	-3.1	MRCM	3.30	3	eP	44 08.10	0.9
MTUM	2.97	360	(P)	32 47.58	2.1	LGPM	7.36	334	(P)	42 37.49	-1.6	HCOM	3.51	317	P	44 07.86	-2.0
TPNV	3.17	35	eP	32 48.09	-0.2	DUG	7.41	37	ePn	42 39.37	-0.5	BONR	3.60	5	(Pn)	44 11.05	-0.4
MMPM	3.25	353	(P)	32 50.86	1.3	LBFM	7.45	340	(P)	42 40.01	-0.5	TNP	3.90	18	(Pn)	44 16.52	0.8
MEMM	3.30	354	(P)	32 48.70	-1.2	KMPM	7.49	325	eP	42 38.82	-2.0	CMB	3.91	340	ePn	44 14.78	-0.8
11 obs. associated																	
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& JAN 19, 1994 04h 40m 47.99s																	
34.360 N 118.571 W																	
DEPTH = 2.6km																	
4.1mb ( 4 obs.)																	
SOUTHERN CALIFORNIA ( 43)																	
<PAS-P>. ML 4.3 (PAS), 4.5 (GS),																	
4.5 (BRK). Mo=3.2*10**15 Nm																	
(BRK). Felt.																	
ABL	0.73	313	iPc	41 01.55	-1.0	PV09	8.65	59	eP	42 57.21	-0.2	43 obs. associated					
PLEC	0.73	326	P	41 02.38	-0.2	PV10	8.67	60	eP	42 56.83	-0.8	JAN 19, 1994 04h 47m 56.52± 0.39s					
SSK	0.74	101	eP	41 01.85	-1.0	HVU	8.70	30	ePn	42 58.11	0.2	40.462 N ± 4.0km 20.617 E ± 3.8km					
TEJ	0.87	354	P	41 03.17	-2.3	PV08	9.03	59	eP	43 02.39	-0.3	DEPTH = 10.0km (geophysicist)					
LPC	0.95	279	P	41 05.77	-1.2	VGB	11.27	352	(P)	43 33.09	0.0	GREECE-ALBANIA BORDER REGION (392)					
TMB	1.08	313	P	41 08.23	-0.7	MCMT	11.34	21	eP	43 37.60	3.3	ML 3.8 (THE), 3.6 (TTG), 3.4					
WBSM	1.23	17	P	41 10.46	-1.2	LNOR	11.50	1	P	43 41.01	4.8	(TIR). MD 3.8 (ATH).					
PEC	1.26	111	iPc	41 10.18	-1.9	ASR	12.00	350	P	43 45.86	2.8	LSK	0.31	182	iPg	48 02.10	-0.9
ISA	1.30	4	ePd	41 11.56	-1.3	LON	12.62	350	(P)	43 50.17	-1.1				iSg	48 07.90	
WASM	1.38	0	P	41 13.07	-1.1	EBG	12.63	354	P	43 54.39	3.0	FNA	0.66	61	ePg	48 08.12	-1.6
SCCM	1.44	294	P	41 13.56	-1.6	FMW	12.78	350	P	43 56.72	3.2				eSg	48 18.48	
YEG	1.57	314	P	41 15.50	-1.4	RMW	13.31	350	(P)	44 00.79	0.3	OHR	0.66	12	iPg	48 08.10	-1.7
WCHM	1.57	15	P	41 16.03	-1.2	WTV	13.37	356	P	44 03.85	2.6		0.6s	2780.00nm			
TOW	1.59	24	P	41 16.13	-1.1	LTX	13.62	108	eP	44 02.61	-2.1				iSg	48 18.00	
VPEM	1.70	21	P	41 18.07	-0.8	RSSD	14.87	45	(P)	44 20.98	-0.2	SRN	0.75	219	iPg	48 08.10	-3.1
PLM	1.74	125	iPc	41 16.90	-2.6		0.8s	4.92nm							iSg	48 19.00	
PTRM	1.87	314	P	41 20.20	-1.0	ACO	15.99	76	iPd	44 39.10	3.6	VLO	0.86	271	iPg	48 13.90	0.9
PAGM	1.94	315	P	41 21.69	-0.6	MEO	16.47	83	iPc	44 43.60	1.9				iSg	48 26.80	
PMCM	2.01	313	P	41 20.21	-3.0	TUL	18.69	79	iPd	45 15.80	6.4	KZN	0.89	100	ePb	48 12.00	-1.7
PHAM	2.10	315	eP	41 22.29	-2.3	UYO	19.92	84	iPc	45 28.70	4.8	IGT	0.95	193	ePg	48 16.16	1.5
PKEM	2.11	324	eP	41 23.25	-1.5	MIAR	20.60	82	eP	45 28.09	-2.9				eSg	48 32.04	
CTM	2.13	318	P	41 23.34	-1.8	ULM	22.97	39	eP	45 55.00	0.4	KEK	0.98	220	ePb	48 15.50	0.4
WKR	2.15	313	P	41 23.57	-1.8	YKA	28.27	4	eP	46 44.20	0.0	TIR	1.05	327	ePn	48 14.60	-1.8
PSTM	2.23	315	P	41 24.94	-1.5		0.7s	0.70nm							iSn	48 35.60	
PADM	2.27	305	P	41 24.72	-2.4	MBC	41.97	360	eP	48 42.50	1.1	LACI	1.36	330	iPnd	48 21.90	0.5
PCRM	2.31	319	P	41 25.88	-1.7	RES	42.02	9	eP	48 43.00	1.2				iSg	48 43.10	
PARM	2.38	323	P	41 30.82	2.2	FRB	42.31	30	eP	48 43.50	-0.7	GRG	1.44	69	ePb	48 22.52	-0.2
PSMM	2.38	316	P	41 27.27	-1.4		0.9s	4.00nm				LIT	1.48	104	iPb	48 24.08	0.9
PANM	2.38	307	P	41 26.06	-2.6	LPZ	69.55	128	P	51 57.60	-3.7				eSb	48 44.64	
PTV	2.48	315	P	41 28.11	-1.9	LPB	69.75	128	(P)	51 57.00	-5.2	SKO	1.63	22	iPn	48 26.60	1.2
PSAM	2.52	312	P	41 28.03	-2.6	SIV	74.11	123	P	52 24.80	-3.0		0.6s	690.00nm			
PRCM	2.53	319	P	41 29.07	-1.6	MOCB	74.77	130	P	52 27.90	-4.1				iPg	48 27.60	
102 obs. associated																	
-----																	
& JAN 19, 1994 04h 43m 14.52s																	
34.365 N 118.708 W																	
DEPTH = 12.3km																	
SOUTHERN CALIFORNIA ( 43)																	
<PAS-P>. ML 4.1 (PAS), 4.1 (GS).																	
FTC	0.53	343	P	43 24.30	-0.9	ABL	0.64	319	iPd	43 26.27	-1.1	THE	1.80	84	iPb	48 27.60	-0.2
ABL	0.64	319	iPd	43 26.27	-1.1	LPC	0.84	279	P	43 29.79	-0.8				eSb	48 51.20	
LPC	0.84	279	P	43 29.79	-0.8	SNDC	0.85	23	P	43 30.34	-0.4				Lg	48 52.50	



19d 04h

SDA	1.80	332	ePn	48	29.30	1.5
ULC	1.82	326	iPnd	48	28.47	0.3
			iSn	48	55.47	
KNT	1.87	67	ePb	48	28.92	0.1
AGG	1.95	137	ePn	48	31.68	1.6
SOH	2.11	79	ePn	48	32.60	0.2
PVY	2.19	347	iPnd	48	35.32	1.8
			iSn	49	07.32	
TTG	2.21	333	iPnd	48	34.33	0.5
			iSn	49	06.05	
BDV	2.26	324	iPnd	48	34.30	-0.3
			iSn	49	05.61	
SRS	2.35	73	ePn	48	35.76	-0.1
			eSn	49	03.76	
PAIG	2.41	102	ePn	48	36.32	-0.2
			eSn	49	06.40	
IVA	2.47	348	iPnd	48	39.21	1.7
			iSn	49	14.12	
HCY	2.54	322	iPnd	48	37.97	-0.5
			iSn	49	11.85	
OUR	2.57	92	iPn	48	38.68	-0.2
NKY	2.64	333	ePn	48	40.39	0.4
			iSn	49	16.17	
BRY	2.89	328	iPnd	48	43.55	0.0
			iSn	49	21.55	
PLE	3.01	343	iPnd	48	46.36	1.2
			iSn	49	26.53	
ATH	3.46	135	ePn	48	53.80	2.3X
RDO	3.80	78	ePn	48	55.50	-0.8
HVAR	4.13	312	ePn	48	58.80	-2.2
VLI	4.16	153	ePn	49	03.00	1.6
MLR	6.37	36	eP	49	35.00	2.2X
GEC2	9.72	332	Pn	50	17.70	-1.7
	0.4s		e	50	20.80	
			e	50	25.30	
			e	50	31.20	
			e	53	36.50	

S.D. = 1.3 on 35 of 37 obs.

& JAN 19, 1994 04h 57m 30.13s  
34.354 N 118.570 W  
DEPTH = 2.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).

ABL	0.73	313	eP	57	43.52	-1.2
SSK	0.74	101	eP	57	43.89	-1.0
PEC	1.26	111	eP	57	52.41	-1.7
ISA	1.31	3	eP	57	53.94	-1.1
BCH	1.50	304	eP	57	53.29	-4.8
GSC	1.73	56	eP	57	58.56	-2.9
PLM	1.74	125	eP	57	55.57	-6.0
TPNV	3.21	35	(P)	58	25.29	2.8

8 obs. associated

\* JAN 19, 1994 04h 59m 55.91± 0.48s  
49.065 N ± 5.4km 103.580 E ± 8.4km  
DEPTH = 33.0km (normal)  
4.5mb (11 obs.)  
MONGOLIA (334)

ZAK	1.33	352	iPgc	00	18.80	0.5
			eSg	00	37.30	
MOY	3.10	329	iPgc	00	44.00	0.4
MOY	3.10	329	ePgc	00	48.90	5.3X
			iSg	01	29.80	
IRK	3.24	8	ePc	00	46.50	0.8
	0.6s				110.00nm	
			ePg	00	51.90	
ORL	4.19	327	eP	01	08.60	9.4X
			eSg	02	01.80	
CIT	7.03	62	eP	01	39.00	-0.2
			ePg	02	02.00	
			eSg	03	39.00	
NIZ	7.65	26	eP	01	48.00	0.2
			ePg	02	16.30	
			eSg	04	01.00	
KMO	8.26	31	eP	02	00.50	4.2X
			iPg	02	27.50	
			iSg	04	19.40	
BTO	9.62	149	eP	02	16.00	0.9
	0.9s				36.00nm	5.6mb X
			eS	04	03.00	
HHC	9.97	143	Pd	02	19.20	-0.8
GTA	10.02	197	eP	02	18.50	-2.2
	1.0s				6.00nm	4.8mb

WMQ	12.14	250	eP	02	51.00	1.5
			S	05	10.50	
BJI	12.72	130	eP	02	55.00	-2.0
	Z	16s			2.63um	
	N	10s			1.24um	
			eLg	06	33.00	
LZH	12.97	179	eP	03	02.50	1.8
					32.00nm	5.2mb
	Z	20s			3.97um	3.9MsZ
	E	10s			1.71um	
			pP	03	07.00	
			SS	05	30.00	
TIY	13.03	147	eP	03	03.40	2.1
	E	15s			1.39um	
XAN	15.53	163	P	03	34.50	0.5
	1.0s				27.00nm	4.4mb
			pP	03	41.70	
SNY	15.76	110	eP	03	41.20	4.3X
TIA	16.22	137	eP	03	46.00	3.2X
YAK	19.49	39	eP	04	37.50	14.8X
	1.7s				286.00nm	
			e	09	39.00	
			e	10	07.00	
			i	10	56.00	
LSA	21.54	211	P	04	47.80	3.1X
	1.0s				10.00nm	4.2mb
GYA	22.70	173	iPd	05	00.00	4.2X
	1.0s				13.00nm	4.4mb
GQP	38.35	150	iPd	07	14.50	-0.9
KAF	42.87	318	eP	07	51.00	-1.2
HFS	49.25	319	eP	08	41.10	-1.6
	0.8s				12.50nm	5.0mb
NB2	49.85	320	P	08	47.00	-0.4
	0.8s				5.50nm	4.6mb
FBA	53.72	30	eP	09	17.76	1.4
	0.8s				2.87nm	4.3mb
YKA	64.72	19	eP	10	31.70	-0.8
	0.7s				1.80nm	4.3mb
WRA	73.96	150	P	11	34.00	4.4X
	0.8s				0.60nm	3.6mb
WB2	73.96	150	iPc	11	40.40	10.8X
	0.7s				4.60nm	
ASPA	77.30	152	eP	12	08.60	20.1X
	1.1s				6.90nm	
RSSD	84.10	20	(P)	12	24.65	0.0
	0.9s				5.64nm	4.7mb

S.D. = 1.3 on 20 of 31 obs.

& JAN 19, 1994 05h 06m 51.78s  
34.364 N 118.714 W  
DEPTH = 4.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

FTC	0.53	344	P	07	01.65	-0.7
RYS	0.60	298	P	07	03.22	-0.5
ABL	0.64	319	ePc	07	03.50	-1.1
PLEC	0.67	334	P	07	04.65	-0.5
ARVC	0.77	353	P	07	05.99	-1.1
MARC	0.82	321	P	07	07.15	-1.0
SNDC	0.85	23	P	07	07.75	-0.9
SSK	0.86	100	ePc	07	07.53	-1.4
TEJ	0.86	1	P	07	07.44	-1.5
TMB	0.99	317	P	07	10.46	-0.7
WJPM	1.06	10	P	07	11.26	-1.1
WOFM	1.17	0	P	07	13.02	-1.2
CRGC	1.21	317	P	07	13.89	-1.0
ISA	1.31	9	eP	07	15.23	-1.4
SCCM	1.33	296	P	07	16.25	-0.7
PEC	1.37	110	eP	07	15.02	-2.6
WASM	1.38	5	P	07	17.00	-0.9
WORM	1.38	16	P	07	16.57	-1.3
BCH	1.39	306	eP	07	16.21	-1.9
WSHM	1.62	38	P	07	21.46	0.3
TOW	1.64	28	P	07	19.89	-1.6
VPEN	1.74	25	P	07	24.50	1.4
RCWM	1.81	29	P	07	25.44	1.5
WLHM	1.81	10	P	07	23.39	-0.9
GSC	1.83	59	eP	07	22.04	-2.2
PLM	1.84	123	eP	07	22.20	-2.4
PHAM	2.02	317	(P)	07	24.44	-2.5
PAPM	2.66	306	P	07	32.65	-3.6
MTUM	2.99	2	(P)	07	42.41	1.5
MMPM	3.25	356	(P)	07	43.74	-1.1
TPNV	3.27	37	eP	07	42.46	-2.5
MEMM	3.30	357	(P)	07	46.69	1.5
MRCM	3.31	3	(P)	07	48.99	3.5

BONR	3.60	5	eP	07	52.32	2.6
TNP	3.90	18	(P)	08	00.99	7.0
					35 obs. associated	
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& JAN 19, 1994 05h 13m 15.41s						
					34.350 N 118.608 W	
					DEPTH = 6.1km	
					SOUTHERN CALIFORNIA (43)	
					<PAS-P>. ML 2.8 (PAS), 2.8 (GS).	
ABL	0.71	315	ePc	13	28.43	-1.2
PEC	1.28	110	eP	13	38.13	-1.5
ISA	1.31	5	eP	13	38.63	-1.5
					eS	13 57.99
BCH	1.47	305	eP	13	41.01	-1.6
GSC	1.76	57	eP	13	44.90	-1.8
PLM	1.76	124	eP	13	44.27	-2.5
TPNV	3.23	36	(Pn)	14	06.81	-0.9
MMPM	3.27	354	(P)	14	07.82	-0.7
BONR	3.61	4	(P)	14	17.67	4.4
					9 obs. associated	
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& JAN 19, 1994 05h 14m 58.58s						
					34.295 N 118.459 W	
					DEPTH = 8.9km	
					SOUTHERN CALIFORNIA (43)	
					<PAS-P>. ML 3.6 (PAS), 3.6 (GS).	
SSK	0.64	97	iPc	15	10.36	-1.1
FTC	0.68	328	P	15	11.21	-0.9
RYS	0.82	295	P	15	13.64	-1.0
ABL	0.84	312	ePc	15	13.18	-1.8
ARVC	0.88	340	P	15	14.81	-0.8
TEJ	0.95	349	P	15	14.42	-2.4
MARC	1.01	314	P	15	17.00	-0.9
LPC	1.06	281	P	15	17.62	-1.1
WJPM	1.11	359	P	15	18.78	-0.9
PEC	1.15	110	ePc	15	18.79	-1.4
TMB	1.19	312	P	15	20.20	-0.7
WOFM	1.26	351	P	15	21.44	-0.7
WBSM	1.27	12	P	15	21.87	-0.5
ISA	1.37	360	ePc	15	22.95	-0.9
CRGC	1.41	313	P	15	23.84	-0.6
SCCM	1.55	295	P	15	25.86	-0.6
WSHM	1.55	30	P	15	25.04	-1.4
BCH	1.61	304	eP	15	25.74	-1.6
NMC	1.61	16	P	15	28.86	1.5
TOW	1.61	20	P	15	29.20	1.8
PLM	1.63	125	ePc	15	25.89	-1.8
RCWM	1.78	22	P	15	28.84	-1.0
WLHM	1.86	4	P	15	30.55	-0.6
PTRM	1.98	314	P	15	32.34	-0.3
PHAM	2.21	315	(P)	15	34.44	-1.6
PAPM	2.88	305	P	15	42.61	-2.9
BHPR	3.00	360	P	15	53.65	6.3
MTUM	3.05	358	eP	15	50.34	2.3
TPNV	3.20	34	eP	15	48.84	-1.4
GLA	3.27	111	eP	15	49.49	-1.6
MMPM	3.34	352	(P)	15	54.48	2.1
MRCM	3.37	359	(P)	15	56.46	3.8
MEMM	3.39	354	(P)	15	54.65	2.0
SAO	3.4					



19d 05h

COE 3.85 319 (P) 22 04.21 0.1  
8 obs. associated

\* JAN 19, 1994 06h 03m 36.24± 2.16s  
17.890 N ±17.3km 67.649 W ±23.3km  
DEPTH = 33.0km (normal)  
MONA PASSAGE ( 89)

LRS 0.86 62 iP 03 51.70 -0.3  
S 04 03.70  
APR 1.04 57 iP 03 54.50 0.0  
SUG 1.44 81 iP 04 00.80 0.5  
CPD 1.66 85 iP 04 03.00 -0.4  
LPR 1.74 76 iP 04 05.00 0.3  
S 04 26.00  
CANV 6.91 190 iPd 05 17.70 -0.2  
MORO 7.01 185 eP 05 19.80 0.5  
LLAV 7.42 174 iPc 05 24.40 -0.7  
iS 06 40.20  
OLLA 7.87 174 iPc 05 31.70 0.3  
S.D. = 0.5 on 9 of 9 obs.

& JAN 19, 1994 06h 23m 41.57s  
34.285 N 118.456 W  
DEPTH = 9.7km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 3.3 (PAS), 3.5 (GS).

SSK 0.64 96 iPc 23 53.42 -1.1  
FTC 0.69 329 P 23 54.29 -1.0  
RYS 0.82 296 P 23 57.29 -0.4  
ABL 0.85 312 ePc 23 56.71 -1.4  
PLEC 0.85 324 P 23 58.52 0.5  
ARVC 0.89 340 P 23 58.00 -0.7  
TEJ 0.96 349 P 23 57.56 -2.4  
MARC 1.02 315 P 24 00.28 -0.6  
LPC 1.06 282 P 24 00.57 -1.1  
WJFM 1.12 359 P 24 01.95 -0.8  
PEC 1.14 110 ePc 24 01.54 -1.5  
TMB 1.20 312 P 24 04.38 0.4  
WOFM 1.27 350 P 24 04.93 -0.3  
WBSM 1.28 12 P 24 05.05 -0.4  
ISA 1.38 359 ePc 24 06.04 -0.8  
CRGC 1.41 313 P 24 07.47 0.0  
WASM 1.45 357 P 24 08.86 0.8  
WSHM 1.56 30 P 24 08.25 -1.2  
BCH 1.61 304 eP 24 09.49 -0.8  
PLM 1.62 125 ePc 24 08.59 -1.9  
TOW 1.62 20 P 24 12.21 1.8  
WCHM 1.62 11 P 24 12.06 1.4  
GSC 1.70 53 ePc 24 10.63 -0.9  
VPDM 1.74 17 P 24 13.51 1.3  
RCWM 1.79 22 P 24 14.26 1.4  
WLHM 1.87 4 P 24 15.64 1.5  
PHAM 2.22 315 (P) 24 20.67 1.6  
PAGM 3.06 358 (P) 24 31.82 0.7  
TPNV 3.21 33 eP 24 31.98 -1.2  
GLA 3.27 111 (P) 24 35.76 1.8  
MMPM 3.35 352 (P) 24 39.57 4.2  
MRCM 3.38 359 (P) 24 42.76 7.1  
MEMM 3.40 354 eP 24 41.32 5.6  
BONR 3.66 2 (P) 24 45.63 5.8  
TNP 3.92 14 (P) 24 51.23 7.9  
ARN 3.95 322 (P) 24 46.01 2.4  
COE 3.95 320 (P) 24 44.54 0.9  
CMB 4.05 338 (P) 24 44.08 -1.0  
MSU 6.59 48 (P) 25 24.52 3.3  
39 obs. associated

& JAN 19, 1994 07h 14m 06.19s  
34.287 N 118.466 W  
DEPTH = 11.6km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 4.0 (PAS), 3.9 (GS).

SSK 0.64 97 iPd 14 18.21 -0.9  
FTC 0.68 329 P 14 18.61 -1.0  
ABL 0.84 312 iPd 14 20.99 -1.4  
PLEC 0.84 324 P 14 21.88 -0.5  
ARVC 0.89 340 P 14 22.43 -0.7  
MARC 1.01 315 P 14 24.48 -0.8  
LPC 1.05 282 P 14 24.64 -1.3  
WJFM 1.12 359 P 14 26.36 -0.8  
PEC 1.15 110 iPd 14 26.39 -1.2  
TMB 1.19 312 P 14 27.71 -0.6  
WOFM 1.26 351 P 14 28.94 -0.7  
ISA 1.37 360 eP 14 30.51 -0.7

eS 14 49.28

CRGC 1.41 313 P 14 30.75 -1.0  
WORM 1.42 7 P 14 31.29 -0.6  
WASM 1.45 357 P 14 32.15 -0.3  
SCCM 1.55 295 P 14 33.08 -0.6  
BCH 1.61 304 eP 14 33.49 -1.1  
NMC 1.62 16 P 14 35.66 0.9  
TOW 1.62 21 P 14 34.45 -0.3  
WCHM 1.62 11 P 14 34.04 -1.0  
PLM 1.63 124 iPc 14 33.16 -1.8  
YEG 1.68 313 P 14 34.86 -0.8  
GSC 1.70 53 iPc 14 35.26 -0.7  
RCWM 1.79 22 P 14 36.16 -1.1  
WLHM 1.87 4 P 14 38.09 -0.4  
PTRM 1.98 314 P 14 39.06 -0.9  
PMGM 2.04 305 P 14 38.97 -1.8  
PAGM 2.05 315 P 14 44.41 3.4  
PMCM 2.12 313 P 14 40.72 -1.3  
PHAM 2.21 315 eP 14 41.39 -1.9  
PKEM 2.22 323 (Pn) 14 41.64 -1.8  
PSTM 2.34 315 P 14 44.11 -1.1  
PHBM 2.36 326 P 14 47.29 1.9  
PADM 2.39 305 P 14 43.61 -2.2  
PARM 2.49 322 P 14 49.95 2.8  
PANM 2.50 307 P 14 45.12 -2.2  
PTV 2.59 315 P 14 50.86 2.2  
PSAM 2.64 312 P 14 47.14 -2.2  
PJLM 2.84 310 P 14 50.66 -1.6  
LRC 2.88 314 P 14 50.00 -2.7  
PAPM 2.88 305 P 14 49.84 -2.9  
BHPR 3.01 360 P 15 01.39 6.6  
BMSM 3.03 322 P 14 53.00 -2.0  
MTUM 3.06 359 ePn 14 55.36 -0.1  
BAPM 3.21 307 P 14 56.04 -1.5  
TPNV 3.21 34 ePn 14 56.65 -1.0  
BCWM 3.24 309 P 14 55.91 -2.1  
GLA 3.28 111 eP 14 56.11 -2.3  
ORC 3.34 357 P 15 06.84 7.2  
MMPM 3.35 352 ePn 14 58.85 -0.9  
MRCM 3.38 359 (Pn) 14 59.88 -0.2  
MCSM 3.38 354 P 15 06.09 6.0  
MEMM 3.39 354 ePn 14 59.48 -0.5  
BPRM 3.40 309 P 14 57.15 -3.1  
SAO 3.47 316 eP 14 58.64 -2.4  
FRP 3.48 316 P 14 58.74 -2.6  
DIL 3.63 315 P 15 00.65 -2.8  
BONR 3.66 2 ePn 15 04.95 0.8  
JBZM 3.84 316 P 15 04.53 -1.8  
TNP 3.92 15 ePn 15 07.98 0.3  
ARN 3.94 322 eP 15 06.61 -1.3  
COE 3.95 320 ePn 15 05.98 -1.9  
CMB 4.05 338 ePn 15 08.50 -0.9  
LT3 4.25 315 P 15 10.02 -2.2  
HMR 4.71 326 (P) 15 16.82 -1.9  
NTYM 5.31 322 eP 15 25.05 -2.2  
ARUT 5.36 48 eP 15 27.76 -0.4  
ORV 5.79 336 (P) 15 32.56 -1.4  
MSU 6.60 48 eP 15 45.88 0.2  
DUG 7.42 36 ePg 16 24.71 27.6  
SRU 7.99 51 eP 16 05.79 0.7  
PV09 8.62 58 ePn 16 14.86 0.9  
YKA 28.33 4 eP 20 03.40 1.8  
0.6s 0.20nm 3.1mb  
73 obs. associated

& JAN 19, 1994 07h 29m 34.69s  
34.249 N 118.540 W  
DEPTH = 3.6km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 2.5 (PAS), 2.7 (GS).

SSK 0.70 93 iPc 29 47.94 -0.8  
ABL 0.82 317 eP 29 49.36 -1.7  
PEC 1.20 107 eP 29 55.88 -1.8  
eS 30 12.41  
ISA 1.41 2 eP 29 59.79 -1.5  
BCH 1.58 307 eP 30 02.07 -1.6  
PLM 1.66 122 eP 30 02.72 -2.2  
GSC 1.77 53 eP 30 06.27 -0.2  
TPNV 3.28 34 (Pn) 30 27.55 -0.5  
BONR 3.70 3 ePg 30 43.10 8.8  
9 obs. associated

\* JAN 19, 1994 07h 37m 07.59± 0.44s  
20.357 S ±16.8km 175.280 W ± 8.7km  
DEPTH = 123.6km ( 4 depth phases)  
5.0mb ( 16 obs.)

TONGA ISLANDS (173)

BKM 15.81 277 iP 40 50.50 5.9X  
DZM 17.13 261 iPc 41 05.40 4.5X  
PMO 26.61 83 eP 42 35.90 -0.4  
1.5s 360.40nm 5.7mb  
VAH 26.79 84 eP 42 36.40 -1.6  
1.4s 115.90nm 5.3mb  
TPT 26.87 83 eP 42 38.40 -0.3  
1.3s 166.10nm 5.5mb  
RUV 27.04 84 eP 42 39.70 -0.5  
1.3s 127.80nm 5.3mb  
CNB 34.43 237 iPc 43 46.10 0.9  
0.8s 57.00nm 5.4mb  
TOO 38.05 235 iPc 44 16.50 0.9  
0.4s 13.00nm 5.1mb  
STK 40.15 244 eP 44 33.10 0.1  
1.3s 2.90nm 3.9mb X  
WB2 47.13 261 iPc 45 27.70 -1.7  
0.7s 25.30nm 5.1mb  
WRA 47.15 261 P 45 28.40 -1.1  
0.7s 10.80nm 4.7mb  
MTN 51.72 269 eP 46 05.60 1.1  
0.9s 148.00nm 5.9mb  
WARB 53.30 252 eP 46 15.10 -1.0  
MBL 60.28 257 eP 47 03.80 -1.8  
CSY 65.19 205 eP 47 38.60 1.4  
0.9s 19.70nm 5.0mb  
TUC 80.90 51 iPc 49 12.14 2.5  
0.8s 5.79nm 4.4mb  
pP 49 42.91 120km  
MDJ 81.89 324 eP 49 14.50 0.1  
CN2 83.76 321 eP 49 24.60 0.6  
1.0s 13.00nm 4.8mb  
SRU 84.60 45 eP 49 29.74 1.2  
pP 50 02.09 126km  
LTX 84.84 56 eP 49 29.93 0.1  
pP 50 01.73 124km  
PV08 85.59 46 (P) 49 34.79 1.1  
pP 50 06.90 125km  
FBA 87.58 11 eP 49 40.34 -2.0  
1.0s 3.53nm 4.3mb  
BJI 87.60 314 eP 49 43.50 0.6  
1.5s 14.00nm 4.8mb  
2 14s 0.59um 5.1mszX  
XAN 90.09 306 P 49 55.50 0.6  
1.0s 8.90nm 4.8mb  
pP 49 56.70 4kmX  
YKA 95.33 24 eP 50 17.60 -0.7  
0.7s 0.50nm 4.0mb  
CLL 148.43 350 iPKPc 56 41.00 3.9X  
BRG 148.69 349 iPKP 56 41.60 4.1X  
0.8s 12.00nm  
GRF 150.27 351 ePKP 56 45.50 5.5X  
GEC2 150.68 348 PKP 56 46.60 5.9X  
0.7s 3.61nm  
e 56 48.30  
e 56 51.30  
S.D. = 1.2 on 23 of 29 obs.

? JAN 19, 1994 07h 39m 26.31± 0.94s  
44.344 N ±10.4km 7.303 E ±10.1km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.0 (GEN).

STV 0.10 171 P 39 29.18 0.1  
S 39 31.02  
ENR 0.14 144 P 39 29.70 -0.1  
S 39 31.91  
PZZ 0.22 318 P 39 31.08 0.0  
S 39 34.54  
ROB 0.41 97 P 39 34.75 0.0  
S 39 40.34  
S.D. = 0.1 on 4 of 4 obs.

\* JAN 19, 1994 07h 46m 43.54± 2.04s  
31.182 N ±20.7km 131.612 E ±11.4km  
DEPTH = 33.0km (normal)  
KYUSHU, JAPAN (235)

KAGJ 0.62 271 iP+ 46 56.00 0.1  
eS 47 05.20  
KUMJ 1.50 334 P 47 08.30 -0.2  
eS 47 27.40  
SHNJ 2.97 352 eP 47 28.70 -0.6  
TKSJ 3.47 36 P 47 37.00 0.5



19d 07h

YONJ 4.29 21 P 47 49.20 1.1  
 WKYJ 4.52 47 P 47 50.60 -0.9  
 S.D. = 1.0 on 6 of 6 obs.

JAN 19, 1994 07h 47m 52.05± 0.48s  
 49.158 N ± 3.8km 6.848 E ± 6.1km  
 DEPTH = 5.0km (geophysicist)

GERMANY (543)  
 ML 2.6 (STR).

RUP 0.56 14 ePg 48 03.10 -0.2  
 LANF 0.65 105 Pg 48 05.37 0.2  
 WLF 0.68 318 iPd 48 05.40 -0.3  
 CDF 0.80 159 Pg 48 07.92 -0.2

Sg 48 18.56  
 WLS 0.82 156 Pg 48 06.95 -1.4  
 ABH 0.86 32 ePg 48 08.20 -0.8  
 ECH 0.96 168 Pg 48 10.95 0.1

Sg 48 25.18  
 VITF 1.10 212 Pg 48 12.88 -0.3  
 Sg 48 26.88

MOF 1.32 172 Pg 48 16.65 -0.4  
 Sg 48 34.68  
 BSF 1.33 182 Pg 48 16.81 -0.3

FEL 1.50 148 Pg 48 20.85 1.1  
 ENN 1.72 340 eP 48 24.50 1.8

0.6s 15.10nm  
 e 48 45.00

DOU 1.74 304 P 48 22.20 -0.9  
 i 48 24.80  
 iS 48 46.00

LOMF 1.81 180 Pg 48 25.70 1.5  
 S.D. = 1.0 on 14 of 14 obs.

? JAN 19, 1994 07h 51m 26.08± 1.14s  
 3.318 S ±12.1km 135.711 E ±28.3km  
 DEPTH = 33.0km (normal)

5.0mb ( 6 obs.)  
 IRIAN JAYA REGION, INDONESIA (196)

MTN 10.50 205 eP 54 01.00 3.6X  
 0.2s 228.00nm 7.1mb X  
 eS 55 56.20

KNA 14.12 209 eP 54 47.00 1.1  
 eS 57 26.00

WB2 16.58 184 eP 55 15.40 -2.4  
 0.5s 8.10nm 4.1mb  
 i 55 22.30

eS 58 17.10  
 MBL 23.52 220 eP 56 39.00 4.8X  
 STK 28.95 170 eP 57 41.10 16.5X

1.0s 1.90nm  
 NNT 39.08 295 eP 58 52.80 0.7  
 CHTO 42.34 303 eP 59 19.50 0.5

TIY 46.19 334 eP 59 57.90 8.2X  
 BJI 46.73 339 eP 59 52.50 -1.3

1.5s 17.00nm 4.8mb  
 LZH 49.23 326 P 00 13.00 -0.6

1.5s 42.00nm 5.2mb  
 LSA 53.80 311 P 00 39.50 -9.1X

0.8s 11.00nm 4.9mb  
 GTA 53.83 326 Pd 00 47.50 -0.7

1.0s 16.00nm 5.0mb  
 WMQ 63.66 323 iPc 01 56.50 0.0

1.0s 27.00nm 5.3mb  
 pP 02 04.80 27kmX

MOCB 147.85 140 PKP 11 10.80 3.0X  
 LPB 149.30 131 ePKP 11 13.00 2.9

LPB 149.42 130 PKP 11 10.50 -0.1  
 CCH 150.20 134 PKP 11 16.00 4.7X

S.D. = 1.6 on 10 of 17 obs.

JAN 19, 1994 07h 57m 04.81± 0.67s  
 45.612 N ± 5.3km 14.272 E ± 4.8km

DEPTH = 5.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)

MD 2.4 (LJU), 1.9 (TRI).

CEY 0.17 41 iPg 57 08.30 0.0  
 0.3s 170.00nm

eSg 57 10.50  
 RIY 0.28 163 iPg 57 10.40 -0.1

iSg 57 14.90  
 TRI 0.37 285 ePg 57 12.50 0.3

eSg 57 18.70  
 LJU 0.47 23 ePg 57 14.20 0.0

iSg 57 20.50

VOY 0.50 328 ePg 57 14.40 -0.4  
 eSg 57 22.70  
 VBY 0.70 99 ePg 57 18.50 -0.3

iSg 57 27.80  
 PTJ 1.21 76 iPg 57 28.40 0.5

iSg 57 44.30  
 S.D. = 0.4 on 7 of 7 obs.

& JAN 19, 1994 07h 58m 34.42s  
 34.240 N 118.531 W

DEPTH = 15.4km  
 SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 3.3 (PAS), 3.1 (GS).

SSK 0.69 92 eP 58 47.27 -0.5  
 FTC 0.70 335 P 58 47.06 -0.7

RYL 0.79 301 P 58 48.74 -0.7  
 ABL 0.83 317 iPc 58 49.06 -1.2

PLEC 0.85 329 P 58 50.14 -0.3  
 BMTC 0.90 357 P 58 50.52 -0.7

ARVC 0.92 345 P 58 51.00 -0.5  
 SNDC 0.92 12 P 58 53.70 2.1

LPC 1.01 285 P 58 52.20 -1.0  
 MARC 1.01 319 P 58 52.47 -0.6

WJPM 1.17 2 P 58 55.56 -0.3  
 TMB 1.18 316 P 58 55.63 -0.5

PEC 1.19 107 eP 58 55.15 -1.0  
 eS 59 10.97

WOFM 1.30 353 P 58 57.68 -0.4  
 CRGC 1.40 316 P 58 58.74 -0.7

ISA 1.42 2 eP 58 58.82 -0.8  
 eS 59 17.20

SCCM 1.52 298 P 59 00.25 -0.8  
 BCH 1.59 307 eP 59 00.94 -1.2

PLM 1.65 122 eP 59 01.77 -1.3  
 eS 59 24.73

TOW 1.69 22 P 59 03.05 -0.4  
 GSC 1.77 53 eP 59 04.12 -0.6

PHAM 2.21 317 eP 59 09.87 -1.2  
 MTUM 3.11 360 ePg 59 31.22 7.3

TPNV 3.28 34 ePn 59 25.46 -0.9  
 GLA 3.31 110 ePn 59 27.51 0.8

MMPM 3.39 353 ePg 59 35.93 7.9  
 TNP 3.98 15 ePg 59 48.02 11.7

ARUT 5.44 48 ePn 59 55.97 -1.0  
 28 obs. associated

& JAN 19, 1994 08h 24m 11.70s  
 34.366 N 118.645 W

DEPTH = 13.3km  
 SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 3.3 (PAS), 3.4 (GS).

FTC 0.54 338 P 24 21.84 -0.8  
 ABL 0.68 316 iPc 24 23.79 -1.2

PLEC 0.69 330 P 24 25.00 -0.2  
 SSK 0.80 101 eP 24 26.51 -0.6

eS 24 40.02  
 MARC 0.85 318 P 24 27.31 -0.6

TEJ 0.86 358 P 24 26.90 -1.1  
 LPC 0.89 279 P 24 27.62 -1.0

WOFM 1.17 357 P 24 32.90 -0.4  
 CRGC 1.25 315 P 24 33.97 -0.6

ISA 1.30 6 ePc 24 34.84 -0.7  
 PEC 1.32 111 eP 24 34.29 -1.5

eS 24 52.88  
 WASM 1.37 3 P 24 36.41 -0.2

SCCM 1.38 295 P 24 35.79 -0.9  
 BCH 1.44 305 eP 24 36.35 -1.1

WSHM 1.58 37 P 24 38.06 -1.4  
 NMC 1.59 22 P 24 41.11 1.4

TOW 1.61 26 P 24 42.40 2.5  
 VPEN 1.72 23 P 24 43.65 2.1

GSC 1.78 58 eP 24 41.42 -1.0  
 RCWM 1.78 27 P 24 44.79 2.4

PLM 1.79 124 eP 24 40.56 -2.1  
 eS 25 06.86

PHAM 2.05 316 eP 24 43.68 -2.6  
 BHPR 2.93 2 P 25 05.80 6.8

SHG 2.95 315 P 24 56.36 -2.7  
 MTUM 2.98 1 ePg 25 04.44 4.8

TPNV 3.23 36 ePn 25 02.00 -1.2  
 MMPM 3.25 355 ePn 25 04.12 0.5

BVYM 3.28 317 P 25 01.67 -2.1  
 MRCM 3.30 2 ePg 25 11.86 7.6

MEMM 3.30 356 (Pn) 25 04.59 0.6  
 FRP 3.33 317 P 25 02.18 -2.3

GLA 3.44 111 ePn 25 03.92 -2.1  
 HERM 3.48 315 P 25 04.32 -2.2

BONR 3.59 4 (Pn) 25 10.46 2.0  
 ePg 25 17.60

JBZM 3.68 317 P 25 08.09 -1.3  
 ARN 3.79 323 eP 25 09.72 -1.3

TNP 3.88 17 ePg 25 23.18 10.7  
 CMB 3.92 339 eP 25 11.63 -1.3

KVN 4.70 5 P 25 35.67 11.6  
 ARUT 5.42 49 ePg 25 55.10 20.8

40 obs. associated

JAN 19, 1994 08h 46m 17.78± 0.84s  
 45.995 N ± 7.8km 15.060 E ± 5.6km

DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)

MD 2.7 (LJU), 2.3 (TRI). ML 2.5  
 (VIE). Felt (IV) at Radece, Slovenia.

LJU 0.37 278 iPg 46 24.80 -0.6  
 0.2s 130.00nm

iSg 46 30.50  
 VBY 0.51 164 iPg 46 27.30 -0.8

iSg 46 36.30  
 CEY 0.51 240 ePg 46 28.20 0.0

0.5s 70.00nm  
 eSg 46 37.70

PTJ 0.63 98 e(Pg) 46 30.80 0.2  
 e(Sg) 46 40.00

RIY 0.80 216 iPg 46 34.20 0.8  
 iSg 46 46.30

VOY 0.81 273 iPg 46 32.70 -0.9  
 eSg 46 45.00

TRI 0.95 253 e(Pg) 46 36.70 0.8  
 eSg 46 50.10

KBA 1.61 313 iPg 46 46.80 0.4  
 iSg 47 07.30

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

? JAN 19, 1994 09h 04m 59.48± 2.59s  
 32.052 S ±40.2km 68.591 W ±36.0km

DEPTH = 100.0km (geophysicist)  
 MENDOZA PROVINCE, ARGENTINA (139)

RTCV 0.20 13 iPd 05 14.00 -0.1  
 ZON 0.51 352 iP+ 05 15.60 0.0

eS 05 28.60  
 CFA 0.54 34 iPd 05 16.00 0.2

S 05 29.10  
 RTCB 0.59 342 iPc 05 16.50 0.2

RTLL 0.73 8 iPc 05 17.20 -0.2  
 S.D. = 0.3 on 5 of 5 obs.

& JAN 19, 1994 09h 13m 10.90s  
 34.304 N 118.737 W

DEPTH = 13.0km  
 SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 4.1 (PAS), 4.2 (GS),  
 4.0 (BRK). Mo=7.9\*10\*\*14 Nm (BRK).

RYL 0.61 304 P 13 22.51 -0.6  
 ABL 0.68 324 iPc 13 23.08 -1.1

ARVC 0.82 355 P 13 26.04 -0.5  
 SSK 0.87 96 iPc 13 26.71 -0.8

SNDC 0.91 23 P 13 27.84 -0.3  
 WOFM 1.23 1 P 13 32.80 -0.8

WBSM 1.32 22 P 13 34.45 -0.8  
 PEC 1.37 107 iPc 13 33.89 -1.8

ISA 1.37 9 ePc 13 35.15 -0.6  
 eS 13 53.29

BCH 1.42 309 ePc 13 35.19 -1.2  
 WASM 1.44 6 P 13 36.45 -0.4

YEG 1.51 319 P 13 37.20 -0.5  
 WCHM 1.67 19 P 13 39.20 -1.0

PTRM 1.81 318 P 13 40.80 -1.2  
 PLM 1.83 121 iPc 13 40.56 -1.8

RCWM 1.87 28 P 13 41.70 -1.2  
 PAGM 1.89 319 P 13 42.77 -0.4

PMCM 1.95 317 P 13 43.06 -1.0  
 PHAM 2.05 319 eP 13 43.87 -1.6

PKEM 2.08 328 eP 13 45.59 -0.3  
 CTM 2.09 322 P 13 49.59 3.5

PSTM 2.18 319 P 13 46.10 -1.2  
 PADM 2.20 308 P 13 45.77 -1.8

PHBM 2.23 331 P 13 47.95 -0.1



19d 09h

PSMM 2.33 320 P 13 48.56 -1.0  
 PRI 2.42 320 eP 13 49.30 -1.5  
 PTV 2.42 318 P 13 49.43 -1.4  
 PRCM 2.48 322 P 13 50.62 -1.1  
 PJLM 2.66 313 P 13 52.18 -2.1  
 BTW 2.69 319 P 13 52.77 -1.9  
 FRI 2.80 344 iP 13 54.60 -1.5  
 eS 14 28.81  
 SHG 2.94 316 P 13 55.81 -2.3  
 MTUM 3.05 3 eP 13 59.95 0.2  
 BLRM 3.14 319 P 14 00.02 -0.9  
 BPRM 3.22 311 P 13 59.31 -2.9  
 BVYM 3.27 319 P 14 00.98 -1.9  
 SAO 3.30 319 ePn 14 00.82 -2.5  
 MPM 3.31 356 ePn 14 03.60 -0.1  
 TPNV 3.33 37 ePn 14 02.44 -1.4  
 MEMM 3.36 357 ePn 14 04.99 0.9  
 MRCM 3.37 3 ePn 14 05.00 0.6  
 DIL 3.46 318 P 14 03.47 -2.1  
 GLA 3.49 110 ePn 14 05.41 -0.6  
 HGWM 3.60 320 P 14 21.35 13.8  
 BONR 3.66 5 ePn 14 07.53 -1.2  
 PEV 3.67 318 P 14 06.30 -2.2  
 COE 3.79 322 ePn 14 08.39 -1.9  
 ARN 3.79 324 eP 14 07.77 -2.6  
 MHC 3.84 323 eP 14 11.13 0.1  
 CMB 3.95 341 eP 14 11.72 -0.8  
 TNP 3.97 18 ePn 14 13.67 0.8  
 JEGM 4.40 318 (P) 14 17.19 -1.7  
 HMR 4.57 328 (Pn) 14 20.72 -0.5  
 KVN 4.77 6 (Pn) 14 25.71 1.4  
 NTYM 5.16 323 eP 14 26.58 -3.0  
 ARUT 5.52 49 ePn 14 34.22 -0.7  
 ORV 5.69 338 eP 14 35.44 -1.7  
 MSU 6.76 50 ePn 14 51.93 -0.4  
 KMPM 7.46 326 (P) 15 03.23 1.2  
 LBFM 7.46 341 ePg 15 13.59 11.4  
 DUG 7.54 37 ePg 15 31.40 28.1  
 SRU 8.15 52 ePn 15 13.30 1.4  
 PV09 8.80 59 ePn 15 20.86 -0.1  
 PV10 8.82 60 ePn 15 20.72 -0.5  
 PV08 9.18 59 ePn 15 26.68 0.4  
 MCMT 11.45 22 eP 16 03.50 6.3  
 YKA 28.33 4 eP 19 19.40 13.3  
 0.6s 0.20nm  
 67 obs. associated

? JAN 19, 1994 09h 17m 35.26± 1.08s  
 39.256 N ±10.4km 27.709 E ±15.1km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.9 (ISK).

DST 0.79 64 ePg 17 51.20 0.5  
 eSg 18 03.20  
 IZM 0.93 202 eP 17 53.00 0.0  
 eSg 18 05.30  
 EDC 1.10 6 ePn 17 56.00 0.2  
 IZI 1.74 51 ePn 18 05.00 -0.7  
 S.D. = 0.9 on 4 of 4 obs.

& JAN 19, 1994 10h 11m 29.03s  
 34.300 N 118.486 W  
 DEPTH = 2.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.66 98 iPc 11 41.61 -0.7  
 eS 11 51.56  
 ABL 0.82 312 eP 11 44.10 -1.3  
 PEC 1.17 110 eP 11 49.68 -2.0  
 eS 12 06.01  
 ISA 1.36 0 eP 11 53.63 -1.3  
 BCH 1.58 304 eP 11 56.90 -1.3  
 PLM 1.65 124 eP 11 57.29 -1.9  
 GSC 1.71 54 eP 11 58.18 -1.8  
 MEMM 3.38 354 ePg 12 29.99 6.2  
 BONR 3.65 2 (Pn) 12 29.22 1.3  
 9 obs. associated

JAN 19, 1994 10h 17m 46.38± 0.57s  
 20.545 S ±12.3km 178.373 W ± 5.3km  
 DEPTH = 563.5 ± 6.7 km  
 5.3mb (23 obs.)  
 FIJI ISLANDS REGION (181)

SVA 3.85 308 ePc 19 06.70 -1.9

VUN 3.91 310 eP 19 09.60 0.5  
 MBU 4.49 322 iPd 19 15.10 1.5  
 DZM 14.23 261 iPc 20 48.90 1.2  
 AFR 27.18 89 iPd 22 47.40 0.2  
 1.0s 217.60nm 5.7mb  
 PAE 27.34 89 iPd 22 48.80 0.1  
 1.1s 121.10nm 5.4mb  
 PPT 27.36 89 iPd 22 49.10 0.2  
 1.0s 108.00nm 5.4mb  
 PPN 27.51 89 iPd 22 50.30 0.2  
 0.9s 47.80nm 5.1mb  
 TVO 27.63 89 iPd 22 51.40 0.2  
 0.8s 57.00nm 5.3mb  
 PMO 29.51 84 iPd 23 07.30 -0.2  
 0.8s 63.10nm 5.3mb  
 VAH 29.70 85 iPd 23 08.90 -0.2  
 1.0s 76.00nm 5.3mb  
 TPT 29.77 84 iPd 23 09.50 -0.2  
 0.3s 38.50nm 5.5mb  
 RUV 29.94 85 iPd 23 11.00 -0.1  
 1.0s 216.00nm 5.7mb  
 STK 37.46 244 eP 24 14.00 0.3  
 0.7s 7.00nm 4.4mb  
 WB2 44.24 262 iPc 25 06.90 -1.1  
 0.6s 46.20nm 5.2mb  
 eS 30 57.70  
 eScs 34 05.80  
 WRA 44.25 262 P 25 07.20 -0.9  
 0.6s 17.80nm 4.8mb  
 MTN 48.82 271 iPc 25 43.80 0.9  
 0.5s 83.00nm 5.5mb  
 GUA 49.50 310 eP 25 47.40 -0.4  
 0.8s 197.01nm 5.7mb  
 GUMO 49.56 310 eP 25 47.90 -0.4  
 1.3s 242.40nm 5.6mb  
 PJG 49.56 310 eP 25 48.00 -0.3  
 KNA 50.29 266 iPd 25 52.90 -0.7  
 0.5s 30.00nm 5.0mb  
 WARB 50.48 253 eP 25 54.00 -1.0  
 ADK 72.13 1 eP 28 14.00 -1.3  
 0.6s 60.40nm 5.3mb  
 SDN 77.10 10 eP 28 42.10 -0.8  
 0.7s 81.80nm 5.3mb  
 MDJ 80.35 325 eP 29 01.00 0.7  
 SVW 83.41 11 eP 29 15.20 -0.2  
 TTA 85.05 10 eP 29 24.70 1.2  
 PMR 85.14 14 eP 29 23.70 -0.1  
 0.6s 10.10nm 4.6mb  
 BJI 85.68 316 eP 29 28.00 1.2  
 2.0s 38.00nm 4.7mb  
 TOA 86.27 15 eP 29 30.60 1.3  
 XAN 87.88 307 P 29 38.70 1.2  
 1.0s 8.90nm 4.5mb  
 IMA 88.35 10 eP 29 39.10 0.0  
 0.8s 7.20nm 4.6mb  
 FBA 88.36 13 eP 29 38.00 -1.0  
 0.8s 55.90nm 5.5mb  
 BDT 89.30 289 eP 29 44.50 0.3  
 CHTO 89.93 290 eP 29 48.20 1.0  
 YKA 96.70 25 eP 30 16.00 -1.1  
 0.8s 0.80nm 4.1mb X  
 KAF 135.10 344 ePKP 36 00.00 -2.9  
 NUR 136.88 344 iPKP 36 05.40 -0.9  
 0.4s 5.40nm  
 eSKP 38 48.00  
 HFS 139.53 351 ePKP 36 02.90 -8.2X  
 0.4s 4.40nm  
 EKA 145.08 5 PKP 36 23.00 2.1  
 1.0s 16.80nm  
 WIT 147.56 354 ePKP 36 30.00 5.1X  
 CLL 148.02 346 iPKP 36 29.60 3.9X  
 0.9s 44.00nm  
 i 36 34.90  
 e 38 41.00  
 MLR 148.07 327 ePKP 36 30.00 3.8X  
 BRG 148.21 345 iPKP 36 31.60 5.5X  
 0.9s 20.00nm  
 i 36 35.20  
 WTS 148.35 354 ePKP 36 30.00 3.8X  
 0.8s 29.50nm  
 PRU 148.88 344 PKP 36 31.50 4.4X  
 0.9s 20.00nm  
 e 36 38.70  
 MOX 148.94 348 ePKP 36 32.00 4.8X  
 1.2s 23.00nm  
 ENN 149.65 355 ePKP 36 34.50 6.3X  
 0.8s 17.90nm

e 36 42.00  
 ZST 149.72 339 ePKP 36 35.50 7.1X  
 KHC 149.92 344 ePKP 36 30.00 1.2  
 1.0s 8.90nm  
 e 36 34.50  
 e 36 41.60  
 e 38 49.00  
 GRF 149.93 348 ePKP 36 35.40 6.7X  
 e 36 43.60  
 GEC2 150.15 344 PKP 36 29.30 0.1  
 1.0s 0.79nm  
 e 36 34.80  
 e 36 44.20  
 e 38 50.50  
 GEC2 150.15 344 e(PKP) 36 34.70 5.5X  
 0.7s 6.10nm  
 DOU 150.42 356 PKP 36 36.20 6.8X  
 KBA 151.87 343 iPKPd 36 38.50 6.6X  
 0.5s 4.80nm  
 WATA 152.08 345 iPKPd 36 39.70 7.6X  
 WTTA 152.13 345 iPKPd 36 39.80 7.5X  
 0.4s 7.90nm  
 i 36 53.10  
 SQTa 152.27 346 iPKPd 36 40.00 7.6X  
 0.6s 6.70nm  
 LJU 152.45 340 ePKP 36 40.80 8.3X  
 S.D. = 1.0 on 41 of 59 obs.

\* JAN 19, 1994 10h 30m 53.55± 1.11s  
 30.057 S ± 6.3km 71.783 W ± 9.6km  
 DEPTH = 24.4 ± 6.4 km  
 NEAR COAST OF CENTRAL CHILE (135)

JACH 2.81 159 iP 31 38.35 0.4  
 iS 32 12.22  
 RTCB 2.94 120 ePd 31 39.50 -0.3  
 S 32 13.00  
 IHA 2.96 178 e(P) 31 44.50 4.5X  
 e(S) 32 20.00  
 ROCH 2.98 167 iP 31 40.32 -0.2  
 iS 32 23.42  
 ZON 3.06 120 eP 31 42.60 1.2  
 eS 31 56.10  
 RTLL 3.12 115 ePd 31 41.50 -0.9  
 S 32 15.00  
 PEL 3.22 163 iPd 31 44.11 0.4  
 iS 32 23.42  
 RTCV 3.32 124 iPd 31 45.00 -0.1  
 LCCH 3.41 177 iPd 31 45.62 -0.8  
 iS 32 38.39  
 CFA 3.42 118 ePd 31 46.00 -0.6  
 S 32 29.20  
 FCH 3.50 159 iP 31 49.10 1.1  
 iS 32 35.07  
 TACH 3.66 169 iP 31 49.72 -0.2  
 iS 32 37.35  
 PCH 3.71 163 iP 31 50.91 0.1  
 iS 32 39.85  
 LNV 3.90 175 iP 31 53.06 -0.2  
 CHCH 3.98 166 iP 31 53.88 -0.7  
 CACH 4.17 166 iP 31 57.81 0.5  
 LPB 13.88 15 P 34 23.00 11.6X  
 LPAZ 14.11 15 P 34 14.80 0.1  
 S.D. = 0.7 on 16 of 18 obs.

JAN 19, 1994 10h 42m 23.24± 0.59s  
 34.206 N ± 5.3km 118.795 W ± 3.5km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.6 (GS).

RYS 0.63 314 P 42 36.61 0.5  
 FTC 0.67 353 P 42 35.70 -0.9  
 ABL 0.73 331 iPc 42 37.24 -0.5  
 PLEC 0.79 344 P 42 38.60 -0.1  
 LPC 0.81 291 P 42 40.16 1.1  
 MARC 0.91 331 P 42 40.68 0.0  
 SSK 0.91 89 eP 42 40.81 0.0  
 ARVC 0.92 358 P 42 40.20 -0.6  
 SNDC 1.02 23 P 42 42.00 -0.6  
 TEJ 1.03 5 P 42 41.77 -0.9  
 TMB 1.07 325 P 42 43.93 0.5  
 WJPM 1.23 12 P 42 45.45 -0.7  
 CRGC 1.29 324 P 42 47.43 0.3  
 WOFM 1.33 3 P 42 47.13 -0.7  
 SCCM 1.35 303 P 42 48.41 0.3  
 PEC 1.39 103 eP 42 48.19 -0.5



19d 10h

WBSM	1.43	22 P	eS	43 07.36	
BCH	1.44	313 eP		42 48.61	-0.9
ISA	1.48	10 ePc		42 49.43	-0.1
WASM	1.54	7 P		42 49.32	-0.6
WORM	1.56	17 P		42 51.18	0.2
WSHM	1.78	37 P		42 51.47	0.4
NMC	1.79	24 P		42 52.18	-2.2X
TOW	1.81	28 P		42 55.02	0.6
PLM	1.82	117 eP		42 56.47	1.7
PTRM	1.86	322 P		42 54.79	-0.2
VPDM	1.92	24 P		42 55.50	0.1
GSC	1.97	56 eP		42 57.68	1.3
RCWM	1.98	28 P		42 56.11	-1.0
WLHM	1.98	11 P		42 59.11	1.9X
PHAM	2.09	321 eP		42 59.41	1.9X
PHBM	2.29	333 P		42 58.66	-0.1
PAPM	2.71	310 P		43 05.01	3.3X
MTUM	3.15	3 (Pn)		43 05.00	-2.7X
BPRM	3.25	313 P		43 15.29	1.3
SAO	3.35	320 ePn		43 13.89	-1.5
MMPM	3.40	357 ePn		43 15.06	-1.6
TPNV	3.43	36 ePn		43 18.52	0.8
MEMM	3.46	358 ePn		43 16.40	-1.6
MRCM	3.47	4 (Pn)		43 18.82	0.7
GLA	3.51	108 ePn		43 20.18	1.7
BONR	3.76	6 ePn		43 19.25	0.3
COE	3.84	323 (P)		43 24.00	1.1
ARN	3.85	325 eP		43 24.64	1.0
CMB	4.03	342 eP		43 22.66	-1.1
TNP	4.07	18 ePg		43 25.49	-0.9
ARUT	5.62	49 ePn		43 37.57	10.5X
				43 50.30	1.2

S.D. = 0.9 on 41 of 47 obs.

& JAN 19, 1994 10h 44m 33.64s  
34.321 N 118.410 W  
DEPTH = 5.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.6 (GS).

SSK	0.60	100 eP		44 44.76	-1.0
ABL	0.85	309 eP		44 48.59	-2.0
PEC	1.12	112 eP		44 53.75	-1.4
		eS		45 09.12	
PLM	1.61	126 eP		45 02.55	-0.3
BCH	1.63	302 eP		45 01.91	-1.1
GSC	1.64	53 eP		45 03.35	0.1
TPNV	3.16	33 (P)		45 25.45	0.4
BONR	3.63	1 ePg		45 39.91	8.1

8 obs. associated

? JAN 19, 1994 10h 45m 17.14± 1.78s  
44.747 N ± 8.5km 6.818 E ± 14.3km  
DEPTH = 10.0km (geophysicist)  
FRANCE (538)  
ML 2.1 (GEN).

RRL	0.18	352 P		45 21.31	0.1
		S		45 24.33	
PZZ	0.32	140 P		45 23.69	-0.1
		S		45 28.22	
BHB	0.33	73 P		45 24.19	0.2
		S		45 28.82	
RSP	0.51	37 P		45 27.31	-0.2
		S		45 34.72	

S.D. = 0.3 on 4 of 4 obs.

& JAN 19, 1994 10h 47m 14.94s  
34.233 N 118.578 W  
DEPTH = 1.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK	0.73	91 iPc		47 28.55	-1.0
ABL	0.81	319 eP		47 30.16	-1.0
PEC	1.22	106 eP		47 36.55	-2.0
		eS		47 53.66	
ISA	1.43	3 eP		47 40.82	-1.2
BCH	1.56	308 ePn		47 43.36	-0.6
PLM	1.68	121 eP		47 43.56	-2.1
GSC	1.81	53 eP		47 47.20	-0.3
TPNV	3.31	34 (Pn)		48 09.39	0.4
BONR	3.72	3 ePg		48 22.81	7.8

9 obs. associated

& JAN 19, 1994 10h 51m 09.62s  
34.283 N 118.555 W

DEPTH = 11.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.1 (PAS), 3.4 (GS).

FTC	0.65	335 P		51 21.70	-0.8
SSK	0.72	96 iPc		51 22.88	-0.8
RYS	0.75	299 P		51 23.65	-0.6
ABL	0.79	316 eP		51 23.84	-1.1
ARVC	0.87	345 P		51 24.70	-1.5
TEJ	0.95	353 P		51 25.89	-1.7
MARC	0.97	318 P		51 27.55	-0.3
LPC	0.98	283 P		51 27.25	-0.9
WJFM	1.13	3 P		51 30.00	-0.6
WOFM	1.26	354 P		51 32.47	-0.4
WBSM	1.30	15 P		51 33.22	-0.4
ISA	1.38	3 eP		51 34.23	-0.5
WORM	1.43	10 P		51 36.09	0.6
WASM	1.45	360 P		51 36.74	0.9
SCCM	1.49	297 P		51 35.52	-0.7
BCH	1.55	306 eP		51 35.78	-1.3
WSHM	1.60	33 P		51 37.02	-0.9
WCHM	1.64	14 P		51 37.95	-0.7
NMC	1.65	19 P		51 40.34	1.8
TOW	1.65	23 P		51 38.16	-0.5
PLM	1.69	123 eP		51 38.10	-1.1
		eS		52 01.07	
VPDM	1.77	20 P		51 41.74	1.4
RCWM	1.82	24 P		51 39.99	-1.1
WLHM	1.88	6 P		51 41.72	-0.4
PHAM	2.17	316 (P)		51 46.23	0.2
MTUM	3.06	360 P		52 05.14	6.2
TPNV	3.26	35 ePn		52 00.56	-1.1
MMPM	3.34	354 ePg		52 09.27	6.2
MRCM	3.38	1 ePn		52 03.68	0.2
		ePg		52 11.18	
		eS		52 54.99	

MEMM 3.39 355 ePg 52 10.65 7.3  
BONR 3.67 3 ePg 52 16.37 8.7  
TNP 3.94 16 ePg 52 22.76 11.3  
CMB 4.03 339 (P) 52 12.82 0.4  
33 obs. associated

& JAN 19, 1994 11h 06m 03.72s  
34.286 N 118.472 W  
DEPTH = 10.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.2 (GS).

MWC	0.35	100 P		06 10.40	-0.6
JNH	0.46	69 P		06 12.25	-0.8
FOX	0.49	24 P		06 13.09	-0.6
STTC	0.50	1 P		06 13.68	-0.2
LJB	0.60	59 P		06 14.64	-1.2
SSK	0.65	96 iPc		06 15.81	-1.0
LOK	0.67	311 P		06 16.31	-0.9
FTC	0.68	329 P		06 16.54	-0.7
TJR	0.77	343 P		06 17.93	-0.9
RYS	0.81	296 P		06 19.04	-0.5
ABL	0.84	313 eP		06 18.86	-1.2
BMT	0.85	353 P		06 19.34	-0.9
SNDC	0.87	9 P		06 19.79	-0.7
ARVC	0.89	341 P		06 20.20	-0.6
CSP	0.92	89 P		06 20.72	-0.7
HYS	0.94	52 P		06 20.86	-0.9
TEJ	0.96	349 P		06 19.84	-2.1
MARC	1.01	315 P		06 22.44	-0.4
LPC	1.05	282 P		06 24.38	0.8
DTP	1.11	28 P		06 23.71	-0.8
WJFM	1.12	360 P		06 24.18	-0.6
HOD	1.15	61 P		06 24.55	-0.8
PEC	1.16	109 iPc		06 23.92	-1.5
		eS		06 39.38	

BTL	1.22	91 P		06 26.14	-0.4
WHVM	1.22	358 P		06 25.89	-0.6
WOFM	1.26	351 P		06 27.65	0.4
WBSM	1.28	12 P		06 27.48	-0.1
SIL	1.36	87 P		06 28.71	-0.2
ISA	1.37	360 eP		06 28.59	-0.4
CRGC	1.40	313 P		06 29.65	0.2
POB	1.42	114 P		06 28.12	-1.5
WWPM	1.48	12 P		06 30.62	0.1
XMS	1.54	36 P		06 31.00	-0.3
WSHM	1.57	31 P		06 30.95	-0.7
BCH	1.60	304 eP		06 31.84	-0.4
WCHM	1.63	11 P		06 33.38	0.6
TOW	1.63	21 P		06 34.47	1.9
PLM	1.63	124 eP		06 31.23	-1.5

GSC	1.71	53 eP		06 53.31	
RCWM	1.79	22 P		06 32.79	-1.0
WLHM	1.87	4 P		06 37.60	2.6
PHBM	2.36	327 P		06 38.20	1.9
MTUM	3.06	359 ePg		06 43.86	0.8
TPNV	3.22	34 ePn		06 59.49	6.3
GLA	3.28	111 (P)		06 55.82	0.4
MMPM	3.35	352 ePg		06 54.64	-1.6
MRCM	3.38	360 ePg		07 04.25	6.8
MEMM	3.39	354 ePg		07 05.36	7.6
BONR	3.66	2 (Pn)		07 05.47	7.7
CMB	4.05	338 (Pn)		07 02.30	0.4
ARUT	5.37	48 ePn		07 08.07	1.0
				07 26.87	0.9

51 obs. associated

\* JAN 19, 1994 11h 18m 04.37± 0.46s  
15.690 N ± 6.1km 120.897 E ± 11.7km  
DEPTH = 195.5 ± 5.3 km  
4.5mb (13 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BCP	0.78	339 eP		18 32.00	-0.7
		eS		18 51.00	
QVP	1.07	174 ePc		18 35.00	0.6
		eS		18 58.80	
TGY	1.58	179 iPd		18 40.00	1.2
		iS		19 02.00	
SZP	1.90	347 ePc		18 40.00	-1.8
		eS		18 49.00	
PGP	2.18	179 ePd		18 45.10	0.3
		eS		19 17.00	
CVP	2.19	24 iPd		18 45.00	0.1
		iS		19 08.00	
GQP	2.32	140 iPd		18 48.00	1.6
		iS		19 12.00	
PIP	2.63	354 iPc		18 48.00	-1.9
		iS		19 23.00	
PPR	6.25	200 iPc		19 35.00	-0.5
		eS		20 47.00	
KKM	10.63	206 ePc		20 39.10	6.2X
		1.5s		142.10nm	5.2mb
NJ2	16.39	354 Pd		21 46.00	1.0
GYA	17.05	311 iPc		21 54.60	1.6
		1.2s		39.00nm	4.7mb
NNT	20.75	264 eP		22 31.00	-0.2
XAN	21.22	332 P		22 35.50	-0.3
		1.0s		3.60nm	3.8mb
CD2	21.80	317 eP		22 42.40	0.9
TIY	23.18	343 eP		22 57.20	2.4
BJI	24.61	351 eP		23 08.00	-0.1
		1.5s		14.00nm	4.4mb
LZH	25.38	326 eP		23 14.50	-1.0
		1.2s		25.00nm	4.7mb
MDJ	29.76	13 eP		23 54.70	0.2
LAT	34.09	129 iPc		25 09.50	37.2X
WB2	37.80	159 iPc		25 01.40	-2.1
		0.7s		8.00nm	4.5mb
		iPp		25 45.70	210kmX
WMQ	39.75	322 P		25 21.60	2.1
		1.2s		12.00nm	4.3mb
		pP		25 30.60	30kmX
HYB	40.57	279 eP		25 26.00	-0.5
ASPA	41.13	162 eP		25 29.50	-1.4
		0.3s		11.80nm	4.9mb
GBA	42.05	273 Pd		25 38.40	-0.1
		0.6s		4.00nm	4.1mb
HFS	84.83	331 eP		30 16.70	-1.1
		0.3s		5.50nm	4.7mb
NB2	85.59	333 P		30 21.10	-0.5
		0.7s		6.80nm	4.6mb
VAY	85.89	312 eP		30 22.40	-1.0
GEC2	89.22	321 P		30 38.60	-0.7
		1.0s		3.58nm	4.2mb
YKA	90.88	23 eP		30 46.70	0.1
		0.6s		2.10nm	4.3mb
LPZ	171.30	95 PKP		37 53.20	1.7

S.D. = 1.3 on 29 of 31 obs.

\* JAN 19, 1994 11h 38m



IZI 0.66 4 ePg 38 14.10 -1.0  
 ALT 0.83 138 ePg 38 18.00 0.0  
 YLV 0.89 358 ePn 38 20.00 1.0  
 EYL 1.06 33 ePn 38 22.00 0.1  
 S.D. = 1.0 on 5 of 5 obs.

JAN 19, 1994 12h 09m 08.89± 0.68s  
 34.285 N ± 6.0km 118.518 W ± 4.6km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.7 (GS).

FTC 0.66 332 P 09 21.36 -0.8  
 SSK 0.69 96 iPc 09 22.41 -0.2  
 RYS 0.78 298 P 09 24.71 0.5  
 ABL 0.81 314 iPd 09 24.19 -0.6  
 PLEC 0.82 327 P 09 24.93 0.1  
 SNDC 0.87 12 P 09 27.09 1.3  
 TEJ 0.95 352 P 09 24.98 -2.1  
 LPC 1.01 282 P 09 28.44 0.3  
 WJPM 1.12 2 P 09 29.27 -0.8  
 PEC 1.19 109 iPc 09 30.89 -0.3  
 WOFM 1.26 353 P 09 31.79 -0.6  
 WBSM 1.29 14 P 09 32.32 -0.6  
 ISA 1.38 2 eP 09 33.16 -1.0  
 WORM 1.43 9 P 09 35.63 0.7  
 WASM 1.45 359 P 09 35.79 0.4  
 BCH 1.57 305 eP 09 36.93 -0.1  
 WSHM 1.59 32 P 09 36.27 -0.9  
 NMC 1.63 18 P 09 39.36 1.5  
 WCHM 1.64 13 P 09 37.77 -0.3  
 PLM 1.66 124 eP 09 37.86 -0.5  
 eS 10 00.39  
 GSC 1.74 54 eP 09 38.99 -0.4  
 VPEN 1.76 19 P 09 40.47 0.7  
 RCWM 1.81 23 P 09 42.40 2.0  
 WJPM 1.87 5 P 09 43.40 1.9  
 PHAM 2.19 316 eP 09 45.19 -0.6  
 MTUM 3.06 359 ePg 10 04.27 5.9X  
 TPNV 3.24 34 ePn 10 00.43 -0.5  
 ePg 10 08.90  
 GLA 3.31 111 ePn 10 03.39 1.5  
 MMPM 3.34 353 ePn 10 03.76 1.2  
 MRCM 3.38 0 (Pn) 10 03.04 0.1  
 MEMM 3.39 354 ePg 10 04.10 7.5X  
 BONR 3.67 3 ePn 10 08.67 1.5  
 ePg 10 16.22  
 ARN 3.92 322 eP 10 09.50 -0.9  
 TNP 3.93 15 ePn 10 11.05 0.3  
 CMB 4.04 339 eP 10 12.14 0.1  
 KVN 4.77 4 ePg 10 36.17 13.5X  
 ARUT 5.40 48 ePn 10 28.17 -3.4  
 MSU 6.63 49 ePg 11 11.05 22.0X  
 DUG 7.45 36 ePg 11 28.10 27.7X  
 S.D. = 1.2 on 34 of 39 obs.

\* JAN 19, 1994 12h 14m 24.96± 0.96s  
 45.987 N ±12.6km 13.129 E ±11.1km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.4 (VIE).

TRI 0.52 122 e(Pg) 14 35.60 0.1  
 iSg 14 42.30  
 KBA 1.10 8 iPg 14 46.20 0.0  
 iSg 15 05.30  
 VBY 1.57 107 ePn 14 53.30 -0.2  
 iSn 15 15.40  
 WTTA 1.64 322 iPg 14 54.90 0.2  
 iSg 15 19.50  
 WATA 1.72 322 iPg 14 56.20 0.3  
 iSg 15 22.20  
 SQTa 1.81 314 iPg 14 56.70 -0.4  
 iSg 15 22.50  
 S.D. = 0.4 on 6 of 6 obs.

& JAN 19, 1994 12h 15m 15.79s  
 34.372 N 118.609 W  
 DEPTH = 14.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>-P>. ML 2.9 (PAS), 3.0 (GS).

FTC 0.55 335 P 15 26.12 -0.6  
 RYS 0.67 294 P 15 28.68 -0.2  
 ABL 0.69 314 P 15 28.43 -0.9  
 PLEC 0.71 328 P 15 29.35 0.0  
 BMTC 0.76 1 P 15 29.80 -0.6

ARVC 0.77 347 P 15 30.37 -0.1  
 SNDC 0.81 18 P 15 31.98 0.8  
 TEJ 0.86 356 P 15 30.94 -1.0  
 MARC 0.87 316 P 15 32.00 -0.1  
 LPC 0.92 278 P 15 32.88 -0.2  
 WJPM 1.04 6 P 15 35.13 0.0  
 TMB 1.04 313 P 15 35.22 0.1  
 WOFM 1.16 356 P 15 37.22 0.0  
 WBSM 1.22 18 P 15 38.18 -0.1  
 CRGC 1.26 314 P 15 38.75 -0.2  
 ISA 1.29 5 eP 15 38.92 -0.4  
 PEC 1.29 111 eP 15 38.27 -1.1  
 eS 15 56.05  
 WORM 1.36 13 P 15 39.93 -0.3  
 WASM 1.36 2 P 15 41.30 0.8  
 SCCM 1.41 294 P 15 40.99 0.1  
 WSHM 1.56 36 P 15 42.95 -0.1  
 TOW 1.59 26 P 15 46.12 2.5  
 GSC 1.75 57 eP 15 44.95 -1.0  
 RCWM 1.76 26 P 15 48.82 2.8  
 PLM 1.77 124 eP 15 46.66 0.3  
 eS 16 10.07  
 TPNV 3.21 36 ePn 16 04.63 -2.2  
 MRCM 3.29 1 ePg 16 15.52 7.4  
 27 obs. associated

? JAN 19, 1994 12h 29m 58.68± 1.45s  
 24.300 S ±11.8km 66.973 W ±15.3km  
 DEPTH = 186.2 ± 16.5 km  
 SALTA PROVINCE, ARGENTINA (129)

CCH 6.93 7 P 31 39.60 0.6  
 RTLL 7.13 190 ePd 31 41.50 0.1  
 RTCB 7.34 192 ePd 31 51.50 7.2X  
 CFA 7.36 188 e(P) 31 51.20 6.7X  
 LPB 7.80 352 P 31 49.60 -1.1  
 S 33 17.60  
 LPAZ 8.05 352 P 31 36.60 -17.6X  
 i 31 54.40  
 S 33 21.50  
 RSTA 16.34 95 eP 33 40.60 1.5  
 VAO2 18.73 91 eP 34 05.10 -0.8  
 e 34 09.60  
 BDFB 19.78 68 eP 34 15.31 -1.3  
 UVO 63.74 335 iPc 40 13.20 0.6  
 RSSD 76.08 333 (P) 41 28.92 1.5  
 WB2 131.37 207 ePKP 48 53.60 2.7X  
 0.3s 4.70nm  
 WRA 131.37 207 PKP 48 48.30 -2.6  
 0.5s 0.50nm  
 GBA 144.79 101 PKP 49 17.00 1.5  
 HYB 147.13 95 ePKP 49 24.00 4.6X  
 S.D. = 1.7 on 10 of 15 obs.

? JAN 19, 1994 12h 37m 16.18± 7.87s  
 41.617 N ±43.8km 22.273 E ±32.8km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.0 (SKO).

VAY 0.37 143 iPg 37 24.00 0.2  
 0.2s 110.00nm  
 iSg 37 29.80  
 KNT 0.65 134 iPg 37 28.62 -0.6  
 eSg 37 38.02  
 GRG 0.67 172 ePg 37 29.54 0.1  
 eSg 37 40.98  
 SRS 1.11 116 ePg 37 37.30 0.3  
 eSg 37 53.74  
 SOH 1.14 134 ePb 37 37.62 0.1  
 eSb 37 53.90  
 S.D. = 0.5 on 5 of 5 obs.

& JAN 19, 1994 12h 38m 44.72s  
 34.328 N 118.427 W  
 DEPTH = 4.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>-P>. ML 3.5 (PAS), 3.8 (GS).

FTC 0.66 325 P 38 56.34 -1.7  
 PLEC 0.83 321 P 39 00.65 -0.7  
 ARVC 0.86 338 P 39 00.48 -1.3  
 TEJ 0.93 347 P 38 59.88 -3.0  
 MARC 1.01 312 P 39 03.37 -0.9  
 LPC 1.08 279 P 39 04.15 -1.4  
 PEC 1.14 112 eP 39 05.38 -1.1  
 TMB 1.19 310 P 39 06.50 -0.9

WBSM 1.23 11 P 39 08.15 -0.1  
 WORM 1.37 6 P 39 09.96 -0.6  
 CRGC 1.40 311 P 39 09.77 -1.3  
 WSHM 1.51 30 P 39 10.96 -1.6  
 NMC 1.57 16 P 39 13.53 0.1  
 TOW 1.57 20 P 39 11.72 -1.7  
 WCHM 1.58 10 P 39 12.53 -1.2  
 BCH 1.61 303 eP 39 12.09 -1.9  
 PLM 1.63 126 eP 39 11.48 -2.8  
 GSC 1.65 53 eP 39 13.33 -1.2  
 VPEN 1.69 17 P 39 14.67 -0.6  
 RCWM 1.74 21 P 39 14.81 -1.0  
 PTRM 1.97 313 P 39 18.44 -0.8  
 PHAM 2.21 313 eP 39 19.75 -2.8  
 PKEM 2.21 322 (P) 39 22.83 0.2  
 PAPM 2.88 304 P 39 28.89 -3.3  
 MTUM 3.02 358 ePn 39 33.71 -0.6  
 eS 40 21.09  
 TPNV 3.16 34 ePn 39 34.99 -1.2  
 eS 40 26.39  
 GLA 3.26 112 ePn 39 38.16 0.6  
 MMPM 3.31 352 eP 39 38.07 -0.5  
 MRCM 3.34 359 (Pn) 39 38.64 -0.2  
 BPRM 3.40 308 P 39 36.90 -2.7  
 SAO 3.46 316 eP 39 37.54 -2.8  
 BONR 3.62 2 ePn 39 42.69 -0.2  
 HCOM 3.70 315 P 39 41.18 -2.6  
 TNP 3.87 14 ePg 39 57.24 10.8  
 ARN 3.93 321 eP 39 45.28 -1.8  
 COE 3.94 319 (Pn) 39 46.15 -1.0  
 CMB 4.02 337 eP 39 46.41 -2.0  
 KVN 4.72 3 ePn 39 57.03 -1.5  
 ARUT 5.31 48 ePn 40 06.46 -0.4  
 MSU 6.55 49 ePn 40 24.94 0.6  
 PV08 8.95 59 ePg 41 16.69 18.8  
 41 obs. associated

& JAN 19, 1994 12h 38m 57.37s  
 60.697 N 150.382 W  
 DEPTH = 39.8km  
 KENAI PENINSULA, ALASKA (14)  
 <AEIC>. ML 2.6 (AEIC).

BC3 3.93 15 eP 40 06.25 -0.9  
 BGL 3.93 15 eP 39 16.42 -0.9  
 BKG 3.93 15 iP 39 14.22 -0.9  
 eS 39 27.71  
 BM3 3.93 15 eP 39 39.89 -0.9  
 BRLK 3.93 15 eP 39 13.84 -0.9  
 eS 39 27.03  
 BWN 3.93 15 eP 39 51.15 -0.9  
 CCB 3.93 15 eP 39 58.49 -0.9  
 CDD 3.93 15 eP 39 35.26 -0.9  
 CFI 3.93 15 eP 39 19.02 -0.9  
 CGLM 3.93 15 iP 39 14.51 -0.9  
 CKL 3.93 15 eP 39 15.55 -0.9  
 CNPM 3.93 15 eP 39 17.77 -0.9  
 CRP 3.93 15 eP 39 15.09 -0.9  
 eS 39 29.31  
 CUT 3.93 15 eP 39 24.60 -0.9  
 CVA 3.93 15 eP 39 31.26 -0.9  
 DDM 3.93 15 eP 39 53.25 -0.9  
 DFR 3.93 15 iP 39 16.11 -0.9  
 DHY 3.93 15 eP 39 39.86 -0.9  
 FBA 3.93 15 eP 40 01.21 -0.9  
 FID 3.93 15 eP 39 25.22 -0.9  
 GHO 3.93 15 iP 39 18.59 -0.9  
 GLB 3.93 15 eP 39 45.02 -0.9  
 GLM 3.93 15 eP 40 03.76 -0.9  
 HDA 3.93 15 eP 39 56.69 -0.9  
 HIN 3.93 15 eP 39 26.48 -0.9  
 HOM 3.93 15 eP 39 17.68 -0.9  
 HUR 3.93 15 eP 39 34.39 -0.9  
 IL1 3.93 15 eP 40 01.89 -0.9  
 ILB 3.93 15 eP 40 02.12 -0.9  
 ILIM 3.93 15 eP 39 20.27 -0.9  
 eS 39 38.13  
 IM3 3.93 15 eP 40 17.73 -0.9  
 INE 3.93 15 eP 39 21.01 -0.9  
 eS 39 39.25  
 KLU 3.93 15 eP 39 32.09 -0.9  
 KNK 3.93 15 iP 39 17.05 -0.9  
 KTH 3.93 15 eP 39 42.51 -0.9  
 MLY 3.93 15 eP 40 01.56 -0.9  
 MPA 3.93 15 eP 39 08.22 -0.9  
 S 39 16.91  
 NCG 3.93 15 iP 39 16.26 -0.9



19d 12h

NCT	3.93	15	eP	39	17.96	-0.9
NKA	3.93	15	eP	39	08.19	-0.9
OPT	3.93	15	eP	39	26.26	-0.9
PAX	3.93	15	eP	39	46.19	-0.9
PDB	3.93	15	eP	39	30.84	-0.9
PLRM	3.93	15	eP	39	15.53	-0.9
			eS	39	29.77	
PMR	3.93	15	ePd	39	15.26	-0.9
PWA	3.93	15	P	39	14.50	-0.9
PWL	3.93	15	eP	39	14.41	-0.9
			eS	39	27.95	
RDW	3.93	15	eP	39	17.45	-0.9
RED	3.93	15	eP	39	17.32	-0.9
REF	3.93	15	iP	39	16.76	-0.9
RND	3.93	15	eP	39	39.87	-0.9
RS2	3.93	15	eP	39	17.21	-0.9
SEW	3.93	15	eP	39	10.36	-0.9
			eS	39	21.71	
SKT	3.93	15	eP	39	20.42	-0.9
SLKM	3.93	15	eP	39	04.59	-0.9
			eS	39	10.45	
SML	3.93	15	eP	39	21.32	-0.9
SPU	3.93	15	iP	39	13.68	-0.9
			eS	39	26.54	
SUA	3.93	15	iP	39	11.55	-0.9
			eS	39	23.37	
SVW	3.93	15	eP	39	35.87	-0.9
SYI	3.93	15	eP	39	32.74	-0.9
TOA	3.93	15	eP	39	35.20	-0.9
TRF	3.93	15	eP	39	39.22	-0.9
TZL	3.93	15	eP	39	39.56	-0.9
VLZ	3.93	15	eP	39	28.10	-0.9
VZW	3.93	15	eP	39	26.03	-0.9
WRH	3.93	15	eP	39	55.93	-0.9
BALM	3.95	82	eP	39	53.78	-3.4

67 obs. associated

% JAN 19, 1994 12h 53m 57.95± 0.85s  
39.635 N ± 6.8km 29.472 E ± 8.2km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

DST	0.65	268	ePg	54	11.00	0.0
			eSg	54	21.50	
IZI	0.70	0	iPg	54	12.10	0.2
			eSg	54	22.10	
ALT	0.76	139	ePg	54	12.90	0.0
YLV	0.93	355	ePn	54	15.60	-0.2
EYL	1.07	29	ePn	54	18.10	0.0

S.D. = 0.2 on 5 of 5 obs.

\* JAN 19, 1994 12h 59m 15.40± 2.05s  
43.570 N ± 10.2km 127.520 W ± 14.6km  
DEPTH = 10.0km (geophysicist)

2.6mb (1 obs.)

OFF COAST OF OREGON (30)

RNO	2.76	82	P	00	00.14	-0.4
MPOR	3.01	71	P	00	03.14	-1.0
TKO	3.42	57	P	00	09.59	-0.4
KMOR	3.54	53	P	00	11.01	-0.6
BBOR	3.60	99	P	00	12.29	-0.3
FBO	3.65	77	P	00	13.47	0.3
HBO	3.78	84	P	00	15.30	0.2
NLO	3.84	48	P	00	15.84	0.0
SSOR	3.86	69	P	00	16.55	0.4
WPO	3.93	58	P	00	17.47	0.4
GT2	4.08	65	P	00	19.79	0.5
BMW	4.21	45	eP	00	20.03	-1.0
RVW	4.26	51	P	00	21.92	0.1
BPO	4.34	74	P	00	23.21	0.1
LVP	4.41	54	P	00	24.42	0.4
TDH	4.45	65	P	00	25.10	0.5
MTMW	4.51	55	P	00	25.51	0.2
VBEM	4.51	69	P	00	25.87	0.4
FL2	4.52	53	P	00	26.05	0.6
SHW	4.58	53	eP	00	26.66	0.2
CDFW	4.65	55	P	00	27.70	0.3
LMW	4.83	48	P	00	29.99	0.1
ASR	4.94	56	P	00	31.52	0.0
LON	5.14	50	eP	00	33.97	-0.3
GLK	5.15	52	P	00	34.61	0.2
REMR	5.16	49	P	00	34.83	0.1
VGB	5.20	66	eP	00	34.55	-0.5
GL2	5.33	61	P	00	37.09	0.0
GSM	5.43	46	P	00	38.41	0.0

RMW	5.59	44	eP	00	40.02	-0.7
YKA	20.41	17	eP	03	55.20	0.3
	0.6s	0.20nm			2.6mb	

S.D. = 0.4 on 31 of 31 obs.

JAN 19, 1994 13h 02m 18.04± 0.29s  
38.470 N ± 3.1km 117.902 W ± 2.7km  
DEPTH = 5.0km (geophysicist)

2.9mb (1 obs.)

NEVADA (37)

ML 3.5 (GS). MD 3.2 (GM).

KVN	0.60	345	iPc	02	30.76	0.7
BONR	0.60	212	iPc	02	30.36	0.2
TNP	0.66	126	iPc	02	31.36	0.0
BCKR	0.86	206	P	02	34.86	-0.3
MRCM	0.93	211	ePc	02	36.23	-0.2
CWCR	1.02	198	P	02	38.59	0.6
ORC	1.02	216	P	02	38.00	0.0
MCSM	1.13	225	P	02	40.20	0.2
CLKR	1.14	220	P	02	40.34	0.3
MEMM	1.15	226	ePc	02	40.40	0.5
			eS	02	55.07	
HTCR	1.16	216	P	02	40.65	0.2
MTUM	1.23	205	eP	02	41.74	0.2
MMPM	1.24	226	eP	02	41.89	0.2
			eS	02	57.00	
BHPR	1.26	202	P	02	42.63	0.6
CMB	2.00	258	eP	02	52.57	-0.4
TPNV	2.01	139	eP	02	52.37	-0.7
MSTM	2.05	255	P	02	56.68	3.1X
MNHM	2.31	263	P	03	01.26	3.9X
RCWM	2.52	175	P	03	07.23	6.8X
BRMM	2.84	236	P	03	10.52	5.7X
ISA	2.84	189	ePn	03	05.25	0.3
BMSM	2.92	233	P	03	12.28	6.1X
CSTL	2.96	255	P	03	13.50	7.0X
ORV	3.01	292	ePn	03	06.51	-0.7
ARN	3.08	250	ePn	03	08.29	0.0
LTR	3.13	241	P	03	15.02	6.1X
HSPM	3.17	246	P	03	16.54	7.0X
COE	3.22	249	(P)	03	11.05	0.8
CVR	3.24	253	P	03	18.68	8.1X
MSJ	3.28	254	P	03	18.19	7.1X
GSC	3.28	164	eP	03	11.01	-0.2
PHAM	3.30	218	(P)	03	13.30	1.9
LRC	3.34	229	P	03	12.22	0.2
ARUT	3.58	100	eP	03	14.34	-1.2
BCH	3.72	209	ePn	03	15.75	-1.7
NTYM	3.74	270	(P)	03	16.18	-1.5
WDC	4.16	302	eP	03	22.23	-1.3
DUG	4.31	65	ePn	03	25.60	-0.2
MSU	4.49	88	(Pn)	03	28.06	-0.5
PEC	4.61	172	(Pn)	03	29.64	-0.4
HVU	5.13	48	(P)	03	39.35	1.7
PLM	5.17	170	ePn	03	38.14	-0.1
DAU	5.50	67	(Pn)	03	43.41	0.5
EMUT	5.67	74	(Pn)	03	46.79	1.5
			ePg	04	03.22	
SRU	5.80	81	(Pn)	03	46.12	-0.9
PV09	6.88	87	(Pn)	04	00.45	-1.9
			ePg	04	24.62	
PV10	6.96	88	eP	04	03.73	0.3
PV08	7.26	86	(P)	04	08.94	1.3
YKA	24.14	4	eP	07	35.80	0.3
	0.6s	0.20nm			2.9mb	

S.D. = 0.9 on 39 of 49 obs.

% JAN 19, 1994 13h 06m 59.30± 0.50s  
26.405 S ± 4.9km 27.531 E ± 4.9km  
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 3.2 (PRE).

PRY	0.52	186	eP	07	09.00	-0.8
			S	07	14.60	
KSR	0.78	313	eP	07	15.00	-0.1
			S	07	25.50	
BFS	0.83	234	eP	07	16.00	0.1
			S	07	26.60	
SLR	0.95	46	iPc	07	17.60	-0.4
			S	07	29.60	
SEK	1.91	178	iPc	07	33.50	0.5
			S	07	56.70	
SWZ	2.12	248	eP	07	36.00	0.0
			S	08	03.40	
BFT	2.37	73	eP	07	40.00	0.3

NWL	2.53	122	eP	07	41.90	0.1
			S	08	11.50	
BOSA	2.89	220	eP	07	47.40	0.5
			S	08	20.90	
BLF	2.94	204	iPd	07	47.50	-0.3
			S	08	22.00	
CIR	6.52	35	iPn	08	19.00	-19.4X
			iSn	09	30.50	
			iSg	10	04.50	
SUR	8.35	223	eP	08	25.00	-39.1X
			S	09	59.00	

S.D. = 0.5 on 10 of 12 obs.

? JAN 19, 1994 13h 16m 41.20± 5.78s  
36.550 N ± 47.2km 2.795 W ± 11.3km  
DEPTH = 5.0km (geophysicist)

STRAIT OF GIBRALTAR (385)

mbLg 3.0 (MDD).

ENIJ	0.63	48	iPc	16	53.62	-0.2
			eS	17	03.70	
EGUA	0.68	295	iPc	16	54.33	-0.5
			eS	17	03.60	
ECOG	0.95	320	eP	16	59.20	-0.7
			eS	17	12.70	
EHUE	1.27	7	eP	17	04.83	-0.5
			eS	17	23.30	
EBAN	1.79	334	eP	17	14.95	1.9
			eS	17	38.20	
EVIA	2.10	6	eP	17	19.99	2.5X
			eS	17	46.60	

S.D. = 1.5 on 5 of 6 obs.

& JAN 19, 1994 13h 17m 19.66s  
34.345 N 118.506 W

DEPTH = 4.8km

SOUTHERN CALIFORNIA (43)

&lt;PAS&gt;. ML 2.9 (PAS), 3.2 (GS).

FTC	0.61	329	P	17	31.21	-0.7
SSK	0.69	101	ePc	17	32.09	-1.3
RYS	0.76	293	P	17	34.77	-0.3
ABL	0.78	311	eP	17	33.90	-1.5
PLEC	0.78	323	P	17	34.74	-0.5
BMTC	0.79	355	P	17	34.12	-1.5
SNDC	0.81	12	P	17	36.49	0.5
TEJ	0.90	350	P	17	34.82	-2.5
MARC	0.95	314	P	17	37.49	-0.8
LPC	1.01	279	P	17	38.32	-1.0
WJPM	1.06	1	P	17	39.02	-1.2
TMB	1.13	311	P	17	40.80	-0.5
WOFM	1.20	352	P	17	41.90	-0.7
PEC	1.20	112	ePc	17	40.66	-1.9
			eS	17	57.07	
WBSM	1.23	14	P	17	42.12	-1.0
ISA	1.32	1	eP	17	43.38	-1.1
CRGC	1.34	312	P	17	44.52	-0.5
WORM	1.37	9	P	17	44.90	-0.5
SCCM	1.50	294	P	17	47.18	-0.1
BCH	1.55	303	eP	17	46.88	-1.2
WCHM	1.57	13	P	17	49.81	1.2
TOW	1.58	22				



19d 13h

SOH 1.80 192 eSb 20 59.08  
ePb 20 39.20 0.5  
iSb 21 05.04  
SKO 1.88 252 ePn 20 46.00 6.1X  
i 20 52.70  
GRG 1.95 214 ePn 20 40.36 -0.5  
eSn 21 09.48  
ALN 2.36 135 ePn 20 46.76 0.0  
eSn 21 18.64  
PAIG 2.65 183 ePn 20 51.84 0.8  
MLR 3.28 27 eP 21 00.00 0.0  
S.D. = 0.8 on 8 of 9 obs.

% JAN 19, 1994 13h 40m 07.84± 0.69s  
26.204 S ± 7.0km 28.227 E ± 6.9km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.3 (PRE).

SLR 0.47 6 iPd 40 16.90 -0.4  
S 40 21.70  
KSR 1.24 285 eP 40 31.00 -0.5  
S 40 45.50  
BFS 1.47 242 iPd 40 34.90 -0.2  
S 40 53.00  
BFT 1.71 73 eP 40 39.90 1.2  
S 41 00.50  
NWL 2.16 135 eP 40 43.90 -1.2  
S 41 09.60  
SEK 2.18 194 eP 40 44.90 -0.5  
S 41 11.10  
SWZ 2.77 249 eP 40 54.00 0.1  
S 41 29.10  
BOSA 3.47 226 eP 41 05.00 1.5  
S 41 49.10  
S.D. = 1.1 on 8 of 8 obs.

\* JAN 19, 1994 13h 42m 51.22± 1.07s  
12.801 N ±10.7km 119.976 E ±20.0km  
DEPTH = 33.0km (normal)  
4.3mb ( 2 obs.)  
PHILIPPINE ISLANDS REGION (248)  
Felt (1 RF) at Puerto Galera.

PGP 1.18 54 iPc 43 10.60 -0.9  
iS 43 24.00  
TGY 1.60 36 iPc 43 19.00 1.5  
iS 43 38.00  
QVP 2.07 29 eP 43 24.00 -0.3  
eS 43 48.50  
GQP 2.64 65 ePd 43 33.00 0.5  
iS 44 02.00  
PPR 3.24 202 iPc 43 41.30 0.3  
iS 44 21.00  
CVP 5.19 20 eP 44 08.00 -0.7  
BJI 27.34 354 eP 48 51.00 15.9X  
1.2s 8.00nm  
WB2 35.48 156 eP 49 45.50 -1.4  
0.4s 2.60nm 4.5mb  
e 49 56.80  
ASPA 38.72 159 eP 50 15.10 0.9  
1.2s 3.70nm 4.0mb  
S.D. = 1.2 on 8 of 9 obs.

JAN 19, 1994 13h 44m 21.73± 1.11s  
34.262 N ±11.4km 118.712 W ± 8.7km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.7 (GS).

ABL 0.72 325 eP 44 35.88 -0.2  
SSK 0.85 93 eP 44 37.79 -0.4  
eS 44 50.65  
PEC 1.34 106 eP 44 46.30 -0.1  
ISA 1.41 8 eP 44 46.22 -1.3  
BCH 1.46 310 eP 44 48.68 0.5  
PLM 1.79 120 eP 44 53.03 0.0  
GSC 1.88 56 eP 44 54.73 0.4  
TPNV 3.35 36 (P) 45 16.42 1.1  
BONR 3.70 5 ePg 45 29.39 8.9X  
S.D. = 0.8 on 8 of 9 obs.

& JAN 19, 1994 14h 09m 14.83s  
34.215 N 118.510 W  
DEPTH = 17.2km  
4.3mb ( 8 obs.)  
SOUTHERN CALIFORNIA (43)

<PAS-P>. ML 4.5 (PAS), 4.5 (GS),  
4.4 (BRK). Mo=6.2\*10\*\*15 Nm  
(BRK).

GVRG 0.36 117 P 09 22.25 -0.2  
TCC 0.47 118 P 09 24.00 -0.2  
SSK 0.68 90 eP 09 27.29 -0.7  
LOK 0.70 317 P 09 27.28 -1.0  
GAV 0.85 103 P 09 30.06 -0.7  
ABL 0.86 317 iPd 09 29.79 -1.4  
SME 1.04 112 P 09 32.74 -1.2  
PEC 1.17 106 eP 09 34.50 -1.7  
HOD 1.22 59 P 09 36.25 -0.8  
WBSM 1.35 13 P 09 38.59 -0.5  
RAY 1.42 97 P 09 39.27 -0.8  
ISA 1.45 1 eP 09 39.68 -0.6  
WSCM 1.57 19 P 09 41.18 -0.9  
BCH 1.62 307 eP 09 41.66 -1.1  
PLM 1.62 122 ePd 09 41.00 -1.9  
YEG 1.70 316 P 09 43.09 -0.9  
CLC 1.77 25 P 09 43.86 -1.0  
GSC 1.77 52 iPc 09 44.29 -0.8  
CPE 1.78 138 P 09 42.74 -2.3  
CPM 1.92 91 P 09 47.50 0.4  
LAQC 1.94 107 P 09 46.68 -0.7  
PTRM 2.00 316 P 09 47.59 -0.7  
PMGM 2.05 307 P 09 47.45 -1.6  
PAGM 2.08 317 P 09 48.54 -0.9  
PMRM 2.11 318 P 09 48.70 -1.2  
PMCM 2.15 315 P 09 49.12 -1.3  
PSRM 2.19 319 P 09 49.84 -1.2  
GHC 2.21 317 P 09 47.59 -3.7  
PHAM 2.24 317 eP 09 50.20 -1.5  
PKEM 2.26 325 eP 09 50.75 -1.2  
CTM 2.28 319 P 09 51.27 -1.1  
WKR 2.29 315 P 09 50.91 -1.5  
CBKC 2.30 124 P 09 51.13 -1.4  
SHH 2.37 90 P 09 51.95 -1.6  
PSTM 2.37 317 P 09 52.18 -1.4  
PADM 2.40 307 P 09 52.00 -2.0  
HAY 2.44 101 P 09 56.58 2.0  
PCRM 2.45 320 P 09 53.22 -1.4  
PANM 2.51 309 P 09 53.36 -2.2  
PSMM 2.52 318 P 09 54.80 -0.9  
PRI 2.61 318 eP 09 55.25 -1.8  
PTV 2.62 317 P 09 55.40 -1.7  
CO2 2.65 97 P 09 56.06 -1.6  
PSAM 2.66 313 P 09 55.41 -2.2  
PRCM 2.67 320 P 09 56.25 -1.6  
MOP 2.74 317 P 09 57.20 -1.6  
ERPC 2.80 121 P 10 02.05 2.5  
SGL 2.80 123 P 10 00.01 0.3  
FRI 2.94 341 iP 09 59.85 -1.7  
eS 10 34.86  
MTUM 3.13 359 eP 10 04.36 -0.2  
GLA 3.28 110 ePn 10 04.79 -1.8  
TPNV 3.29 33 eP 10 05.94 -0.9  
MMPM 3.41 353 eP 10 09.08 0.4  
MRCM 3.45 0 eP 10 09.58 0.5  
MEMM 3.46 354 eP 10 09.58 0.6  
SAO 3.49 318 eP 10 06.75 -2.7  
BONR 3.74 3 eP 10 13.20 0.0  
ARN 3.98 323 eP 10 12.99 -3.4  
COE 3.98 321 eP 10 13.24 -3.1  
TNP 4.00 15 ePn 10 16.43 -0.4  
ePg 10 27.52  
MHC 4.03 322 eP 10 15.54 -1.6  
CMB 4.10 339 eP 10 17.55 -0.6  
JEGM 4.60 317 eP 10 21.72 -3.5  
BKS 4.74 322 eP 10 23.80 -3.4  
HMR 4.75 327 eP 10 26.15 -1.1  
ZSP 4.80 322 iP 10 25.95 -2.1  
KVN 4.84 4 eP 10 29.43 0.7  
NTYM 5.35 322 eP 10 32.79 -2.9  
ARUT 5.44 48 eP 10 36.36 -0.9  
ORV 5.84 337 eP 10 40.32 -2.4  
MSU 6.67 48 eP 10 54.32 -0.4  
TUC 6.74 104 eP 10 51.34 -4.2  
WDC 7.12 334 eP 10 57.75 -2.9  
DUG 7.50 36 eP 11 06.72 0.5  
LGPM 7.51 334 eP 11 04.92 -1.4  
LBFM 7.61 340 eP 11 06.63 -1.1  
KMPM 7.63 326 eP 11 05.39 -2.6  
SRU 8.06 50 eP 11 14.67 0.5  
EMUT 8.31 46 eP 11 18.67 1.0  
DAU 8.46 41 eP 11 20.31 0.5  
PV09 8.69 58 eP 11 23.30 0.4

PV10 8.70 59 eP 11 21.62 -1.4  
HVV 8.80 29 ePn 11 25.85 1.5  
PV08 9.06 58 eP 11 29.53 1.4  
VGB 11.42 352 eP 11 56.94 -3.2  
MCMT 11.46 21 eP 12 03.70 2.8  
e 12 10.40  
LRM 12.48 20 eP 12 17.30 2.6  
e 12 26.90  
LON 12.77 350 eP 12 18.05 -0.2  
NEW 14.07 4 (P) 12 36.27 0.8  
RSSD 14.94 44 eP 12 47.83 0.8  
1.0s 11.08nm 4.2mb  
ACO 15.97 76 iPd 13 04.20 3.9  
MEO 16.44 82 iPc 13 13.00 6.8  
TUL 18.67 78 iPc 13 33.50 -0.5  
UYO 19.89 83 iPd 13 45.30 -2.9  
MIAR 20.57 82 eP 13 53.41 -1.9  
1.3s 34.03nm 4.6mb  
ULM 23.05 39 eP 14 21.00 1.0  
YKA 28.41 4 eP 15 10.30 0.2  
0.6s 0.60nm 3.5mb  
YKA 28.41 4 eP 15 25.30 15.2  
0.7s 1.50nm  
PRM 29.82 80 eP 15 21.04 -2.1  
PMR 33.63 334 eP 15 55.33 -0.8  
0.8s 20.10nm 5.1mb  
TTA 37.02 332 eP 16 24.30 -0.8  
IMA 38.06 338 eP 16 32.56 -1.3  
0.6s 2.83nm 4.2mb  
MBC 42.12 360 eP 17 08.50 1.4  
1.0s 4.00nm 4.1mb  
RES 42.15 9 eP 17 07.00 -0.4  
FRB 42.41 30 eP 17 09.00 -0.6  
LPZ 69.42 128 P 20 22.90 -2.0  
LPB 69.62 128 P 20 24.80 -1.0  
SIV 73.99 123 P 20 49.60 -1.9  
HFS 78.12 22 eP 21 11.90 -2.1  
0.5s 1.50nm 4.3mb  
BRG 85.49 28 eP 21 52.10 -0.6  
1.1s 10.00nm 4.9mb  
110 obs. associated

& JAN 19, 1994 14h 35m 34.05s  
59.874 N 153.494 W  
DEPTH = 138.7km  
SOUTHERN ALASKA ( 2)  
<AEIC>.

OPT 0.26 149 eP 35 52.42 0.6  
eS 36 06.95  
INE 0.29 49 eP 35 52.70 0.7  
eS 36 07.84  
ILIM 0.34 52 eP 35 52.42 0.3  
eS 36 07.17  
PDB 0.36 257 eP 35 52.53 0.4  
eS 36 06.91  
AUL 0.49 176 eP 35 53.49 -0.8  
AUW 0.51 179 eP 35 53.62 -0.7  
AUH 0.51 177 eP 35 53.70 -0.8  
AUE 0.52 173 eP 35 53.46 -1.0  
AUI 0.54 176 eP 35 53.66 -0.9  
RED 0.66 33 eP 35 54.70 -0.7  
eS 36 10.35  
RS2 0.70 32 eP 35 54.99 -0.9  
eS 36 11.82  
RDW 0.70 29 eP 35 54.69 -1.2  
REF 0.73 32 eP 35 55.10 -1.0  
NCT 0.75 22 eP 35 55.06 -1.0  
DFR 0.83 29 eP 35 55.56 -1.1  
CDD 0.95 185 eP 35 56.42 -1.2  
HOM 0.96 102 eP 35 56.65 -1.0  
eS 36 14.59  
CNPM 1.20 106 eP 35 58.46 -1.5  
eS 36 16.99  
BKG 1.35 26 eP 36 00.77 -0.8  
SYI 1.39 155 eP 36 00.34 -1.5  
NKA 1.42 51 eP 36 02.68 0.5  
SPU 1.49 28 eP 36 02.18 -0.9  
eS 36 24.54  
CRP 1.55 25 eP 36 02.13 -1.7  
CGLM 1.62 26 eP 36 03.72 -0.8  
NCG 1.67 23 eP 36 04.05 -1.1  
SLKM 1.75 67 eP 36 04.84 -1.2  
SEW 2.05 82 eP 36 08.05 -1.4  
SUA 2.09 39 eP 36 09.16 -1.0  
MPA 2.16 72 eP 36 09.42 -1.4  
KDC 2.20 166 (P) 36 12.24 1.0



19d 14h

SKT 2.32 24 eP 36 11.84 -1.1  
 PWL 2.75 67 eP 36 15.81 -2.5  
 PLRM 2.75 49 eP 36 18.32 0.0  
 PMR 2.75 49 eP 36 14.95 -3.3  
 KNK 2.92 56 eP 36 18.01 -2.6  
 GHO 2.94 48 eP 36 18.63 -2.2  
 CFI 3.12 63 eP 36 21.05 -2.0  
 SML 3.19 50 eP 36 22.57 -1.4  
 FID 3.60 73 eP 36 27.18 -2.2  
 VLZ 3.76 67 eP 36 29.54 -2.0  
 TRF 3.90 22 eP 36 32.88 -0.7  
 KLU 4.06 63 eP 36 33.04 -2.6  
 ILB 5.80 29 eP 36 56.17 -2.7  
 IL1 5.80 29 eP 36 56.14 -2.8  
 IM3 6.13 359 eP 37 02.17 -1.3  
 BC3 6.46 55 eP 37 06.11 -1.8

46 obs. associated

& JAN 19, 1994 14h 46m 35.20s  
 34.292 N 118.466 W  
 DEPTH = 6.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>-P>. ML 4.0 (PAS), 4.1 (GS).

SSK 0.65 97 eP 46 47.16 -1.0  
 FTC 0.68 329 P 46 47.77 -1.0  
 ABL 0.84 312 ePc 46 50.24 -1.6  
 ARVC 0.89 340 P 46 51.52 -1.0  
 TEJ 0.95 349 P 46 51.12 -2.6  
 MARC 1.01 315 P 46 53.75 -0.9  
 PEC 1.15 110 eP 46 55.49 -1.7  
 WOFM 1.26 351 P 46 58.10 -0.9  
 ISA 1.37 360 eP 46 59.73 -1.1  
 WORM 1.41 7 P 47 00.95 -0.6  
 SCCM 1.55 295 P 47 02.55 -0.8  
 BCH 1.60 304 eP 47 02.38 -1.8  
 TOW 1.62 21 P 47 03.32 -1.1  
 WCHM 1.62 11 P 47 04.75 0.1  
 PLM 1.63 125 iPc 47 02.44 -2.3  
 GSC 1.70 53 iPc 47 04.25 -1.3  
 RCWM 1.79 22 P 47 05.49 -1.4  
 WLHM 1.86 4 P 47 07.26 -0.9  
 PMGM 2.04 304 P 47 08.27 -2.2  
 PAGM 2.05 315 P 47 09.85 -0.8  
 PMRM 2.08 316 P 47 10.92 -0.1  
 PMCM 2.12 313 P 47 13.90 2.3  
 PHAM 2.21 315 eP 47 10.96 -2.0  
 PKEM 2.22 323 ePn 47 12.85 -0.2  
 WKR 2.26 313 P 47 13.14 -0.6  
 PSTM 2.34 315 P 47 13.23 -1.6  
 PADM 2.38 305 P 47 12.80 -2.7  
 PANM 2.49 307 P 47 14.84 -2.1  
 PSAM 2.63 312 P 47 16.84 -2.1  
 PAPM 2.87 305 P 47 19.36 -3.1  
 BMSM 3.03 322 P 47 22.17 -2.5  
 MTUM 3.06 359 ePn 47 23.77 -1.3

TPNV 3.21 34 ePn 47 25.40 -1.8  
 BCWM 3.24 309 P 47 25.25 -2.4  
 GLA 3.28 111 ePn 47 25.21 -2.9  
 MMPM 3.34 352 ePn 47 29.22 -0.1  
 MRCM 3.37 359 ePn 47 30.83 1.2  
 MEMM 3.39 354 ePn 47 29.97 0.3  
 BVYM 3.43 316 P 47 28.02 -2.3  
 SAO 3.46 316 eP 47 27.61 -3.1  
 BONR 3.66 2 ePn 47 34.74 0.9  
 CBO 3.85 318 P 47 35.10 -1.1  
 TNP 3.91 15 ePn 47 36.98 -0.4  
 ARN 3.94 322 eP 47 34.13 -3.4  
 CMB 4.04 338 eP 47 38.03 -1.0  
 KVN 4.76 3 ePg 48 01.88 12.5  
 ARUT 5.36 48 ePn 47 57.30 -0.6

ORV 5.79 336 eP 48 00.88 -2.8  
 MSU 6.59 48 ePn 48 14.72 -0.6  
 DUG 7.42 36 ePg 48 53.71 27.0  
 SRU 7.99 51 ePn 48 35.79 1.0  
 DAV 8.38 41 (P) 48 39.12 -1.3  
 PV09 8.61 58 eP 48 42.72 -0.9  
 PV10 8.63 59 ePn 48 42.35 -1.4  
 PV08 8.99 59 (P) 48 48.79 -0.1

55 obs. associated

& JAN 19, 1994 15h 03m 47.55s  
 34.293 N 118.460 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS>-P>. ML 3.7 (PAS), 3.7 (GS).

MWC 0.34 102 P 03 54.20 -0.3  
 JNH 0.45 70 P 03 55.79 -0.7  
 PEM 0.50 104 P 03 57.09 -0.6  
 LJB 0.59 59 P 03 58.18 -1.1  
 SSK 0.64 97 ePc 03 59.43 -1.0  
 SBB 0.66 53 P 03 59.45 -1.3  
 FTC 0.68 328 P 04 00.17 -1.0  
 RYS 0.82 296 P 04 02.68 -1.2  
 ABL 0.84 312 ePc 04 02.60 -1.7  
 PLEC 0.84 324 P 04 03.51 -0.7  
 SNDC 0.86 9 P 04 03.34 -1.2  
 ARVC 0.89 340 P 04 03.85 -1.1  
 HYS 0.93 52 P 04 04.42 -1.3  
 SME 1.03 117 P 04 05.82 -1.6  
 LPC 1.06 281 P 04 06.82 -1.1  
 HOD 1.14 61 P 04 08.14 -1.2  
 PEC 1.15 110 ePc 04 07.82 -1.6  
 WHVM 1.22 358 P 04 09.46 -1.1  
 WOFM 1.26 351 P 04 10.35 -1.0  
 WBSM 1.27 12 P 04 10.52 -1.1  
 SIL 1.35 87 P 04 12.42 -0.6  
 ISA 1.37 360 ePc 04 12.01 -1.2  
 WORM 1.41 7 P 04 13.36 -0.5  
 POB 1.41 115 P 04 11.82 -2.1  
 WASM 1.44 357 P 04 13.59 -0.9  
 WWPM 1.47 12 P 04 13.23 -1.5  
 XMS 1.53 36 P 04 14.63 -0.8  
 WSHM 1.56 30 P 04 14.39 -1.5  
 BCH 1.61 304 eP 04 15.00 -1.6  
 NMC 1.61 16 P 04 16.97 0.3  
 TOW 1.62 20 P 04 16.70 0.0  
 WCHM 1.62 11 P 04 18.30 1.3  
 PLM 1.63 125 iPc 04 14.91 -2.1  
 PSP 1.66 107 P 04 16.21 -1.1  
 CLC 1.68 25 P 04 16.06 -1.6  
 GSC 1.69 53 ePc 04 16.65 -1.2  
 EWC 1.76 101 P 04 18.00 -0.8  
 RCWM 1.78 22 P 04 18.68 -0.5  
 CPM 1.88 94 P 04 20.20 -0.4  
 INS 1.91 100 P 04 19.87 -1.3  
 PAGM 2.05 315 P 04 24.72 1.7  
 PHAM 2.21 315 (P) 04 26.94 1.6  
 SHH 2.33 92 P 04 25.45 -1.6  
 PADM 2.39 305 P 04 25.61 -2.3  
 PAPM 2.88 305 P 04 31.68 -3.2  
 MTUM 3.05 358 eP 04 38.53 1.1  
 TPNV 3.20 34 eP 04 38.32 -1.2  
 GLA 3.27 111 eP 04 38.74 -1.7  
 ORC 3.34 357 P 04 48.38 6.8  
 MMPM 3.34 352 (P) 04 41.73 0.0  
 MRCM 3.37 359 (P) 04 40.64 -1.4  
 MEMM 3.39 354 (Pn) 04 40.90 -1.1  
 SAO 3.47 316 eP 04 40.08 -3.0  
 BONR 3.66 2 eP 04 47.75 1.6  
 TNP 3.91 15 (Pn) 04 49.97 0.3  
 ARN 3.94 322 eP 04 49.31 -0.6  
 CMB 4.05 338 eP 04 49.47 -1.9  
 KVN 4.76 3 (P) 05 03.33 1.6  
 ARUT 5.36 48 eP 05 10.21 0.0  
 MSU 6.59 48 (Pn) 05 27.18 -0.4  
 LGPM 7.46 334 (P) 05 39.23 -0.4  
 PV10 8.62 59 eP 05 55.52 -0.6

62 obs. associated

? JAN 19, 1994 15h 06m 14.10± 2.20s  
 39.661 N ±11.7km 29.458 E ±28.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

IZI 0.68 1 iPg 06 27.00 -0.6  
 ALT 0.79 140 ePg 06 29.50 0.0  
 YLV 0.91 356 ePn 06 32.00 0.5  
 EYL 1.05 30 ePn 06 34.10 0.1

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

? JAN 19, 1994 15h 07m 41.11± 1.01s  
 39.620 N ± 8.4km 29.461 E ±10.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.5 (ISK).

DST 0.64 269 ePg 07 54.00 0.0  
 IZI 0.72 1 iPg 08 04.40 -0.8  
 ALT 0.76 138 ePg 07 56.00 0.0  
 YLV 0.95 356 ePn 08 00.00 0.8  
 S.D. = 1.1 on 4 of 4 obs.

% JAN 19, 1994 15h 19m 19.80± 0.82s  
 33.866 S ± 6.8km 71.377 W ± 7.4km  
 DEPTH = 33.0km (normal)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.4 (SAN).

LNV 0.09 198 iPd 19 25.81 0.3  
 LCCH 0.42 337 iPd 19 28.78 -0.5  
 TACH 0.42 60 iP+ 19 29.45 0.2  
 CHCH 0.61 97 iP+ 19 31.74 -0.2  
 CACH 0.69 111 iP+ 19 33.20 0.0  
 PCH 0.76 71 iP+ 19 33.98 -0.2  
 PEL 0.92 39 iP 19 36.69 0.2  
 ROCH 0.94 19 iP 19 37.08 0.2  
 FCH 1.05 60 iP+ 19 38.38 -0.2  
 JACH 1.35 29 iP 19 42.91 0.3  
 S.D. = 0.3 on 10 of 10 obs.

% JAN 19, 1994 16h 10m 39.47± 2.36s  
 44.244 N ±15.7km 7.166 E ±17.5km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.1 (GEN).

STV 0.11 90 P 10 42.90 0.4  
 ENR 0.18 95 P 10 43.72 0.1  
 PZZ 0.27 350 P 10 45.09 0.0  
 ROB 0.51 84 P 10 49.53 -0.3  
 IMI 0.62 122 P 10 51.78 -0.2  
 S.D. = 0.4 on 5 of 5 obs.

JAN 19, 1994 16h 26m 48.06± 0.18s  
 17.584 S ± 5.7km 178.495 W ± 3.4km  
 DEPTH = 533.3km (22 depth phases)  
 5.4mb (63 obs.)

FIJI ISLANDS REGION (181)  
 Mw 6.1 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 51S, \*\*C  
 Centroid Location:  
 Origin Time 16:26:55.9 0.2  
 Lat 17.37S 0.02 Lon 178.28W 0.01  
 Dep 561.0 0.8 Half-duration 2.6  
 Moment Tensor; Scale 10\*\*18 Nm  
 Mrr= 0.10 0.01 Mtt= 0.33 0.02  
 Mff=-0.43 0.02 Mrt=-0.36 0.02  
 Mrf=-1.14 0.01 Mtf= 0.60 0.02  
 Principal Axes:  
 T Val= 1.41 Plg=39 Azm=133  
 N -0.04 31 14  
 P -1.37 35 259  
 Best Double Couple: Mo=1.4\*10\*\*18  
 NP1: Strike=289 Dip=31 Slip= 4  
 NP2: 195 88 121

MBU 2.73 282 iPd 28 03.60 2.9  
 VUN 2.93 261 iPd 28 04.30 2.4  
 SVA 2.95 259 ePc 28 03.20 1.2  
 FVC 12.58 267 iPd 29 35.50 2.3



BKM	12.64	268	iPc	29	35.00	1.1	KHKI	64.61	269	eP	36	32.20	-2.9	GLA	78.91	50	P	37	58.30	0.8
			iS	32	06.50				e	39	44.80			BONR	78.99	44	P	37	58.30	0.2
DZM	14.85	250	iPc	29	56.10	-0.2	GQP	66.14	294	ePc	36	40.50	-4.1X			pP	39	54.10	537km	
			iS	32	32.60		KAKJ	66.25	324	P	36	43.80	-1.1	DL2	79.30	317	Pd	38	00.00	0.8
HNR	22.45	288	eP	31	07.00	-1.5	CSY	66.40	205	eP	36	45.00	-0.4		0.7s	67.00nm			5.2mb	
AFR	27.37	94	iPd	31	51.00	-1.2		1.1s	86.20nm			5.2mb			pP	39	56.00	538km		
	0.8s	511.50nm			6.2mb		TSM	66.41	283	ePc	36	46.10	-0.2			sP	40	50.00		
PAE	27.55	95	iPd	31	52.60	-1.1		0.3s	116.60nm			5.9mb		KGM	79.36	276	eP	38	01.00	0.9
	0.9s	644.70nm			6.2mb		CHJJ	66.80	323	P	36	47.50	-0.8		1.2s	190.20nm			5.4mb	
PPT	27.56	94	iPd	31	52.80	-1.1	IIDJ	67.02	322	P	36	48.90	-0.8	SNY	79.69	320	Pc	38	00.00	-1.2
	0.8s	646.90nm			6.3mb		WKYJ	67.55	320	P	36	52.60	-0.4		1.4s	40.00nm			4.7mb	
Z	28s	8575.00um			8.2MszX		OFUJ	67.57	327	P	36	51.80	-1.1			pP	39	56.00	537km	
PPN	27.70	94	iPd	31	54.00	-1.1	MAT	67.60	323	iPd	36	51.80	-1.4	CN2	79.71	322	Pd	38	01.60	0.3
	1.1s	420.00nm			5.9mb			1.0s	53.00nm			5.1mb			1.2s	150.00nm			5.3mb	
TVO	27.85	95	iPd	31	55.40	-1.1			eS	45	07.00				epP	39	56.00	528km		
	1.0s	1420.80nm			6.5mb X		NIJ	67.65	324	eP	36	53.00	-0.4		esP	40	50.00			
PMO	29.47	89	iPd	32	09.20	-1.2	YAMJ	67.76	326	P	36	53.70	-0.4	KVN	79.72	43	P	38	02.10	0.4
	1.5s	3033.60nm			6.7mb X		MTMJ	67.86	323	P	36	54.10	-0.8	TNP	79.79	45	P	38	02.30	0.2
VAH	29.68	90	iPd	32	11.10	-1.2	TSRJ	68.20	321	eP	36	56.30	-0.5		1.3s	61.59nm			4.9mb	
	1.4s	1422.00nm			6.4mb		TKSJ	68.35	319	P	36	56.80	-1.0	TPNV	79.86	46	P	38	02.70	0.2
TPT	29.73	90	iPd	32	11.60	-1.1	CVP	68.39	298	ePd	36	58.50	0.2		0.7s	8.52nm			4.3mb X	
	1.5s	2356.70nm			6.6mb X		KKM	68.58	284	ePd	37	04.00	4.3X	WHN	80.35	306	Pd	38	05.50	0.6
RUV	29.93	90	iPd	32	13.20	-1.2		1.0s	160.70nm			5.5mb		SVW	80.54	11	eP	38	04.70	-0.6
	1.4s	2265.40nm			6.6mb X		KAGJ	68.66	315	P	36	59.30	-0.4	TIA	80.97	312	Pc	38	08.10	0.1
ARMA	30.03	239	eP	32	15.00	-0.4	BAG	68.86	296	eP	37	00.50	-0.9		1.0s	56.00nm			5.0mb	
	0.5s	69.00nm			5.5mb		ADK	69.19	1	eP	37	00.60	-1.8			pP	40	06.00	545kmX	
		ePP	33	01.70				0.6s	52.90nm			5.3mb			sP	40	59.00			
RIV	31.61	233	iPc	32	31.10	2.6	KUSJ	69.20	332	eP	37	01.50	-1.1	SLKM	81.10	14	P	38	07.00	-1.2
	1.0s	*****nm			7.4mb X		HOQJ	69.29	331	eP	37	03.40	0.2	SHW	81.25	36	P	38	09.90	0.5
RAB	31.67	291	eP	32	28.00	-1.2	KUMJ	69.52	316	P	37	04.30	-0.5	CRP	81.36	13	P	38	08.00	-1.7
CNB	33.56	232	iPd	32	45.90	0.9	SMY	70.31	355	eP	37	07.50	-1.5	TUC	81.57	52	P	38	13.50	2.2
	1.0s	620.00nm			6.2mb			0.4s	82.20nm			5.6mb			1.2s	73.49nm			5.1mb	
CAN	33.84	232	iPd	32	47.70	0.4	SHNJ	70.32	317	P	37	08.30	-1.2	VGB	81.68	37	P	38	10.90	-0.6
		i	33	19.50	147kmX		MRRJ	70.38	329	eP	37	09.20	-0.4	GMW	81.77	34	P	38	11.80	0.0
BWA	33.94	234	iPd	32	46.20	-2.0	ASAJ	70.93	331	eP	37	13.50	0.7	LON	81.82	35	P	38	11.80	-0.4
PMG	34.32	279	ePd	32	52.00	0.5	QZH	74.43	303	Pc	37	33.50	0.3	TTA	82.17	10	eP	38	13.80	0.2
LAT	35.37	284	eP	33	01.10	0.9		1.2s	110.00nm			5.2mb		ARUT	82.21	46	P	38	14.80	0.3
YYYY	36.48	284	eP	33	09.60	0.1			pP	39	25.00	522kmX			pP	40	12.00	539km		
MDG	37.02	285	eP	33	15.00	1.3			sP	40	24.00		RMW	82.25	35	P	38	14.20	-0.1	
TOO	37.31	230	eP	33	16.80	0.8			S	46	27.00		PMR	82.31	14	eP	38	13.60	-0.6	
		eS	38	28.10			SSE	75.47	310	Pc	37	38.50	-0.3		0.3s	16.10nm			5.0mb	
MNDI	38.66	282	e(P)	33	27.00	-0.5		1.0s	33.00nm			4.8mb		IPM	82.33	277	ePd	38	16.00	0.6
STK	38.72	241	eP	33	27.40	-0.1			sP	40	28.00			1.0s	186.30nm			5.6mb		
	1.2s	252.60nm			5.7mb				S	46	36.00		MCW	82.43	34	P	38	15.40	0.2	
		ePP	35	17.10			KLI	75.83	269	eP	37	39.90	-1.3	KLU	82.98	15	P	38	16.90	-0.8
		eS	38	46.10			SAO	76.25	44	ePc	37	42.84	-0.2	MSU	83.44	46	P	38	21.40	0.7
QIS	39.63	259	eP	33	34.80	-0.3			epP	39	36.99	533km		TOA	83.45	15	eP	38	20.30	0.3
ADE	41.74	237	iPd	33	51.50	-0.4	BCH	76.29	46	P	37	44.00	0.6	BJI	83.50	315	eP	38	21.00	0.4
MHA	43.60	32	P	34	06.90	0.4	BKS	76.37	43	ePc	37	44.11	0.4		1.3s	69.00nm			5.1mb	
HKL	43.86	31	P	34	08.20	-0.9			epP	39	37.86	531km			epP	40	16.00	524km		
WB2	44.60	259	iPc	34	12.70	-1.8	COE	76.38	43	P	37	44.20	0.4		esP	41	10.00			
	0.8s	286.60nm			5.9mb				pP	39	38.70	535km			S	47	52.00			
		eScP	38	48.50			MHC	76.45	43	ePc	37	44.59	0.3		eSS	53	36.00			
		eS	40	10.10					epP	39	38.54	532km		SNG	83.53	280	eP	38	23.30	2.0
WRA	44.61	259	P	34	12.90	-1.6	ARN	76.52	43	P	37	44.80	0.2		0.7s	117.81nm			5.6mb	
	0.9s	90.30nm			5.3mb		KMPM	76.69	40	P	37	46.00	0.5			eS	47	58.00		
GUA	47.55	308	eP	34	36.70	-0.3			pP	39	40.60	535km		BALM	83.53	17	P	38	20.00	-0.5
	1.1s	911.39nm			6.2mb		ABL	76.70	47	P	37	46.10	0.2	DUG	83.81	45	P	38	22.40	0.0
GUMO	47.61	308	eP	34	36.80	-0.6	SSK	77.43	48	P	37	49.90	0.1		1.4s	20.97nm			4.6mb	
	1.2s	617.30nm			6.0mb		PLM	77.58	49	P	37	50.80	0.2	DPW	84.48	36	P	38	25.20	-0.2
PJG	47.61	308	eP	34	36.30	-1.2	PEC	77.65	48	P	37	50.60	-0.1	HVU	84.60	43	P	38	26.30	0.0
MTN	48.73	268	iPd	34	46.70	0.7		0.8s	31.92nm			4.8mb			pP	40	23.90	537km		
	0.4s	217.00nm			6.0mb		ISA	77.65	46	P	37	50.90	0.1	GYA	84.80	300	iPd	38	28.00	0.5
FORT	50.07	244	eP	34	54.40	-1.3		1.2s	74.16nm			5.0mb			1.0s	62.00nm			5.2mb	
	0.5s	159.00nm			5.8mb		CMB	77.66	43	ePc	37	50.60	-0.2			pP	40	26.00	539km	
KNA	50.42	264	iPd	34	57.20	-1.2			epP	39	44.40	528km			SKS	48	02.00			
	0.8s	365.00nm			5.9mb		NJ2	77.67	309	Pd	37	51.20	0.4	SRU	84.85	46	P	38	27.60	0.0
WARB	51.31	250	iPd	35	03.80	-1.2		1.0s	52.00nm			4.9mb			pP	40	25.40	538km		
		eS	41	45.00					pP	39	48.00	546kmX		DAU	84.96	45	P	38	28.10	-0.1
MBL	57.98	256	eP	35	50.20	-1.6	WDC	77.75	40	ePc	37	51.30	0.2	EMUT	84.98	46	P	38	28.30	0.0
MEEK	58.47	249	eP	35	53.20	-1.9			epP	39	45.70	532km			pP	40	28.30	550kmX		
	0.2s	30.00nm			5.3mb		LGPM	77.77	40	P	37	51.60	0.2	TIY	84.99	312	P	38	28.00	-0.1
KLB	58.89	243	eP	35	56.20	-1.7	ORV	77.81	42	ePc	37	43.94	-7.5X		1.0s	530.00nm			6.1mb	
	0.9s	372.00nm			5.7mb				epPc	39	38.39	532km			SKS	48	03.00			
NWAO	59.29	242	eP	35	59.40	-1.1	ORV	77.81	42	ePc	37	51.14	-0.3	NEW	85.30	36	P	38	28.80	-0.5
RKG	59.43	240	iPc	36	01.20	-0.2			epP	39	45.34	530km			1.1s	17.01nm			4.6mb	
	0.9s	163.00nm			5.4mb		MDJ	77.87	325	eP	37	51.50	-0.1	PTI	85.40	42	P	38	30.60	0.5
BAL	59.85	244	eP	36	03.00	-1.2		1.0s	89.00nm			5.1mb		IMA	85.47	10	eP	38	29.00	-0.9
	0.9s	242.00nm			5.6mb		GZH	77.90	299	P	37	52.00	-0.2		0.6s	2.50nm			4.1mb X	
MUN	60.20	243	eP	36	05.50	-1.0	KDC	78.10	14	P	37	50.30	-2.2	FBA	85.51	1				



XAN	0.9s	14.49nm	4.7mb	1.0	1.6s	110.00nm	e	47 37.70	LOMF	149.99	353	PKP	45 49.00	4.5X
	86.00	307 Pd	38 34.00	1.0	145.41	354 iPKPd	45 26.90	0.7	OSS	150.11	348 iPKPd	45 39.80	5.7X	
	1.0s	98.00nm	5.5mb		0.8s	51.50nm			LLS	150.15	350 ePKPd	45 39.70	5.6X	
		pP	40 30.00	526km					TRI	150.15	343 ePKPd	45 39.30	5.4X	
MCMT	86.05	41 ePc	38 34.00	0.7	BHL	145.41	305 PKP	45 24.00	-3.0					
		e	40 31.50	534km	ISR	145.47	328 ePKP	45 28.00	1.3					
NNT	86.09	284 iPc	38 35.00	1.3	MLR	145.51	329 ePKP	45 21.50	-5.3X	VAY	150.22	327 iPKP	45 39.00	4.9X
NST	86.72	287 eP	38 38.00	1.3	JARJ	145.70	302 PKPd	45 27.69	0.2					
LRM	86.78	40 eP	38 31.10	-5.7X	SHMJ	145.70	303 PKPc	45 27.74	0.4					
		e	40 35.00	570kmX	SALJ	145.97	301 PKPc	45 28.13	0.2	RIY	150.30	341 iPKP	45 39.30	5.2X
		e	42 07.40		PRU	146.01	345 PKPd	45 28.60	1.3	SKO	150.31	329 iPKP	45 39.00	4.7X
HHC	86.99	314 Pd	38 38.40	0.7		1.4s	91.40nm				1.0s	40.00nm		
	1.2s	81.00nm	5.3mb		MASJ	146.03	301 PKPc	45 28.18	0.2	VDL	150.43	349 ePKPd	45 41.10	6.5X
KMI	87.61	297 Pd	38 42.00	0.9	MOX	146.04	348 ePKP	45 29.40	2.0	TMA	150.91	349 ePKPd	45 41.20	5.9X
	1.2s	70.00nm	5.3mb			1.6s	49.00nm			EMS	151.24	352 ePKPd	45 42.80	7.0X
BTO	87.94	314 P	38 43.00	0.9	CMP	146.12	330 ePKPc	45 32.00	4.3X	OHR	151.28	329 iPKP	45 41.00	5.2X
BDT	88.25	289 eP	38 43.90	0.0	MKRJ	146.14	301 PKPc	45 28.34	0.1		0.5s	50.00nm		
	0s	55.20nm	5.4mb		TNR	146.19	331 ePKPc	45 30.00	2.2			i	45 52.50	
GOL	71	48 P	38 46.60	0.7	EYL	146.32	319 ePKP	45 29.10	0.8	HVAR	151.51	337 iPKPc	45 41.60	5.6X
	3s	39.95nm	5.1mb		ENNV	146.71	355 ePKP	45 31.00	2.6		S.D. = 1.1	on 212 of 265 obs.		
CHTO	88.81	290 ePd	38 47.00	0.5		0.8s	18.50nm							
	1.1s	41.52nm	5.2mb		CSS	146.82	308 ePKP	45 30.50	1.4					
CD2	88.82	303 iPc	38 47.60	1.2	SRO	146.85	339 iPKPd	45 31.50	2.8					
GLD	88.83	48 P	38 47.50	1.1			ipPKP	47 40.80						
	1.3s	58.20nm	5.3mb		IZI	146.88	319 ePKP	45 31.70	2.6					
YAK	89.22	338 eP	38 50.10	2.7	ZST	146.91	341 iPKPd	45 32.10	3.3X					
	2.0s	120.00nm	5.5mb				epPKP	47 40.70						
		ePcP	38 54.00		TNS	146.96	352 iPKPd	45 31.50	2.6	PRY	0.54	178 eP	42 40.80	-0.1
		epP	39 39.00	197kmX	GRF	147.02	348 iPKPd	45 32.10	3.1X			S	42 47.00	
		ePP	40 49.00				e	47 39.60		KSR	0.72	316 eP	42 44.00	-0.3
		ePPP	42 23.00		KHC	147.04	345 ePKP	45 27.50	-1.6			S	42 53.00	
		iS	48 27.00			1.4s	88.00nm			BFS	0.79	229 eP	42 45.80	0.0
		eSKS	48 40.00				i	4						



19d 17h

TPNV 3.34 35 (Pn) 03 04.36 -1.6  
 MMPM 3.40 354 ePg 03 13.47 6.5  
 BONR 3.74 4 ePg 03 21.41 9.6  
 23 obs. associated

JAN 19, 1994 17h 12m 11.04± 0.65s  
 34.306 N ± 6.0km 118.492 W ± 4.4km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.4 (GS).

FTC 0.65 330 P 12 23.19 -0.9  
 SSK 0.67 98 ePc 12 23.66 -0.8  
 S 12 33.75  
 ABL 0.81 312 ePd 12 26.25 -0.7  
 PLEC 0.81 324 P 12 27.10 0.2  
 BMTC 0.83 354 P 12 26.00 -1.2  
 ARVC 0.87 341 P 12 26.84 -0.8  
 TEJ 0.94 350 P 12 26.61 -2.3  
 MARC 0.99 315 P 12 29.65 -0.1  
 TMB 1.16 313 P 12 32.90 0.1  
 PEC 1.18 110 iPc 12 32.45 -0.6  
 S 12 48.27

WOFM 1.24 352 P 12 33.84 -0.3  
 ISA 1.35 1 eP 12 34.93 -1.1  
 CRGC 1.38 313 P 12 36.66 0.3  
 SCCM 1.52 295 P 12 40.41 2.0  
 WSHM 1.56 32 P 12 38.02 -0.9  
 BCH 1.58 304 eP 12 39.30 0.1  
 NMC 1.61 17 P 12 41.09 1.5  
 TOW 1.61 22 P 12 39.82 0.1  
 PLM 1.66 125 ePc 12 39.75 -0.7  
 GSC 1.71 54 eP 12 40.57 -0.5  
 VPEN 1.73 18 P 12 43.24 1.8  
 RCWM 1.78 23 P 12 42.27 0.1  
 WLHM 1.85 5 P 12 43.84 0.5  
 PHAM 2.19 315 (P) 12 46.90 -1.1  
 MTUM 3.04 359 ePn 13 01.21 1.0  
 TPNV 3.21 34 ePn 13 02.24 -0.4  
 GLA 3.30 111 ePn 13 04.47 0.6  
 MMPM 3.33 353 ePn 13 04.49 0.0  
 MRMC 3.36 360 (Pn) 13 06.76 1.9  
 MEMM 3.37 354 (Pn) 13 04.91 0.1  
 BONR 3.65 2 ePn 13 09.95 1.0  
 TNP 3.91 15 (Pn) 13 11.79 -0.8  
 CMB 4.02 338 eP 13 14.17 0.1  
 ARUT 5.37 48 ePn 13 34.97 1.7

S.D. = 1.0 on 34 of 34 obs.

? JAN 19, 1994 17h 25m 44.66± 0.91s  
 52.015 N ±15.9km 158.781 E ±22.1km  
 DEPTH = 33.0km (normal)  
 4.4mb ( 6 obs.)

NEAR EAST COAST OF KAMCHATKA (218)

MAT 21.25 231 eP 30 30.00 0.0  
 YKA 44.50 41 eP 33 54.10 0.0  
 0.6s 0.50nm 3.5mb  
 NB2 64.35 343 P 36 18.40 -0.5  
 0.6s 5.60nm 4.8mb  
 HFS 64.73 342 eP 36 20.50 -0.8  
 0.4s 4.20nm 4.9mb  
 GBA 74.09 272 P 37 19.00 -0.2  
 WRA 74.77 204 P 37 22.90 -0.1  
 0.6s 0.30nm 3.5mb  
 GEC2 75.20 337 P 37 25.70 0.4  
 0.6s 1.32nm 4.1mb  
 KBA 76.94 337 iPc 37 36.40 1.2  
 0.7s 9.10nm 4.9mb

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

% JAN 19, 1994 17h 43m 55.88± 0.59s  
 26.374 S ± 5.4km 27.470 E ± 5.8km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.5 (PRE).

PRY 0.55 180 eP 44 06.10 -0.9  
 S 44 11.40  
 KSR 0.72 314 eP 44 09.90 -0.5  
 S 44 17.20  
 BFS 0.81 229 eP 44 12.80 0.7  
 S 44 22.10  
 SLR 0.97 49 iPc 44 14.60 -0.3  
 S 44 27.50  
 SEK 1.95 176 eP 44 30.10 0.0  
 S 44 53.50

SWZ 2.08 247 eP 44 32.10 0.1  
 S 44 56.70  
 BFT 2.41 74 eP 44 37.50 0.6  
 S 45 09.00  
 NWL 2.59 122 eP 44 22.50 -16.8X  
 S 45 08.60  
 BOSA 2.88 219 eP 44 43.40 0.1  
 S 45 16.50  
 BLF 2.95 202 eP 44 49.60 5.2X  
 S 45 25.50  
 S.D. = 0.6 on 8 of 10 obs.

& JAN 19, 1994 17h 46m 52.54s  
 34.342 N 118.453 W  
 DEPTH = 5.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.3 (GS).

FTC 0.64 326 P 47 04.30 -1.0  
 SSK 0.64 102 iPc 47 04.47 -1.0  
 RYS 0.80 292 P 47 07.80 -0.9  
 PLEC 0.80 321 P 47 07.99 -0.7  
 ABL 0.81 309 iPd 47 07.29 -1.6  
 ARVC 0.84 339 P 47 08.03 -1.3  
 TEJ 0.91 348 P 47 07.65 -2.7  
 MARC 0.98 312 P 47 10.71 -1.0  
 LPC 1.05 279 P 47 11.60 -1.3  
 TMB 1.16 310 P 47 14.44 -0.3  
 PEC 1.16 112 eP 47 13.12 -1.6  
 WOFM 1.21 350 P 47 14.81 -0.8  
 WBSM 1.22 12 P 47 15.06 -0.8  
 ISA 1.32 359 ePd 47 16.13 -1.3  
 CRGC 1.38 311 P 47 17.70 -0.8  
 WSHM 1.51 31 P 47 20.71 0.4  
 SCCM 1.54 293 P 47 20.71 0.0  
 TOW 1.57 21 P 47 21.97 0.8  
 BCH 1.58 303 eP 47 20.18 -1.3  
 PLM 1.65 126 eP 47 20.35 -2.1  
 GSC 1.66 54 eP 47 21.21 -1.3  
 VPEN 1.69 18 P 47 24.62 1.7  
 WLHM 1.81 4 P 47 25.44 0.5  
 MTUM 3.01 358 ePg 47 47.20 5.3  
 TPNV 3.16 34 ePn 47 42.61 -1.4  
 GLA 3.29 112 (Pn) 47 44.71 -1.0  
 MMPM 3.29 352 ePg 47 52.11 6.0  
 MEMM 3.34 353 (Pn) 47 47.91 1.5  
 BONR 3.61 2 ePg 47 58.56 8.0

29 obs. associated

% JAN 19, 1994 17h 58m 57.51± 0.65s  
 26.202 S ± 6.5km 28.229 E ± 6.5km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.8 (PRE).

SLR 0.47 6 iPd 59 06.70 -0.2  
 S 59 12.50  
 PRY 0.99 223 eP 59 14.90 -2.0  
 S 59 27.10  
 KSR 1.24 285 eP 59 21.00 -0.2  
 S 59 36.00  
 BFS 1.47 241 eP 59 25.60 0.8  
 S 59 43.60  
 BFT 1.71 73 eP 59 28.50 0.1  
 S 59 50.50  
 NWL 2.16 135 eP 59 34.50 -0.3  
 S 59 57.50  
 SEK 2.18 194 eP 59 35.60 0.5  
 S 00 01.50  
 SWZ 2.77 249 eP 59 44.00 0.4  
 S 00 20.10  
 BLF 3.41 212 eP 59 59.00 6.3X  
 S 00 34.50  
 BOSA 3.47 226 eP 59 54.00 0.8  
 S 00 32.80  
 S.D. = 1.0 on 9 of 10 obs.

JAN 19, 1994 18h 35m 39.81± 0.72s  
 40.009 N ± 9.7km 33.048 E ± 7.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.9 (ISK). Felt in the Ankara area.

KAS 1.47 22 iPnc 36 03.90 -2.5  
 iSg 36 25.00  
 BZK 2.08 20 iPn 36 16.70 1.5

EYL 2.28 285 ePn 36 19.00 0.8  
 ALT 2.46 248 iPn 36 20.60 -0.1  
 BNN 2.47 117 iPn 36 21.30 0.4  
 KVT 2.52 64 ePn 36 22.00 0.5  
 IZI 2.76 278 iPn 36 24.90 -0.1  
 BCK 3.19 218 ePn 36 30.00 -1.0  
 KHL 3.22 240 ePn 36 31.90 0.5  
 ITU 3.26 291 ePn 36 42.00 10.0X  
 iSg 37 23.00  
 ADAT 3.45 148 eP 36 40.80 6.1X  
 S.D. = 1.3 on 9 of 11 obs.

? JAN 19, 1994 19h 04m 05.34± 5.11s  
 42.256 N ±35.5km 122.038 W ±16.3km  
 DEPTH = 5.0km (geophysicist)  
 OREGON (32)  
 ML 2.5 (GS).

LASM 0.74 152 P 04 20.03 -0.1  
 LMPM 0.77 187 P 04 21.12 0.1  
 LBPM 0.92 173 eP 04 23.38 -0.1  
 S 04 35.92  
 LGPM 0.92 187 P 04 23.76 0.2  
 LBKM 1.26 202 P 04 29.04 -0.3  
 KOMM 1.44 228 P 04 32.36 0.1  
 LGPM 1.47 204 eP 04 31.90 -0.7  
 S 04 51.63  
 WDC 1.72 193 (P) 04 36.73 0.7  
 S.D. = 0.5 on 8 of 8 obs.

\* JAN 19, 1994 19h 20m 44.38± 0.90s  
 15.146 N ±12.8km 91.649 W ±18.1km  
 DEPTH = 178.2 ± 12.0 km  
 3.9mb ( 2 obs.)

MEXICO-GUATEMALA BORDER REGION (62)

TPX 0.64 248 iPd 21 09.21 -0.6  
 iS 21 26.76  
 SCX 1.84 329 iP 21 20.09 0.1  
 iS 21 45.92  
 OXX 5.24 292 iP 22 02.61 0.2  
 (S) 22 55.32  
 PPM 7.73 301 iPc 22 36.50 0.9  
 LTX 17.95 324 eP 24 43.40 -0.5  
 GOGA 19.64 21 eP 25 02.00 0.7  
 0.8s 15.67nm 4.5mb  
 ELC 22.15 5 eP 25 26.36 0.1  
 LPAZ 38.92 142 P 27 56.30 1.1  
 LPB 39.13 143 eP 27 54.00 -2.7  
 SIV 43.23 134 P 28 30.00 0.2  
 MOCB 44.27 144 P 28 40.60 2.0  
 YKA 50.00 346 eP 29 20.70 -1.4  
 0.5s 0.40nm 3.3mb  
 S.D. = 1.4 on 12 of 12 obs.

\* JAN 19, 1994 19h 43m 25.08± 0.43s  
 55.776 S ±11.2km 27.910 W ±13.5km  
 DEPTH = 33.0km (normal)  
 5.2mb ( 4 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

NVL 22.72 147 iPd 48 26.00 1.4  
 1.0s 17.00nm 4.5mb  
 e 48 39.00  
 SYO 32.02 141 ePc 49 49.90 -0.1  
 RSTA 34.73 325 eP 50 15.00 1.0  
 SIV 47.09 314 P 51 55.40 -0.2  
 CCH 48.02 307 P 52 02.50 -0.7  
 LPB 49.66 306 P 52 17.20 1.3  
 LPAZ 49.89 306 iPd 52 18.40 0.5  
 LR 06 38.00  
 LIC 64.62 25 Pd 54 01.50 0.1  
 5.1s 13.00nm 4.3mb X  
 KIC 64.82 26 Pd 54 02.66 0.0  
 0.7s 15.00nm 5.2mb  
 TIC 65.02 25 Pd 54 03.96 0.0  
 0.7s 15.00nm 5.2mb  
 LKO 67.69 24 Pd 54 21.17 0.2  
 0.6s 13.50nm 5.2mb  
 MUN 87.38 150 eP 56 09.50 -0.3  
 KLB 88.17 151 eP 56 13.50 -0.1  
 BAL 88.81 150 eP 56 16.50 -0.2  
 TAB 112.67 55 ePKP 02 00.00 0.8  
 YKA 135.69 318 ePKP 02 40.40 -1.9  
 0.8s 2.20nm  
 MBC 143.56 336 ePKP 02 54.50 -1.7  
 TOA 148.64 307 ePKP 03 08.90 3.9X



19d 20h

PMR 149.85 305 ePKP 03 11.00 4.3X  
0.5s 4.90nm  
FBA 150.04 312 ePKP 03 10.80 3.9X  
KDC 150.27 297 ePKP 03 12.10 4.6X  
IMA 152.63 314 ePKP 03 17.70 6.8X  
0.7s 4.00nm  
SVW 152.76 303 ePKP 03 16.90 5.8X  
S.D. = 0.9 on 17 of 23 obs.

& JAN 19, 1994 19h 50m 09.13s  
34.288 N 118.443 W  
DEPTH = 8.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.8 (PAS), 3.7 (GS).

SSK 0.63 97 iPc 50 20.71 -1.0  
FTC 0.69 328 P 50 21.71 -1.3  
RYS 0.83 296 P 50 24.12 -1.4  
PLEC 0.85 323 P 50 25.12 -0.7  
ABL 0.85 311 eP 50 23.28 -2.6  
ARVC 0.90 339 P 50 25.44 -1.0  
TEJ 0.96 348 P 50 25.00 -2.6  
MARC 1.03 314 P 50 27.46 -1.3  
LPC 1.07 282 P 50 27.73 -1.8  
PEC 1.14 110 iPc 50 28.93 -1.7  
TMB 1.20 311 P 50 30.71 -1.1  
WOFM 1.26 35 50 32.13 -0.7  
WBSM 1.27 1 50 32.25 -0.8  
ISA 1.37 359 eP 50 33.43 -1.2  
CRGC 1.42 312 P 50 34.13 -1.2  
WSHM 1.55 30 P 50 35.80 -1.3  
SCCM 1.57 295 P 50 36.11 -1.2  
NMC 1.61 16 P 50 38.65 0.6  
PLM 1.61 125 ePc 50 35.83 -2.3  
TOW 1.62 20 P 50 37.61 -0.4  
WCHM 1.62 11 P 50 37.47 -0.8  
BCH 1.62 304 eP 50 36.25 -1.9  
GSC 1.69 53 iPc 50 38.20 -0.9  
VPEM 1.74 17 P 50 39.41 -0.5  
RCWM 1.78 21 P 50 39.38 -1.1  
WLHM 1.86 3 P 50 42.79 0.9  
PHAM 2.23 314 (Pn) 50 45.71 -1.2  
MTUM 3.06 358 ePn 50 59.19 0.3  
ePc 51 04.61  
eS 51 45.67

TPNV 3.20 33 ePn 50 59.76 -1.1  
GLA 3.26 111 eP 51 01.49 -0.1  
MMPM 3.35 352 ePc 51 08.73 5.6  
MRCM 3.38 359 ePc 51 09.79 6.4  
eS 51 55.14  
MEMM 3.40 353 ePn 51 03.86 0.4  
ePc 51 10.98  
SAO 3.48 316 eP 51 00.96 -3.7  
BONR 3.66 2 (Pn) 51 07.82 0.3  
ePc 51 16.11

TNP 3.91 14 ePc 51 21.03 10.0  
ARN 3.95 321 (Pn) 51 10.27 -1.1  
CMB 4.06 338 ePn 51 12.77 -0.1  
KVN 4.76 3 ePc 51 35.91 12.8  
ARUT 5.35 48 ePn 51 31.02 -0.4  
MSU 6.58 48 ePn 51 48.87 0.1  
DUG 7.41 36 ePc 52 28.07 27.8  
42 obs. associated

& JAN 19, 1994 20h 17m 51.82s  
34.369 N 118.705 W  
DEPTH = 9.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.3 (PAS), 3.6 (GS).

FTC 0.52 343 P 18 01.52 -0.9  
RYS 0.60 297 P 18 03.00 -0.9  
ABL 0.64 319 iPc 18 03.26 -1.5  
ARVC 0.76 352 P 18 05.88 -0.9  
MARC 0.82 321 P 18 06.80 -1.0  
SNDC 0.84 23 P 18 07.53 -0.7  
SSK 0.85 100 ePc 18 07.10 -1.3  
TEJ 0.86 1 P 18 07.26 -1.2  
TMB 0.99 317 P 18 10.13 -0.6  
CRGC 1.21 316 P 18 13.64 -0.8  
WBSM 1.25 22 P 18 14.36 -1.0  
ISA 1.31 8 eP 18 14.96 -1.1  
eS 18 32.75

PEC 1.37 110 iPc 18 14.69 -2.3  
eS 18 33.75  
WASM 1.37 5 P 18 16.51 -0.7  
WORM 1.38 16 P 18 16.04 -1.2

BCH 1.40 306 eP 18 16.10 -1.4  
eS 18 36.28  
WSHM 1.61 38 P 18 18.38 -2.1  
NMC 1.61 24 P 18 21.05 0.5  
TOW 1.63 28 P 18 19.60 -1.2  
VPEM 1.74 25 P 18 23.30 0.9  
RCWM 1.80 28 P 18 24.96 1.7  
GSC 1.82 59 eP 18 21.88 -1.7  
PLM 1.84 123 eP 18 21.18 -2.8  
PHAM 2.02 317 eP 18 23.38 -3.0  
LRC 2.68 315 P 18 32.91 -2.9  
MTUM 2.98 2 ePn 18 39.44 -0.8  
BPRM 3.20 310 P 18 40.14 -3.1  
MMPM 3.24 355 (Pn) 18 43.59 -0.6  
TPNV 3.26 37 ePn 18 42.07 -2.2  
ePc 18 52.74  
MEMM 3.30 357 ePn 18 43.99 -0.6  
MRCM 3.30 3 (Pn) 18 45.74 0.9  
DIL 3.43 317 P 18 43.79 -2.7  
GLA 3.49 111 ePn 18 46.92 -0.4  
BONR 3.59 5 (Pn) 18 48.52 -0.6  
JBZM 3.64 317 P 18 47.80 -1.7  
ARN 3.76 323 eP 18 48.50 -2.7  
TNP 3.90 18 ePc 19 03.41 10.1  
CMB 3.90 340 (P) 18 49.68 -3.6  
38 obs. associated

? JAN 19, 1994 20h 29m 12.16± 3.47s  
38.923 N ±29.0km 23.091 E ±15.6km  
DEPTH = 10.0km (geophysicist)

GREECE (364)

AGG 0.60 280 iPc 29 24.44 0.1  
eSg 29 34.96  
PAIG 1.10 24 ePc 29 33.38 0.6  
eSg 29 49.72  
LIT 1.27 339 ePc 29 35.52 -0.1  
eSg 29 53.16  
OUR 1.57 26 ePb 29 39.56 -0.5  
S.D. = 0.8 on 4 of 4 obs.

JAN 19, 1994 21h 04m 14.14± 0.78s  
34.342 N ± 7.6km 118.672 W ± 5.5km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.8 (GS).

RYS 0.64 298 P 04 27.37 0.3  
ABL 0.68 318 eP 04 27.12 -0.7  
ARVC 0.79 351 P 04 29.54 0.0  
BMTc 0.79 4 P 04 28.78 -0.9  
SSK 0.82 99 eP 04 29.63 -0.5  
MARC 0.86 320 P 04 30.97 0.3  
TEJ 0.89 359 P 04 30.04 -1.1  
CRGC 1.25 316 P 04 38.54 1.2  
ISA 1.33 7 ePn 04 38.10 -0.6  
PEC 1.33 109 eP 04 37.39 -1.3  
BCH 1.43 306 eP 04 40.08 -0.2  
WSHM 1.61 37 P 04 43.93 1.2  
PLM 1.80 123 (P) 04 46.41 0.8  
GSC 1.81 58 (P) 04 45.83 0.2  
PWMM 2.44 329 P 04 53.95 -0.6  
BHPR 2.95 3 P 05 16.90 14.7X  
MTUM 3.01 2 ePc 05 10.70 7.8X  
TPNV 3.26 36 ePn 05 08.65 2.1  
BONR 3.62 5 ePc 05 22.10 10.4X  
JBZM 3.68 317 P 05 20.25 7.9X  
PV09 8.73 59 ePc 06 45.53 21.8X  
PV10 8.75 60 ePc 06 41.16 17.3X  
S.D. = 1.0 on 16 of 22 obs.

? JAN 19, 1994 21h 07m 28.65± 0.74s  
31.368 S ±20.5km 68.648 W ±30.9km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.16 76 e(P) 07 43.00 -0.2  
RTCB 0.18 228 e(P) 07 43.00 -0.3  
S 07 54.00  
CFA 0.42 124 ePc 07 44.30 0.1  
S 07 56.00  
RTCV 0.50 169 iPd 07 45.00 0.3  
S 07 58.00  
RTRS 1.38 329 iPd 07 54.00 0.2  
S 08 13.00  
S.D. = 0.4 on 5 of 5 obs.

& JAN 19, 1994 21h 09m 28.61s  
34.379 N 118.711 W  
DEPTH = 14.4km  
5.1mb (25 obs.)  
SOUTHERN CALIFORNIA (43)  
Mw 5.3 (HRV). <PAS-P>. ML 5.1  
(PAS), 5.5 (BRK). Mo=8.7\*10\*\*16  
Nm (BRK). Felt.  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 14S, 16C  
Centroid Location:  
Origin Time 21:09:29.5 1.6  
Lat 34.02N 0.10 Lon 119.11W 0.10  
Dep 15.0 FIX Half-duration 1.0  
Moment Tensor; Scale 10\*\*16 Nm  
Mrr= 9.55 0.47 Mtt=-8.99 0.52  
Mff=-0.56 0.65 Mrt=-0.30 2.97  
Mrf=-0.08 2.05 Mtf= 3.23 0.58  
Principal Axes:  
T Val= 9.56 Plg=89 Azm=143  
N 0.54 1 289  
P -10.09 1 19  
Best Double Couple: Mo=9.8\*10\*\*16  
NP1:Strike=110 Dip=44 Slip= 92  
NP2: 288 46 88

ABL 0.63 318 iPc 09 40.16 -0.9  
SSK 0.86 101 iPc 09 43.92 -1.0  
WOFM 1.15 360 P 09 49.64 -0.2  
ISA 1.30 9 ePc 09 52.11 -0.1  
PEC 1.37 110 iPc 09 51.59 -1.7  
BCH 1.39 306 eP 09 52.34 -1.2  
YEG 1.47 316 P 09 54.09 -0.6  
WSHM 1.60 38 P 09 55.08 -1.5  
TOW 1.62 28 P 09 56.30 -0.6  
PTRM 1.77 316 P 09 58.82 -0.2  
PMGM 1.82 306 P 09 58.32 -1.4  
PAGM 1.85 317 P 09 59.86 -0.2  
PLM 1.85 123 eP 09 58.17 -2.1  
PMRM 1.88 319 P 10 00.06 -0.5  
PMCM 1.91 315 P 10 00.45 -0.6  
PSRM 1.96 319 P 10 00.77 -0.9  
GHC 1.98 318 P 09 58.13 -3.8  
PHAM 2.01 317 eP 10 00.97 -1.4  
PKEM 2.03 326 eP 10 02.43 -0.3  
CTM 2.04 320 P 10 02.56 -0.4  
WKR 2.06 315 P 10 02.26 -0.9  
PSTM 2.14 317 P 10 03.21 -1.1  
PADM 2.17 306 P 10 03.09 -1.7  
PCRM 2.22 321 P 10 04.15 -1.3  
PANM 2.28 308 P 10 04.34 -2.0  
PSMM 2.29 318 P 10 05.97 -0.5  
PARM 2.29 325 P 10 05.28 -1.3  
PRI 2.38 318 eP 10 06.48 -1.3  
PTV 2.38 317 P 10 06.84 -1.0  
PSAM 2.42 313 P 10 06.88 -1.4  
PRCM 2.44 321 P 10 07.96 -0.6  
MOP 2.50 318 P 10 07.96 -1.5  
FRI 2.73 343 iP 10 11.47 -1.2  
MTUM 2.97 2 eP 10 16.30 0.0  
MMPM 3.23 356 ePc 10 20.67 0.5  
TPNV 3.25 37 eP 10 19.10 -1.2  
SAO 3.26 318 eP 10 17.56 -2.7  
MEMM 3.29 357 eP 10 22.19 1.6  
MRCM 3.29 3 eP 10 22.97 2.1  
GLA 3.50 111 eP 10 20.93 -2.7  
BONR 3.58 5 eP 10 25.14 0.0  
ARN 3.75 323 eP 10 24.79 -2.4  
COE 3.75 321 eP 10 24.89 -2.3  
MHC 3.80 322 ePc 10 25.49 -2.5  
TNP 3.89 18 ePn 10 29.17 -0.1  
CMB 3.89 340 ePc 10 28.10 -1.1  
eS 11 15.20  
JJRM 4.10 317 P 10 30.11 -2.0  
STAN 4.13 318 ePc 10 30.44 -2.0  
SFT 4.13 318 P 10 30.63 -1.8  
BGH 4.17 316 P 10 30.12 -3.1  
LKC 4.31 322 P 10 34.68 -0.5  
JCHM 4.32 318 P 10 32.45 -2.8  
SAC 4.39 318 P 10 35.22 -1.0  
JSBM 4.45 319 P 10 35.00 -2.0  
CVPM 4.51 322 P 10 38.45 0.5  
BKS 4.51 322 ePc 10 35.01 -2.9  
HMR 4.52 327 eP 10 37.32 -0.7  
ZSP 4.57 322 ePd 10 36.71 -2.1  
KVN 4.69 6 (P) 10 42.21 1.5



19d 21h

AFRM 4.89 335 P 10 44.54 1.2  
 LOC 4.96 321 P 10 42.56 -1.8  
 NTYM 5.12 323 eP 10 43.68 -2.8  
 NTBMM 5.15 320 P 10 44.59 -2.4  
 ARUT 5.46 50 eP 10 50.43 -1.1  
 GBGM 5.46 325 P 10 51.54 0.1  
 FTR 5.47 320 P 10 48.79 -2.9  
 OSUM 5.49 334 P 10 51.79 -0.1  
 GHCM 5.55 321 P 10 49.79 -3.0  
 ORV 5.63 337 ePc 10 52.69 -1.1  
 GBMM 5.64 329 P 10 53.38 -0.7  
 OBHM 5.70 338 P 10 54.11 -0.8  
 OGOM 5.75 337 P 10 54.93 -0.6  
 MGL 5.88 338 P 10 56.16 -1.2  
 LRDM 6.46 341 P 11 05.67 0.1  
 LMEM 6.55 341 eP 11 08.79 1.8  
 MSU 6.69 50 eP 11 08.46 -0.6  
 WDC 6.90 335 eP 11 09.54 -2.1  
 1.1s 33.09nm 5.3mb X  
 ELK 6.93 22 eP 11 11.46 -0.8  
 TUC 6.95 105 eP 11 10.19 -2.2  
 LGPM 7.29 335 eP 11 17.97 0.7  
 LBPM 7.40 341 eP 11 19.23 0.4  
 KMPM 7.41 326 eP 11 17.47 -1.4  
 DUG 7.47 37 ePd 11 22.48 2.7  
 0.7s 5.09nm 4.8mb X  
 FHC 7.66 328 ePd 11 21.76 -0.5  
 SRU 8.09 52 eP 11 29.81 1.2  
 DAU 8.45 42 eP 11 36.06 2.4  
 HVU 8.74 31 eP 11 39.68 2.1  
 PV09 8.74 59 eP 11 37.41 -0.3  
 PV10 8.76 60 eP 11 37.53 -0.4  
 PV08 9.12 60 eP 11 42.91 -0.1  
 PTI 9.82 28 ePc 11 55.52 3.1  
 ALQ 10.11 83 eP 11 55.19 -1.3  
 0.8s 12.32nm 5.4mb X  
 VIPM 10.22 352 P 12 01.68 3.7  
 RNO 10.29 339 P 11 59.42 0.7  
 CROR 10.73 351 P 12 08.90 4.0  
 SSOR 10.85 346 P 12 08.31 1.8  
 BW06 11.02 38 eP 12 09.96 1.0  
 0.9s 7.55nm 5.0mb X  
 JBO 11.10 356 P 12 12.93 3.1  
 VGB 11.24 353 eP 12 14.79 3.1  
 MCMT 11.37 22 ePc 12 17.00 3.3  
 LNOR 11.48 1 P 12 17.56 2.5  
 GOL 11.91 60 eP 12 22.87 1.8  
 ASR 11.96 350 P 12 23.83 2.2  
 SHW 12.10 348 eP 12 24.52 1.0  
 LRM 12.39 21 eP 12 30.40 2.9  
 BMW 12.56 346 ePc 12 31.26 1.7  
 LON 12.58 350 eP 12 28.84 -1.0  
 EBG 12.60 354 P 12 32.39 2.3  
 FMW 12.74 351 P 12 34.09 2.0  
 RMW 13.27 351 ePd 12 40.38 1.3  
 WTV 13.34 356 P 12 41.55 1.6  
 DPW 13.48 1 eP 12 43.10 1.3  
 GMW 13.51 348 eP 12 43.28 1.2  
 LTX 13.74 107 eP 12 45.11 -0.2  
 NEW 13.92 4 eP 12 49.50 1.9  
 RSSD 14.94 45 eP 13 01.08 0.0  
 MZX 15.48 133 (P) 13 12.50 4.6  
 ACO 16.09 76 iPc 13 17.10 1.2  
 WMOK 16.43 83 eP 13 21.08 0.9  
 MEO 16.58 83 iPd 13 23.40 1.3  
 OCO 17.45 80 iPc 13 36.60 3.6  
 TUL 18.80 79 iPc 13 50.10 0.4  
 ULM 23.03 40 eP 14 35.50 1.6  
 FVM 23.07 73 eP 14 33.80 -0.7  
 0.8s 20.48nm 4.7mb  
 PPM 23.48 125 iP 14 42.00 2.9  
 ELC 24.04 75 eP 14 44.46 0.6  
 SIT 25.34 339 eP 14 57.33 1.2  
 1.4s 62.80nm 5.1mb  
 YKA 28.25 4 eP 15 21.60 -1.3  
 1.2s 4.60nm 4.1mb  
 BALM 30.70 338 ePd 15 45.63 0.7  
 KLU 32.21 336 eP 15 59.44 1.3  
 SLKM 33.14 332 eP 16 06.18 0.1  
 PMR 33.41 334 eP 16 08.14 -0.3  
 1.6s 294.79nm 6.0mb  
 CRP 34.35 332 eP 16 16.79 0.0  
 FBA 35.25 339 eP 16 23.78 -0.4  
 1.8s 51.35nm 5.1mb  
 SVW 35.66 330 eP 16 27.74 -0.1  
 1.0s 54.17nm 5.4mb  
 TTA 36.79 332 eP 16 37.40 0.0

IMA 1.0s 18.37nm 4.8mb  
 37.85 338 eP 16 45.71 -0.5  
 1.3s 44.71nm 5.1mb  
 ANM 41.23 332 eP 17 15.06 0.9  
 MBC 41.95 360 eP 17 22.50 2.6  
 1.0s 14.00nm 4.6mb  
 RES 42.02 9 eP 17 20.50 0.0  
 1.0s 5.00nm 4.2mb  
 FRB 42.35 30 eP 17 23.00 -0.3  
 0.9s 20.00nm 4.8mb  
 DAG 59.06 15 iPc 19 28.90 -1.1  
 0.7s 12.33nm 5.1mb  
 NNA 60.88 132 iPc 19 43.30 0.2  
 1.2s 23.44nm 5.2mb  
 ARE 67.62 130 eP 20 29.00 1.5  
 YAK 69.38 332 eP 20 37.70 0.3  
 2.0s 120.00nm 5.7mb  
 Z 17s 0.50um 4.8mszX  
 E 17s 0.50um  
 LPAZ 69.65 128 eP 20 39.09 -1.4  
 1.0s 11.21nm 5.0mb  
 LPB 69.85 128 P 20 40.00 -1.4  
 SIV 74.22 122 P 21 06.00 -1.0  
 HFS 78.03 22 ePKP 21 26.30 -1.5  
 0.5s 1.40nm 4.3mb  
 KAF 79.78 16 iP 21 37.60 0.3  
 0.8s 13.90nm 5.0mb  
 NUR 80.79 17 iP 21 43.10 0.4  
 0.9s 20.80nm 5.2mb  
 CN2 82.72 319 eP 21 53.00 -0.1  
 0.8s 9.40nm 5.0mb  
 WLF 83.11 32 iPd 21 56.34 1.5  
 MOX 84.68 29 iPc 22 04.40 1.5  
 1.7s 40.00nm 5.4mb  
 CLL 84.71 28 iPd 22 03.70 0.7  
 SNY 85.07 318 P 22 06.30 1.3  
 GRF 85.26 30 eP 22 07.40 1.6  
 1.5s 23.00nm 5.2mb  
 BRG 85.42 28 iP 22 06.60 0.0  
 1.4s 38.00nm 5.4mb  
 IRK 85.88 335 ePd 22 09.20 0.3  
 2.0s 64.00nm 5.5mb  
 PRU 86.36 28 P 22 12.50 1.2  
 1.3s 17.90nm 5.1mb  
 GEC2 86.94 29 P 22 14.20 -0.1  
 1.0s 1.62nm 4.2mb  
 OBN 88.39 14 eP 22 26.00 5.0  
 2.0s 1120.00nm 6.8mb X  
 ZST 88.80 28 eP 22 23.10 0.0  
 SRO 89.58 27 eP 22 27.90 1.1  
 TIA 92.58 318 P 22 41.30 0.4  
 BTO 92.93 325 eP 22 39.00 -3.5  
 WMQ 98.53 341 P 23 08.40 0.4  
 CD2 103.71 323 ePd diff 23 27.20 -4.1  
 WRA 114.67 262 PKP 28 04.00 -6.5  
 0.4s 0.60nm  
 POF 144.72 94 iPKPc 29 05.00 -1.6  
 LBTB 147.76 83 ePKP 29 12.90 1.0  
 BOSA 148.98 89 ePKP 29 15.76 2.2  
 BLF 149.79 90 iPKPd 29 19.00 4.0  
 173 obs. associated  
 \* JAN 19, 1994 21h 10m 13.47± 1.24s  
 14.443 S ±12.9km 167.538 E ±18.6km  
 DEPTH = 178.1km ( 2 depth phases)  
 4.5mb ( 5 obs.)  
 VANUATU ISLANDS (186)  
 BKM 3.28 168 iPc 11 06.00 0.0  
 iS 11 42.50  
 DZM 7.66 188 iPd 12 03.80 0.5  
 iS 13 26.10  
 HNR 8.94 303 eP 12 21.00 0.9  
 eS 14 05.00  
 ARMA 21.62 220 eP 14 52.00 1.7  
 1.0s 29.00nm 4.7mb  
 STK 29.38 229 eP 16 01.90 -0.1

0.8s 10.90nm 4.6mb  
 e 16 39.40 182km  
 WB2 32.14 255 eP 16 24.80 -1.5  
 0.9s 5.00nm 4.2mb  
 WRA 32.15 255 P 16 25.10 -1.3  
 1.0s 2.10nm 3.8mb  
 ASPA 33.02 249 iPc 16 32.40 -1.5  
 0.7s 10.80nm 4.6mb  
 epP 17 09.10 174km  
 WARB 39.93 246 eP 17 32.10 0.2  
 MBL 45.78 254 eP 18 19.50 0.4  
 CHTO 75.20 294 eP 21 40.80 2.3  
 KHC 139.34 334 ePKP 29 20.50 -0.6  
 e 29 26.00  
 GEC2 139.51 333 PKP 29 20.50 -1.0  
 0.6s 0.34nm  
 S.D. = 1.3 on 13 of 13 obs.  
 & JAN 19, 1994 21h 11m 44.90s  
 34.378 N 118.618 W  
 DEPTH = 11.3km  
 4.7mb ( 11 obs.)  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 5.1 (PAS), 4.8 (GS).  
 ABL 0.69 314 iPc 11 57.28 -1.2  
 SSK 0.78 102 eP 11 59.37 -0.8  
 ISA 1.29 5 eP 12 08.45 -0.3  
 PEC 1.30 111 eP 12 07.21 -1.7  
 PTRM 1.83 315 P 12 23.84 7.4  
 PMGM 1.88 304 P 12 23.34 6.1  
 PAGM 1.90 316 P 12 24.88 7.3  
 PMRM 1.93 317 P 12 25.07 7.1  
 PMCM 1.97 314 P 12 25.46 7.0  
 PSRM 2.01 318 P 12 25.79 6.7  
 PHAM 2.06 315 eP 12 18.57 -1.3  
 CTM 2.09 318 P 12 27.59 7.2  
 WKR 2.11 313 P 12 27.28 6.7  
 PSTM 2.19 316 P 12 28.22 6.5  
 PADM 2.23 305 P 12 28.12 5.8  
 PCRM 2.27 320 P 12 29.18 6.4  
 PSMM 2.34 317 P 12 30.98 7.1  
 PARM 2.34 323 P 12 30.30 6.4  
 PANM 2.34 307 P 12 29.35 5.5  
 PTV 2.44 316 P 12 31.85 6.6  
 PSAM 2.48 312 P 12 32.09 6.3  
 PRCM 2.49 319 P 12 32.97 7.0  
 MOP 2.56 316 P 12 32.97 6.0  
 MTUM 2.97 1 (P) 12 34.68 1.7  
 TPNV 3.21 36 ePn 12 35.16 -1.2  
 MMPM 3.24 354 (P) 12 37.81 0.8  
 MRCM 3.29 2 (P) 12 41.12 3.6  
 MEMM 3.29 356 (P) 12 40.64 3.3  
 BONR 3.58 4 (P) 12 41.89 0.2  
 DUG 7.42 37 (P) 13 32.23 -3.6  
 SRU 8.03 52 (P) 13 44.71 0.3  
 MCMT 11.34 21 eP 14 30.70 0.7  
 LTX 13.66 108 (P) 15 00.33 -0.7  
 RSSD 14.89 45 eP 15 16.32 -0.8  
 ULM 22.98 39 eP 16 51.00 0.8  
 FBA 35.27 339 eP 18 41.07 -0.2  
 1.1s 6.93nm 4.4mb  
 TTA 36.83 332 eP 18 52.65 -1.8  
 1.2s 8.67nm 4.4mb  
 IMA 37.88 338 eP 19 01.49 -1.8  
 1.2s 12.24nm 4.6mb  
 MBC 41.96 360 eP 19 38.00 1.3  
 1.0s 8.00nm 4.4mb  
 RES 42.00 9 eP 19 41.00 3.8  
 1.0s 3.00nm 4.0mb  
 FRB 42.31 30 eP 19 39.50 -0.3  
 1.0s 9.00nm 4.5mb  
 ARE 67.56 130 e(P) 22 43.00 -1.0  
 LPAZ 69.59 128 eP 22 54.13 -2.8  
 1.3s 13.86nm 5.0mb  
 BDFB 83.45 114 eP 24 12.67 -1.5  
 1.2s 9.42nm 4.9mb  
 MOX 84.65 29 eP 24 18.80 -0.8  
 1.9s 46.00nm 5.4mb  
 CLL 84.68 28 i(P) 24 19.00 -0.7  
 GRF 85.22 30 eP 24 22.60 0.1  
 1.4s 17.00nm 5.1mb  
 BRG 85.39 28 iP 24 23.50 0.2  
 1.4s 24.00nm 5.2mb  
 i 24 28.80  
 MBL 127.27 268 ePKP 30 55.50 4.0  
 LBTB 147.68 83 ePKP 31 28.03 -0.6



19d 21h

BOSA 148.91 89 ePKP 31 28.67 -1.6  
51 obs. associated

& JAN 19, 1994 21h 13m 56.88s  
34.304 N 118.734 W  
DEPTH = 27.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS).

ABL 0.68 324 (P) 14 11.07 0.8  
SSK 0.87 96 eP 14 12.56 -0.8  
PEC 1.37 107 (P) 14 22.13 1.8  
3 obs. associated

& JAN 19, 1994 21h 15m 02.78s  
34.351 N 118.672 W  
DEPTH = 20.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS).

ABL 0.67 318 eP 15 15.22 -0.7  
SSK 0.82 100 (P) 15 19.27 0.9  
eS 15 32.86  
PEC 1.33 110 eP 15 24.84 -1.5  
3 obs. associated

& JAN 19, 1994 21h 26m 14.95s  
34.358 N 118.693 W  
DEPTH = 14.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 2.8 (GS).

ABL 0.66 319 eP 26 26.70 -1.1  
SSK 0.84 100 eP 26 30.63 -0.3  
eS 26 44.53  
ISA 1.31 8 eP 26 38.64 -0.2  
eS 26 56.31  
BCH 1.41 306 eP 26 39.27 -0.9  
GSC 1.82 58 (P) 26 46.04 0.0  
PLM 1.82 123 (P) 26 44.41 -1.8  
TPNV 3.26 37 ePn 27 05.61 -1.1  
7 obs. associated

JAN 19, 1994 21h 27m 50.30± 0.53s  
34.332 N ± 4.7km 118.722 W ± 3.2km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 3.5 (GS).

FTC 0.56 345 P 28 01.09 -0.5  
RYS 0.61 301 P 28 02.66 0.0  
ABL 0.66 322 eP 28 03.00 -0.6  
PLEC 0.70 336 P 28 04.09 0.0  
ARVC 0.80 354 P 28 05.48 -0.3  
LPC 0.84 282 P 28 06.47 -0.1  
MARC 0.84 323 P 28 06.38 -0.2  
SSK 0.86 98 eP 28 06.83 -0.2  
SNDC 0.88 23 P 28 07.25 0.0  
TEJ 0.90 2 P 28 06.92 -0.6  
TMB 1.01 319 P 28 09.67 0.2  
WOFM 1.20 0 P 28 12.50 -0.3  
CRGC 1.23 318 P 28 13.51 0.3  
WBSM 1.29 22 P 28 14.28 -0.1  
SCCM 1.34 297 P 28 15.30 0.3  
ISA 1.34 9 eP 28 14.88 -0.2  
eS 28 32.53

PEC 1.37 108 eP 28 14.58 -0.8  
BCH 1.41 308 eP 28 15.77 -0.3  
WASM 1.41 5 P 28 16.38 0.2  
WSHM 1.64 38 P 28 18.20 -1.2  
TOW 1.67 28 P 28 22.05 2.3X  
VPEN 1.78 24 P 28 23.98 2.6X  
PLM 1.83 122 eP 28 22.76 0.5  
RCWM 1.84 28 P 28 24.38 2.1  
WLHM 1.85 10 P 28 22.97 0.4  
GSC 1.85 58 eP 28 22.86 0.4  
MTUM 3.02 2 (Pn) 28 40.79 1.6  
TPNV 3.30 37 ePn 28 42.18 -1.0  
MEMM 3.33 357 ePg 28 51.34 7.9X  
MRCM 3.34 3 ePg 28 50.95 7.2X  
GLA 3.49 110 ePn 28 50.18 4.4X  
BONR 3.63 5 (Pn) 28 48.22 0.2  
TNP 3.93 18 ePg 29 02.85 10.6X  
S.D. = 0.7 on 27 of 33 obs.

JAN 19, 1994 21h 34m 20.87± 0.43s  
34.344 N ± 3.9km 118.642 W ± 2.8km

DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.8 (GS).

FTC 0.56 339 P 34 32.16 -0.2  
RYS 0.66 297 P 34 34.30 0.2  
ABL 0.70 317 eP 34 34.10 -0.7  
PLEC 0.72 331 P 34 35.47 0.4  
BMTM 0.79 3 P 34 35.95 -0.4  
ARVC 0.80 349 P 34 36.45 0.1  
SSK 0.80 99 eP 34 37.00 0.5  
SNDC 0.85 19 P 34 38.08 0.8  
MARC 0.87 319 P 34 37.86 0.2  
TEJ 0.88 357 P 34 37.22 -0.7  
LPC 0.90 280 P 34 38.52 0.3  
TMB 1.04 316 P 34 40.99 0.3  
WJPM 1.07 7 P 34 41.72 0.6  
WOFM 1.19 357 P 34 43.36 0.2  
WBSM 1.26 19 P 34 45.59 1.2  
CRGC 1.26 316 P 34 44.60 0.2  
PEC 1.31 110 eP 34 44.60 -0.5  
ISA 1.32 6 eP 34 45.05 -0.3  
SCCM 1.40 296 P 34 46.31 -0.1  
BCH 1.45 306 eP 34 46.91 -0.4  
WSHM 1.60 36 P 34 48.97 -0.3  
TOW 1.63 26 P 34 52.68 2.9X  
VPEN 1.74 23 P 34 54.10 2.7X  
PLM 1.78 123 eP 34 52.57 0.5  
GSC 1.79 57 eP 34 51.39 -0.7  
RCWM 1.80 27 P 34 55.38 3.2X  
PHAM 2.07 316 (P) 34 55.50 -0.6  
MTUM 3.00 1 eP 35 12.38 2.8X  
TPNV 3.25 36 ePn 35 12.21 -0.8  
MEMM 3.27 355 ePg 35 20.41 6.8X  
MEMM 3.32 356 (P) 35 16.82 2.9X  
GLA 3.43 111 ePn 35 25.28 9.8X  
S.D. = 0.6 on 25 of 32 obs.

& JAN 19, 1994 21h 34m 39.87s  
34.345 N 118.711 W  
DEPTH = 14.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.7 (GS).

ABL 0.66 320 eP 34 51.75 -1.0  
LPC 0.84 281 P 34 55.20 -0.6  
SNDC 0.86 23 P 34 56.13 -0.1  
WJPM 1.08 10 P 34 59.86 0.0  
WBSM 1.28 21 P 35 03.01 -0.3  
ISA 1.33 8 eP 35 03.11 -0.9  
PEC 1.36 109 eP 35 02.86 -1.5  
eS 35 21.58  
WASM 1.40 5 P 35 04.84 -0.2  
BCH 1.41 307 eP 35 04.41 -0.7  
WCHM 1.62 19 P 35 09.25 1.0  
NMC 1.63 24 P 35 10.10 1.8  
PLM 1.83 122 eP 35 11.64 0.4  
WLHM 1.83 10 P 35 13.40 2.0  
PMCM 1.94 316 P 35 12.18 -0.4  
PKEM 2.06 327 (P) 35 14.93 0.5  
PADM 2.19 307 P 35 14.46 -1.8  
PANM 2.30 309 P 35 15.88 -2.0  
PAPM 2.68 307 P 35 20.77 -2.6  
BPRM 3.21 311 P 35 28.55 -2.3  
BSRM 3.26 316 P 35 29.13 -2.3  
BVYM 3.26 318 P 35 29.36 -2.1  
MEMM 3.27 356 (P) 35 32.37 0.4  
TPNV 3.28 37 (P) 35 30.39 -1.6  
SAO 3.29 318 eP 35 29.52 -2.4  
FRP 3.30 317 P 35 29.80 -2.4  
DIL 3.45 317 P 35 31.88 -2.2  
HCOM 3.52 317 P 35 33.18 -2.0  
ARN 3.77 323 (P) 35 37.38 -1.5  
COE 3.77 321 (P) 35 36.55 -2.2  
CMB 3.92 340 (P) 35 39.36 -1.6  
30 obs. associated

% JAN 19, 1994 21h 35m 47.53± 0.98s  
26.894 S ± 12.4km 26.735 E ± 7.6km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.6 (PRE).

BFS 0.04 95 iPc 35 48.20 -0.8  
S 35 48.70  
SWZ 1.29 257 eP 36 12.00 0.0  
S 36 29.20

SEK 1.63 151 iPc 36 18.00 0.9  
S 36 37.40  
SLR 1.81 51 eP 36 20.50 0.8  
S 36 43.00  
BOSA 2.07 214 eP 36 23.80 0.4  
S 36 48.50  
S.D. = 1.0 on 5 of 5 obs.

& JAN 19, 1994 21h 37m 40.30s  
34.349 N 118.712 W  
DEPTH = 14.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.7 (GS).

FTC 0.54 344 P 37 50.75 -0.3  
RYS 0.60 299 P 37 52.34 0.2  
ABL 0.65 320 ePc 37 52.25 -0.8  
ARVC 0.78 353 P 37 55.16 0.1  
BMTM 0.79 7 P 37 54.86 -0.4  
MARC 0.83 322 P 37 56.00 0.1  
LPC 0.84 280 P 37 55.97 -0.2  
SSK 0.85 99 eP 37 55.95 -0.5  
TEJ 0.88 1 P 37 56.29 -0.5  
WOFM 1.18 360 P 38 01.99 0.0  
CRGC 1.22 317 P 38 02.78 0.2  
WBSM 1.28 21 P 38 04.40 0.7  
ISA 1.33 8 eP 38 03.84 -0.4  
PEC 1.37 109 eP 38 03.84 -1.0  
eS 38 22.50  
BCH 1.40 307 eP 38 05.18 -0.2  
WSHM 1.63 38 P 38 07.34 -1.2  
GSC 1.83 58 (P) 38 12.38 0.8  
TPNV 3.28 37 ePn 38 30.46 -1.8  
18 obs. associated

& JAN 19, 1994 21h 42m 03.97s  
34.296 N 118.475 W  
DEPTH = 5.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.6 (GS).

SSK 0.65 97 iPc 42 16.12 -1.0  
FTC 0.67 329 P 42 15.97 -1.4  
ABL 0.83 312 iPc 42 18.26 -2.3  
PLEC 0.83 324 P 42 19.17 -1.4  
BMTM 0.84 353 P 42 19.10 -1.7  
SNDC 0.86 10 P 42 21.20 0.2  
ARVC 0.88 341 P 42 19.79 -1.5  
MARC 1.00 315 P 42 21.75 -1.6  
LPC 1.04 281 P 42 22.12 -2.1  
TMB 1.18 312 P 42 25.04 -1.4  
WOFM 1.25 351 P 42 26.55 -1.2  
ISA 1.36 0 ePc 42 27.99 -1.6  
eS 42 46.68  
CRGC 1.40 313 P 42 28.22 -1.9  
SCCM 1.54 295 P 42 30.30 -1.8  
WSHM 1.56 31 P 42 30.20 -2.2  
BCH 1.59 304 eP 42 30.42 -2.5  
WCHM 1.62 12 P 42 31.61 -1.8  
PLM 1.64 125 eP 42 31.27 -2.4  
GSC 1.70 53 iPc 42 32.86 -1.6  
VPEN 1.74 18 P 42 33.36 -1.7  
RCWM 1.78 22 P 42 33.86 -1.8  
WLHM 1.86 4 P 42 35.52 -1.4  
PHAM 2.20 315 eP 42 38.42 -3.3  
PAPM 2.86 305 P 42 47.88 -3.3  
BHPR 3.00 360 P 42 58.52 5.3  
MTUM 3.05 359 ePn 42 52.54 -1.4  
TPNV 3.21 34 ePn 42 53.54 -2.6  
MRCM 3.37 360 (Pn) 42 56.87 -1.6  
MEMM 3.38 354 ePn 42 58.50 0.1  
BPRM 3.39 309 P 42 55.52 -3.1  
SAO 3.45 316 (P) 42 55.51 -4.0  
BONR 3.65 2 ePn 43 01.75 -0.9  
ePg 43 10.75  
EUC 3.86 316 P 43 05.75 0.4  
TNP 3.91 15 ePn 43 04.44 -1.7  
CMB 4.04 338 eP 43 05.62 -2.2  
ARUT 5.36 48 ePn 43 23.55 -3.2  
36 obs. associated

% JAN 19, 1994 21h 44m 49.11± 0.63s  
26.921 S ± 6.7km 26.748 E ± 7.7km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.4 (PRE).



19d 21h

BFS 0.04 55 iPc 44 49.90 -0.7  
S 44 50.30  
KSR 1.06 7 eP 45 10.50 0.8  
S 45 23.00  
SWZ 1.30 258 eP 45 13.10 -0.6  
S 45 28.20  
SEK 1.60 151 eP 45 18.60 0.3  
S 45 38.60  
SLR 1.81 50 iPc 45 21.20 -0.2  
S 45 44.20  
BOSA 2.06 215 eP 45 25.40 0.7  
S 45 51.40  
BLF 2.23 193 eP 45 27.00 -0.5  
S 45 57.00

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

\* JAN 19, 1994 21h 46m 10.50± 0.90s  
44.276 N ± 7.3km 8.213 E ± 6.7km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.7 (GEN).

FIN 0.07 183 P 46 12.26 0.0  
S 46 13.50  
ROB 0.25 275 P 46 15.97 0.4  
S 46 19.58  
PCP 0.36 42 P 46 17.66 0.0  
S 46 22.51  
ENR 0.57 265 P 46 21.50 -0.5  
S 46 29.79  
BHB 0.88 310 P 46 27.87 -0.1  
S.D. = 0.5 on 5 of 5 obs.

\* JAN 19, 1994 21h 46m 25.01± 1.84s  
34.411 N ± 14.0km 118.768 W ± 6.4km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.9 (GS).

FTC 0.47 348 P 46 34.49 -0.1  
RYS 0.53 296 P 46 36.06 0.2  
PLEC 0.61 336 P 46 37.56 0.2  
ARVC 0.72 356 P 46 38.84 -0.3  
MARC 0.76 322 P 46 39.84 0.0  
LPC 0.79 277 P 46 39.81 -0.6  
TEJ 0.82 5 P 46 40.24 -0.7  
SNDG 0.83 28 P 46 40.66 -0.4  
TMB 0.92 317 P 46 43.11 0.4  
WJFM 1.03 13 P 46 44.34 -0.1  
WOFM 1.12 2 P 46 45.93 -0.2  
CRGC 1.14 317 P 46 46.70 0.2  
WBSM 1.24 24 P 46 47.36 -0.8  
SCCM 1.27 295 P 46 48.41 -0.2  
ISA 1.27 11 eP 46 48.07 -0.6  
VPFM 1.72 27 P 46 57.64 2.3  
RCWM 1.79 31 P 46 58.50 2.3  
TPNV 3.26 38 ePn 47 15.11 -2.2  
TNP 3.87 18 ePg 47 36.53 10.5X  
S.D. = 1.1 on 18 of 19 obs.

JAN 19, 1994 22h 02m 43.56± 0.71s  
43.912 N ± 6.4km 7.780 E ± 3.1km  
DEPTH = 5.0km (geophysicist)  
NEAR SOUTH COAST OF FRANCE (379)  
ML 2.3 (GEN).

IMI 0.08 91 P 02 45.53 0.0  
S 02 46.77  
SAOF 0.18 295 Pg 02 47.36 0.1  
Sg 02 50.49  
AUTN 0.27 288 Pg 02 49.46 0.4  
AURF 0.33 266 Pg 02 50.46 0.3  
ROB 0.39 10 P 02 51.34 0.0  
S 02 56.10  
TOUF 0.40 285 Pg 02 51.46 -0.1  
Sg 02 58.29  
ENR 0.41 321 P 02 51.89 0.1  
S 02 56.65  
FIN 0.43 46 P 02 52.85 0.7  
S 02 58.21  
MVIF 0.45 268 Pg 02 52.22 -0.5  
Sg 03 00.38  
STV 0.47 315 P 02 52.85 -0.1  
S 02 58.85  
PZZ 0.77 321 P 02 58.85 -0.2  
S 03 08.69  
PCP 0.84 41 P 02 59.49 -0.8

S 03 10.29  
S.D. = 0.4 on 12 of 12 obs.  
\* JAN 19, 1994 22h 06m 36.51s  
34.377 N 118.610 W  
DEPTH = 11.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 2.9 (GS).

ABL 0.69 313 iPc 06 48.82 -1.4  
SSK 0.78 102 eP 06 50.83 -0.8  
eS 07 03.20  
ISA 1.29 5 ePn 06 59.17 -1.1  
PEC 1.30 112 eP 06 58.80 -1.6  
BCH 1.46 304 ePn 07 01.56 -1.2  
GSC 1.75 58 eP 07 06.29 -0.7  
PLM 1.78 125 eP 07 06.15 -1.3  
MTUM 2.97 1 ePg 07 30.28 5.7  
TPNV 3.21 36 (Pn) 07 27.98 0.1  
MMPM 3.24 354 ePg 07 34.84 6.3  
MEMM 3.29 355 ePg 07 35.39 6.5  
BONR 3.58 4 ePg 07 42.09 8.8  
12 obs. associated

\* JAN 19, 1994 22h 27m 31.32s  
42.300 N 121.958 W  
DEPTH = 6.8km  
4.2mb (3 obs.)  
OREGON (32)  
<SEA-P>. MD 4.0 (SEA). ML 4.4  
(GS), 4.3 (BRK). Slight damage  
(VI) at Dorris, California. Felt  
strongly in the Klamath Falls  
area. Felt (V) at Keno and (IV)  
at Midland. Felt (III) at  
Hornbrook, California.

VRC 0.20 281 Pc 27 35.89 0.5  
S 27 38.60  
HAMO 0.23 182 Pc 27 36.30 0.1  
LASM 0.76 158 P 27 45.31 -1.2  
BBOR 0.79 318 Pc 27 46.13 -1.0  
S 27 57.51  
YBH 0.80 225 ePc 27 45.68 -1.5  
eS 27 56.56  
LMPM 0.83 191 P 27 46.77 -1.0  
LBPM 0.95 177 eP 27 49.04 -0.9  
LGBM 0.97 191 P 27 49.40 -0.8  
DBO 1.25 311 P 27 53.94 -1.0  
S 28 12.49  
LBKM 1.33 204 P 27 54.24 -2.0  
HSO 1.48 326 Pd 27 57.97 -0.5  
S 28 19.20  
KSXM 1.50 252 P 27 58.18 -0.7  
KOMM 1.51 228 P 27 57.61 -1.4  
NCOR 1.53 23 Pd 27 59.55 0.3  
LGPM 1.53 206 eP 27 57.28 -2.0  
HBO 1.57 350 Pd 27 59.95 0.2  
S 28 23.69

WDC 1.77 194 eP 28 01.62 -1.0  
LMEM 1.78 170 eP 28 02.81 -0.2  
TCO 1.83 8 Pd 28 03.78 0.2  
KHBM 1.89 210 P 28 06.03 1.5  
LSLM 1.89 170 P 28 05.17 0.7  
KRPM 1.92 234 P 28 06.00 1.2  
LHKM 1.93 164 P 28 05.59 0.4  
KHMM 1.95 224 P 28 05.26 -0.1  
MIN 1.97 172 ePc 28 05.68 0.0  
FBO 2.06 348 P 28 06.84 0.0  
S 28 36.32  
RNO 2.07 322 P 28 08.14 1.1  
ARC 2.13 229 ePc 28 11.70 3.9  
FHC 2.13 226 eP 28 07.88 0.0  
GMO 2.26 19 P 28 09.67 -0.2  
KCRM 2.34 217 P 28 12.14 1.3  
BPO 2.36 5 P 28 11.41 0.1  
VIPM 2.41 23 P 28 11.95 -0.1  
S 28 47.88  
KMFM 2.49 222 eP 28 12.54 -0.4  
MPOR 2.49 333 Pd 28 13.91 0.9  
KCTM 2.55 225 P 28 15.10 1.2  
SSOR 2.58 352 P 28 14.35 0.0  
OGOM 2.66 174 P 28 16.67 1.3  
GAS 2.70 192 P 28 18.35 2.2  
KIPM 2.74 205 P 28 17.62 0.9  
ORV 2.76 173 ePc 28 17.36 0.5  
eS 28 55.08

CROR 2.77 14 P 28 16.87 -0.2  
GT2 2.86 356 P 28 18.83 0.5  
VFP 3.04 7 P 28 25.39 4.5  
TKO 3.26 341 P 28 24.64 0.7  
AVRM 3.31 171 P 28 25.43 0.8  
VGB 3.33 14 eP 28 25.63 0.8  
GARM 3.35 184 P 28 26.54 1.4  
JBO 3.51 25 P 28 28.47 1.0  
KMOR 3.51 342 Pd 28 28.94 1.4  
GL2 3.75 12 P 28 32.38 1.5  
ASR 3.86 4 P 28 33.95 1.4  
SHW 3.90 357 eP 28 32.67 -0.4  
ESD 3.90 358 P 28 34.37 1.3  
HMR 4.14 178 eP 28 35.34 -1.0  
GLK 4.27 3 P 28 40.41 2.1  
BMW 4.27 348 (P) 28 38.72 0.4  
KVN 4.37 137 eP 28 38.68 -1.2  
LMW 4.37 357 P 28 41.36 1.6  
WPW 4.41 4 P 28 41.98 1.7  
CMB 4.43 164 eP 28 42.13 1.6  
eS 29 45.97  
LON 4.45 1 eP 28 41.48 0.7  
ARN 4.96 176 eP 28 46.82 -1.2  
COE 5.04 177 (P) 28 50.09 0.9  
RMW 5.16 1 (P) 28 49.18 -1.7  
BONR 5.17 146 eP 28 52.29 1.1  
MEMM 5.18 152 (P) 28 52.03 1.0  
MMPM 5.20 153 (P) 28 51.26 -0.4  
GMW 5.28 354 eP 28 53.42 0.9  
MRCM 5.33 149 (P) 28 54.63 1.2  
SAO 5.54 176 (P) 28 55.42 -0.9  
TNP 5.56 138 eP 28 57.20 0.5  
1.1s 3.62nm 4.0mb X  
MTUM 5.59 151 (P) 28 55.87 -1.2  
DPW 6.17 24 eP 29 03.61 -1.5  
HVU 6.86 91 (P) 29 14.90 0.0  
TPNV 6.92 139 (P) 29 16.30 0.4  
MCMT 7.08 66 ePc 29 17.00 -1.2  
PTI 7.10 82 (Pn) 29 17.46 -0.9  
DUG 7.21 104 eP 29 20.19 0.4  
HBMT 7.59 59 ePc 29 23.50 -1.8  
LRM 7.70 60 ePc 29 25.90 -0.9  
BGMT 7.75 64 eP 29 25.10 -2.5  
ARUT 7.94 122 eP 29 29.83 -0.2  
DAU 8.27 100 (Pn) 29 36.36 1.5  
TUC 13.35 135 (P) 30 41.34 -2.5  
WMOK 19.61 105 eP 32 01.54 -1.6  
1.0s 15.58nm 4.3mb  
MEO 19.73 105 iPd 32 04.20 -0.3  
YKA 20.69 10 eP 32 12.50 -1.8  
0.9s 3.80nm 3.7mb  
FRB 37.13 36 eP 34 42.50 -1.4  
LPAZ 76.49 127 eP 39 22.04 -2.5  
0.8s 3.06nm 4.5mb  
90 obs. associated

\* JAN 19, 1994 22h 29m 17.52s  
60.248 N 150.971 W  
DEPTH = 63.8km  
KENAI PENINSULA, ALASKA (14)  
<AEIC>. ML 2.6 (AEIC).

SLKM 0.45 55 iP 29 29.06 -0.5  
NKA 0.51 345 eP 29 31.37 1.3  
HOM 0.68 210 eP 29 31.73 -0.2  
CNPM 0.74 191 eP 29 31.98 -0.7  
eS 29 43.19  
SEW 0.77 100 eP 29 31.97 -1.1  
eS 29 43.56  
MPA 0.84 72 iP 29 33.11 -0.7  
eS 29 45.15  
REF 0.89 286 eP 29 33.90 -0.9  
RED 0.91 282 eP 29 34.02 -0.9  
RS2 0.91 284 eP 29 34.17 -0.9  
DFR 0.92 293 iP 29 34.10 -0.9  
eS 29 47.02  
RDW 0.94 285 eP 29 34.47 -1.0  
ILIM 1.01 261 eP 29 35.17 -1.0  
eS 29 49.51  
NCT 1.02 289 eP 29 35.51 -0.9  
BKG 1.04 323 iP 29 35.92 -0.7  
eS 29 50.19  
INE 1.06 261 eP 29 35.94 -1.0  
SPU 1.08 331 iP 29 36.31 -0.8  
eS 29 51.20  
CKT 1.13 328 eP 29 37.02 -0.8  
eS 29 52.49



19d 22h

CKN	1.15	329	eP	29	37.45	-0.5
CKL	1.17	325	eP	29	37.87	-0.4
CRP	1.18	331	eP	29	37.20	-1.3
CGLM	1.18	335	iP	29	37.90	-0.5
CP2	1.20	329	eP	29	38.00	-0.8
SUA	1.23	5	eP	29	38.37	-0.7
			eS	29	55.56	
BGL	1.23	326	eP	29	38.67	-0.5
OPT	1.28	243	eP	29	38.90	-0.9
PWL	1.44	64	eP	29	40.42	-1.5
			eS	29	58.48	
PWA	1.51	20	P	29	42.40	-0.4
AUE	1.51	235	eP	29	42.05	-0.7
AUL	1.52	236	eP	29	42.31	-0.6
AUP	1.52	235	eP	29	41.87	-1.3
AUH	1.53	236	eP	29	42.74	-0.5
AUW	1.54	236	eP	29	42.75	-0.5
AUI	1.54	235	eP	29	42.82	-0.5
PLRM	1.62	33	P	29	43.07	-1.3
PMR	1.62	33	eP	29	42.21	-2.1
MTU	1.68	97	eP	29	43.68	-1.6
PDB	1.68	255	eP	29	43.87	-1.3
KNK	1.70	45	eP	29	44.18	-1.3
SKT	1.76	351	eP	29	45.89	-0.4
SYI	1.80	204	eP	29	45.80	-1.0
GHO	1.83	32	eP	29	46.14	-1.2
CFI	1.83	58	eP	29	45.33	-1.9
CDD	1.90	227	eP	29	47.39	-0.8
SML	2.02	38	eP	29	48.69	-1.3
CUT	2.19	9	eP	29	51.90	-0.4
HIN	2.23	84	eP	29	50.04	-2.8
FID	2.28	75	eP	29	50.24	-3.3
VZW	2.32	68	eP	29	51.63	-2.6
SVW	2.45	293	P	29	53.80	-2.1
VLZ	2.45	67	eP	29	53.94	-1.9
CVA	2.61	81	eP	29	56.72	-1.4
KDC	2.63	198	(P)	29	56.81	-1.6
KLU	2.77	61	eP	29	58.39	-2.1
HUR	2.81	13	eP	30	01.27	0.2
TOA	2.98	49	P	30	02.00	-1.4
TRF	3.23	5	eP	30	05.15	-1.9
KAIM	3.30	93	eP	30	06.24	-1.6
DHY	3.32	30	eP	30	07.52	-0.7
KTH	3.32	0	eP	30	06.55	-1.6
RND	3.33	17	eP	30	06.59	-1.7
GLB	3.70	68	eP	30	10.51	-3.1
PAX	3.79	42	eP	30	13.35	-1.5
DDM	4.29	32	eP	30	20.10	-1.8
BALM	4.32	76	eP	30	20.36	-2.0
WRH	4.45	16	eP	30	21.45	-2.5
HDA	4.57	22	eP	30	22.57	-3.2

66 obs. associated

JAN 19, 1994 22h 36m 20.54± 0.37s  
 44.546 N ± 2.4km 7.173 E ± 4.1km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.4 (GEN).

PZZ	0.07	231	P	36	22.40	0.1
			S	36	23.45	
BHB	0.30	12	P	36	27.21	0.6
			S	36	31.14	
STV	0.32	160	P	36	27.12	0.1
			S	36	31.33	
ENR	0.37	151	P	36	28.03	0.1
			S	36	32.61	
RRL	0.47	324	P	36	30.09	0.2
			S	36	36.25	
TOUF	0.54	174	Pg	36	31.02	-0.3
ROB	0.56	116	P	36	31.88	0.1
			S	36	39.63	
AUTN	0.58	162	Pg	36	32.87	0.7
			Sg	36	39.80	
RSP	0.61	6	P	36	32.32	-0.4
			S	36	40.37	
SAOF	0.62	154	Pg	36	34.56	1.5
			Sg	36	41.45	
MVIF	0.65	181	Pg	36	33.25	-0.3
			Sg	36	42.34	
AURF	0.67	170	Pg	36	33.50	-0.4
FIN	0.82	114	P	36	36.27	-0.6
			S	36	46.61	
IMI	0.82	141	P	36	36.27	-0.7
			S	36	46.78	
CALN	0.82	195	Pg	36	36.50	-0.5
LSD	0.91	359	P	36	38.60	0.0

PCP 0.98 90 P 36 39.38 -0.3  
 S 36 52.04  
 S.D. = 0.6 on 17 of 17 obs.

JAN 19, 1994 22h 58m 31.58± 0.42s  
 34.299 N ± 4.0km 118.564 W ± 2.7km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 3.2 (GS).

FTC	0.63	335	P	58	43.82	-0.5
SSK	0.73	97	eP	58	46.65	0.7
RYS	0.74	298	P	58	46.36	0.2
ABL	0.77	316	eP	58	46.16	-0.6
PLEC	0.79	328	P	58	47.59	0.6
BMTC	0.83	358	P	58	46.91	-0.9
ARVC	0.85	345	P	58	47.86	-0.2
MARC	0.95	318	P	58	49.72	0.0
LPC	0.97	282	P	58	50.16	0.0
WJPM	1.11	4	P	58	52.90	0.4
TMB	1.12	315	P	58	52.91	0.2
PEC	1.23	109	eP	58	54.40	-0.1
WOFM	1.24	354	P	58	54.43	-0.3
WBSM	1.28	16	P	58	55.81	0.3
CRGC	1.34	315	P	58	56.36	0.0
ISA	1.36	3	ePd	58	56.51	-0.1
WASM	1.44	0	P	58	58.22	0.4
SCCM	1.47	296	P	58	58.81	0.6
BCH	1.53	306	eP	58	58.78	-0.3
WSHM	1.60	33	P	58	59.79	-0.2
NMC	1.63	19	P	59	02.50	2.0X
TOW	1.64	23	P	59	01.31	0.7
PLM	1.70	123	eP	59	01.01	-0.6
VPEN	1.76	20	P	59	04.32	1.9X
GSC	1.76	55	eP	59	02.45	0.1
MTUM	3.05	0	ePg	59	26.04	5.2X
TPNV	3.25	35	ePn	59	23.44	-0.3
MMPM	3.33	354	ePg	59	31.26	6.3X
BONR	3.65	3	ePg	59	38.46	8.8X
TNP	3.93	16	ePg	59	45.65	12.2X

S.D. = 0.5 on 24 of 30 obs.  
 & JAN 19, 1994 22h 59m 06.58s  
 34.366 N 118.694 W  
 DEPTH = 11.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.5 (GS).

ABL	0.65	318	eP	59	18.17	-1.4
SSK	0.84	100	eP	59	22.63	-0.2
ISA	1.31	8	eP	59	29.88	-0.8
PEC	1.36	110	(P)	59	31.62	0.2
BCH	1.41	306	eP	59	32.19	0.0
MTUM	2.98	2	(Pn)	59	55.41	0.6
MMPM	3.25	355	ePg	00	04.98	6.3
TPNV	3.26	37	(P)	59	58.77	0.1
MEMM	3.30	357	ePg	00	06.02	6.9
TNP	3.90	17	ePg	00	18.04	10.3

10 obs. associated  
 & JAN 19, 1994 23h 06m 48.56s  
 34.372 N 118.666 W  
 DEPTH = 14.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.0 (GS).

ABL	0.66	316	eP	07	00.88	-0.5
ISA	1.30	7	eP	07	11.94	-0.2
PEC	1.34	111	eP	07	11.31	-1.4
			eS	07	29.74	
BCH	1.42	305	eP	07	13.81	-0.1
MTUM	2.98	2	(Pn)	07	35.94	-0.3
TPNV	3.24	37	Pg	07	52.80	12.8
MMPM	3.24	355	ePg	07	47.39	7.2
MEMM	3.29	356	(Pn)	07	42.28	1.7
BONR	3.59	5	(Pn)	07	44.76	-0.3
TNP	3.88	17	ePg	08	00.35	11.2

10 obs. associated  
 & JAN 19, 1994 23h 40m 47.74± 3.14s  
 14.565 N ± 6.1km 90.992 W ± 22.1km  
 DEPTH = 10.0km (geophysicist)  
 GUATEMALA (70)  
 MD 3.8 (GCG).

FGO 0.19 129 iPd 40 52.09 0.1

BVA	0.36	74	iPc	40	55.66	0.5
	0.6s	2832.40nm				
TER	0.40	131	iPd	40	55.34	-0.5
PCG	0.41	115	iPd	40	56.30	0.1
GCG	0.45	87	ePc	40	55.79	-1.1
			iS	41	04.54	
IXG	0.65	127	eP	41	00.82	0.0
RDG	0.67	49	ePd	41	00.27	-0.9
	0.6s	1202.70nm				
			iS	41	22.87	
SLP	0.71	75	eP	41	01.83	0.0
SLP	0.71	75	iPc	41	02.00	0.2
	0.7s	3616.90nm				
			iS	41	24.74	
YUP	1.21	107	ePc	41	10.74	0.4
			iS	41	28.63	
MRL	1.35	68	iPc	41	13.49	0.7
			iS	41	33.06	
QZG	1.56	87	ePc	41	16.30	0.6
			eS	41	42.08	

S.D. = 0.6 on 12 of 12 obs.  
 & JAN 19, 1994 23h 59m 53.66s  
 34.365 N 118.697 W  
 DEPTH = 9.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.5 (GS).

FTC	0.53	342	P	00	03.38	-1.0
ABL	0.65	318	iPc	00	05.24	-1.6
PLEC	0.68	333	P	00	06.42	-0.7
MARC	0.83	320	P	00	08.78	-0.9
SSK	0.85	100	eP	00	09.06	-1.1
LPC	0.85	279	P	00	08.84	-1.3
TEJ	0.86	0	P	00	09.10	-1.2
TMB	1.00	316	P	00	12.07	-0.6
WJPM	1.06	10	P	00	12.69	-1.0
WOFM	1.17	359	P	00	14.69	-0.9
CRGC	1.22	316	P	00	15.55	-0.8
ISA	1.31	8	eP	00	16.71	-1.2
			eS	00	34.90	
SCCM	1.35	296	P	00	17.47	-1.0
PEC	1.36	110	eP	00	16.36	-2.3
WASM	1.37	5	P	00	18.37	-0.7
BCH	1.40	306	eP	00	17.51	-1.9
			eS	00	38.09	
WCHM	1.60	18	P	00	22.52	0.2
WSHM	1.61	38	P	00	23.23	1.0
NMC	1.61	24	P	00	23.04	0.7
TOW	1.63	28	P	00	22.93	0.4
VPEN	1.74	24	P	00	25.23	1.0
RCWM	1.80	28	P	00	26.79	1.7
GSC	1.82	58	eP	00	23.79	-1.5
PLM	1.83	123	eP	00	23.45	-2.1
PHAM	2.02	317	(P)	00	27.83	-0.4
PAPM	2.67	306	P	00	34.43	-3.2
MTUM	2.98	2	ePn	00	42.18	0.1
BPRM	3.21	310	P	00	42.52	-2.6
MMPM	3.25	355	ePn	00	46.32	0.3
TPNV	3.26	37	ePn	00	44.07	-1.9
MEMM	3.30	357	ePn	00	45.31	-1.1
MRCM	3.30	3	ePg	00	53.97	7.3
DIL	3.44	317	P	00	45.72	-2.7
GLA	3.48	111	(Pn)	00	43.11	-5.9
BONR	3.60	5	ePn	00	54.90	4.0
TNP	3.90	17	ePg	01	04.96	9.9
CMB	3.91	340	eP	00	53.88	-1.2
ARUT	5.46	50	ePg	01	38.06	20.9

38 obs. associated  
 & JAN 20, 1994 00h 08m 43.11± 0.89s  
 44.351



\* JAN 20, 1994 00h 31m 31.36± 0.51s  
41.723 N ± 6.0km 14.090 E ± 4.7km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN ITALY (390)  
MD 3.2 (ROM).

SDI	0.21	265	P	31	35.58	-0.3
DUI	0.28	103	P	31	36.20	-1.1
AQU	0.81	321	P	31	45.41	-1.7
RDP	1.03	272	P	31	49.84	-1.0
RMP	1.04	275	P	31	51.20	0.2
MNS	1.24	303	P	31	54.13	-0.3
SGO	1.48	141	P	31	57.04	-1.0
ASS	1.71	322	P	32	01.52	0.1
MGR	1.93	145	P	32	06.74	2.1
ARV	1.97	335	P	32	05.59	0.5
HVAR	2.27	49	e(Pn)	32	09.80	0.3
			iS	32	50.10	
ORI	2.44	132	P	32	13.56	1.7
CRE	2.47	321	P	32	13.97	1.6
BRT	2.49	109	P	32	11.73	-0.9
PGD	2.77	322	P	32	17.20	0.5
VBY	3.87	12	ePn	32	31.70	-0.5
LJU	4.33	4	e(Pn)	32	41.00	2.3
			e(Sn)	33	33.00	
PTJ	4.39	17	eP	32	39.70	0.1
OHR	5.08	95	e(P)	32	48.00	-1.4
GEC2	7.13	358	ePn	33	17.20	-1.0
	0.5s				0.39nm	3.8mb
	S.D. = 1.2	on 20	of 20	obs.		

\* JAN 20, 1994 00h 55m 00.26± 2.11s  
24.724 N ± 9.8km 124.978 E ± 14.1km  
DEPTH = 62.4 ± 20.1 km  
4.3mb ( 9 obs.)  
SOUTHWESTERN RYUKYU ISLANDS (246)

SSE	7.18	333	eP	56	45.50	0.7
	N 10s		0.40um			
	E 10s		0.70um			
			S	58	08.50	
CVP	7.58	203	eP	56	48.50	-2.0
NJ2	9.07	325	eP	57	11.00	0.0
	Z 10s		0.64um			
	N 10s		1.38um			
	E 10s		1.21um			
GYA	16.61	280	P	58	52.20	1.6
XAN	16.78	307	P	58	53.70	1.2
TIY	16.79	323	eP	58	54.00	1.3
BJI	16.97	336	eP	58	55.00	0.2
	1.4s		15.00nm		4.0mb	
			pP	59	06.00	
SNY	17.10	356	Pc	58	56.80	0.4
	1.2s		27.00nm		4.3mb	
CN2	19.03	1	P	59	17.80	-2.2
	1.0s		25.00nm		4.4mb	
			esP	59	36.50	
HHC	19.60	328	P	59	30.40	4.2X
HHC	19.60	328	Pn	59	37.40	11.2X
			Pg	59	56.80	
			Sg	01	26.20	
CD2	19.74	293	eP	59	25.00	-2.7
	Z 10s		0.86um			
KMI	20.17	276	eP	59	33.60	1.2
			eS	05	02.00	
			sS	05	19.00	
BTO	20.18	325	ePn	59	21.50	-10.8X
			Pg	59	34.50	
			Sg	00	45.60	
CHTO	24.86	261	eP	00	18.80	0.3
LEM	35.63	211	ePc	02	03.50	9.2X
WRA	45.32	168	P	03	17.00	3.1X
	1.0s		3.40nm		4.2mb	
WB2	45.32	168	iPc	03	16.50	2.6
	1.1s		7.50nm		4.5mb	
MAIO	56.63	298	eP	04	37.00	-2.4
SDN	61.32	39	(P)	05	12.65	1.3
TTA	63.31	30	eP	05	23.81	-0.9
	1.0s		7.23nm		4.7mb	
FBA	66.74	28	ePc	05	46.27	-0.4
	0.6s		2.61nm		4.4mb	
YKA	81.11	24	P	07	10.30	0.5
	0.7s		8.80nm		4.8mb	
GEC2	84.59	322	P	07	27.70	-0.4
	1.1s		1.33nm		3.9mb	
			e	07	31.40	

PcP 07 37.90  
SNA 125.32 199 e(PKP) 14 10.00 15.4X  
1.0s 56.00nm  
LPAZ 165.13 58 PKP 15 03.90 4.2X  
LPB 165.30 59 (PKP) 15 05.00 5.4X  
S.D. = 1.6 on 19 of 27 obs.

\* JAN 20, 1994 00h 57m 56.82± 1.10s  
38.003 N ± 16.1km 103.991 E ± 12.1km  
DEPTH = 10.0km (geophysicist)  
4.5mb ( 2 obs.)  
GANSU, CHINA (322)  
ML 4.0 (BJI).

LZH	1.92	184	Pnc	58	31.50	1.5
			Pg	58	32.50	
			Sg	58	55.00	
			S	58	57.00	
GTA	3.56	295	Pn	58	53.50	0.2
			Pg	59	01.00	
			Sn	59	36.00	
			Sg	59	48.00	
XAN	5.62	133	Pn	59	21.70	-0.8
			Sn	00	25.00	
			Sg	00	54.00	
TIY	6.69	90	ePn	59	39.00	1.4
			Pg	00	01.70	
			Sn	00	52.70	
BJI	9.70	74	eP	00	59.00	39.6X
	N 10s		0.35um			
			Lg	03	02.50	
WRA	64.31	148	P	08	33.80	-0.9
	0.6s		1.20nm		4.3mb	
WB2	64.32	148	eP	08	33.40	-1.4
	0.6s		3.50nm		4.7mb	
	S.D. = 1.6	on 6	of 7	obs.		

\* JAN 20, 1994 01h 32m 41.88± 3.75s  
17.898 N ± 28.0km 62.331 W ± 9.5km  
DEPTH = 10.0km (geophysicist)  
LEEWARD ISLANDS (92)  
ML 3.8 (FDF). MD 3.4 (TRN).

SKI	0.68	215	eP	32	55.44	0.0
			eS	33	05.70	
NEV	0.79	197	eP	32	57.30	0.0
			S	33	07.00	
BPA	0.96	152	eP	33	00.29	0.1
			S	33	13.20	
MBET	1.16	172	eP	33	03.52	-0.1
			eS	33	16.81	
MGH	1.18	175	eP	33	03.76	-0.1
PAG	1.96	161	eP	33	15.69	0.1
			S	33	39.90	
SFG	1.96	146	eP	33	15.90	0.4
DEG	1.99	142	ePd	33	15.57	-0.4
			S	33	39.90	
MGG	2.19	154	eP	33	18.87	0.0
	S.D. = 0.2	on 9	of 9	obs.		

JAN 20, 1994 01h 38m 14.32± 0.29s  
11.878 S ± 5.2km 74.337 W ± 5.1km  
DEPTH = 111.4km ( 6 depth phases)  
4.5mb ( 13 obs.)  
CENTRAL PERU (116)  
Felt (III) at Huancayo and (II)  
at Lima.

NNA	2.45	267	iPd	38	52.70	-1.1
			e	39	20.50	
PT03	2.54	214	iP	38	53.30	-1.6
PT10	2.58	265	iPc	38	56.00	0.5
			iS	39	28.50	
ARE	5.33	149	eP	39	34.00	0.8
			iS	40	35.00	
LPAZ	7.45	127	iPd	40	03.10	0.6
LPB	7.62	128	iPd	40	06.00	1.4
	1.0s		350.00nm		5.9mb X	
CCH	9.64	126	P	40	32.00	0.0
SIV	13.51	109	P	41	19.80	-2.9
SDV	20.95	10	iPc	42	49.60	-0.8
TOV	21.99	12	eP	43	00.50	0.0
MORO	23.38	15	eP	43	13.50	-0.6
CANV	23.42	14	eP	43	23.00	8.7X
BDFB	25.83	101	eP	43	38.35	1.1
	0.8s		6.23nm		4.2mb	
RSTA	27.12	121	eP	43	47.80	-1.1

SVB	28.16	28	eP	43	56.77	-1.4
SLB	28.74	28	eP	44	02.11	-1.4
MGP	30.54	14	i(P)	44	19.00	-0.4
CLLP	30.74	15	iP	44	20.70	-0.4
LPR	31.14	16	iP	44	25.00	0.3
PRM	46.34	351	(P)	46	32.32	1.5
JSC	46.37	352	(P)	46	39.16	8.1X
UYO	49.63	338	iPc	46	56.50	0.1
MIAR	49.65	339	eP	46	56.01	-0.5
	0.9s		16.20nm		5.0mb	
			pP	47	23.88	119km

CVL	49.74	356	(P)	46	57.55	0.4
LTX	49.80	326	eP	46	57.47	-0.4
TUL	51.67	338	iP	47	11.50	-0.4
MEO	51.79	335	iPd	47	13.30	0.5
FVM	51.84	344	eP	47	11.68	-1.4
	0.7s		10.73nm		4.9mb	
ACO	53.67	335	iPd	47	31.50	4.8X
ALQ	55.63	328	iPd	47	40.97	-0.2
	0.8s		4.92nm		4.6mb	
			pP	48	08.03	112km
TUC	56.08	323	eP	47	45.08	0.7
	0.9s		6.02nm		4.6mb	
			pP	48	12.36	113km
PV08	59.55	329	iPd	48	08.55	-0.2
			pP	48	36.02	112km
PV10	59.60	329	eP	48	07.97	-1.0
PV09	59.74	329	eP	48	09.55	-0.5
SRU	60.91	328	eP	48	17.54	-0.3
			pP	48	44.15	108km
MSU	61.34	327	iPd	48	20.99	0.2
			pP	48	46.79	104km
ARUT	61.51	325	ePd	48	22.61	0.7
EMUT	61.59	329	eP	48	22.37	-0.1
RSSD	61.93	336	eP	48	24.54	-0.1
	0.6s		1.55nm		4.2mb	
DAU	62.26	329	eP	48	27.07	0.1
DUG	62.90	328	iPd	48	31.56	0.5
	0.7s		8.99nm		4.8mb	
BW06	63.23	332	eP	48	32.67	-0.6
	0.6s		2.15nm		4.3mb	
HVU	64.04	329	eP	48	38.69	0.2
ULM	64.68	345	eP	48	44.00	1.7
LRM	66.90	332	eP	48	56.80	-0.1
			e	49	34.80	
ORV	67.37	322	iPd	49	00.66	1.0
LBFM	68.73	323	eP	49	08.61	0.3
LGPM	69.01	323	eP	49	10.15	0.2
TIC	71.34	79	P	49	24.44	0.0
	0.9s		7.50nm		4.5mb	
KIC	71.54	79	Pc	49	25.88	0.3
	0.9s		24.50nm		5.0mb	
FRB	75.52	3	eP	49	48.00	0.3
	1.0s		4.00nm		4.2mb	
YKA	80.46	342	P	50	15.00	0.2
	0.8s		4.00nm		4.3mb	
RES	87.34	355	eP	50	52.00	2.7
MBC	91.89	350	eP	51	14.00	3.4X
GEC2	97.55	42	P	51	38.60	1.5
	0.9s		1.72nm		4.6mb	

GBA 152.42 83 PKP 58 01.00 8.5X  
S.D. = 1.0 on 51 of 56 obs.  
\* JAN 20, 1994 01h 41m 28.88s  
34.356 N 118.710 W  
DEPTH = 12.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.7 (GS).

FTC	0.54	344	P	41	38.75	-1.0
RYS	0.60	299	P	41	40.36	-0.6
ABL	0.65	320	eP	41	40.39	-1.3
PLEC	0.68	334	P	41	41.82	-0.3
ARVC	0.78	353	P	41	43.14	-0.6
BMTc	0.78	7	P	41	43.04	-0.9
MARC	0.83	321	P	41	44.11	-0.5
SNDC	0.85	23	P	41	45.09	-0.1
SSK	0.85	99	eP	41	44.97	-0.2
TEJ	0.87	1	P	41	44.54</	



20d 01h

BCH 1.40 307 eP 41 53.37 -0.8  
 WCHM 1.61 19 P 41 59.32 2.0  
 WSHM 1.62 38 P 41 56.59 -0.7  
 VPEN 1.75 24 P 42 01.44 2.2  
 RCWM 1.81 28 P 42 02.18 2.1  
 WLHM 1.82 10 P 42 02.57 2.1  
 GSC 1.83 58 eP 42 00.32 0.0  
 PLM 1.83 123 eP 41 58.79 -1.7  
 MTUM 2.99 2 ePg 42 22.78 5.7  
 MMPM 3.26 356 P 42 27.36 6.4  
 TPNV 3.27 37 ePn 42 19.63 -1.4  
 MEMM 3.31 357 ePg 42 28.23 6.9  
 BONR 3.61 5 ePg 42 33.91 8.0

31 obs. associated

\* JAN 20, 1994 02h 03m 53.29±2.06s  
 36.609 N ±16.4km 3.357 E ±11.9km  
 DEPTH = 10.0km (geophysicist)  
 3.6mb ( 1 obs.)

NORTHERN ALGERIA (396)  
 mbLg 3.9 (MDD).

ESEL 3.18 354 iPd 04 44.40 0.2  
 ACU 3.54 304 iPc 04 48.81 -0.7  
 ENIJ 4.48 276 eP 05 03.00 0.2  
 ECHE 4.53 312 iPd 05 04.13 0.7  
 EROQ 4.80 332 eP 05 07.19 -0.1  
 EHUE 4.90 286 eP 05 09.80 1.0  
 EVIA 5.07 295 iPc 05 10.60 -0.7  
 ECOG 5.59 279 eP 05 20.00 1.4  
 ETER 5.70 356 iPc 05 19.79 -0.2  
 PERF 5.88 357 Pn 05 22.39 -0.2  
 EBAN 5.90 287 eP 05 21.80 -1.0  
 ETOR 5.96 316 iPc 05 25.10 1.3  
 VDCF 6.02 353 Pn 05 24.86 0.3  
 PAND 6.07 347 Pn 05 26.18 0.8  
 EGRA 6.26 334 iPd 05 24.92 -3.0  
 SALF 6.37 345 Pn 05 29.76 0.3  
 GRBF 6.38 348 Pn 05 30.80 1.1  
 GUD 7.13 307 iPc 05 39.63 -0.6  
 DOU 13.51 3 P 07 08.40 1.1  
 SNF 13.91 2 P 07 11.60 -1.0  
 GEC2 14.38 29 P 07 19.40 0.5  
 0.6s 0.42nm 3.2mb X  
 e 07 27.90  
 YKA 69.47 334 P 15 01.90 -1.5  
 0.6s 0.30nm 3.6mb  
 S.D. = 1.1 on 22 of 22 obs.

& JAN 20, 1994 02h 19m 54.01s  
 34.305 N 118.421 W  
 DEPTH = 6.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

SSK 0.61 99 eP 20 05.36 -0.9  
 ABL 0.86 310 eP 20 09.16 -1.9  
 PEC 1.12 111 eP 20 13.82 -1.6  
 PLM 1.61 126 eP 20 19.91 -3.3  
 BCH 1.63 303 ePn 20 21.05 -2.3  
 GSC 1.66 53 eP 20 22.53 -1.3  
 MTUM 3.04 358 ePg 20 49.62 5.9  
 TPNV 3.18 33 ePn 20 43.57 -2.0  
 MMPM 3.33 352 ePg 20 53.60 5.5  
 MEMM 3.38 353 (Pn) 20 47.98 -0.4  
 eS 21 40.19

10 obs. associated

& JAN 20, 1994 02h 22m 38.95s  
 34.311 N 118.629 W  
 DEPTH = 7.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS), 3.1 (GS).

FTC 0.60 339 P 22 50.20 -0.8  
 RYS 0.68 299 P 22 51.93 -0.7

ABL 0.73 318 eP 22 52.06 -1.4  
 PLEC 0.75 331 P 22 53.90 0.0  
 SSK 0.78 97 eP 22 53.23 -1.3  
 BMTC 0.82 2 P 22 53.80 -1.4  
 ARVC 0.83 349 P 22 54.34 -0.9  
 MARC 0.90 320 P 22 55.08 -1.5  
 LPC 0.92 282 P 22 55.25 -1.6  
 TEJ 0.92 357 P 22 54.95 -1.8  
 TMB 1.08 316 P 22 59.36 -0.2  
 WJPM 1.10 6 P 22 59.00 -1.0  
 WOFM 1.22 357 P 23 01.79 -0.3  
 PEC 1.29 109 eP 23 01.38 -1.7  
 eS 23 19.65

WBSM 1.29 18 P 23 02.37 -0.9  
 CRGC 1.29 316 P 23 02.48 -0.8  
 SCCM 1.42 297 P 23 04.38 -0.8  
 BCH 1.48 306 eP 23 04.53 -1.6  
 WSHM 1.62 35 P 23 08.01 0.0  
 TOW 1.65 25 P 23 10.76 2.2  
 PLM 1.75 123 eP 23 08.93 -1.2  
 GSC 1.80 56 eP 23 09.68 -1.0  
 RCWM 1.82 26 P 23 12.56 1.6  
 WLHM 1.86 8 P 23 13.90 2.2  
 MTUM 3.04 1 ePg 23 33.97 5.5  
 TPNV 3.27 36 ePn 23 30.16 -1.6  
 MMPM 3.31 355 ePg 23 38.56 6.1  
 MEMM 3.36 356 ePg 23 39.48 6.7  
 CMB 3.98 340 (Pn) 23 42.97 1.3

29 obs. associated

& JAN 20, 1994 02h 35m 36.48s  
 34.260 N 118.463 W  
 DEPTH = 9.8km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

FTC 0.70 330 P 35 48.31 -2.2  
 RYS 0.83 298 P 35 51.90 -0.8  
 ABL 0.86 314 iPc 35 51.79 -1.4  
 PLEC 0.87 325 P 35 52.79 -0.4  
 BMTC 0.88 353 P 35 51.47 -2.0  
 ARVC 0.92 341 P 35 53.41 -0.6  
 TEJ 0.99 349 P 35 52.99 -2.2  
 MARC 1.03 316 P 35 55.27 -0.8  
 LPC 1.06 283 P 35 55.47 -1.1  
 PEC 1.14 108 eP 35 56.80 -1.1  
 eS 36 11.86  
 WJPM 1.15 359 P 35 57.40 -0.7  
 TMB 1.21 313 P 35 58.56 -0.5  
 WOFM 1.29 351 P 35 59.93 -0.6  
 WBSM 1.30 12 P 36 00.08 -0.7  
 CRGC 1.43 314 P 36 01.88 -0.7  
 WASHM 1.48 357 P 36 02.73 -0.6  
 SCCM 1.57 296 P 36 03.91 -0.5  
 WSHM 1.58 30 P 36 03.63 -1.1  
 PLM 1.61 124 eP 36 04.28 -1.0  
 BCH 1.62 305 eP 36 04.53 -0.8  
 TOW 1.65 20 P 36 05.28 -0.4  
 VPEN 1.77 17 P 36 09.72 2.3  
 WLHM 1.89 4 P 36 09.09 -0.3  
 MTUM 3.09 359 ePg 36 32.85 6.5  
 TPNV 3.23 33 ePn 36 27.67 -0.8  
 MMPM 3.37 352 ePg 36 36.88 6.3  
 MEMM 3.42 354 (Pn) 36 31.73 0.8  
 ePg 36 38.81  
 BONR 3.69 2 (Pn) 36 35.57 0.5  
 ePg 36 43.90

28 obs. associated

& JAN 20, 1994 04h 24m 17.34s  
 34.366 N 118.725 W  
 DEPTH = 11.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

FTC 0.52 345 P 24 27.03 -1.0  
 RYS 0.59 298 P 24 28.57 -0.6  
 ABL 0.63 320 ePd 24 28.63 -1.4  
 PLEC 0.66 335 P 24 29.97 -0.5  
 ARVC 0.76 354 P 24 31.36 -0.7  
 MARC 0.81 322 P 24 32.36 -0.6  
 LPC 0.83 279 P 24 32.40 -0.9  
 SNDC 0.85 24 P 24 33.20 -0.5  
 TEJ 0.86 2 P 24 32.61 -1.2  
 SSK 0.87 100 eP 24 32.93 -1.1  
 eS 24 48.04  
 TMB 0.98 317 P 24 35.75 -0.1

WOFM 1.17 1 P 24 38.38 -0.7  
 CRGC 1.20 317 P 24 39.24 -0.4  
 WBSM 1.26 22 P 24 41.34 0.5  
 SCCM 1.32 296 P 24 41.20 -0.4  
 WASHM 1.38 6 P 24 42.38 -0.2  
 PEC 1.38 110 iPc 24 40.49 -2.0  
 eS 24 59.47

BCH 1.39 307 eP 24 41.92 -0.7  
 WCHM 1.60 19 P 24 46.52 0.7  
 WSHM 1.62 38 P 24 44.25 -1.6  
 NMC 1.62 24 P 24 47.90 2.0  
 TOW 1.64 28 P 24 46.90 0.7  
 RCWM 1.81 29 P 24 50.93 2.3  
 WLHM 1.81 11 P 24 52.06 3.1  
 GSC 1.83 59 ePn 24 48.11 -0.9  
 PLM 1.85 123 eP 24 47.11 -2.2  
 PHAM 2.01 317 (P) 24 52.64 1.2  
 MTUM 2.98 2 ePg 25 11.34 5.8  
 MMPM 3.25 356 ePg 25 15.76 6.3  
 TPNV 3.27 37 ePn 25 08.76 -0.9  
 ePg 25 18.66  
 MEMM 3.30 357 ePg 25 17.54 7.7  
 BONR 3.60 5 ePg 25 22.68 8.3  
 ARUT 5.47 50 ePg 26 04.52 23.6

33 obs. associated

& JAN 20, 1994 04h 32m 22.15s  
 34.374 N 118.610 W  
 DEPTH = 11.4km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS), 2.8 (GS).

SSK 0.78 102 eP 32 36.57 -0.7  
 eS 32 48.71  
 PEC 1.29 111 eP 32 44.50 -1.5  
 BCH 1.46 304 eP 32 47.12 -1.3  
 GSC 1.75 58 eP 32 51.70 -0.9  
 PLM 1.78 124 eP 32 51.64 -1.5

5 obs. associated

? JAN 20, 1994 04h 34m 25.08±13.71s  
 43.275 N ±56.1km 128.798 W ±94.8km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF OREGON ( 30)

NLO 4.74 52 P 35 38.29 0.0  
 HBO 4.74 81 P 35 38.59 0.1  
 SSOR 4.83 69 P 35 39.56 -0.2  
 GT2 5.05 66 P 35 42.93 0.2  
 BMW 5.09 49 eP 35 42.34 -0.9  
 RVW 5.18 54 Pd 35 44.57 0.0  
 VLMM 5.34 63 P 35 46.68 -0.3  
 MTMW 5.44 57 P 35 48.24 -0.1  
 VBEM 5.49 69 P 35 48.65 -0.3  
 SHW 5.51 56 eP 35 49.34 0.0  
 ESD 5.56 56 P 35 51.09 1.0  
 CDFW 5.59 57 P 35 50.41 0.1  
 ASR 5.88 58 Pd 35 54.81 0.3  
 LON 6.05 53 eP 35 56.40 -0.4  
 WPW 6.18 54 P 35 58.82 0.2  
 FMW 6.23 52 P 35 59.48 0.0  
 GL2 6.29 62 P 35 59.96 -0.3  
 HTW 6.70 45 P 36 05.82 -0.1  
 RPW 7.25 42 P 36 13.83 0.1  
 ETW 7.36 51 P 36 15.66 0.4

S.D. = 0.4 on 20 of 20 obs.

& JAN 20, 1994 04h 36m 14.93s  
 34.312 N 118.510 W  
 DEPTH = 2.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK 0.68 98 ePc 36 27.85 -0.8  
 eS 36 38.19  
 PEC 1.20 110 eP 36 36.29 -1.7  
 BCH 1.56 304 ePn 36 43.01 -0.8  
 PLM 1.67 124 eP 36 43.09 -2.4  
 GSC 1.72 54 eP 36 45.45 -0.6  
 TPNV 3.21 34 ePn 37 07.18 -0.3

6 obs. associated

& JAN 20, 1994 04h 52m 36.21s  
 34.339 N 118.727 W  
 DEPTH = 18.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).



0.98      14.00km      27.7km



20d 05h

MEEK	50.41	184	eP	59	04.80	-1.9	SPC	79.36	319	eP	02	13.80	-0.8	JCW	88.31	37	P	03	01.01	1.2
	0.4s	15.00nm				5.4mb	OKC	80.33	320	P	02	20.20	0.7	BMW	88.55	39	P	03	02.36	1.3
MAIO	54.45	298	iPc	59	36.20	-0.7				e	02	49.00	112kmX	EMS	88.73	321	ePd	03	01.00	-1.1
BAL	54.49	185	eP	59	35.50	-1.5	SRS	80.45	311	eP	02	19.32	-1.0	RMW	88.80	37	P	03	01.80	-0.5
COOL	54.55	181	eP	59	30.50	-7.0X	SOH	80.73	310	eP	02	21.76	-0.1	KMOR	88.87	40	P	03	04.27	1.7
FORT	54.77	173	eP	59	38.00	-1.1	PAIG	80.86	310	eP	02	22.56	0.0	FMW	89.18	38	P	03	05.04	0.8
	0.5s	20.00nm				5.4mb	KNT	80.91	311	eP	02	21.88	-0.9	LON	89.20	38	P	03	05.05	0.9
KLB	55.39	184	eP	59	42.00	-1.6	VAY	81.08	311	iP	02	23.00	-0.6	SHW	89.28	39	P	03	05.40	0.8
MUN	55.90	186	eP	59	45.50	-1.7		1.2s	80.00nm				5.6mb	ASR	89.67	38	P	03	07.79	1.4
	1.2s	94.00nm				5.7mb			i	02	23.70	2kmX	RNO	89.68	41	P	03	08.36	1.9	
NWAO	56.75	185	iPd	59	52.10	-1.2			i	02	44.00		WTV	89.68	37	P	03	07.09	0.7	
RKG	58.40	185	eP	00	04.50	-0.4	SRO	81.11	318	e(P)	02	24.20	0.6	EBG	89.80	37	P	03	08.13	1.2
STK	58.67	160	eP	00	05.90	-1.0			i	02	46.90	85kmX	SSOR	89.91	40	P	03	08.86	1.3	
	0.6s	19.90nm				5.4mb	GRG	81.34	311	eP	02	23.88	-1.2	SAW	89.98	36	P	03	08.49	0.8
ADE	60.77	164	eP	00	20.00	-1.3	UZD	81.47	317	eP	02	25.00	-0.6	VBEM	90.30	39	P	03	10.44	1.0
ARMA	61.18	151	eP	00	24.70	0.5	SKO	81.58	312	iP	02	26.00	-0.2	CSY	90.39	185	eP	03	08.70	-0.2
	0.7s	12.00nm				5.1mb		1.0s	80.00nm				5.7mb		0.7s	24.40nm			5.6mb	
ANM	61.24	28	P	00	24.70	0.6			i	02	48.60	85kmX	WAH2	90.45	37	P	03	11.15	1.3	
DZM	63.07	133	iPc	00	37.00	0.0	LIT	81.63	310	eP	02	25.08	-1.5	VGB	90.50	39	P	03	11.20	1.0
BWA	63.34	156	eP	00	39.00	0.5	ZST	81.67	319	eP	02	26.30	-0.2	DPW	90.52	36	P	03	11.47	1.2
			e	00	49.30	33km	FNA	82.12	311	eP	02	28.96	-0.2	CROR	90.69	39	P	03	12.38	1.2
			i	01	02.60		AGG	82.18	309	eP	02	27.64	-1.8	NEW	90.85	35	P	03	12.00	0.3
SDN	63.70	39	eP	00	40.10	-0.5	BRG	82.25	323	iP	02	29.80	0.3		1.0s	26.46nm			5.6mb	
	0.7s	89.20nm				6.0mb		1.5s	34.00nm				5.2mb	JBO	91.07	38	P	03	14.16	1.4
CAN	64.35	156	eP	00	44.80	-0.3			i	02	48.40	68kmX	VIPM	91.18	39	P	03	14.82	1.3	
			e	00	55.80	36km	PRU	82.34	322	Pd	02	30.20	0.2	FHC	91.24	44	P	03	15.60	1.9
			e	01	07.80			1.6s	63.10nm				5.4mb		0.9s	39.74nm			5.8mb	
CNB	64.49	155	iPd	00	45.90	-0.1			e	02	38.80	27kmX	LNOR	91.69	37	P	03	16.90	1.2	
			iPp	01	09.30	92kmX			e	02	49.30		LGPM	91.91	43	P	03	18.00	1.1	
TAB	64.59	302	iPc	00	47.00	0.1	OHR	82.38	312	iP	02	29.50	-1.0	FRB	92.19	5	eP	03	16.50	-1.0
TOO	65.15	159	iPd	00	50.20	0.0		0.7s	30.00nm				5.5mb		1.0s	19.00nm			5.5mb	
	0.5s	55.00nm				5.9mb	CLL	82.56	323	iPd	02	30.30	-0.8	LBFM	92.25	42	P	03	19.40	0.9
			iPp	01	14.00	94kmX		1.1s	27.00nm				5.2mb	LMEM	92.91	43	P	03	22.20	0.6
TTA	65.40	30	eP	00	51.40	-0.2			i	02	49.10	68kmX	ORV	93.52	44	P	03	24.40	0.3	
SVW	65.75	32	eP	00	54.10	0.2	YKA	82.94	23	P	02	32.50	-0.4	ARN	94.76	46	P	03	30.20	0.3
IMA	66.13	26	eP	00	55.60	-0.7		0.8s	31.00nm				5.4mb	LRM	94.86	35	eP	03	30.90	0.3
	1.3s	32.30nm				5.2mb	KHC	83.30	321	eP	02	34.90	-0.2	CMB	95.11	45	P	03	31.70	0.1
CP2	67.36	31	P	01	03.50	-0.8		1.0s	11.10nm				4.9mb		1.0s	20.57nm			5.5mb	
CRP	67.40	31	P	01	03.60	-0.9			e	02	53.00	65kmX	KVN	95.94	43	P	03	49.90	64kmX	
KDC	67.80	35	eP	01	07.10	0.3			e	03	04.00		BONR	96.48	44	P	03	38.30	0.2	
OBN	68.00	322	iPd	01	06.80	-1.3			e	03	14.40		BCH	96.96	47	P	03	42.20	2.1	
	2.0s	192.00nm				5.8mb	GEC2	83.37	321	P	02	34.50	-1.0	HVU	97.37	38	P	03	42.70	0.8
Z	20s	1.20um				5.1msz		0.8s	13.55nm				5.1mb	TPNV	98.39	43	P	03	47.70	1.1
N	20s	1.00um							e	02	39.20	15kmX		0.8s	4.03nm			5.0mb		
E	18s	1.20um							e	02	44.00		ULM	98.91	23	eP	03	51.50	3.0X	
		iPcP	01	26.00					e	02	54.70		GSC	99.04	45	P	03	50.40	0.9	
		(S)	10	32.00					e	02	58.10		RSSD	100.29	32	Pdiff	03	56.00	1.0	
		(SS)	15	44.00					e	02	34.24	-1.4		1.2s	12.41nm			5.3mb		
		eSSS	18	12.00			IGT	83.37	310	eP	02	34.24	-1.4	SLR	103.02	248	ePd	04	04.00	-3.5X
		LQ	23	08.00			PTJ	83.41	317	eP	02	33.80	-2.0		0.8s	11.19nm			5.6mb	
SLKM	68.46	32	P	01	08.80	-2.2	ZAG	83.44	317	eP	02	35.00	-0.7		Z	22s	3.33um			5.8msz
FBA	68.73	27	eP	01	12.80	0.3	MOX	83.65	323	eP	02	36.80	0.0	LKO	118.78	297	PKP	08	56.04	-1.5
	0.9s	62.00nm				5.7mb		1.8s	36.00nm				5.2mb		0.8s	5.00nm				
PMR	68.77	31	eP	01	12.00	-0.8			e	03	01.30	92kmX	KIC	119.80	293	PKP	08	58.41	-1.1	
	0.6s	42.50nm				5.7mb			e	03	06.30			0.8s	17.50nm					
TOA	70.03	30	eP	01	21.00	0.4	HOF	83.68	323	eP	02	36.90	0.0	TIC	119.89	294	PKP	08	58.39	-1.3
SDF	70.16	336	iP	01	20.00	-1.2	WET	83.69	321	iPd	02	37.70	0.7		0.8s	6.50nm				
KLU	70.30	31	P	01	21.80	-0.4	LJU	84.22	318	eP	02	39.50	-0.2	LIC	120.11	293	PKP	08	58.89	-1.2
KAF	71.62	330	iP	01	28.20	-1.9			iPp	02	59.50	75kmX		0.7s	6.50nm					
	0.6s	13.80nm				5.1mb	GRF	84.36	322	eP	02	40.50	0.1	TOV	144.58	20	ePKPc	09	44.70	-1.2
BALM	72.08	31	P	01	32.60	-0.5		1.1s	21.00nm				5.2mb	SDV	145.15	22	iPKPd	09	45.60	-1.4
NUR	72.86	329	iP	01	35.80	-1.6	BHG	84.40	320	iPc	02	41.10	0.5	TRN	145.45	6	ePKP	09	44.74	-2.5
	0.6s	14.00nm				5.1mb		0.8s	31.00nm				5.5mb	LPZ	167.93	52	PKP	10	16.50	0.9
INK	73.20	22	eP	01	38.00	-1.3	KBA	84.44	319	iPd	02	40.00	-1.0		LR			09	52.00	
	1.0s	23.00nm				5.1mb		0.9s	15.80nm				5.2mb	LPB	168.12	53	PKP	10	17.10	1.7
MBC	73.34	13	eP	01	39.00	-1.0			i	03	06.90	102kmX		Z	24s	1.55um				
	0.9s	8.00nm				4.7mb	VOY	84.62	318	eP	02	38.90	-2.9		LR			09	50.00	
CSS	75.50	302	eP	01	53.00	-0.3			iPcP	02	40.80		CCH	170.09	50	PKP	10	18.00	1.5	
UPP	76.37	330	iP	01	55.90	-1.7	TRI	84.85	318	eP	02	41.40	-1.5	SIV	171.61	19	PKP	10	16.60	-0.2
ALT	76.56	307	eP	01	57.10	-2.2	FUR	85.10	321	eP	02	44.70	0.6	MOCB	172.60	70	PKP	10	19.30	1.6
VRI	76.56	314	ePd	01	59.00	0.0		0.8s	71.00nm				5.9mb		S.D. = 1.2	on 196 of 219 obs.				
DAG	76.68	351	iPc	01	57.20	-1.9	WATA	85.35	320	iPd	02	44.60	-1.0							
	0.8s	21.64nm				5.2mb			i	03	04.50	72kmX								
SIT	76.87	33	P	02	01.80	1.4			i	03	10.00									
	0.8s	26.01nm				5.3mb	WTTA	85.35	320	iPd	02	44.70	-0.9							
DST	77.45	308	eP	02	03.00	-1.1		0.9s	22.00nm				5.4mb							
ELL	77.51	305	eP	02	11.50	6.9X			i	03	07.30	84kmX								
HFS	78.03	331	eP	02	04.90	-1.9	SQTA	85.63	320	iPd	02	46.00	-0.9							
	0.7s	36.50nm				5.5mb		0.9s	20.80nm				5.3mb							
	Z	19s	1.69um			5.4msz			i	03	06.00	73kmX								
		LR	33	01.00			OSS	86.53	320	ePd	02	51.90	0							



SCCM	1.34	295	P	58	47.93	-1.2	TPNV	3.07	50	(P)	04	45.11	0.8	<PAS-P>. ML 3.9 (PAS), 4.0 (GS).									
WORM	1.36	16	P	58	50.13	0.6	28 obs. associated							TPRS	0.29	160	P	58	32.38	-1.0			
PEC	1.37	111	eP	58	48.01	-1.6	-----							ECF	0.33	287	P	58	34.30	0.1			
BCH	1.39	305	eS	59	07.46		& JAN 20, 1994 06h 23m 45.25s							LHU	0.40	38	P	58	35.59	-0.8			
			eS	58	48.75	-1.3	34.321 N 118.394 W							LEOC	0.43	51	P	58	35.18	-0.9			
YEG	1.48	316	P	58	50.40	-0.8	DEPTH = 4.4km							STTC	0.47	25	P	58	36.43	-0.4			
TOW	1.62	28	P	58	52.56	-0.6	SOUTHERN CALIFORNIA ( 43)							CJUV	0.50	70	P	58	36.24	-1.0			
VPFM	1.72	25	P	58	56.40	1.6	<PAS-P>. ML 2.6 (PAS), 2.8 (GS).							FTC	0.53	344	P	58	37.04	-0.8			
PTRM	1.78	316	P	58	54.74	-0.7	SSK	0.59	101	ePd	23	56.33	-0.8	GVRC	0.58	122	P	58	38.34	-0.2			
RCWM	1.79	29	P	58	58.62	3.0	ABL	0.86	308	eP	24	00.31	-2.2	LRRC	0.59	73	P	58	38.00	-0.8			
WLHM	1.79	10	P	58	55.75	-0.2	PEC	1.11	112	eP	24	04.96	-1.7	JNH	0.63	82	P	58	38.77	-0.8			
GSC	1.81	59	eP	58	54.48	-1.5	PLM	1.60	127	eP	24	12.42	-2.1	ABL	0.65	319	eP	58	38.79	-1.1			
PLM	1.84	123	eP	58	54.52	-2.0	GSC	1.63	53	eP	24	13.64	-1.3	TPO	0.65	37	P	58	39.27	-0.6			
PAGM	1.85	317	P	58	56.32	-0.2	BCH	1.64	302	eP	24	13.46	-1.5	TJR	0.67	358	P	58	39.36	-0.8			
PMCM	1.92	315	P	58	55.72	-1.8	TPNV	3.15	33	eP	24	35.52	-1.2	PLEC	0.68	334	P	58	40.06	-0.3			
PHAM	2.01	317	eP	58	57.64	-1.2	BONR	3.63	1	(P)	24	50.80	7.2	PEM	0.72	105	P	58	40.41	-0.6			
PKEM	2.03	326	eP	58	58.86	-0.3	8 obs. associated							LJB	0.75	72	P	58	40.59	-0.9			
CTM	2.05	320	P	59	02.66	3.2	-----							SBB	0.80	65	P	58	41.58	-0.8			
PSTM	2.14	317	P	58	59.65	-1.1	% JAN 20, 1994 06h 32m 38.83± 0.42s							MARC	0.83	321	P	58	42.25	-0.6			
PADM	2.18	306	P	58	59.32	-1.9	37.274 N ± 3.8km 4.217 W ± 4.0km							LPC	0.84	280	P	58	42.40	-0.8			
PANM	2.29	308	P	59	00.71	-2.1	DEPTH = 5.0km (geophysicist)							SNDC	0.85	23	P	58	42.82	-0.5			
PSAM	2.43	313	P	59	08.52	3.7	SPAIN (377)							SSK	0.85	100	ePc	58	42.62	-0.8			
HVC	2.64	320	P	59	07.32	-0.5	mbLg 3.3 (MDD). Felt (III) in							TEJ	0.87	1	P	58	43.04	-0.5			
BMSM	2.84	324	P	59	09.27	-1.5	the Zagra area.							SBI	0.92	197	P	58	44.08	-0.2			
MTUM	2.97	2	ePn	59	12.27	-0.4	ELOJ	0.14	158	iPc	32	41.60	-0.1	CIS	0.98	165	P	58	44.31	-1.2			
			eS	59	54.75					eS	32	43.60		WOFM	1.17	360	P	58	48.36	-0.5			
BPRM	3.20	310	P	59	13.39	-2.4	ELUQ	0.29	352	iPd	32	45.08	0.4	SCCM	1.34	296	P	58	50.34	-1.2			
MMPM	3.23	355	eP	59	16.96	0.4				eS	32	50.70		PEC	1.37	110	iPc	58	50.38	-1.5			
TPNV	3.25	37	ePn	59	15.24	-1.4	ECOG	0.52	89	iPc	32	48.90	-0.4	WASM	1.38	5	P	58	52.00	-0.2			
SAO	3.27	318	eP	59	13.93	-2.8				eS	32	56.30		BCH	1.40	306	ePc	58	51.20	-1.2			
FRP	3.28	317	P	59	14.64	-2.4	EMAL	0.54	198	eP	32	49.01	-0.6	YEG	1.49	317	P	58	52.97	-0.6			
MEMM	3.28	357	ePn	59	15.36	-1.6				eS	32	58.00		NMC	1.62	24	P	58	56.60	1.1			
MRCM	3.29	3	ePg	59	23.47	6.2	EGUA	0.68	130	iPd	32	51.49	-1.0	TOW	1.64	28	P	58	55.15	-0.6			
			eS	00	04.81		EPRU	0.87	250	iPd	32	56.70	0.7	PTRM	1.79	317	P	58	57.40	-0.5			
DIL	3.43	316	P	59	16.20	-2.8	EBAN	0.95	21	iPc	32	57.59	0.2	WLHM	1.82	10	P	58	58.20	-0.4			
GLA	3.49	111	ePn	59	19.76	-0.2				eS	33	10.40		GSC	1.83	58	eP	58	57.34	-1.2			
BONR	3.58	5	ePn	59	20.55	-0.9	EHOR	0.99	304	eP	32	57.17	-0.8	PMGM	1.83	306	P	58	57.79	-0.8			
			ePg	59	30.35					eS	33	11.00		PLM	1.83	123	eP	58	56.72	-2.0			
ARN	3.75	323	eP	59	21.22	-2.5	EJIF	1.30	231	eP	33	04.83	1.5	PAGM	1.86	318	P	58	58.75	-0.3			
COE	3.75	321	ePn	59	21.51	-2.1				eS	33	22.90		PMRM	1.90	319	P	58	58.77	-0.7			
TNP	3.88	18	ePn	59	25.18	-0.5	EHUE	1.40	67	eP	33	05.63	0.5	PMCM	1.93	315	P	58	59.27	-0.7			
			ePg	59	36.44					eS	33	25.20		PHAM	2.02	317	eP	59	00.29	-1.0			
CMB	3.89	340	ePn	59	23.92	-1.7	ENIJ	1.63	100	eP	33	09.85	1.5	PKEM	2.05	326	eP	59	01.41	-0.3			
KVN	4.68	6	ePg	59	50.25	13.2	EVIA	1.92	44	iPd	33	11.79	-0.8	CTM	2.06	320	P	59	05.67	3.7			
ARUT	5.45	50	ePn	59	46.54	-1.3				eS	33	35.00		PSTM	2.15	317	P	59	02.36	-0.8			
ORV	5.63	337	eP	59	48.95	-1.3	Eval	2.04	279	iPc	33	12.83	-1.4	PADM	2.18	306	P	59	01.84	-1.8			
			eS	01	12.61					eS	33	39.90		PHBM	2.20	330	P	59	03.27	-0.5			
MSU	6.68	50	ePn	00	04.39	-0.9	PAB	2.27	357	ePn	33	18.50	0.9	PANM	2.29	309	P	59	03.25	-2.0			
DUG	7.46	37	ePg	00	46.19	30.1				ePb	33	20.50		PTV	2.40	317	P	59	05.50	-1.2			
PV09	8.73	59	ePn	00	33.95	-0.1				iPg	33	24.00		PSAM	2.44	314	P	59	05.52	-1.7			
PV10	8.75	60	(Pn)	00	32.53	-1.7				iSn	33	49.00		PJLM	2.65	311	P	59	08.21	-2.0			
										iSg	33	57.50		BMSM	2.86	324	P	59	12.57	-0.7			
53 obs. associated							EPLA	3.14	333	iPc	33	29.85	-0.1	SHG	2.92	315	P	59	11.80	-2.3			
& JAN 20, 1994 06h 03m 54.97s							GUD	3.36	1	eP	33	32.74	-0.5	MTUM	2.99	2	ePn	59	15.12	-0.1			
34.993 N 119.174 W							S.D. = 0.9 on 16 of 16 obs.							BPRM	3.20	310	P	59	16.02	-2.2			
DEPTH = 12.4km							-----							BSRM	3.25	316	P	59	16.46	-2.3			
SOUTHERN CALIFORNIA ( 43)							* JAN 20, 1994 06h 50m 13.03± 1.76s							MMPM	3.25	356	ePn	59	19.27	0.1			
<PAS-P>. ML 3.1 (PAS), 3.0 (GS).							32.730 S ± 8.0km 71.754 W ±16.6km							TPNV	3.27	37	eP	59	17.83	-1.4			
PLEC							DEPTH = 33.0km (normal)							ORC	3.27	1	P	59	21.92	2.6			
MARC							NEAR COAST OF CENTRAL CHILE (135)							SAO	3.28	318	ePn	59	16.27	-2.9			
ABL							MD 4.1 (SAN).							MEMM	3.31	357	ePn	59	19.98	0.5			
TMB							ROCH							MRCM	3.31	3	ePn	59	19.06	-0.8			
ARVC							0.67 111 iPd 50 25.56 -0.7							DIL	3.44	317	P	59	19.27	-2.2			
RYS							is 50 37.47							GLA	3.49	111 ePn	59	22.37	0.2				
CRGC							LCCH							BONR	3.60	5 ePn	59	25.20	1.1				
WOFM							0.76 168 iP 50 27.39 0.1									ePg	59	32.68					
LPC							JACH							JTGM	3.71	317 P	59	23.32	-2.0				
WJFM							0.98 88 iP+ 50 29.19 -1.4							ARN	3.76	323 eP	59	23.95	-2.2				
BCH							is 50 44.36							COE	3.76	321 ePn	59	24.06	-2.0				
SCCM							PEL							TNP	3.91	18 ePn	59	28.89	0.6				
WASM							0.99 115 iP+ 50 30.90 0.2							CMB	3.91	340 eP	59	26.28	-1.9				
WBSM							is 50 46.76							MNHM	4.14	336 P	59	30.71	-0.7				
PSRM							SAN							HMR	4.54	327 (Pn)	59	36.59	-0.4				
WCHM							LNV							KVN	4.71	6 ePg	59	52.95	13.3				
PHAM							1.17 128 iP+ 50 33.86 0.7							ARUT	5.47	50 ePn	59	50.80	0.4				
NMC							1.26 167 iP 50 34.01 -0.3							ORV	5.65	338 eP	59	51.41	-1.3				
WLHM							is 50 52.50							MSU	6.70	50 ePn	00	08.80	0.9				
TOW							FCH							DUG	7.48	37 ePg	00	46.20	27.5				
VPFM							1.37 116 eP 50 36.62 0.3							SRU	8.10	52 (Pn)	00	28.48	1.1				
WSHM							is 50 57.41							EMUT	8.33	47 ePg	00	57.51	26.9				
GSC							RTCB							PV09	8.75	59 ePn	00	36.52	0.0				
PEC							3.12 64 ePd 51 01.50 0.4							YKA	28.27	4 P	04	25.30	3.5				
BHPR							RTRS							0.4s 0.10nm 2.9mb									
PLM							3.22 38 eP 51 02.00 -0.4							80 obs. associated									
BONR							S							-----									
							S.D. = 0.8 on 10 of 10 obs.							JAN 20, 1994 06h 59m 14.20± 0.17s									
& JAN 20, 1994 06h 58m 27.13s							34.359 N 118.708 W																
34.359 N 118.708 W							DEPTH = 13.1km																
SOUTHERN CALIFORNIA ( 43)																							



20d 06h

44.570 N  $\pm$  1.6km 7.334 E  $\pm$  1.8km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 MD 4.6 (STR), 4.4 (TRI), 4.2  
 (VIE). ML 4.0 (ROM). mbLg 4.4  
 (UCC).

DOI	0.09	224 P	59	21.79	4.9X
PZZ	0.18	249 Pd	59	17.72	-0.6
BHB	0.28	350 Pc	59	20.46	0.4
STV	0.33	181 P	59	20.44	-0.5
ENR	0.35	170 Pc	59	20.71	-0.7
ROB	0.47	125 P	59	23.68	-0.1
RRL	0.53	312 Pd	59	24.67	-0.2
TOUF	0.56	186 Pg	59	25.23	-0.5
AUTN	0.58	173 Pg	59	25.40	-0.7
RSP	0.58	355 Pc	59	25.82	-0.3
SAOF	0.60	165 Pg	59	26.03	-0.4
		Sg	59	33.83	
BNI	0.67	316 P	59	27.34	-0.3
AURF	0.68	180 Pg	59	27.39	-0.4
MVIF	0.69	191 Pg	59	27.52	-0.4
CKI	0.69	102 P	59	27.54	-0.4
SBF	0.71	174 Pg	59	27.87	-0.4
FIN	0.72	120 Pd	59	28.04	-0.4
IMI	0.77	149 Pd	59	28.84	-0.5
REVf	0.83	178 Pg	59	30.25	0.0
		Sg	59	41.91	
PCP	0.87	91 P	59	30.74	-0.2
		S	59	41.56	
CALN	0.88	202 Pg	59	31.45	0.3
LSD	0.90	352 P+	59	31.45	-0.1
		S	59	42.45	
ORO	1.15	23 P	59	34.61	-1.2
ORX	1.16	23 P	59	34.67	-1.2
		S	59	49.46	
RSL	1.23	336 Pg	59	37.68	0.6
DIX	1.51	2 iPc	59	41.20	-0.4
BOB	1.52	82 P	59	44.00	2.5
EMS	1.53	349 iPd	59	42.90	1.2
MMK	1.55	17 iPc	59	41.10	-1.0
VAI	1.65	38 P	59	43.09	-0.1
TMA	1.88	35 iPd	59	46.20	-0.6
MDI	2.07	53 P	59	50.29	0.9
SSB	2.11	291 Pn	59	51.17	1.2
PGF	2.36	148 Pn	59	51.75	-1.9
BDI	2.40	101 P	59	54.09	-0.1
VDL	2.43	37 ePc	59	54.80	0.0
MME	2.44	98 P	59	55.83	0.8
PII	2.45	109 P	59	54.70	-0.1
SAL	2.49	64 P	59	57.61	2.3
LLS	2.58	26 ePc	59	56.10	-0.8
LOMF	2.80	353 Pn	00	00.93	1.0
OSS	2.89	42 ePc	00	02.10	0.8
BBS	2.90	2 Pn	00	01.73	0.5
PLDF	2.97	299 Pn	00	03.60	1.3
LBL	2.98	284 Pn	00	03.77	1.3
ZLA	3.00	14 ePc	00	03.40	0.7
PGD	3.23	101 P	00	05.38	-0.7
PYM	3.28	293 Pn	00	07.95	1.2
BSF	3.28	354 Pn	00	06.92	0.1
MOF	3.29	358 Pn	00	06.59	-0.2
SLE	3.30	14 iPd	00	06.50	-0.4
SFI	3.31	100 P	00	07.11	0.0
AGO	3.31	298 Pn	00	08.35	1.2
FEL	3.34	8 Pn	00	06.86	-0.8
CTI	3.39	63 P	00	07.30	-0.9
CRE	3.46	104 P	00	09.15	-0.1
OGA	3.46	47 iPnc	00	11.10	1.7
LIBD	3.59	3 Pn	00	10.45	-0.5
ECH	3.65	358 Pn	00	11.27	-0.6
VITF	3.77	346 Pn	00	13.91	0.3
SQTA	3.79	44 iPnc	00	15.30	1.3
		iSn	01	01.90	
MTHF	3.84	247 Pn	00	14.61	0.0
CDP	3.84	359 Pn	00	14.01	-0.7
WLS	3.84	0 Pn	00	13.56	-1.1
PERF	3.85	239 Pn	00	14.49	-0.3
ETER	3.97	237 eP	00	17.00	0.6
		eS	01	03.50	
WTTA	4.03	47 iPnc	00	18.50	1.0
		iPg	00	37.60	
		iSn	01	08.00	
		iSg	01	33.20	
WATA	4.05	45 iPnd	00	19.00	1.3
		iSn	01	08.80	
ASS	4.14	109 P	00	18.86	0.0

ARV	4.18	103 P	00	20.20	0.7
FVI	4.33	60 P	00	22.65	1.2
MNS	4.46	117 P	00	23.57	0.1
FUR	4.51	36 eP	00	18.10	-6.1X
GRBF	4.54	250 Pn	00	25.04	0.4
LESF	4.64	253 Pn	00	26.23	0.2
TRI	4.69	74 ePn	00	25.00	-1.7
		e	00	36.00	
RMP	4.80	123 P	00	28.96	0.8
MLS	4.80	253 Pn	00	28.86	0.6
RDP	4.84	124 P	00	28.97	0.2
VOY	4.85	70 ePn	00	26.00	-3.1X
		e	00	28.30	
		eSn	01	25.00	
KBA	4.89	57 iPnc	00	30.30	0.6
		i	00	52.20	
		iSn	01	27.80	
AQU	4.94	115 P	00	31.89	1.6
BHG	4.98	49 iPc	00	32.20	1.5
RIY	5.07	79 i(P)	00	32.40	0.5
WLF	5.16	351 P	00	33.00	-0.2
LJU	5.29	71 e(Pn)	00	26.00	-9.2X
		e(Pg)	00	52.70	
		eSn	01	36.70	
		eSb	01	53.50	
		eSg	02	05.80	
SDI	5.54	119 P	00	39.06	0.3
TNS	5.71	7 ePnd	00	39.20	-1.9
		eSn	01	43.80	
		eSg	02	18.90	
GRF	5.77	26 e(Pn)	00	41.80	-0.1
		eSn	01	43.80	
ESEL	5.82	216 eP	00	42.93	0.3
		eS	01	50.30	
DOU	5.83	342 iPnc	00	43.00	0.3
		iSn	01	48.70	
WET	5.95	38 ePn	00	42.80	-1.6
EGRA	6.06	250 eP	00	41.99	-3.9X
		eS	01	49.50	
GEC2	6.12	43 e(Pn)	00	45.00	-1.9
	0.4s	20.30nm		5.3mb	
PTJ	6.23	75 iPnd	00	50.10	1.6
		iSn	02	05.50	
KHC	6.26	41 Pn	00	47.00	-1.8
		e	01	16.50	
		eSn	01	51.00	
		e	02	20.00	
ENN	6.27	352 iPd	00	49.00	0.0
	0.9s	21.60nm		5.0mb	
SNF	6.29	342 P	00	44.20	-5.0X
UCC	6.55	343 eP	01	10.00	17.2X
ELIZ	6.56	261 eP	00	52.44	-0.6
		eS	02	07.40	
MOX	6.73	24 ePn	00	57.00	1.5
		e	01	22.00	
		e	01	36.00	
		eSn	02	09.20	
		i	02	47.30	
HVAR	6.73	99 iPn	00	54.90	-0.6
		iSn	02	08.90	
VKA	7.23	56 iPnc	00	59.20	-3.2X
		iSn	02	21.40	
PRU	7.31	40 Pn	01	01.90	-1.6
		Sn	02	23.00	
		Sg	03	14.50	
ECRI	7.41	258 eP	01	05.48	0.4
		eS	02	25.80	
WTS	7.44	357 eP	01	04.00	-1.3
	1.0s	16.70nm		5.2mb	
ZST	7.67	58 ePb	01	26.20	17.7X
		e	02	25.50	
		i	03	48.10	
BRG	7.72	33 ePn	01	09.00	-0.3
		ePg	01	46.00	
		i	02	52.00	
		iSg	03	36.00	
CLL	7.74	27 (Pg)	01	49.00	39.4X
		eSn	02	44.00	
		iSg	03	43.90	
ETOR	7.86	245 eP	01	12.45	1.0
GUD	9.33	249 eP	01	31.08	-0.8
DLF	12.60	319 eP	02	15.00	-1.2
		e	04	35.00	
EKA	12.70	332 Pd	02	16.90	-0.5
	0.7s	13.80nm		5.3mb	
DCN	12.99	318 eP	02	20.00	-1.3
	S.D. = 0.9	on 104	of 114	obs.	

JAN 20, 1994 07h 00m 37.68s  
 34.359 N 118.730 W  
 DEPTH = 10.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.4 (GS).

FTC	0.53	345 P	00	47.64	-0.8
RY5	0.59	299 P	00	49.18	-0.4
ABL	0.64	321 eP	00	49.35	-1.2
PLEC	0.67	335 P	00	50.62	-0.4
LPC	0.82	280 P	00	52.91	-0.7
SNDC	0.86	24 P	00	53.81	-0.4
SSK	0.87	99 eP	00	53.80	-0.7
TMB	0.98	318 P	00	56.72	0.4
WJPM	1.07	11 P	00	57.32	-0.5
WOFM	1.17	1 P	00	59.25	-0.4
CRGC	1.20	317 P	00	59.70	-0.4
WBSM	1.27	22 P	01	01.06	-0.3
PEC	1.38	109 eP	01	00.82	-2.1
WASM	1.38	6 P	01	02.97	-0.1
BCH	1.39	307 eP	01	02.35	-0.7
WCHM	1.61	19 P	01	07.19	0.8
NMC	1.63	24 P	01	08.10	1.6
VPWM	1.75	25 P	01	10.52	2.2
RCWM	1.82	29 P	01	11.43	2.2
WLHM	1.82	11 P	01	09.22	-0.3
GSC	1.84	59 eP	01	09.73	0.1
PLM	1.85	122 eP	01	06.64	-3.1
PHAM	2.01	318 (P)	01	10.90	-1.1
PAPM	2.66	306 P	01	18.78	-2.5
MTUM	2.99	3 P	01	26.84	0.8
BVYM	3.24	318 P	01	27.39	-2.1
MMPM	3.25	356 ePg	01	35.97	6.0
TPNV	3.28	37 ePn	01	28.22	-2.0
MEMM	3.30	357 P	01	28.28	-2.1
MRCM	3.31	3 ePg	01	38.29	7.6
DIL	3.43	317 P	01	29.87	-2.2
HCOM	3.50	317 P	01	30.60	-2.5
BONR	3.61	5 ePg	01	43.12	8.2
		33 obs. associated			

JAN 20, 1994 07h 05m 43.08 $\pm$  0.21s  
 44.556 N  $\pm$  1.9km 7.309 E  $\pm$  2.4km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 4.3 (GEN), 3.6 (ROM). MD 3.8  
 (VIE).

PZZ	0.16	251 Pd	05	46.47	-0.3
BHB	0.29	354 Pc	05	49.20	0.1
STV	0.31	178 P	05	49.29	-0.3
ENR	0.34	166 Pc	05	49.64	-0.5
ROB	0.48	123 Pd	05	52.46	-0.4
		S	05	58.70	
RRL	0.52	314 P	05	53.32	-0.4
		S	05	59.83	
TOUF	0.54	185 Pg	05	53.99	-0.1
AUTN	0.57	171 Pg	05	54.42	-0.3
		Sg	06	02.26	
SAOF	0.60	163 Pg	05	54.64	-0.5
RSP	0.60	356 P	05	54.44	-0.8
		S	06	01.91	
AURF	0.67	179 Pg	05	56.11	-0.3
		Sg	06	05.67	
MVIF	0.67	190 Pg	05	56.35	-0.1
SBF	0.70	172 Pg	05	56.72	-0.2
FIN	0.73	118 Pd	05	56.79	-0.7
		S	06	06.08	
IMI	0.77	147 P	05	57.59	-0.5
		S	06	07.15	
REVf	0.82	177 Pg	05	58.97	0.0
		Sg	06	10.43	
CALN	0.86	201 Pg	06	00.05	0.3
		Sg	06	12.45	
PCP	0.88	90 Pd	05	59.80	-0.3
		S	06	11.31	
ORO	1.17	24 P	06	0	



SSB	2.09	291	Pn	06 19.71	1.0	NORTHERN ITALY (545)				CRGC	1.34	313	P	23 05.44	-0.7		
			Sg	06 50.45		ML 2.4 (GEN).				WASM	1.41	359	P	23 06.99	-0.3		
PGF	2.35	148	Pn	06 20.75	-1.7					BCH	1.54	304	eP	23 07.81	-1.4		
BDI	2.41	101	P	06 22.87	-0.4	PZZ	0.16	254	P	08 48.92	-0.1	NMC	1.60	19	P	23 09.60	-0.4
VDL	2.46	37	ePd	06 23.60	-0.4			S		08 50.70		WCHM	1.60	13	P	23 09.51	-0.6
MME	2.46	97	P	06 25.47	1.4	BHB	0.29	352	P	08 51.97	0.4	YEG	1.61	314	P	23 09.22	-1.0
PII	2.46	109	P	06 23.52	-0.3			S		08 56.52		PLM	1.69	125	eP	23 09.46	-2.0
LLS	2.60	26	ePd	06 27.50	1.5	STV	0.31	179	P	08 52.16	0.4	WLHM	1.83	5	P	23 13.18	-0.4
COLF	2.74	292	Pn	06 28.49	0.6			S		08 56.18		PTRM	1.91	314	P	23 13.81	-0.7
LOMF	2.82	353	Pn	06 29.57	0.5	ENR	0.33	167	P	08 52.33	0.0	PMGM	1.97	304	P	23 13.39	-2.0
BBS	2.91	3	Pn	06 29.69	-0.6			S		08 56.49		PMRM	2.02	317	P	23 19.59	3.5
OSS	2.92	42	ePd	06 31.00	0.5	ROB	0.47	123	P	08 55.11	0.1	PMCM	2.06	313	P	23 15.30	-1.3
PLDF	2.96	300	Pn	06 32.24	1.2			S		09 02.19		PHAM	2.15	315	ePn	23 16.23	-1.7
			Sg	07 20.16		RRL	0.53	314	P	08 55.96	-0.3	PKEM	2.16	324	eP	23 17.10	-1.0
LBL	2.97	285	Pn	06 32.43	1.3			S		09 03.38		PSTM	2.28	315	P	23 19.01	-0.8
			Sg	07 19.87		IMI	0.76	147	P	09 00.65	-0.2	PHBM	2.30	327	P	23 21.11	1.0
PGD	3.24	101	P	06 35.29	0.1			S		09 10.38		PADM	2.32	305	P	23 17.89	-2.6
PYM	3.27	293	Pn	06 36.34	0.9	PCP	0.88	90	P	09 02.71	-0.2	PSMM	2.43	316	P	23 20.70	-1.3
			Sg	07 28.18				S		09 15.44		PANM	2.43	307	P	23 19.55	-2.4
BSF	3.30	354	Pn	06 35.55	-0.3	S.D. = 0.3 on 8 of 8 obs.				PTV	2.53	315	P	23 21.67	-1.7		
MOF	3.30	358	Pn	06 35.34	-0.5	JAN 20, 1994 07h 09m 16.66± 0.44s				PHCM	2.54	303	P	23 21.77	-1.8		
AGO	3.31	298	Pn	06 36.91	1.0	44.560 N ± 3.1km 7.330 E ± 3.7km				BHPR	2.97	1	P	23 35.88	6.1		
			Sg	07 30.32		DEPTH = 5.0km (geophysicist)				MTUM	3.02	359	ePn	23 29.77	-0.7		
SLE	3.31	14	eP	06 35.70	-0.4	NORTHERN ITALY (545)				TPNV	3.21	35	ePn	23 31.87	-1.2		
SFI	3.33	99	P	06 36.84	0.7	ML 2.6 (GEN).				BPOM	3.26	307	P	23 30.69	-3.0		
FEL	3.36	8	eP	06 35.10	-1.6	PZZ	0.17	251	P	09 20.45	0.2	MMPM	3.30	353	ePn	23 35.03	0.4
CTI	3.41	63	P	06 37.43	0.0			S		09 22.25			ePn	23 39.90			
CRE	3.47	104	P	06 38.18	-0.1	BHB	0.29	350	P	09 23.05	0.6	MRCM	3.34	0	ePn	23 36.19	1.2
OGA	3.48	47	iPnd	06 40.90	2.3			S		09 27.23			eS	23 42.37			
ECH	3.66	358	Pn	06 39.78	-1.2	STV	0.32	181	P	09 23.84	0.8	GLA	3.34	111	ePn	23 35.40	0.5
VITF	3.78	346	Pn	06 42.60	0.0			S		09 27.08		BPRM	3.34	309	P	23 32.36	-2.6
SQTA	3.81	44	iPnd	06 43.80	0.6	ENR	0.34	169	P	09 23.84	0.3	MEMM	3.35	354	ePn	23 34.74	-0.2
			iSn	07 30.80				S		09 27.73			eS	24 24.07			
MTHF	3.82	247	Pn	06 43.68	0.4	ROB	0.47	124	P	09 26.36	0.3	SAO	3.40	316	ePn	23 33.26	-2.5
CDF	3.86	360	Pn	06 42.08	-1.7			S		09 33.28		BONR	3.62	3	ePn	23 40.16	1.0
WLS	3.86	0	Pn	06 42.08	-1.7	RRL	0.53	313	P	09 26.65	-0.7		ePg	23 46.84			
ETER	3.95	237	eP	06 45.42	0.4			S		09 34.22		JBZM	3.77	316	P	23 39.79	-1.2
			eS	07 29.80		TOUF	0.55	186	Pg	09 27.63	-0.1	ARN	3.88	322	eP	23 40.67	-1.9
WTTA	4.06	47	iPnd	06 47.90	1.2			Sg		09 34.20		COE	3.88	320	ePn	23 40.74	-1.9
			iSn	07 36.60		AUTN	0.57	173	Pg	09 28.01	-0.1	TNP	3.89	15	ePn	23 42.70	-0.2
WATA	4.07	45	i(Pn)	06 49.20	2.3	SAOF	0.60	164	Pg	09 28.79	0.2		ePg	23 53.14			
			iSn	07 37.50				Sg		09 36.31		CMB	3.99	338	ePn	23 42.86	-1.3
ASS	4.15	109	P	06 48.52	0.6	AURF	0.67	180	Pg	09 29.79	-0.3	HMR	4.64	326	(P)	23 53.24	-0.1
ARV	4.20	103	P	06 49.77	1.2			Sg		09 39.22		KVN	4.73	4	ePg	24 08.77	14.0
FVI	4.35	60	P	06 51.84	1.2	MVIF	0.68	191	Pg	09 29.87	-0.3	NTYM	5.25	322	(P)	24 02.15	0.2
MNS	4.47	117	P	06 52.13	-0.3			Sg		09 39.31		ARUT	5.38	49	ePn	24 02.92	-1.0
TRI	4.71	74	e(Pn)	06 56.30	0.4	FIN	0.72	119	P	09 30.62	-0.5		ePg	24 21.02			
			e	07 10.50				S		09 40.35		ORV	5.73	336	eP	24 07.17	-1.6
			e(Sn)	07 45.30		IMI	0.76	148	P	09 31.55	-0.5	MSU	6.61	49	ePn	24 20.92	-0.5
VOY	4.87	70	ePn	06 57.30	-1.0			S		09 42.15		DUG	7.42	36	ePg	24 59.05	26.4
			eSn	07 54.50		PCP	0.87	91	P	09 33.86	0.0	SRU	8.00	51	ePn	24 41.72	0.8
KBA	4.92	57	iPnd	06 59.00	0.1			S		09 45.03		PV09	8.64	58	ePn	24 49.65	-0.2
			iSn	07 56.70		S.D. = 0.5 on 14 of 14 obs.				PV10	8.65	59	ePn	24 50.90	0.9		
BHG	5.00	49	iPc	07 03.00	3.1X	? JAN 20, 1994 07h 17m 49.06± 0.90s				% JAN 20, 1994 07h 32m 18.04± 0.67s							
RUP	5.15	358	eP	07 02.20	0.1	44.537 N ± 7.1km 7.306 E ± 7.8km				44.557 N ± 5.5km 7.324 E ± 5.3km							
TOD	5.15	11	eP	06 46.10	-16.0X	DEPTH = 5.0km (geophysicist)				DEPTH = 5.0km (geophysicist)							
WLF	5.17	352	P	07 04.00	1.7	NORTHERN ITALY (545)				NORTHERN ITALY (545)							
ABH	5.33	2	eP	07 02.50	-2.1	ML 2.0 (GEN).				ML 2.2 (GEN).							
GRF	5.79	26	e(Pn)	07 24.00	13.0X	PZZ	0.15	258	P	17 52.07	-0.2	PZZ	0.17	252	P	32 21.44	-0.1
ESEL	5.80	216	eP	07 03.19	-8.0X			S		17 53.95			S	32 23.61			
			eS	08 06.70		BHB	0.31	354	P	17 55.37	0.1	BHB	0.29	351	P	32 23.97	0.1
DOU	5.84	343	iPc	07 11.60	-0.1			S		17 59.35			S	32 27.50			
			iS	08 12.00		ENR	0.32	165	P	17 55.87	0.3	ENR	0.34	168	P	32 25.03	0.2
PTJ	6.25	75	eP	07 19.00	1.3			S		17 59.99			S	32 29.24			
KHC	6.28	41	ePn	07 16.50	-1.5	ROB	0.47	121	P	17 58.25	-0.3	ROB	0.47	124	P	32 27.96	0.5
			e	07 40.50				S		18 05.39			S	32 33.95			
			eSn	08 22.50		S.D. = 0.5 on 4 of 4 obs.				FIN 0.72 118 P 32 32.35 -0.2							
ENN	6.29	352	eP	07 18.00	0.0	& JAN 20, 1994 07h 22m 40.47s				IMI 0.76 148 P 32 33.17 -0.2							
	0.8s	5.40nm				34.328 N 118.528 W				PCP 0.87 91 P 32 35.05 -0.3							
SNF	6.30	342	P	07 18.00	-0.2	DEPTH = 1.3km				S.D. = 0.3 on 7 of 7 obs.							
EROQ	6.31	236	eP	07 14.88	-3.5X	SOUTHERN CALIFORNIA (43)				& JAN 20, 1994 07h 40m 04.68s							
			eS	08 24.80		<PAS-P>. ML 3.8 (PAS), 3.9 (GS).				67.420 N 145.962 W							
MOX	6.75	24	ePg	08 05.40	40.8X	FTC	0.62	331	P	22 52.47	-0.4		S	32 32.35			
			e	08 36.50		SSK	0.70	99	iPc	22 53.76	-0.7		S	32 41.96			
			i	09 25.80		ABL	0.77	313	eP	22 55.22	-0.7		S	32 43.38			
PRU	7.33	40	Pg	07 37.10	4.4X	PLEC	0.78	325	P	22 55.97	0.0		S	32 43.38			
			eSn	08 13.90		ARVC	0.84	343	P	22 56.22	-0.9		S	32 43.38			
			Sg	08 46.30		WJPM	1.08	2	P	23 00.29	-1.4		S	32 43.38			
PAB	10.01	244	eP	08 08.50	-1.5	TMB	1.12	313	P	23 01.95	-0.4		S	32 43.38			
EKA	12.70	332	P	08 48.00	1.6	PEC	1.22	111	iPc	23 02.02	-1.9		S	32 43.38			
	1.4s	30.70nm				WBSM	1.25	15	P	23 03.45	-1.2		S	32 43.38			
S.D. = 1.0 on 77 of 84 obs.						% JAN 20, 1994 07h 08m 45.60± 0.53s				<AEIC>. ML 3.9 (AEIC), 3.7 (PMR).							
44.550 N ± 4.4km 7.319 E ± 4.9km						JAN 20, 1994 07h 08m 45.60± 0.53s				67.420 N 145.962 W							
DEPTH = 5.0km (geophysicist)						44.557 N ± 4.4km 7.319 E ± 4.9km				DEPTH = 13.7km							
						DEPTH = 5.0km (geophysicist)				3.7mb ( 1 obs.)							
						SOUTHERN CALIFORNIA (43)				NORTHERN ALASKA (676)</							



20d 07h

FYU 0.90 161 eP 40 21.94 0.3  
GLM 2.51 194 eP 40 45.54 -0.2  
eS 41 15.48  
FBA 2.64 197 eP 40 46.68 -0.9  
MDM 2.64 201 eP 40 46.95 -0.6  
eS 41 19.27  
IL1 2.69 188 eP 40 48.74 0.5  
eS 41 20.48  
ILB 2.69 188 eP 40 48.40 0.1  
eS 41 20.83  
CCB 2.89 196 eP 40 50.89 -0.1  
HDA 3.05 188 eP 40 53.72 0.3  
MLY 3.08 221 eP 40 52.90 -0.9  
WRH 3.09 197 eP 40 54.42 0.6  
NEA 3.13 205 eP 40 53.67 -0.8  
IMA 3.35 250 ePn 40 56.27 -1.5  
ePg 41 04.58

DJE 3.41 178 eP 40 58.95 0.5  
IM3 3.41 249 eP 40 56.96 -1.6  
BWN 3.57 205 eP 40 59.75 -1.0  
DDM 3.65 179 eP 41 01.96 0.0  
DOT 3.87 167 eP 41 05.05 0.0  
MCK 3.90 200 eP 41 04.89 -0.6  
TMW 4.30 162 eP 41 11.09 0.0  
TRF 4.37 206 eP 41 11.93 -0.4  
DHY 4.40 188 eP 41 13.26 0.5  
PAX 4.47 177 eP 41 13.69 0.0  
BC3 4.71 156 eP 41 15.93 -1.1  
INK 4.79 74 P 41 16.50 -1.5

0.5s 13.20nm  
TOA 5.34 181 P 41 26.20 0.3  
CUT 5.36 202 eP 41 25.72 -0.4  
BRW 5.45 321 (P) 41 22.72 -4.6  
SML 5.73 191 eP 41 31.23 -0.1  
KLU 5.95 180 eP 41 34.21 -0.3  
e 41 56.64

PMR 6.01 195 eP 41 34.64 -0.6  
PWA 6.03 198 eP 41 35.40 -0.1  
TTA 6.18 228 eP 41 34.75 -2.9  
PMS 6.39 196 eP 41 42.90 2.2  
BALM 6.60 165 eP 41 42.61 -1.1  
e 41 56.49

CRP 6.73 206 eP 41 42.92 -2.7  
CP2 6.75 207 eP 41 44.76 -1.2  
CTGM 6.79 161 eP 41 45.04 -1.3  
SLKM 7.19 197 (P) 41 49.44 -2.4  
SVW 7.59 218 eP 41 55.40 -2.1  
YKA 14.05 96 P 43 24.20 -0.9

0.5s 0.80nm 3.7mb  
41 obs. associated

JAN 20, 1994 07h 46m 22.27 ± 0.83s  
45.902 N ± 9.0km 15.211 E ± 6.2km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)  
MD 2.6 (LJU). ML 2.0 (VIE).

VBV 0.40 175 ePg 46 30.50 0.1  
iSg 46 37.80  
LJU 0.49 287 iPg 46 31.50 -0.8  
eSg 46 37.80  
PTJ 0.52 90 iPg 46 32.60 -0.3  
iSg 46 46.00  
CEY 0.57 254 ePg 46 34.50 0.6  
eSg 46 42.50  
VOY 0.93 278 iPg 46 39.40 -0.7  
i(Sg) 46 52.00  
KBA 1.75 313 iPg 46 54.00 1.1  
iSg 47 16.80

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

? JAN 20, 1994 07h 48m 14.91 ± 0.89s  
44.537 N ± 7.1km 7.284 E ± 7.9km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

PZZ 0.13 256 P 48 17.73 -0.1  
S 48 19.52  
BHB 0.31 357 P 48 21.12 0.0  
S 48 25.15  
ENR 0.32 162 P 48 21.58 0.1  
S 48 25.74  
ROB 0.48 120 P 48 24.55 -0.1  
S 48 31.28

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

? JAN 20, 1994 08h 03m 13.04 ± 1.47s  
34.104 N ± 18.5km 118.678 W ± 14.6km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.6 (GS).

ABL 0.87 329 eP 03 29.47 -0.4  
PEC 1.28 99 eP 03 36.27 -0.5  
BCH 1.58 313 eP 03 41.37 0.1  
PLM 1.69 116 eP 03 43.31 0.4  
MEMM 3.56 357 eP 04 16.31 6.9X  
BONR 3.86 4 (P) 04 14.43 0.5  
TNP 4.14 16 (P) 04 24.91 7.0X  
S.D. = 0.7 on 5 of 7 obs.

? JAN 20, 1994 08h 05m 49.64 ± 1.23s  
34.287 N ± 46.4km 118.480 W ± 30.0km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.6 (GS).

ABL 0.83 313 eP 06 05.68 -0.2  
PEC 1.16 109 eP 06 11.51 0.1  
BCH 1.60 305 eP 06 18.29 0.2  
PLM 1.64 124 eP 06 18.63 -0.1  
MEMM 3.39 354 (P) 06 50.61 7.0X  
BONR 3.66 2 (P) 06 56.75 8.9X  
S.D. = 0.3 on 4 of 6 obs.

? JAN 20, 1994 08h 06m 32.40 ± 1.12s  
39.102 N ± 10.9km 27.563 E ± 17.7km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

IZM 0.74 199 ePg 06 47.00 0.0  
eSg 06 58.50  
DST 0.97 58 ePn 06 51.20 0.4  
EDC 1.26 10 ePn 06 56.00 0.1  
IZI 1.92 49 ePn 07 05.00 -0.5  
S.D. = 0.7 on 4 of 4 obs.

JAN 20, 1994 08h 36m 07.09 ± 0.23s  
5.628 S ± 3.7km 130.882 E ± 6.2km  
DEPTH = 56.1km (2 depth phases)  
5.1mb (30 obs.)  
BANDA SEA (280)

AAI 3.30 306 ePd 37 01.90 4.4X  
MTN 7.18 178 eP 37 54.20 2.3  
0.3s 480.00nm 6.7mb X  
KNA 10.27 191 eP 38 32.80 -1.7  
0.2s 158.00nm 6.8mb X  
eS 40 21.50  
OKTD 10.37 89 eP 38 33.70 -2.1  
CTB 14.38 332 eP 39 36.00 6.8X  
WB2 14.62 167 eP 39 26.40 -6.0X  
0.4s 52.20nm 5.3mb

LAT 16.06 95 eP 39 52.40 1.6  
PMG 16.57 104 eP 39 58.00 0.8  
QIS 17.09 151 eP 40 03.00 -0.7  
i 40 06.20  
eS 42 59.00  
ASPA 18.17 171 iPd 40 14.40 -2.7  
0.8s 176.60nm 5.3mb  
eS 43 24.70

KKM 18.68 308 ePd 40 29.60 6.2X  
0.7s 61.20nm 4.9mb  
MBL 18.79 214 eP 40 25.00 0.3  
eS 43 45.00

WARB 20.84 191 iPc 40 47.80 1.3  
PGP 21.41 333 eP 40 55.00 2.7  
MEEK 23.95 208 eP 41 17.80 0.6  
FORT 25.16 186 eP 41 29.00 0.3  
0.6s 40.00nm 5.1mb

COOL 26.74 199 eP 41 43.20 -0.2  
0.6s 19.00nm 4.9mb  
MRWA 27.36 209 iPd 41 48.40 -0.6  
0.2s 12.00nm 5.2mb

STK 27.98 160 eP 41 54.20 -0.3  
0.5s 12.80nm 4.8mb  
iPp 42 21.20 126kmX  
ePcS 46 30.30  
eS 47 13.70

BAL 28.20 207 eP 41 56.20 -0.4  
0.5s 19.00nm 5.0mb

KLB 28.61 204 eP 42 00.50 0.3  
0.5s 30.00nm 5.2mb  
MUN 29.59 206 eP 42 09.20 0.1  
1.0s 40.00nm 5.1mb

NWAO 29.99 203 eP 42 12.60 0.0  
ADE 30.08 167 iPc 42 13.50 0.1  
ARMA 31.46 144 eP 42 24.80 -0.9  
0.8s 22.00nm 5.0mb

BWA 32.93 153 iPc 42 40.10 1.7  
CAN 33.94 153 iPc 42 47.80 0.6  
CNB 34.10 152 iPd 42 49.40 0.8  
TOO 34.47 159 iPd 42 53.40 1.7  
0.4s 34.00nm 5.6mb

SSE 37.67 346 Pc 43 19.50 0.8  
1.0s 22.00nm 5.0mb

NJ2 39.18 344 Pc 43 33.00 1.7  
1.0s 26.00nm 5.0mb

WHN 39.30 337 Pc 43 33.50 2  
TKSJ 39.51 4 P 43 34.60 .6  
GYA 39.60 325 iPc 43 35.60 .5  
0.8s 29.00nm 5.2mb

PcP 45 42.00  
CHTO 39.75 308 ePc 43 36.90 0.6  
1.0s 22.75nm 5.0mb

WKYJ 39.88 6 P 43 37.70 0.5  
YONJ 40.67 3 P 43 44.40 0.8  
KMI 41.03 319 Pd 43 48.50 1.6  
0.8s 20.00nm 4.9mb

MAT 42.51 9 eP 43 57.00 -1.6  
XAN 44.59 334 Pc 44 14.70 -0.9  
1.0s 32.00nm 5.1mb

CD2 44.64 326 iPc 44 15.20 -0.9  
OFUJ 45.59 12 eP 44 23.40 0.0  
TIY 46.42 340 eP 44 30.00 -0.1

z 14s 0.60um 4.7mszx  
BJI 47.42 345 P 44 37.50 -0.3  
1.0s 31.00nm 5.2mb

SNY 47.70 353 Pc 44 39.40 -0.6  
1.0s 33.00nm 5.3mb  
LZH 48.63 331 Pc 44 47.00 -0.5  
2.0s 63.00nm 5.3mb

HOQJ 49.10 12 eP 44 51.50 0.7  
CN2 49.44 355 Pc 44 52.80 -0.6  
0.8s 30.00nm 5.4mb

HHC 49.53 341 Pd 44 55.00 0.7  
1.0s 23.00nm 5.2mb  
BTO 49.83 339 eP 44 56.40 -0.3

KUSJ 50.09 13 eP 44 58.10 -0.3  
ASAJ 50.64 11 eP 45 02.10 -0.5  
GTA 53.21 330 Pc 45 22.10 0.0  
1.4s 26.00nm 5.1mb

sP 45 47.50  
PcP 46 29.50  
GBA 56.39 290 Pd 45 43.80 -1.6  
0.7s 5.00nm 4.7mb

HYB 56.52 295 eP 45 41.00 -5.4X  
NDI 61.86 307 iPc 46 21.00 -2.2  
1.2s 515.63nm 6.5mb X

WMQ 62.74 326 iPc 46 28.50 -0.3  
0.8s 35.00nm 5.5mb  
pP 46 44.20 58km  
sP 46 51.40

YAK 67.45 359 iPc 46 57.70 -1.0  
0.7s 124.00nm 6.0mb  
KSH 67.58 317 iPd 47 01.60 1.4  
0.6s 30.00nm 5.5mb

MAIO 78.51 309 iPc 48 04.90 0.6  
TTA 87.38 26 eP 48 49.73 0.5  
1.0s 13.85nm 5.1mb

pP 49 14.98 94kmX  
FBA 91.38 25 eP 49 05.82 -2.0  
0.8s 2.03nm 4.6mb

(pP) 49 31.89 97kmX  
VRI 103.87 316 ePd50 06.00 1.1  
MLR 104.46 315 ePd50 05.50 -2.2

GE2 111.93 321 PKP 54 37.00 -0.8  
0.9s 1.38nm  
MSU 114.47 50 ePKP 54 44.00 0.8  
pPKP 55 09.97

PV10 116.89 50 ePKP 54 48.11 0.3  
pPKPd 55 14.94  
RSSD 118.66 42 ePKP 54 49.78 -1.2  
pPKP 55 16.22

TUL 127.68 48 iPKPc 55 09.00 0.8  
FVM 130.58 43 (PKP) 55 13.37 -0.3



KIC 135.87 273 PKP 55 40.28  
0.9s 16.50nm  
MCWV 136.25 35 ePKP 55 22.71 -1.7  
LKO 136.70 278 PKP 55 25.33 -0.7  
0.7s 6.00nm  
NNA 147.34 122 iPKPc 55 48.50 3.9X  
0.7s 15.07nm  
e 56 14.20  
MOCB 148.76 149 PKP 55 48.20 0.9  
RSTA 149.90 180 ePKP 55 53.70 5.4X  
e 56 20.30  
LPB 151.06 140 PKP 55 57.80 7.0X  
LPAZ 151.22 139 PKP 55 52.00 0.7  
CCH 151.62 144 PKP 55 59.30 7.8X  
SIV 155.48 151 PKP 55 57.00 0.6  
S.D. = 1.2 on 71 of 80 obs.

\* JAN 20, 1994 08h 47m 50.89± 1.11s  
37.831 N ± 8.4km 20.603 E ± 9.3km  
DEPTH = 25.8 ± 4.5 km  
3.9mb ( 2 obs.)

IONIAN SEA (399)  
MD 3.7 (ATH). ML 3.4 (THE).

VLS 0.35 358 ePg 47 58.50 -0.2  
eSb 48 04.70  
IGT 1.71 353 iPb 48 22.06 2.6  
eSb 48 46.06  
AGG 1.80 48 ePb 48 20.38 -0.4  
eSb 48 42.10  
KEK 1.98 342 ePn 48 28.00 4.7X  
SRN 2.10 347 ePn 48 32.40 7.4X  
VLI 2.17 120 ePn 48 27.00 1.0  
LSK 2.32 360 ePn 48 30.00 1.9  
ATH 2.47 86 ePn 48 31.50 1.2  
TPE 2.50 350 ePn 48 38.00 7.2X  
KZN 2.63 20 ePn 48 34.00 1.3  
LIT 2.70 32 ePn 48 33.98 0.4  
VLO 2.77 342 ePn 48 48.00 13.5X  
FNA 3.01 11 ePn 48 39.22 1.2  
eSn 49 15.46  
PAIG 3.19 48 ePn 48 39.82 -0.6  
OHR 3.28 3 ePn 48 44.80 3.0X  
THE 3.35 33 ePn 48 43.06 0.4  
GRG 3.42 23 ePn 48 43.90 0.1  
TIR 3.56 351 ePn 48 43.00 -2.7  
OUR 3.63 45 iPn 48 46.78 0.1  
SOH 3.67 35 ePn 48 47.54 0.2  
eSn 49 29.42  
KNT 3.77 27 ePn 48 49.10 0.4  
eSn 49 32.62  
VAM 3.77 129 ePn 48 48.50 -0.2  
VAY 3.80 23 ePn 48 49.40 0.3  
SRS 4.02 34 iPn 48 51.66 -0.6  
eSn 49 38.22  
SKO 4.19 9 ePn 48 55.20 0.6  
HVAR 6.21 331 ePn 49 23.10 -0.1  
iSn 50 33.40  
GEC2 12.09 338 Pn 50 44.00 -0.5  
0.4s 0.39nm 4.0mb  
e 50 47.50  
HFS 22.75 351 eP 52 52.30 0.3  
0.4s 1.40nm 3.9mb  
S.D. = 1.1 on 23 of 28 obs.

\* JAN 20, 1994 08h 52m 03.49± 0.75s  
44.384 N ± 6.2km 7.308 E ± 8.3km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

STV 0.14 175 P 52 06.54 0.1  
S 52 08.37  
ENR 0.18 153 P 52 06.95 -0.2  
S 52 09.29  
PZZ 0.19 309 P 52 07.59 0.1  
S 52 10.52  
ROB 0.41 102 P 52 11.99 0.2  
S 52 17.43  
BHB 0.46 356 P 52 12.53 -0.2  
S 52 18.67  
S.D. = 0.3 on 5 of 5 obs.

\* JAN 20, 1994 08h 58m 07.70s  
34.305 N 118.508 W  
DEPTH = 1.5km

SOUTHERN CALIFORNIA ( 43)  
<PAS>P. ML 3.3 (PAS), 3.6 (GS).

FTC 0.65 331 P 58 20.22 -0.4  
SSK 0.68 98 ePc 58 20.69 -0.6  
ABL 0.80 313 iPd 58 22.88 -0.8  
PLEC 0.81 325 P 58 23.70 -0.1  
BMTc 0.83 355 P 58 23.09 -1.2  
ARVC 0.86 342 P 58 23.85 -1.1  
TEJ 0.93 351 P 58 23.73 -2.6  
MARC 0.98 316 P 58 26.29 -0.8  
LPC 1.01 281 P 58 26.81 -1.0  
WJPM 1.10 1 P 58 27.92 -1.4  
PEC 1.19 110 iPc 58 29.08 -1.7  
WOFM 1.24 352 P 58 30.77 -0.8  
CRGC 1.37 313 P 58 33.40 -0.4  
WORM 1.41 9 P 58 34.88 0.5  
WASM 1.43 358 P 58 34.93 0.1  
SCCM 1.51 295 P 58 35.09 -0.9  
BCH 1.57 305 eP 58 35.85 -0.9  
PLM 1.67 124 ePd 58 36.44 -1.8  
GSC 1.72 54 eP 58 37.92 -1.0  
VPEM 1.74 19 P 58 38.97 -0.3  
WLHM 1.85 5 P 58 43.12 2.0  
PHAM 2.18 315 eP 58 43.98 -1.5  
PHBM 2.33 327 P 58 47.90 0.2  
BHPR 2.99 0 P 59 03.05 5.7  
BMSM 3.00 322 P 58 56.25 -1.0  
MTUM 3.04 359 eP 58 57.84 -0.2  
TPNV 3.22 34 eP 58 59.22 -1.2  
GLA 3.31 111 eP 59 02.81 1.1  
MMPM 3.32 353 (P) 59 03.31 1.1  
MRMC 3.36 0 (P) 59 03.97 1.4  
BPRM 3.37 309 P 59 00.37 -2.1  
MEMM 3.37 354 eP 59 04.15 1.6  
SAO 3.43 317 eP 59 01.09 -2.3  
BONR 3.65 3 eP 59 08.69 2.0  
ARN 3.91 322 eP 59 07.39 -2.8  
COE 3.91 320 eP 59 09.20 -1.0  
TNP 3.91 15 eP 59 10.14 -0.3  
CMB 4.02 338 eP 59 10.01 -1.7  
ARUT 5.38 48 eP 59 31.23 0.0  
ORV 5.76 336 eP 59 33.46 -2.9  
MSU 6.61 49 (P) 59 52.18 3.5  
DUG 7.43 36 (P) 59 57.41 -2.5  
SRU 8.01 51 eP 00 09.12 1.0  
PV08 9.01 59 (P) 00 28.76 6.5

44 obs. associated

JAN 20, 1994 09h 06m 52.77± 0.12s  
6.002 S ± 2.3km 77.052 W ± 2.5km  
DEPTH = 122.5km (geophysicist)  
5.8mb ( 90 obs.)

NORTHERN PERU (111)  
Mw 5.8 (GS), 5.7 (HRV). MD 6.0  
(QUI). mb 5.9 (BRK). Felt (IV)  
at Tarapoto and (III) at  
Moyobamba and Chachapoyas. Depth  
from broadband displacement  
seismograms.

FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=336 Dip=51 Slip= -90  
NP2: 156 39 -90

Principal Axes:  
T Plg= 6 Azm= 66  
P 84 246

Comment: The focal mechanism is  
poorly controlled and  
corresponds to normal  
faulting. The preferred fault  
plane is not determined.

RADIATED ENERGY  
No. of sta: 5 Focal mech. F  
Energy 2.8±1.0\*10\*\*12 Nm  
MOMENT TENSOR SOLUTION  
Dep 126 No. of sta: 10  
Moment Tensor; Scale 10\*\*17 Nm  
Mrr=-5.11 Mtt= 0.13  
Mff= 4.99 Mrt=-1.32  
Mrf= 1.47 Mtf=-0.36

Principal axes:  
T Val= 5.25 Plg= 9 Azm=264  
N 0.34 11 172  
P -5.60 76 30

Best Double Couple:Mo=5.4\*10\*\*17  
NP1:Strike= 7 Dip=38 Slip= -71  
NP2: 164 55 -104

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN  
L.P.B.: 46S, 88C

Centroid Location:

Origin Time 09:06:56.8 0.2

Lat 6.05S 0.02 Lon 76.92W 0.02

Dep 126.1 0.8 Half-duration 1.8

Moment Tensor; Scale 10\*\*17 Nm

Mrr=-3.78 0.06 Mtt=-0.49 0.09

Mff= 4.26 0.10 Mrt=-0.82 0.06

Mrf= 1.48 0.07 Mtf=-1.53 0.09

Principal Axes:

T Val= 5.02 Plg=11 Azm=253

N -0.90 6 162

P -4.13 78 42

Best Double Couple:Mo=4.6\*10\*\*17

NP1:Strike=351 Dip=35 Slip= -79

NP2: 158 56 -97

VC1 5.50 346 P 08 15.38 1.3  
NNA 5.95 178 iPc 08 18.50 -1.4  
0.3s 253.25nm 5.9mb

GGP 5.99 345 P 08 22.65 1.6  
PT10 6.03 179 iPc 09 20.00 59.0X  
eS 10 22.00

COTA 6.42 348 P 08 28.39 1.5

JAMA 6.97 333 P 08 26.08 -7.8X

PSO 7.15 358 eP 08 36.00 -0.6

PT06 7.81 175 iP 09 41.90 56.7X

PT03 8.03 171 iP 09 44.80 56.6X

eS 11 06.00

PURC 8.30 5 eP 08 52.42 0.2

SILC 8.66 5 ePc 08 56.92 -0.1

DIAC 9.27 5 ePc 09 05.91 0.9

HOQC 9.42 3 eP 09 06.11 -1.0

ANCC 9.46 1 eP 09 06.57 -0.8

AZUC 9.67 5 eP 09 10.13 -0.6

CLMC 9.83 3 eP 09 10.78 -1.7

HOBC 10.33 5 eP 09 18.49 -0.6

BOG 10.97 16 iPd 09 30.00 2.3

iS 10 42.00

ARE 11.74 153 eP 09 38.00 0.2

LPAZ 13.45 140 Pc 09 56.40 -4.1X

1.2s 2.40nm 3.5mb X

Z 34s 2.78um 4.4MszX

S 12 15.30

LR 13 57.20

PcP 15 19.80

ScS 22 25.50

BMG 13.58 17 iPc 10 04.00 2.3

LPB 13.65 141 P 09 58.90 -4.1X

i 10 04.00

i 12 42.00

UPA 15.09 351 iPd 10 21.72 0.9

eS 10 51.33

DVD 15.32 339 iPd 10 25.46 1.8

eS 10 57.30

ECO 15.49 350 iPd 10 26.26 0.4

iS 10 59.86

CCH 15.55 138 P 10 26.80 -0.2

BRU 15.70 339 iPc 10 30.03 1.1

eS 11 06.50

SDV 16.11 23 ePc 10 32.40 -1.4

TOV 17.27 25 ePc 10 46.60 -1.4

iPP 10 50.30

SIV 18.55 124 P 10 58.80 -4.1X

CANV 18.80 26 iP 11 05.80 0.2

MORO 18.88 27 iP 11 05.90 -0.6

OLLA 18.91 33 iP 11 07.10 0.3

CAR 19.25 32 iPc 11 11.20 0.8

LLAV 19.29 32 iP 11 10.70 -0.1

TCE 22.52 43 eP 11 44.50 1.4

TRN 22.72 43 eP 11 46.01 1.0

TBH 22.84 44 eP 11 48.81 2.6

BOT 23.56 44 eP 11 54.77 1.6

GRW 23.66 40 eP 11 52.66 -1.6

SVB 24.76 39 eP 12 02.93 -1.7

RTRS 25.08 164 eP 12 09.00 1.5

SLB 25.31 39 eP 12 07.00 -2.8

SLW 25.52 39 eP 12 09.49 -2.3

TPX 25.67 324 iP 12 13.50 0.5

BIM 25.82 38 eP 12 12.10 -2.4

FDF 25.94 37 eP 12 13.19 -2.4

MVM 25.96 38 eP 12 12.94 -2.8

CLLP 26.07 23 iP 12 16.50 -0.1

RTPR 26.13 159 iPd 12 17.00 -0.1



20d 09h

LRS	26.16	22	iP	12	17.30	-0.2	ACO	47.24	336	iPc	15	15.90	0.5	MEMM	58.37	322	iPd	16	38.18	0.7
SJG	26.27	24	iP	12	18.30	-0.2	LSCT	47.58	4	ePd	15	18.12	0.3	MMPM	58.39	321	iPd	16	38.21	0.1
CPD	26.30	25	iP	12	18.00	-0.8		0.9s	150.70nm			5.8mb					pP	17	06.87	119kmX
RTLL	26.45	163	iPd	12	20.00	-0.1	YSNY	48.26	359	iPd	15	22.50	-0.6	KVN	58.74	323	ePd	16	40.20	-0.2
RTCB	26.51	164	iPd	12	21.00	0.3		0.9s	344.59nm			6.2mb		SAO	59.42	319	ePd	16	44.24	-0.5
PAG	26.66	35	eP	12	21.29	-0.9			epPc	15	50.31	119kmX			0.9s	35.36nm			5.4mb	
MGG	26.78	35	eP	12	21.43	-1.7			(sP)	16	04.05		CMB	59.50	321	iPd	16	44.89	-0.5	
SKI	27.16	31	eP	12	26.00	-0.6	DLA	48.80	356	P	15	25.70	-1.5		1.2s	100.00nm			5.7mb	
DEG	27.24	35	eP	12	25.11	-2.3	TYNO	48.93	357	P	15	26.94	-1.3				ipPc	17	13.86	120kmX
PEL	27.65	168	eP	12	31.00	0.0	LDN	48.95	356	P	15	27.00	-1.4				esPc	17	26.94	
BDFB	30.05	111	(P)	12	51.59	-1.1	STCO	49.02	358	P	15	27.77	-1.1				iS	24	52.31	
	0.8s	46.98nm					ELF	49.12	356	P	15	28.00	-1.6				iScS	26	53.31	
RSTA	32.65	128	eP	13	12.70	-2.5	ALQ	49.26	328	ePd	15	31.78	0.6				iSS	29	01.31	
		e		13	39.10	119kmX		0.9s	327.40nm			6.2mb				eLQ	31	49.31		
PPM	32.75	320	iPc	13	19.30	2.6			e	16	00.75	124kmX	ARN	59.82	320	iPd	16	47.97	0.4	
CACB	33.21	121	iPd	13	18.30	-2.0			e	16	13.39		COE	59.85	320	ePc	16	48.34	0.6	
		e		13	42.80	109kmX	ANMO	49.26	328	iPd	15	31.74	0.6	MHC	59.88	320	iPd	16	48.44	0.3
		e		14	53.70				epPc	15	59.72	120kmX		1.2s	230.00nm			6.1mb		
		eS		18	27.10				esPc	16	13.79				ePP	17	16.84			
LPA	33.75	151	eP-	13	28.00	3.5X	ACTO	49.45	357	P	15	30.68	-1.6			isP	17	29.39		
		epP		13	55.00	122kmX	WLVO	49.71	359	P	15	33.05	-1.1			iS	24	59.19		
		eS		18	40.00		TUC	49.82	322	iPd	15	36.88	1.5	STAN	60.26	319	iPd	16	50.99	0.5
VAO2	34.01	123	eP	13	25.20	-1.9		0.8s	130.08nm			5.9mb			1.3s	440.00nm			6.3mb	
CDCB	34.43	117	iPd	13	29.00	-1.7			pP	16	04.38	117kmX				iS	25	04.85		
		e		13	52.80	104kmX			e	16	19.43		HMR	60.46	320	ePd	16	52.90	1.1	
		eS		18	45.60		LBNH	50.22	5	ePd	15	38.41	0.3	LRM	60.48	332	iPd	16	51.80	-0.4
		e		19	31.40			1.0s	248.46nm			6.1mb	BKS	60.58	320	iPd	16	52.91	0.2	
PARB	34.82	123	iPd	13	32.30	-1.7	RSNY	50.37	2	ePd	15	38.52	-0.7		1.2s	230.00nm			6.1mb	
		e		13	59.30	122kmX		1.1s	204.21nm			5.9mb			epP	17	20.41	112kmX		
HBF	38.85	356	iPd	14	08.12	0.6	GAC	51.49	1	ePd	15	47.00	-0.6			isP	17	34.26		
SGS	39.12	355	iPc	14	10.22	0.5			pP	16	29.00	187kmX			iS	25	04.37			
		pP		14	38.31	124kmX	GLD	52.42	333	ePd	15	55.04	0.0			eLQ	32	25.37		
GOGA	39.67	352	ePd	14	13.99	-0.3		1.6s	319.24nm			6.0mb	BUT	60.68	332	ePd	16	53.20	-0.2	
	1.0s	148.15nm				5.7mb	GOL	52.45	333	iPd	15	54.90	-0.4	ORV	61.12	322	ePd	16	56.59	0.3
		epPc		14	40.81	118kmX		0.8s	64.29nm			5.6mb		1.2s	520.00nm			6.4mb		
		isPc		14	54.55		LMN	52.77	11	ePd	15	56.50	-0.7			epP	17	25.84	120kmX	
PRM	40.18	353	iPd	14	18.49	0.0			pP	16	36.50	176kmX			esP	17	39.54			
		pP		14	45.06	116kmX	GLA	52.85	320	iPd	15	58.48	0.4	NTYM	61.15	320	iPd	16	56.65	0.1
JSC	40.26	355	iPd	14	19.25	0.1			pP	16	27.49	123kmX			pP	17	25.48	118kmX		
LHS	40.42	355	iPd	14	20.34	-0.1	PV08	53.16	329	iPd	16	00.42	-0.2	MIN	61.66	322	iPd	16	59.00	-1.1
MZX	40.82	316	(P)	14	22.50	-1.4	PV10	53.21	329	iPd	16	00.07	-0.8		1.6s	180.00nm			5.8mb	
MYNC	41.40	351	(P)	14	25.56	-3.0	PV09	53.36	329	iPd	16	01.84	-0.1			epP	17	29.85	127kmX	
	0.9s	106.51nm				5.6mb	PFO	54.26	319	iPd	16	08.94	0.4			esP	17	41.30		
		(pP)		14	51.88	114kmX	PLM	54.36	319	iPd	16	09.91	0.5	LMEM	61.76	323	eP	17	00.51	-0.3
CEH	41.71	358	ePd	14	30.67	-0.4			pP	16	38.92	122kmX	LBFM	62.44	323	ePd	17	05.01	-0.4	
	0.9s	147.34nm				5.7mb	SRU	54.53	328	iPd	16	10.17	-0.4			pP	17	34.51	121kmX	
		esPc		15	12.71		PEC	54.89	319	ePd	16	13.04	0.0			e	17	38.32		
OXF	41.95	345	eP	14	31.59	-1.4		1.4s	261.30nm			6.0mb			e	17	48.98			
	0.8s	1337.35nm				6.7mb	MSU	54.99	327	iPd	16	13.94	0.1	LGPM	62.74	322	ePd	17	05.78	-1.5
BLA	43.10	356	eP	14	42.45	0.0			e	17	14.12	275kmX	MBO	62.95	71	iPd	17	08.90	0.1	
	0.9s	92.82nm				5.5mb	ARUT	55.18	325	eP	16	15.90	0.7	YBH	63.16	323	iPd	17	08.56	-1.4
NAV	43.23	356	iPd	14	43.34	-0.1			e	17	04.90	219kmX		1.1s	130.00nm			5.8mb		
		pP		15	11.55	124kmX	EMUT	55.21	329	ePd	16	15.31	-0.1			epP	17	37.16	117kmX	
MIAR	43.24	340	ePd	14	43.09	-0.4			e	16	57.91	187kmX			esP	17	52.31			
	1.1s	140.87nm				5.6mb	SSK	55.44	319	ePd	16	17.39	0.3			iS	25	34.52		
		epP		15	09.91	117kmX	RSSD	55.51	337	ePd	16	17.23	-0.3			isS	26	10.52		
		esPc		15	24.81			1.1s	230.37nm			6.1mb			iScS	26	54.52			
LTX	43.46	325	iPd	14	45.61	0.1			pP	16	46.58	123kmX			i	27	45.52			
CVL	43.78	358	iPd	14	48.03	0.3	GSC	55.55	321	iPd	16	18.30	0.5			eSS	29	34.52		
		pP		15	16.21	123kmX			pP	16	47.63	123kmX			eLQ	33	23.52			
LST	43.94	345	iPd	14	48.11	-1.0	DAU	55.88	329	iPd	16	20.33	0.0	KMPM	63.25	321	iPd	17	11.05	0.5
		pP		15	15.98	122kmX			pP	16	49.53	122kmX			pP	17	40.83	122kmX		
CBN	43.98	360	iPd	14	50.30	0.9	TPNV	56.27	322	eP	16	23.34	0.3	LNOR	63.37	329	P	17	10.24	-0.9
	1.0s	190.00nm				5.8mb		0.8s	70.24nm			5.7mb	FHC	63.39	322	iPd	17	12.13	0.7	
		e		15	31.00	187kmX	DUG	56.53	328	iPd	16	25.00	0.2		0.9s	229.92nm			6.1mb	
ELC	44.54	346	iPc	14	51.88	-2.0		0.8s	154.95nm			6.0mb			pP	17	41.90	122kmX		
		pP		15	19.99	123kmX			epPc	16	53.81	120kmX	ARC	63.49	322	iPd	17	12.51	0.6	
TUL	45.25	338	iPc	15	00.00	0.4			esP	17	07.21			1.2s	390.00nm			6.2mb		
FNO	45.29	336	iPc	14	59.90	0.0	BW06	56.82	332	iPd	16	25.80	-1.1			epP	17	41.61	119kmX	
MEO	45.37	335	iPc	15	01.00	0.4		1.1s	107.79nm			5.7mb			isP	17	54.66			
WMOK	45.41	335	iPd	15	01.17	0.2	ABL	56.83	319	iPd	16	27.11	0.0			eS	25	39.42		
	1.2s	331.40nm				6.0mb	ISA	56.84	320	iPd	16	27.09	0.2	VIPM	63.70	327	P	17	13.65	0.1
		epPc		15	28.65	119kmX	TNP	57.59	323	iPd	16	32.51	0.2	JBO	63.90	328	P	17	14.46	-0.2
		esPc		15	42.39			0.8s	62.36nm			5.6mb	FFC	63.98	344	ePd	17	13.94	-1.1	
FVM	45.50	345	ePd	15	00.07	-1.4			pP	17	01.91	122kmX		1.2s	192.70nm			5.9mb		
	1.0s	377.25nm				6.1mb	BCH	57.59	319	eP	16	32.35	0.1			epPc	17	43.07	119kmX	
		e		15	26.49	114kmX	HVU	57.66	329	iPd	16	31.99	-0.7			(sP)	17	57.14		
MCWV	45.50	357	(P)	15	01.01	-0.5	MTUM	57.94	321	ePd	16	34.85	0.0	CROR	64.21	327	P	17	17.23	0.5
	1.0s	100.62nm				5.5mb			pP	17	04.36	123kmX	DBO	64.32	324	P	17	17.04	-0.4	
		esPc		15	42.39		BONR	58.16	322	iPd	16	36.72	0.2	VGB	64.44	327	iPd	17	18.48	0.3
OCO	45.55	337	iPc	15	02.20	0.2	PHAM	58.19	319	eP	16	36.48	0.2			pP	17	48.07	121kmX	
CCM	45.78	344	ePd	15	02.59	-1.1	ELK	58.23	326	iPd	16	36.52	-0.3	</						



VBEM	64.58	327 P	17 19.59	0.3	EALH	82.42	51 iPd	19 03.65	0.9	STV	90.12	46 P	19 40.58	0.2
WAH2	64.62	329 P	17 18.71	-0.5	ETOR	82.66	48 iPc	19 05.59	1.5	WLF	90.14	40 iPd	19 40.70	0.5
DPW	64.70	331 eP	17 19.71	-0.1	ECRI	82.78	46 P	19 05.55	0.9		1.1s	74.00nm		5.7mb
		pP	17 50.18	125kmX	DCN	82.93	35 iPd	19 05.40	0.4			ic	20 14.96	133kmX
		e	18 04.16		ECHE	83.17	49 P	19 08.23	1.6	SBF	90.15	46 P	19 40.27	-0.2
SSOR	64.94	326 P	17 20.71	-0.8	AKU	83.23	21 iPc	19 08.30	2.0	AUTN	90.16	46 P	19 40.72	-0.1
RNO	65.08	325 P	17 22.62	0.3		0.9s	60.50nm		5.5mb	BHB	90.17	45 P	19 40.17	-0.3
SAW	65.17	330 P	17 22.89	0.1	DLF	83.34	35 iPd	19 07.20	0.1	ENN	90.17	39 iPd	19 40.60	0.3
EBG	65.24	329 P	17 23.72	0.5		0.9s	115.00nm		5.8mb		0.9s	90.30nm		5.9mb
ASR	65.28	328 P	17 23.94	0.3	ACU	83.35	50 P	19 08.50	0.9	LSD	90.18	44 P	19 41.41	0.6
WTV	65.45	330 P	17 24.68	0.1	BALM	83.59	334 iPd	19 08.84	0.4	RSP	90.21	45 P	19 41.50	0.7
SHW	65.65	327 ePc	17 26.37	0.3			pP	19 40.34	123kmX	LOMF	90.23	43 P	19 40.62	-0.2
LON	65.78	328 iPd	17 26.24	-0.5			sP	19 53.92		SAOF	90.25	46 P	19 40.72	-0.2
FMW	65.83	328 P	17 26.96	-0.3	ELIZ	83.62	45 P	19 09.81	1.0	BSF	90.28	42 P	19 40.40	-0.7
KMOR	65.99	326 P	17 28.24	0.1	ELYF	84.00	46 P	19 11.14	0.4	TTA	90.30	333 iPd	19 40.16	-0.6
RMW	66.23	329 ePd	17 28.79	-0.9	NVL	84.01	161 iPd	19 11.00	0.8		1.4s	50.66nm		5.4mb
BMW	66.37	327 iPd	17 30.61	0.1		1.4s	181.00nm		5.8mb			e	23 17.70	
		pP	17 59.33	116kmX			e	21 37.00	711kmX	DIX	90.45	44 ePd	19 42.60	0.5
		sP	18 14.33				e	29 26.00		IMI	90.48	46 P	19 41.45	-0.6
JCW	66.77	329 P	17 32.17	-0.9	ISSF	84.11	46 P	19 12.53	1.1	MOF	90.51	42 P	19 41.60	-0.5
GMW	66.80	328 iPd	17 32.72	-0.5	MADF	84.12	46 P	19 11.88	0.5	ROB	90.52	46 P	19 41.73	-0.5
		pP	18 03.08	123kmX	ATE	84.19	46 P	19 12.29	0.6	ECH	90.58	42 P	19 42.37	0.0
		sP	18 16.47		LHE	84.21	46 P	19 12.85	1.0	CDF	90.69	42 P	19 42.70	-0.2
KDS	67.02	74 iP	17 34.50	-0.6	EGRA	84.26	47 iPd	19 15.36	3.4X	BBS	90.71	42 P	19 42.84	-0.1
MCW	67.55	329 iPd	17 37.93	0.0	ESCF	84.28	46 P	19 12.85	0.7	WLS	90.74	42 P	19 42.81	-0.3
STW	67.64	328 P	17 39.09	0.6	OGE	84.37	46 P	19 13.33	0.8	FIN	90.75	46 P	19 43.03	-0.2
RUV	69.50	256 iPd	17 50.90	0.5	JAU	84.41	46 P	19 14.22	1.2	ORX	90.78	44 P	19 42.78	-0.6
	1.1s	97.20nm		5.5mb	EROQ	84.48	48 P	19 14.72	1.6	MMK	90.82	44 iPd	19 44.40	0.6
TPT	69.73	256 iPd	17 52.40	0.6	ENSF	84.87	46 P	19 15.96	0.8	LIBD	90.86	42 P	19 43.69	0.1
	1.1s	97.20nm		5.5mb	KLU	85.36	333 iPd	19 17.20	0.0	WTS	90.91	38 iPd	19 44.20	0.5
VAH	69.74	256 iPd	17 52.40	0.5			pP	19 48.89	123kmX		1.0s	156.40nm		6.1mb
	1.2s	76.20nm		5.4mb			sP	20 02.06		WIT	90.95	37 eP	19 45.00	1.2
FRB	69.85	4 ePd	17 50.60	-1.1			e	22 38.62		PCP	91.03	45 P	19 44.01	-0.5
	1.0s	129.00nm		5.7mb	SALF	85.47	46 P	19 19.23	1.1	FEL	91.10	42 P	19 44.68	-0.2
PMO	70.00	256 iPd	17 54.10	0.6	LESF	85.59	46 P	19 18.73	0.0	LANF	91.11	41 P	19 45.11	0.4
TVO	71.26	253 iPd	18 01.60	0.4	MBC	85.69	351 iPd	19 20.30	1.8	SDN	91.17	325 ePd	19 45.11	0.3
	1.2s	410.30nm		6.1mb		1.0s	177.00nm		5.9mb		0.8s	171.39nm		6.3mb
PPN	71.44	254 iPd	18 02.60	0.5	TOA	85.70	334 eP	19 19.40	0.5			pP	20 16.98	122kmX
	0.9s	30.50nm		5.1mb	ESK	85.82	33 ePd	19 19.73	0.3			e	20 30.24	
PPT	71.57	254 iPd	18 03.30	0.3	EKA	85.85	33 Pd	19 19.55	-0.1			e	20 38.13	
	0.8s	85.70nm		5.6mb	EDI	86.00	33 iPc	19 21.00	0.7	HOFF	91.21	41 P	19 45.88	0.7
Z	30s	1750.00um		8.1MsZx		1.8s	750.00nm		6.3mb	ZLA	91.30	43 iPd	19 45.80	0.1
PAE	71.58	253 iPd	18 03.40	0.4	PMR	86.84	333 iPd	19 24.04	-0.3	SLE	91.41	42 iPd	19 46.20	0.0
	0.9s	47.80nm		5.3mb		1.1s	90.46nm		5.7mb	TMA	91.46	44 iPd	19 46.40	-0.2
AFR	71.77	254 iPd	18 04.60	0.5	SLKM	87.01	332 eP	19 24.89	-0.3	WIN	91.54	113 iPd	19 48.00	0.5
	0.9s	98.60nm		5.6mb	KDC	87.34	329 iPd	19 26.53	-0.2		1.5s	60.00nm		5.6mb
LKO	72.86	78 Pd	18 10.05	-0.6		1.3s	58.18nm		5.4mb	LLS	91.64	43 ePd	19 47.80	0.3
	1.1s	177.00nm		5.8mb	COL	87.36	336 ePd	19 26.75	-0.1	TNS	91.69	40 iPd	19 47.70	0.3
LIC	72.90	82 Pd	18 10.48	-0.4		1.4s	253.40nm		6.0mb	CER	92.01	124 eP	19 33.50	-15.8X
	1.1s	142.00nm		5.7mb	FBA	87.36	336 ePd	19 26.46	-0.4	BRW	92.35	341 iPc	19 49.70	-0.3
TIC	72.97	81 Pd	18 10.94	-0.4		1.6s	254.86nm		6.0mb	OSS	92.40	43 ePd	19 51.10	0.2
	1.1s	276.00nm		5.9mb			e	22 50.61		MUD	92.87	34 iPc	19 54.00	1.4
KIC	73.21	82 iPd	18 13.38	0.7	COLF	87.79	44 P	19 29.14	-0.2		1.0s	110.00nm		6.1mb
	0.9s	178.50nm		5.8mb	CRP	88.13	332 iPd	19 30.27	-0.5	OGA	93.02	43 iPc	19 54.50	0.7
		eS	28 16.00				pP	20 02.35	124kmX	MOTA	93.12	43 iPd	19 54.00	-0.2
YKA	74.09	343 P	18 16.10	-0.7	CP2	88.17	332 iPd	19 30.78	-0.2	SQTA	93.18	43 iPd	19 54.60	0.2
	0.7s	85.00nm		5.6mb			e	20 15.83	180kmX		1.5s	96.20nm		5.9mb
GDH	76.82	8 iPd	18 31.00	-1.1			e	20 16.36		FUR	93.31	42 iPc	19 55.80	0.9
	1.0s	80.00nm		5.5mb	SSB	88.33	44 P	19 31.60	-0.3			i	19 56.60	3kmX
		i	18 52.00	79kmX	DAG	88.89	11 iPc	19 34.20	0.3			i	20 43.70	
MOE	77.35	49 eP	18 30.00	-5.7X		0.7s	219.18nm		6.3mb	GRF	93.41	41 eP	19 56.00	0.7
PTO	78.00	46 ePKP	18 39.20	0.0			iPp	20 18.80	178kmX		1.4s	59.00nm		5.7mb
EVAL	78.28	50 P	18 41.88	1.0	SNF	89.10	39 iPd	19 35.40	0.1	WATA	93.44	43 iPd	19 55.70	0.0
CNIL	78.46	51 iP	18 44.00	2.2	UCC	89.20	39 P	19 37.00	1.2	WTTA	93.47	43 iPd	19 56.00	0.1
MTE	78.54	47 iPd	18 42.00	-0.3	DOU	89.22	40 Pd	19 36.30	0.4		1.5s	113.00nm		6.0mb
STS	78.61	44 iPc	18 42.63	0.1		1.0s	169.40nm		6.1mb	SYO	93.63	161 ePd	19 55.80	-0.2
PLAT	78.62	51 eP	18 45.00	2.2			e	20 13.20	144kmX	MOX	93.75	40 ePd	19 57.20	0.4
ALJ	78.89	51 eP	18 47.00	2.6	SVV	89.72	332 iPd	19 37.19	-0.9		1.9s	106.00nm		5.8mb
EJIF	78.94	51 P	18 46.00	1.5		1.0s	156.66nm		6.0mb	BHG	94.35	43 iPc	20 00.50	0.8
EPRU	79.26	51 P	18 48.02	1.8			pP	20 09.29	123kmX	WET	94.45	41 iPc	20 00.90	0.8
ERUA	79.44	45 P	18 47.56	0.5			e	20 22.64		NRA0	94.50	30 P	19 59.60	-0.4
EHOR	79.48	50 iPd	18 47.64	0.3			e	23 15.13		KBA	94.62	43 iPd	20 00.80	-0.4
EPLA	79.50	48 P	18 47.81	0.3	VITF	89.80	42 P	19 38.64	-0.1		1.3s	38.70nm		5.6mb
EMON	79.63	44 iPd	18 48.25	0.1	RRL	89.84	45 P	19 39.44	0.2			i	20 09.60	27kmX
ELOJ	80.14	51 iPc	18 52.36	1.3	RSL	89.85	44 P	19 38.93	-0.3	CLL	94.67	39 iPd	20 01.80	0.8
ELUQ	80.16	50 iPd	18 51.91	0.8	MVIF	89.95	46 P	19 39.83	0.1		1.9s	90.00nm		5.8mb
EGUA	80.51	51 eP	18 53.14	0.2	PZZ	90.00	45 P	19 40.31	0.4			i	20 34.00	123kmX
ECOG	80.63	51 P	19 07.76	14.1X	TOUF	90.04	46 P	19 40.05	-0.1	KHC	94.91	41 Pd	20 02.50	0.3
PAB	80.63	48 iPd	18 54.10	0.6	IMA	90.06	337 iPd	19 39.53	-0.2		1.1s	20.00nm		5.4mb
EBAN	80.69	50 P	18 54.43	0.6		1.0s	55.48nm		5.6mb			e	20 08.00	17kmX
GUD	81.07	47 P	18 56.52	0.6			pP	20 11.31	122kmX			e	20 34.00	
RAR	81.09	250 P	18 54.90	-1.2			e	20 24.57		GEC2	94.97	42 P	20 02.20	-0.4
RES	81.29	355 ePd	18 55.90	-0.2			e	23 13.89			1.1s	10.63nm		5.1mb
	1.0s	39.00nm		5.1mb	AURF	90.08	46 P	19 40.05	-0.1			e	20 08.60	20kmX
EHUE	81.51	50 iPd	18 58.77	0.6	REVF	90.08	46 P	19 40.05	-0.1	BRG	95.24	40 iPd	20 04.30	0.6
ENIJ	81.60	51 P	18 58.70	0.1	EMS	90.11	44 iPd	19 40.60	0.1		1.2s	60.00nm		5.9mb



20d 09h

	i	20 07.20	9kmX	
	e	23 54.80		
LJU	95.38 44 eP	20 05.00	0.6	
	e	20 36.00	118kmX	
HFS	95.53 30 eP	20 04.40	-0.4	
	1.0s 57.80nm		6.0mb	
PRU	95.58 40 Pd	20 05.70	0.5	
	1.0s 29.10nm		5.7mb	
	PP	23 58.10		
BCAO	96.00 86 iPc	20 09.50	1.5	
	0.8s 21.00nm		5.7mb	
	i	20 37.80	106kmX	
PTJ	96.36 45 eP	20 09.70	0.7	
ZST	97.20 42 iP	20 12.20	-0.4	
	ePP	24 07.80		
UPP	97.51 30 iP	20 13.60	0.0	
GRM	98.01 125 eP	20 17.50	0.8	
	0.7s 45.00nm		6.1mb	
SRO	98.01 43 eP	20 16.10	-0.1	
SPC	99.28 41 eP	20 22.90	0.6	
	ePP	24 26.90		
NUR	100.96 30 iPd	20 29.10	-0.2	
	1.0s 28.20nm		5.8mb	
GRG	101.04 50 ePd	20 31.20	1.0	
SLR	101.09 118 ePd	20 30.00	-0.9	
KNT	101.41 49 ePd	20 33.10	1.3	
KAF	101.52 28 iPd	20 31.70	0.0	
	0.9s 13.90nm		5.6mb	
SOH	101.77 50 ePd	20 34.44	1.0	
SRS	101.94 49 ePd	20 34.92	0.8	
OBN	108.32 34 (PKP)	25 07.00	-0.9	
	1.0s 18.00nm			
	e	25 35.50		
	i	26 14.50		
	i	26 20.20		
	i	26 27.30		
	e	39 18.00		
	LQ	59 20.00		
ARU	118.80 26 ePKP	25 39.99	12.1X	
YAK	120.69 346 iPKPd	25 29.40	-1.9	
	1.0s 50.00nm			
	e	26 37.00		
STK	127.32 222 ePKP	25 44.20	-0.9	
	0.9s 7.50nm			
KUSJ	127.89 322 ePKP	25 43.60	-2.2	
ASAJ	128.56 324 ePKP	25 46.80	-0.2	
MAIO	130.13 47 ePKP	25 50.00	-0.4	
CTAO	130.15 238 ePKP	25 49.56	-1.2	
	e	26 25.09		
PMG	133.36 251 (PKP)	25 57.25	0.2	
IRK	133.86 359 ePKP	25 57.00	0.1	
	1.7s 71.00nm			
	e	26 31.00		
	e	26 50.00		
	e	28 23.00		
CN2	137.47 336 ePKP	26 01.60	-2.4	
ASPA	137.78 225 iPKPc	25 57.10	-8.1X	
	i	26 04.30		
GUMO	138.06 284 (PKP)	26 05.30	-0.6	
KSH	138.77 32 PKP	26 07.20	0.5	
WB2	139.77 229 ePKP	25 59.50	-9.4X	
	0.7s 12.70nm			
	i	26 08.20		
WRA	139.77 229 PKP	25 55.20	-13.7X	
	0.7s 1.00nm			
WRA	139.77 229 PKP	26 27.00	18.1X	
	0.7s 1.50nm			
WB5	139.79 229 ePKP	26 00.60	-8.3X	
	i	26 08.00		
	i	26 40.30		
	i	26 43.70		
	i	26 55.70		
	i	26 58.00		
NIL	141.08 41 iPKP	26 08.80	-2.1	
	isP'df26 21.50			
	PKSdf	29 46.80		
DL2	143.14 335 PKP	26 10.00	-4.2X	
BJI	144.08 343 PKP	26 12.00	-3.8X	
MEEK	144.18 204 ePKP	26 13.00	-3.4X	
HHC	144.46 349 PKPd	26 14.80	-1.8	
BTO	144.98 351 iPKPd	26 16.50	-1.0	
	pPKP	26 48.00		
MTN	146.31 236 ePKP	26 23.50	3.3X	
KNA	146.52 229 ePKP	26 22.50	2.0	
	0.7s 122.00nm			
GTA	146.62 4 iPKPd	26 20.50	0.2	
	pPKP	26 53.00		

NDI	146.81 44 iPKPd	26 21.00	0.3				
TIA	147.24 339 ePKP	26 20.80	-0.4				
TIY	147.27 346 PKPd	26 21.00	-0.3				
Z	10s 0.63um		5.7mszX				
	pPKP	26 56.00					
MBL	148.33 211 ePKP	26 23.00	-0.3				
POO	149.02 64 ePKP	26 25.50	0.9				
SSE	149.74 328 PKPd	26 25.00	-0.2				
LZH	150.05 359 PKP	26 25.00	-0.8				
NJ2	150.12 332 PKPc	26 25.60	-0.2				
XAN	151.56 350 PKPd	26 28.00	0.0				
WHN	153.34 338 PKPc	26 31.00	0.5				
HYB	153.60 62 ePKPd	26 31.00	-0.3				
	1.0s 850.00nm						
	e	26 38.70					
	e	26 52.00					
GBA	153.77 71 PKPd	26 31.50	0.0				
	1.0s 13.01nm						
LSA	153.93 24 PKP	26 33.10	1.1				
TATO	154.08 319 (PKP)	26 29.81	-1.9				
KOD	154.43 79 ePKP	26 33.00	0.2				
CD2	155.21 358 PKPd	26 33.80	0.7				
GYA	159.35 351 PKP	26 38.00	-0.4				
	PKPab	27 13.00					
	PP	30 53.80					
KMI	160.99 1 PKP	26 40.00	-0.3				
	PKPab	27 22.00					
	PP	31 04.00					
LEM	166.43 200 ePKPd	26 45.00	-0.5				
CHTO	166.68 17 ePKP	26 45.00	-0.4				
	e	27 47.20					
S.D. = 0.9 on 391 of 413 obs.							
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% JAN 20, 1994 09h 44m 36.02± 0.60s							
37.289 N ± 5.2km	4.195 W ± 5.2km						
DEPTH = 5.0km (geophysicist)							
SPAIN (377)							
mbLg 2.6 (MDD).							
ELOJ	0.14 166 iPd	44 37.98	-1.1				
	eS	44 40.00					
ELUQ	0.28 348 eP	44 41.69	0.0				
	eS	44 47.30					
ECOG	0.50 91 eP	44 46.00	-0.1				
	eS	44 53.80					
EGUA	0.68 132 eP	44 50.20	0.6				
	eS	44 56.80					
EPRU	0.89 249 eP	44 54.45	0.9				
EBAN	0.93 20 eP	44 54.11	-0.2				
	eS	45 06.70					
EHOR	0.99 303 eP	44 54.72	-0.6				
	eS	45 09.80					
EHUE	1.38 67 eP	45 02.34	0.4				
	eS	45 19.40					
S.D. = 0.8 on 8 of 8 obs.							
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* JAN 20, 1994 09h 51m 04.44± 0.80s							
38.138 N ± 9.9km	104.096 E ± 8.6km						
DEPTH = 10.0km (geophysicist)							
4.3mb ( 2 obs.)							
WESTERN NEI MONGOL, CHINA (323)							
ML 3.7 (BJI).							
LZH	2.06 186 Pnc	51 39.80	0.2				
	Pg	51 40.80					
	Sg	52 03.00					
GTA	3.58 292 Pn	52 02.00	0.7				
	Pg	52 09.50					
	Sg	52 55.00					
BTO	5.21 60 ePn	52 24.20	-0.1				
XAN	5.66 135 Pn	52 31.50	0.9				
	Pg	52 48.50					
	Sn	53 37.00					
HHC	6.38 63 Pn	52 40.20	-0.7				
TIY	6.61 91 ePn	52 45.40	1.3				
	Sg	54 36.40					
CD2	7.22 182 ePg	53 23.30	30.7X				
BJI	9.58 75 eP	54 09.50	44.1X				
	1.0s 6.00nm						
	Lg	56 11.00					
GYA	11.85 169 P	54 07.00	10.5X				
WRA	64.38 148 P	01 42.00	-0.8				
	0.6s 0.80nm		4.1mb				
WB2	64.39 148 eP	01 41.40	-1.5				
	0.8s 3.10nm		4.5mb				
S.D. = 1.1 on 8 of 11 obs.							

& JAN 20, 1994 09h 57m 32.73s							
34.356 N		118.559 W					
DEPTH = 6.4km							
SOUTHERN CALIFORNIA ( 43)							
<PAS-P>. ML 2.7 (PAS), 2.8 (GS).							
SSK	0.73 101 ePc	57 46.16	-1.2				
ABL	0.74 312 ePd	57 46.04	-1.4				
PEC	1.25 111 eP	57 54.37	-1.9				
ISA	1.31 3 eP	57 56.09	-1.2				
BCH	1.50 304 eP	57 58.08	-2.2				
GSC	1.72 56 eP	58 02.19	-1.3				
PLM	1.73 125 eP	58 01.72	-1.9				
MTUM	2.99 360 (P)	58 23.26	1.6				
TPNV	3.20 35 eP	58 23.42	-1.2				
MMPM	3.27 353 (P)	58 27.17	1.4				
BONR	3.60 3 (P)	58 28.52	-1.9				
11 obs. associated							
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& JAN 20, 1994 10h 07m 09.42s							
34.285 N		118.515 W					
DEPTH = 9.7km							
SOUTHERN CALIFORNIA ( 43)							
<PAS-P>. ML 2.8 (PAS), 2.8 (GS).							
PEC	1.19 109 ePc	07 30.09	-1.6				
ISA	1.38 1 ePc	07 33.59	-1.1				
BCH	1.57 305 eP	07 36.15	-1.4				
PLM	1.66 124 eP	07 37.27	-1.6				
GSC	1.73 54 eP	07 38.58	-1.3				
TPNV	3.24 34 eP	08 00.04	-1.4				
BONR	3.67 3 eP	08 08.15	0.4				
7 obs. associated							
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? JAN 20, 1994 10h 37m 15.30± 1.03s							
39.193 N ±10.3km		27.686 E ±15.3km					
DEPTH = 10.0km (geophysicist)							
TURKEY (366)							
ML 2.8 (ISK).							
DST	0.84 60 ePg	37 31.60	0.1				
	eSg	37 43.60					
IZM	0.86 203 ePg	37 31.90	0.0				
	eSg	37 44.90					
EDC	1.16 7 ePn	37 37.00	0.0				
IZI	1.79 50 ePn	37 46.40	-0.1				
S.D. = 0.1 on 4 of 4 obs.							
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& JAN 20, 1994 11h 06m 20.02s							
34.376 N		118.519 W					
DEPTH = 0.1km							
SOUTHERN CALIFORNIA ( 43)							
<PAS-P>. ML 3.1 (PAS), 3.0 (GS).							
FTC	0.58 328 P	06 31.51	-0.1				
SSK	0.70 103 ePc	06 33.05	-1.0				
PLEC	0.74 323 P	06 35.24	0.4				
ABL	0.75 309 eP	06 34.03	-0.9				
BMTc	0.76 355 P	06 34.32	-0.9				
ARVC	0.79 341 P	06 35.08	-0.7				
TEJ	0.86 351 P	06 35.06	-2.2				
MARC	0.92 313 P	06 37.75	-0.6				
LPC	0.99 277 P	06 40.68	0.8				
WJPM	1.03 2 P	06 39.45	-1.1				
TMB	1.10 311 P	06 41.36	-0.3				
WOFM	1.17 352 P	06 42.58	-0.3				
WBSM	1.20 15 P	06 42.97	-0.5				
PEC	1.23 113 ePc	06 42.03	-1.7				
ISA	1.28 2 eP	06 43.58	-1.2				
CRGC	1.31 311 P	06 44.95	-0.4				
WSHM	1.51 34 P	06 47.08	-1.4				
BCH	1.52 303 eP	06 48.20	-0.4				
TOW	1.56 23 P	06 48.43	-0.7				
VPME	1.67 20 P	06 51.82	1.0				
GSC	1.69 56 eP	06 49.58	-1.4				
PLM	1.72 126 ePd	06 49.54	-1.9				
RCWM	1.73 24 P	06 50.84	-0.7				



20d 11h

JAN 20, 1994 11h 28m 59.93± 0.28s  
 44.559 N ± 2.0km 7.333 E ± 3.3km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 3.0 (GEN), 2.5 (STR).

PZZ	0.17	252	Pd	29	03.74	-0.2
BHB	0.29	350	P	29	06.84	0.9
			S	29	11.05	
STV	0.31	181	Pc	29	06.52	0.0
			S	29	10.39	
ENR	0.34	169	P	29	06.81	-0.2
			S	29	11.05	
ROB	0.47	124	Pd	29	09.80	0.4
			S	29	16.13	
RRL	0.53	313	P	29	10.76	0.0
			S	29	17.59	
TOUF	0.55	186	Pg	29	11.06	0.0
AUTN	0.57	173	Pg	29	11.63	0.0
SAOF	0.59	164	Pg	29	11.89	-0.1
RSP	0.60	355	P	29	11.90	-0.1
			S	29	19.81	
AURF	0.67	180	Pg	29	12.88	-0.5
			Sg	29	22.59	
MVIF	0.68	191	Pg	29	13.71	0.3
SBF	0.70	174	Pg	29	13.97	0.2
			Sg	29	23.85	
FIN	0.72	119	Pd	29	14.17	0.1
			S	29	23.63	
IMI	0.76	148	P	29	14.80	-0.1
			S	29	24.49	
REVF	0.82	178	Pg	29	16.02	0.2
CALN	0.87	202	Pg	29	17.20	0.5
PCP	0.87	91	P	29	17.24	0.6
			S	29	28.31	
LSD	0.91	352	P	29	17.49	0.0
			S	29	28.82	
ORX	1.17	23	P	29	20.79	-1.0
			S	29	35.31	
PGF	2.35	148	Pn	29	38.47	-0.8

S.D. = 0.4 on 21 of 21 obs.

& JAN 20, 1994 11h 36m 16.22s  
 34.304 N 118.438 W  
 DEPTH = 7.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.7 (GS).

SSK	0.62	98	eP	36	28.05	-0.7
ABL	0.85	310	eP	36	31.44	-1.4
PEC	1.14	111	eP	36	36.38	-1.4
ISA	1.36	359	eP	36	40.75	-0.7
BCH	1.62	303	eP	36	44.24	-1.0
PLM	1.62	125	eP	36	43.57	-1.7
GSC	1.67	53	eP	36	45.39	-0.6
MTUM	3.04	358	(P)	37	09.51	3.8
TPNV	3.18	33	(P)	37	08.61	0.9
MMFM	3.33	352	(P)	37	11.89	1.9
BONR	3.65	2	(P)	37	15.07	0.7
CMB	4.04	338	(P)	37	20.67	0.9

12 obs. associated

& JAN 20, 1994 11h 37m 18.02s  
 34.313 N 118.425 W  
 DEPTH = 3.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.5 (GS).

SSK	0.61	99	eP	37	29.80	-0.5
FTC	0.68	325	P	37	30.61	-0.9
RYS	0.83	294	P	37	34.63	0.0
PLEC	0.84	321	P	37	34.30	-0.5
ABL	0.85	309	eP	37	33.20	-1.7
ARVC	0.88	338	P	37	34.14	-1.3
TEJ	0.94	347	P	37	33.59	-3.0
LPC	1.08	280	P	37	37.56	-1.5
WJPM	1.10	358	P	37	38.08	-1.2
PEC	1.13	111	eP	37	38.32	-1.5
WBSM	1.24	11	P	37	41.27	-0.6
ISA	1.35	358	eP	37	42.46	-1.1
TOW	1.59	20	P	37	47.97	0.9
PLM	1.62	126	eP	37	43.00	-4.6
BCH	1.62	303	eP	37	47.31	-0.3
GSC	1.66	53	eP	37	44.20	-3.9
RCWM	1.75	21	P	37	50.64	1.2
PHAM	2.22	314	(P)	37	55.52	-0.7
MTUM	3.04	358	(P)	38	05.94	-2.0

GLA	3.25	112	(P)	38	11.30	0.4
MMFM	3.33	352	(P)	38	14.09	1.9
MRCM	3.35	359	(P)	38	09.48	-3.0
BONR	3.64	2	eP	38	16.02	-0.6
TNP	3.89	14	(P)	38	27.37	7.3
ARN	3.94	321	eP	38	21.14	0.4
COE	3.95	319	eP	38	20.79	0.0
CMB	4.04	337	eP	38	21.45	-0.6
ARUT	5.32	48	(P)	38	42.84	2.4
MSU	6.55	48	(P)	38	54.71	-3.2

29 obs. associated

JAN 20, 1994 11h 38m 35.80± 0.27s  
 44.559 N ± 2.0km 7.329 E ± 3.2km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 3.0 (GEN), 2.3 (STR).

PZZ	0.17	252	Pd	38	39.53	-0.2
			S	38	41.48	
BHB	0.29	351	P	38	42.57	0.7
			S	38	46.58	
STV	0.31	181	P	38	42.29	-0.1
			S	38	46.16	
ENR	0.34	169	P	38	42.65	-0.2
			S	38	46.88	
ROB	0.47	124	P	38	45.70	0.3
			S	38	52.03	
RRL	0.53	313	P	38	46.54	-0.1
			S	38	53.27	
TOUF	0.55	186	Pg	38	46.86	-0.1
AUTN	0.57	173	Pg	38	47.42	-0.1
RSP	0.60	355	P	38	47.79	-0.1
			S	38	55.64	
SAOF	0.59	164	Pg	38	47.55	-0.3
AURF	0.67	180	Pg	38	49.27	0.1
MVIF	0.67	191	Pg	38	49.44	0.1
			Sg	38	58.69	
SBF	0.70	174	Pg	38	49.81	0.1
			Sg	38	59.58	
FIN	0.72	119	P	38	49.98	0.0
			S	38	59.60	
IMI	0.76	148	P	38	50.73	0.0
			S	39	00.53	
REVF	0.82	178	Pg	38	52.08	0.4
CALN	0.87	202	Pg	38	53.06	0.5
PCP	0.87	91	P	38	53.07	0.5
			S	39	04.34	
LSD	0.91	352	P	38	53.31	0.0
			S	39	05.06	
ORX	1.17	23	P	38	57.00	-0.7
			S	39	11.86	
PGF	2.35	148	Pn	39	14.27	-0.9

S.D. = 0.4 on 21 of 21 obs.

% JAN 20, 1994 11h 42m 00.49± 0.67s  
 44.541 N ± 5.6km 7.319 E ± 5.3km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.9 (GEN).

PZZ	0.16	257	P	42	03.64	-0.2
			S	42	05.56	
BHB	0.30	353	P	42	06.89	0.3
			S	42	10.46	
ENR	0.32	167	P	42	07.39	0.4
			S	42	11.56	
ROB	0.47	122	P	42	10.09	0.2
			S	42	16.78	
FIN	0.72	117	P	42	14.93	0.1
IMI	0.75	147	P	42	15.34	-0.3
PCP	0.88	90	P	42	17.40	-0.4

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

% JAN 20, 1994 11h 42m 51.30± 0.54s  
 44.550 N ± 4.9km 7.311 E ± 4.7km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.5 (GEN).

PZZ	0.16	253	P	42	54.33	-0.3
			S	42	56.42	
BHB	0.29	353	P	42	57.72	0.5
			S	43	02.29	
STV	0.31	178	P	42	58.05	0.5
			S	43	01.57	
ROB	0.48	122	P	43	01.11	0.3

		S	43	08.09		
RRL	0.53	315	P	43	01.64	-0.2
		S	43	09.27		
FIN	0.73	118	P	43	05.42	-0.4
		S	43	15.46		
IMI	0.76	147	P	43	06.53	-0.1
		S	43	16.96		
PCP	0.88	90	P	43	08.55	-0.2
		S	43	20.75		

S.D. = 0.4 on 8 of 8 obs.

? JAN 20, 1994 11h 43m 47.62± 1.02s  
 44.548 N ± 6.3km 7.300 E ± 11.7km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.7 (GEN).

PZZ	0.15	253	P	43	50.72	0.0
			S	43	52.31	
BHB	0.29	355	P	43	53.60	0.0
STV	0.30	177	P	43	53.97	0.2
ENR	0.33	165	P	43	54.17	-0.2

S.D. = 0.3 on 4 of 4 obs.

& JAN 20, 1994 12h 08m 18.10s  
 67.463 N 145.758 W  
 DEPTH = 35.2km  
 NORTHERN ALASKA (676)  
 <AEIC>. ML 3.5 (AEIC), 4.1 (PMR).

BALM	6.62	165	eP	09	55.10	-0.5
BC3	13.98	96	eP	09	28.87	0.8
			eS	10	20.86	
BM3	13.98	96	eP	08	27.72	0.8
			eS	08	35.25	
BRW	13.98	96	eP	09	38.36	0.8
BWN	13.98	96	eP	09	13.02	0.8
CCB	13.98	96	eP	09	02.97	0.8
CFI	13.98	96	eP	09	50.81	0.8
CTGM	13.98	96	P	09	58.70	0.8
DHY	13.98	96	eP	09	24.86	0.8
DJE	13.98	96	eP	09	11.53	0.8
FBA	13.98	96	ePc	08	59.83	0.8
FYU	13.98	96	eP	08	34.66	0.8
			eS	08	46.63	
GHO	13.98	96	eP	09	43.51	0.8
GLB	13.98	96	eP	09	47.09	0.8
GLM	13.98	96	eP	08	58.41	0.8
			eS	08	28.99	
HDA	13.98	96	eP	09	06.33	0.8
IL1	13.98	96	eP	09	00.60	0.8
			eS	09	33.31	
ILB	13.98	96	eP	09	00.45	0.8
			eS	09	33.31	
IM3	13.98	96	eP	09	10.05	0.8
IMA	13.98	96	ePn	09	09.26	0.8
			ePg	09	17.73	
INK	13.98	96	P	09	30.50	0.8
	0.5s		5.80nm		3.4mb	
KLU	13.98	96	eP	09	45.28	0.8
KNK	13.98	96	P	09	51.20	0.8
MDM	13.98	96	eP	08	59.71	0.8
MLY	13.98	96	eP	09	05.85	0.8
NEA	13.98	96	eP	09	06.22	0.8
PAX	13.98	96	eP	09	25.80	0.8
PMR	13.98	96	eP	09	48.23	0.8
PMS	13.98	96	eP	09	57.80	0.8
PWA	13.98	96	eP	09	46.99	0.8
PWL	13.98	96	eP	09	54.60	0.8
SKT	13.98	96	eP	09	45.42	0.8
SML	13.98	96	eP	09	43.95	0.8
TOA	13.98	96	eP	09	36.81	0.8
TTA	13.98	96	eP	09	47.56	0.8
WRH	13.98	96	eP	09	06.41	0.8
			eS	09	43.27	
YKA	13.98	96	P	11	36.30	0.8
	0.4s		0.30nm		3.4mb	

37 obs. associated

& JAN 20, 1994 12h 26m 22.80s  
 34.305 N 118.441 W  
 DEPTH = 7.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.7 (GS).

SSK	0.63	98	ePd	26	34.47	-0.9
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20d 12h

FTC 0.68 327 P 26 35.56 -0.8  
 RYS 0.82 294 P 26 38.30 -0.8  
 PLEC 0.84 322 P 26 39.22 -0.1  
 ABL 0.84 310 ePc 26 38.06 -1.4  
 ARVC 0.88 339 P 26 38.90 -1.1  
 MARC 1.02 313 P 26 41.68 -0.6  
 WJPM 1.10 358 P 26 42.90 -0.9  
 PEC 1.14 111 ePc 26 42.91 -1.5  
 S 26 58.29

TMB 1.19 311 P 26 44.82 -0.5  
 WBSM 1.25 11 P 26 45.70 -0.8  
 ISA 1.36 359 eP 26 47.06 -1.0  
 WORM 1.40 7 P 26 48.64 -0.1  
 CRGC 1.41 312 P 26 49.58 0.6  
 WSHM 1.54 30 P 26 49.75 -0.9  
 NMC 1.60 16 P 26 51.88 0.3  
 TOW 1.60 20 P 26 51.38 -0.2  
 BCH 1.61 303 eP 26 50.55 -1.3  
 PLM 1.62 125 ePc 26 50.07 -1.9  
 GSC 1.67 53 eP 26 51.83 -0.9  
 VPEN 1.72 17 P 26 53.41 0.0  
 RCWM 1.77 21 P 26 53.36 -0.7  
 WLHM 1.85 3 P 26 56.38 1.0  
 PHAM 2.22 314 (P) 26 58.45 -2.0  
 PAMP 2.88 305 P 27 07.21 -2.8  
 BHPR 2.99 359 P 27 17.76 6.1  
 MTUM 3.04 358 (P) 27 15.49 3.1  
 TPNV 3.19 33 eP 27 13.76 -0.6  
 HTRC 3.23 355 P 27 22.06 6.9  
 GLA 3.26 112 (P) 27 16.32 0.9  
 MMPM 3.33 352 (P) 27 17.91 1.2  
 MRCM 3.36 359 (P) 27 19.85 2.9  
 MCSM 3.36 354 P 27 24.37 7.3  
 MEMM 3.38 353 eP 27 21.04 4.1  
 BONR 3.64 2 (P) 27 22.25 1.2  
 ARN 3.94 321 (P) 27 23.90 -1.1  
 COE 3.95 319 (P) 27 26.45 1.4  
 CMB 4.04 338 eP 27 24.87 -1.5  
 HMR 4.70 326 (P) 27 37.99 2.2  
 KVN 4.74 3 (P) 27 38.42 1.8  
 ARUT 5.34 48 (P) 27 45.83 0.9  
 DUG 7.39 36 (P) 28 21.96 8.1

0.6s 1.90nm 4.5mb X  
 42 obs. associated

? JAN 20, 1994 12h 49m 36.01± 2.46s  
 44.805 N ± 8.8km 6.733 E ± 19.1km  
 DEPTH = 10.0km (geophysicist)  
 FRANCE (538)  
 ML 2.0 (GEN).

RRL 0.12 18 P 49 39.26 0.0  
 S 49 41.73  
 BHB 0.38 84 P 49 43.84 0.0  
 S 49 50.93  
 PZZ 0.40 139 P 49 44.20 0.0  
 S 49 51.44  
 RSP 0.51 47 P 49 46.31 0.0  
 S.D. = 0.1 on 4 of 4 obs.

% JAN 20, 1994 13h 00m 49.02± 0.86s  
 39.620 N ± 7.3km 29.453 E ± 7.7km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

DST 0.64 269 ePg 01 01.00 -0.9  
 IZI 0.72 1 iPg 01 02.80 -0.4  
 eSg 01 13.30  
 ALT 0.76 138 ePg 01 04.10 0.1  
 eSg 01 16.50  
 YLV 0.95 356 ePn 01 07.30 0.2  
 EYL 1.09 30 iPn 01 09.30 -0.2  
 EDC 1.42 301 ePn 01 16.00 1.1  
 S.D. = 0.9 on 6 of 6 obs.

? JAN 20, 1994 13h 09m 13.61± 1.08s  
 31.259 S ± 13.1km 68.504 W ± 16.0km  
 DEPTH = 33.0km (normal)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.08 157 ePd 09 19.20 -0.2  
 RTCB 0.34 228 ePd 09 22.00 0.0  
 S 09 29.50  
 CFA 0.41 147 iPc 09 23.10 0.1  
 S 09 31.00  
 RTRS 1.36 323 iPc 09 36.50 0.0

S 09 53.50  
 S.D. = 0.2 on 4 of 4 obs.

\* JAN 20, 1994 13h 13m 57.99± 0.55s  
 3.011 S ± 7.0km 80.506 W ± 10.4km  
 DEPTH = 33.0km (normal)  
 4.3mb (3 obs.)  
 PERU-ECUADOR BORDER REGION (110)

VC1 3.15 42 P 14 47.94 0.9  
 JAMA 3.26 5 P 14 40.31 -7.8X  
 GGP 3.40 34 P 14 50.73 0.1  
 COTA 3.97 33 P 14 58.41 -0.2  
 NNA 9.63 158 iPd 16 17.50 0.0  
 0.7s 9.59nm 5.1mb X  
 eS 18 02.50

LPZ 17.95 138 P 18 07.60 0.1  
 LPB 18.15 139 P 18 09.70 0.0  
 SIV 23.07 125 P 18 59.50 -2.3  
 MOCB 23.20 143 P 19 05.50 2.0  
 MIAR 39.33 343 (P) 21 25.11 -0.8  
 TUL 41.28 341 iPd 21 42.30 0.4  
 ALQ 44.93 329 eP 22 13.17 1.2  
 1.0s 7.25nm 4.5mb  
 PV08 48.87 331 eP 22 43.49 0.5  
 PV10 48.90 330 eP 22 43.04 -0.1  
 e 22 50.39  
 EMUT 50.89 330 eP 22 58.95 0.6  
 BW06 52.59 333 eP 23 10.60 -0.5  
 1.2s 5.87nm 4.4mb  
 e 23 17.45

YKA 70.26 344 P 25 07.30 -2.4  
 0.8s 0.80nm 3.8mb  
 WRA 138.88 235 PKP 33 24.10 0.3  
 0.7s 0.30nm  
 S.D. = 1.2 on 17 of 18 obs.

? JAN 20, 1994 13h 20m 10.22± 0.97s  
 26.899 S ± 11.7km 26.822 E ± 10.2km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)

BFS 0.03 270 eP 20 00.40 -11.2X  
 S 20 11.90  
 SWZ 1.36 258 eP 20 36.10 0.1  
 S 20 53.40  
 SEK 1.59 154 eP 20 39.30 0.1  
 S 20 58.40  
 SLR 1.75 49 eP 20 41.50 0.0  
 BOSA 2.11 216 eP 20 46.50 -0.2  
 S 21 11.30

S.D. = 0.2 on 4 of 5 obs.

& JAN 20, 1994 13h 27m 55.72s  
 62.102 N 155.411 W  
 DEPTH = 2.0km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).

TTA 0.88 342 eP 28 12.34 -1.0  
 eS 28 25.55  
 SVW 1.00 186 eP 28 14.03 -1.5  
 eS 28 28.06  
 BGL 1.67 119 eP 28 24.25 -1.9  
 NCG 1.70 113 eP 28 24.51 -2.1  
 CP2 1.73 118 eP 28 24.84 -2.3  
 CRP 1.76 117 eP 28 25.27 -2.4  
 CKN 1.77 118 eP 28 26.19 -1.5  
 CKT 1.78 119 eP 28 26.28 -1.5  
 CGLM 1.81 115 eP 28 26.37 -1.8  
 BKG 1.83 123 eP 28 26.16 -2.3  
 SKT 1.83 92 eP 28 25.85 -2.7  
 eS 28 50.86

SPU 1.85 118 eP 28 26.51 -2.3  
 NCT 1.95 141 eP 28 27.72 -2.6  
 DFR 2.01 138 eP 28 28.80 -2.3  
 RDW 2.05 141 eP 28 30.52 -1.3  
 REF 2.08 140 eP 28 30.23 -2.0  
 RS2 2.08 141 eP 28 30.33 -2.0  
 RSO 2.09 141 eP 28 30.48 -1.9  
 RED 2.12 142 eP 28 30.67 -2.0  
 eS 28 57.99

SUA 2.31 104 eP 28 34.88 -0.6  
 eS 29 04.31  
 INE 2.34 150 eP 28 33.68 -2.4  
 ILIM 2.35 149 eP 28 33.67 -2.4

CUT 2.42 81 eP 28 35.05 -2.0  
 eS 29 05.79  
 NKA 2.43 122 eP 28 37.44 0.4  
 KTH 2.52 53 eP 28 37.30 -1.2  
 PWA 2.66 97 P 28 40.20 -0.1  
 OPT 2.68 156 eP 28 39.04 -1.6  
 PMS 2.92 105 eP 28 41.50 -2.6  
 SLKM 2.97 120 eP 28 42.59 -2.2  
 PMR 3.02 97 eP 28 42.31 -3.1  
 GHO 3.08 93 eP 28 44.81 -1.6  
 CNPM 3.30 140 eP 28 46.36 -3.0  
 SML 3.36 92 eP 28 48.56 -1.7  
 KNK 3.38 99 eP 28 48.38 -2.2  
 FWL 3.62 107 eP 28 51.27 -2.7  
 CFI 3.76 101 eP 28 52.88 -3.1  
 IM3 3.97 10 eP 28 55.28 -3.6  
 IMA 4.05 10 P 28 57.70 -2.5  
 FBA 4.42 47 (P) 29 05.70 0.4  
 IL1 4.67 51 eP 29 08.08 -0.8  
 ILB 4.67 51 eP 29 04.79 -4.1  
 BM3 7.05 36 eP 29 36.29 -6.2

42 obs. associated

& JAN 20, 1994 13h 56m 45.73s  
 34.367 N 118.708 W  
 DEPTH = 8.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.3 (GS).

FTC 0.52 343 P 56 55.36 -1.0  
 RYS 0.60 298 P 56 56.99 -0.8  
 ABL 0.64 319 ePc 56 57.28 -1.4  
 PLEC 0.67 334 P 56 58.40 -0.8  
 ARVC 0.76 353 P 56 59.77 -1.1  
 MARC 0.82 321 P 57 00.75 -1.1  
 LPC 0.84 279 P 57 00.93 -1.3  
 SSK 0.85 100 eP 57 01.26 -1.3  
 TEJ 0.86 1 P 57 00.96 -1.6  
 TMB 0.99 317 P 57 04.09 -0.7  
 WJPM 1.06 10 P 57 04.95 -1.0  
 WOFM 1.17 360 P 57 06.75 -1.0  
 WBSM 1.26 22 P 57 08.44 -1.0  
 ISA 1.31 8 ePd 57 09.05 -1.1  
 SCCM 1.34 296 P 57 09.14 -1.5  
 PEC 1.37 110 eP 57 08.92 -2.2  
 WASM 1.37 5 P 57 10.56 -0.8  
 WORM 1.38 16 P 57 10.17 -1.1  
 BCH 1.40 306 eP 57 09.85 -1.7  
 WSHM 1.61 38 P 57 12.44 -2.1  
 TOW 1.63 28 P 57 13.56 -1.3  
 VPEN 1.74 25 P 57 18.28 1.7  
 WLHM 1.81 10 P 57 16.75 -1.0  
 GSC 1.82 59 ePc 57 16.00 -1.7  
 PLM 1.84 123 eP 57 15.81 -2.2  
 PHAM 2.02 317 (P) 57 18.78 -1.7  
 PHBM 2.19 329 P 57 23.71 0.8  
 PAMP 2.67 306 P 57 26.56 -3.3  
 MTUM 2.98 2 (P) 57 33.42 -0.9  
 MMPM 3.25 356 eP 57 37.74 -0.5  
 TPNV 3.26 37 eP 57 36.09 -2.3  
 SAO 3.27 318 eP 57 35.03 -3.3  
 MEMM 3.30 357 (P) 57 39.84 1.2  
 MRCM 3.30 3 (P) 57 38.75 -0.2  
 GLA 3.49 111 (P) 57 43.01 1.6  
 BONR 3.60 5 eP 57 45.66 2.5  
 ARN 3.76 323 eP 57 42.20 -3.1  
 TNP 3.90 18 (P) 57 58.41 11.0  
 CMB 3.90 340 eP 57 45.58 -1.8  
 ARUT 5.46 50 (P) 58 08.22 -1.4

40 obs. associated

% JAN 20, 1994 14h 02m 18.34± 0.90s  
 15.579 N ± 7.4km 121.173 E ± 20.4km  
 DEPTH = 33.0km (normal)  
 LUZON, PHILIPPINE ISLANDS (249)

QVP 0.96 190 eP 02 34.50 -1.0  
 eS 02 48.00  
 GQP 2.07 143 ePc 02 51.00 -0.5  
 iS 03 13.00  
 PGP 2.08 186 eP 02 53.00 1.4  
 SZP 2.08 341 ePc 02 51.20 -0.4  
 CVP 2.20 16 ePc 02 53.70 0.4  
 eS 03 22.00

S.D. = 1.3 on 5 of 5 obs.

% JAN 20, 1994 14h 11m 08.51± 1.34s



41.353 N  $\pm$  15.1km 24.301 E  $\pm$  6.5km  
 DEPTH = 5.0km (geophysicist)  
 GREECE-BULGARIA BORDER REGION (363)  
 ML 2.2 (THE).

SRS	0.58	246	ePg	11	19.74	-0.5
			eSg	11	29.14	
SOH	0.89	234	ePg	11	26.34	0.2
			eSg	11	39.98	
OUR	1.05	193	ePg	11	28.74	0.0
			eSg	11	44.14	
KNT	1.08	260	ePg	11	29.18	0.0
			eSg	11	46.62	
ALN	1.39	109	ePb	11	34.50	-0.1
			eSb	11	54.10	
GRG	1.49	255	ePb	11	36.30	0.3
			eSb	11	57.98	

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

% JAN 20, 1994 14h 17m 30.53  $\pm$  0.80s  
 44.263 N  $\pm$  5.5km 8.219 E  $\pm$  6.1km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.8 (GEN).

FIN	0.05	188	P	17	32.54	0.4
			S	17	33.77	
ROB	0.25	277	P	17	36.25	0.6
			S	17	39.86	
PCP	0.36	40	P	17	37.80	-0.1
			S	17	42.56	
IMI	0.43	214	P	17	38.58	-0.5
			S	17	44.71	
ENR	0.58	267	P	17	41.87	-0.2
			S	17	49.89	
PZZ	0.84	287	P	17	47.00	-0.3
			S	17	57.61	
BHB	0.90	311	P	17	48.19	0.0

S.D. = 0.5 on 7 of 7 obs.

& JAN 20, 1994 14h 19m 14.17s  
 34.369 N 118.525 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.6 (GS).

LHU	0.32	17	P	19	20.52	0.0
MWC	0.41	110	P	19	22.53	0.1
JNH	0.48	80	P	19	23.34	-0.4
TPO	0.56	26	P	19	25.14	-0.3
FTC	0.58	329	P	19	25.43	-0.4
LJB	0.60	68	P	19	25.48	-0.7
SBB	0.66	61	P	19	26.52	-0.8
SSK	0.71	103	ePc	19	27.62	-0.7
RYS	0.74	292	P	19	28.72	-0.1
ELMC	0.75	78	P	19	28.21	-0.9
ABL	0.75	310	ePd	19	28.17	-0.9
SNDC	0.79	13	P	19	29.21	-0.8
ARVC	0.80	342	P	19	29.15	-0.9
TEJ	0.87	351	P	19	29.26	-2.3
CALC	0.87	33	P	19	30.68	-0.9
MARC	0.92	314	P	19	31.54	-1.0
WJPM	1.04	2	P	19	33.52	-1.3
DTP	1.06	32	P	19	33.79	-1.3
TMB	1.10	311	P	19	34.95	-0.8
ELS	1.16	128	P	19	35.29	-1.6
WOFM	1.17	353	P	19	35.91	-1.2
WBSM	1.21	15	P	19	36.72	-1.0
CFT	1.22	105	P	19	36.77	-1.0
PEC	1.23	112	iPc	19	36.23	-1.7
			S	19	53.09	
ISA	1.29	2	eP	19	37.27	-1.8
BLKC	1.29	56	P	19	38.18	-0.9
CRGC	1.32	312	P	19	38.72	-0.8
WORM	1.34	10	P	19	39.40	-0.6
SIL	1.41	90	P	19	40.75	-0.3
SCCM	1.47	293	P	19	41.22	-0.8
POB	1.49	117	P	19	40.10	-2.3
XMS	1.50	40	P	19	41.59	-0.9
BCH	1.52	303	eP	19	41.42	-1.4
WSHM	1.52	34	P	19	41.10	-1.6
WCHM	1.55	14	P	19	42.52	-0.9
YEG	1.59	312	P	19	42.68	-1.0
CLC	1.63	28	P	19	44.95	0.6
VPDM	1.68	20	P	19	44.43	-0.7
GSC	1.69	56	eP	19	43.93	-1.3
PLM	1.72	126	eP	19	43.36	-2.3

RCWM	1.73	24	P	19	44.82	-1.0
WLHM	1.79	6	P	19	46.72	-0.1
PHAM	2.12	314	eP	19	49.62	-1.8
PSAM	2.54	311	P	20	03.93	6.5
BTW	2.76	315	P	20	01.95	1.4
PAPM	2.79	304	P	19	57.77	-3.2
BHPR	2.92	1	P	20	07.98	4.9
BMSM	2.94	322	P	20	01.25	-1.9
MTUM	2.98	359	eP	20	03.55	-0.2
TPNV	3.17	35	eP	20	05.32	-1.1
MMPM	3.26	353	eP	20	08.22	0.3
MRCM	3.30	0	(P)	20	12.00	3.7
MEMM	3.31	354	eP	20	09.11	0.9
GLA	3.35	112	eP	20	08.12	-0.8
SAO	3.37	316	eP	20	06.51	-2.7
BONR	3.58	3	eP	20	14.60	2.2
ARN	3.85	321	eP	20	14.56	-1.5
COE	3.85	319	(P)	20	13.89	-2.2
TNP	3.85	16	eP	20	17.02	0.8
CMB	3.96	338	eP	20	15.07	-2.4
KVN	4.69	4	(P)	20	29.81	1.8
ARUT	5.35	49	eP	20	37.83	0.4

62 obs. associated

% JAN 20, 1994 14h 42m 16.41  $\pm$  1.76s  
 39.948 N  $\pm$  14.9km 24.403 E  $\pm$  8.5km  
 DEPTH = 5.0km (geophysicist)

AEGEAN SEA (365)

OUR	0.50	320	ePg	42	26.92	0.4
PAIG	0.56	268	iPg	42	27.36	-0.2
			eSg	42	37.08	
SOH	1.19	318	ePb	42	39.28	0.3
			eSb	42	56.32	
SRS	1.32	332	ePb	42	40.03	-1.3
			eSb	43	00.38	
ALN	1.57	52	ePb	42	45.04	0.0
			eSb	43	07.84	
KNT	1.67	317	ePb	42	47.64	1.2
			eSb	43	10.72	
GRG	1.83	304	ePb	42	48.32	-0.5
			eSb	43	13.32	

S.D. = 1.0 on 7 of 7 obs.

& JAN 20, 1994 15h 05m 34.23s  
 34.314 N 118.436 W  
 DEPTH = 6.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.1 (GS).

SSK	0.62	99	ePd	05	45.90	-0.9
RYS	0.82	294	P	05	50.11	-0.6
BMT	0.83	351	P	05	49.43	-1.3
PLEC	0.84	322	P	05	50.80	0.0
ABL	0.84	310	ePc	05	49.56	-1.4
ARVC	0.87	338	P	05	50.66	-0.7
TEJ	0.94	347	P	05	49.70	-2.8
MARC	1.01	313	P	05	53.20	-0.5
PEC	1.14	111	eP	05	54.75	-1.2
WOFM	1.24	350	P	05	57.47	-0.2
WBSM	1.24	11	P	05	57.32	-0.5
ISA	1.35	359	ePd	05	58.40	-1.0
CRGC	1.41	312	P	06	00.13	-0.3
WASM	1.42	356	P	06	01.85	1.0
WSHM	1.53	30	P	06	01.11	-1.0
SCCM	1.56	294	P	06	03.44	0.9
TOW	1.59	20	P	06	04.27	1.3
WCHM	1.59	11	P	06	04.44	1.2
BCH	1.61	303	eP	06	02.20	-1.1
PLM	1.62	126	(P)	06	02.48	-1.1
GSC	1.67	53	eP	06	03.30	-0.8
VPDM	1.71	17	P	06	06.11	1.3
RCWM	1.76	21	P	06	06.80	1.4
WLHM	1.84	3	P	06	08.19	1.4
MTUM	3.03	358	(P)	06	27.30	3.5
TPNV	3.18	33	eP	06	25.40	-0.4
GLA	3.26	112	(P)	06	28.45	1.5
MMPM	3.32	352	(P)	06	30.40	2.3
MEMM	3.37	353	(P)	06	29.83	1.5
BONR	3.64	2	eP	06	40.36	7.9
TNP	3.89	14	(P)	06	42.72	6.8
CMB	4.03	338	(P)	06	38.33	0.5

32 obs. associated

? JAN 20, 1994 15h 23m 56.75  $\pm$  0.96s  
 26.442 S  $\pm$  9.2km 27.262 E  $\pm$  8.5km  
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

KSR	0.66	330	eP	24	10.00	0.0
			S	24	20.00	
SLR	1.16	53	eP	24	19.00	0.1
			S	24	31.00	
BFT	2.61	74	eP	24	40.50	-0.1
			S	25	14.00	
BOSA	2.71	217	eP	24	41.80	0.0
			S	25	16.60	

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

? JAN 20, 1994 15h 32m 19.29  $\pm$  0.95s  
 39.643 N  $\pm$  7.2km 29.447 E  $\pm$  8.7km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.5 (ISK).

DST	0.63	267	ePg	32	32.00	0.0
			eSg	32	42.70	
IZI	0.69	2	iPg	32	33.30	0.1
			eSg	32	43.30	
ALT	0.78	139	ePg	32	35.00	0.0
			eSg	32	46.00	
YLV	0.92	356	ePn	32	37.30	-0.2

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

% JAN 20, 1994 15h 38m 39.44  $\pm$  0.81s  
 26.343 S  $\pm$  7.3km 27.485 E  $\pm$  8.0km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.4 (PRE).

KSR	0.71	312	eP	38	53.50	-0.2
			S	39	03.00	
SLR	0.94	50	eP	38	58.00	0.1
			S	39	10.00	
SEK	1.98	176	eP	39	13.90	-0.2
			S	39	37.50	
SWZ	2.10	246	eP	39	16.30	0.4
			S	39	40.90	
BOSA	2.91	219	eP	39	27.20	-0.1
			S	40	02.90	

S.D. = 0.3 on 5 of 5 obs.

& JAN 20, 1994 15h 42m 33.23s  
 40.496 N 124.828 W  
 DEPTH = 23.2km  
 4.1mb ( 2 obs.)  
 NEAR COAST OF NORTHERN CALIF. (35)  
 <GM-P>. MD 4.2 (GM). ML 4.6  
 (BRK). 4.2 (GS). Felt (IV) at  
 Ferndale, Fortuna, Loleta and  
 Petrolia; (III) at Redcrest, Rio  
 Dell, Samoa and Weott; (II) at  
 Arcata, Carlotta and Myers Flat.  
 Also felt at Eureka,  
 Garberville, Honeydew and  
 McKinleyville.



20d 15h

ORV	2.72	109	ePd	43	13.80	-2.7
			eS	43	43.70	
NBPM	2.73	131	P	43	15.52	-1.1
AVRM	3.11	117	P	43	19.34	-2.6
AFRM	3.18	121	P	43	20.73	-2.2
BKS	3.30	142	ePd	43	21.98	-2.7
			eS	43	58.50	
HMR	3.31	134	eP	43	23.73	-1.1
JEGM	3.50	147	eP	43	24.19	-3.3
MSJ	3.76	141	P	43	28.78	-2.4
SEC	3.84	146	P	43	29.39	-2.9
JSMH	3.88	147	P	43	30.25	-2.6
MHR	3.94	142	P	43	31.23	-2.5
CMMH	4.00	138	P	43	32.77	-1.8
MHC	4.01	141	ePd	43	32.21	-2.6
			eS	44	17.84	
JSTM	4.05	143	P	43	32.08	-3.1
ARN	4.06	140	eP	43	32.75	-2.7
COE	4.06	142	eP	43	32.85	-2.6
JTGM	4.16	145	P	43	34.06	-2.8
PEV	4.22	145	P	43	34.74	-3.0
CMB	4.23	124	ePd	43	36.46	-1.5
CSR	4.35	143	P	43	36.14	-3.4
HCOM	4.35	145	P	43	35.93	-3.6
PCL	4.41	140	P	43	37.90	-2.5
MTR	4.51	149	P	43	38.54	-3.3
LTR	4.54	142	P	43	38.88	-3.3
SAO	4.57	144	eP	43	37.98	-4.7
BSRM	4.62	145	P	43	39.45	-4.0
BCGM	4.66	143	P	43	40.68	-3.3
BLRM	4.73	143	P	43	42.68	-2.3
BMSM	4.97	139	P	43	45.80	-2.5
LRV	5.05	142	P	43	48.16	-1.3
LRC	5.18	144	P	43	49.95	-1.4
MMPM	5.36	121	eP	43	52.47	-1.6
KVN	5.38	103	eP	43	51.50	-2.8
MEMM	5.38	120	(P)	43	53.65	-0.5
PTV	5.44	142	P	43	52.72	-2.3
BONR	5.67	115	eP	43	56.31	-2.2
MTUM	5.81	121	eP	43	58.90	-1.4
PHAM	5.82	142	eP	43	56.30	-4.0
VGB	5.83	29	eP	43	58.06	-2.4
SHW	6.00	17	eP	44	02.15	-0.8
BMW	6.09	10	eP	44	01.83	-2.3
TNP	6.38	110	eP	44	05.74	-2.6
BCH	6.50	143	eP	44	05.46	-4.5
LON	6.62	18	eP	44	09.84	-1.8
ISA	6.96	132	eP	44	14.68	-1.7
ABL	7.18	140	eP	44	15.40	-4.2
TPNV	7.58	115	eP	44	23.31	-1.9
GSC	8.19	127	eP	44	31.97	-1.7
SSK	8.46	136	eP	44	35.45	-2.1
PEC	8.99	135	eP	44	42.06	-2.6
DUG	9.18	88	eP	44	45.31	-2.1
HVU	9.19	78	eP	44	46.27	-1.2
ARUT	9.25	103	eP	44	44.79	-3.6
PLM	9.56	136	eP	44	48.59	-4.1
MSU	9.98	97	eP	44	56.64	-1.9
LRM	10.49	55	eP	45	03.10	-2.4
EMUT	10.75	89	eP	45	07.24	-1.9
GLA	10.93	130	eP	45	08.47	-2.8
SRU	11.09	93	eP	45	13.61	-0.1
BW06	11.66	74	eP	45	20.56	-0.8
PV09	12.29	94	eP	45	30.53	0.5
PV10	12.39	95	eP	45	30.13	-1.2
PV08	12.64	94	eP	45	34.02	-0.7
TUC	13.94	121	eP	45	49.44	-2.2
	0.6s	2.45nm			4.1mb	
LTX	20.57	116	eP	47	11.93	-1.1
WMOK	21.38	97	eP	47	17.44	-3.8
	0.7s	5.84nm			4.1mb	
MEO	21.51	97	iPc	47	18.90	-3.6
LPZ	77.18	125	P	54	26.20	-1.5
LPB	77.39	125	eP	54	26.00	-2.6
	94 obs. associated					

JAN 20, 1994 15h 56m 42.31± 0.29s  
44.554 N ± 2.0km 7.322 E ± 3.1km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.3 (GEN), 1.8 (STR).

PZZ	0.17	253	P	56	45.81	0.0
			S	56	47.64	
BHB	0.29	352	P	56	48.78	0.6
			S	56	52.81	
S	0.31	180	P	56	48.73	0.1

ENR	0.33	168	P	56	52.53	
			S	56	48.96	-0.1
ROB	0.47	123	P	56	53.27	
			S	56	52.08	0.3
RRL	0.53	314	P	56	58.12	
			S	56	52.93	0.0
TOUF	0.54	186	Pg	56	59.40	
AUTN	0.56	172	Pg	56	53.20	0.0
			Sg	56	53.67	0.0
SAOF	0.59	163	Pg	56	51.61	
			Sg	56	54.34	0.2
RSP	0.60	356	P	56	52.18	
			S	56	54.04	-0.3
AURF	0.67	180	Pg	56	51.91	
MVIF	0.67	191	Pg	56	55.37	-0.3
			Sg	56	55.69	0.0
FIN	0.72	118	P	56	57.27	
			S	56	55.56	-0.2
IMI	0.76	147	P	56	57.06	
			S	56	57.61	0.0
CALN	0.86	201	Pg	56	57.34	
PCP	0.87	90	P	56	59.47	0.0
			S	56	59.54	-0.1
LSD	0.91	353	P	56	57.10	
			S	56	57.00	-0.3
	S.D. = 0.2	on	17	of	17 obs.	

? JAN 20, 1994 16h 22m 26.58± 0.89s  
44.456 N ± 8.0km 7.277 E ± 8.8km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.7 (GEN).

PZZ	0.14	291	P	22	29.48	0.0
			S	22	31.26	
ENR	0.25	156	P	22	31.68	0.0
			S	22	34.84	
BHB	0.39	359	P	22	34.33	0.0
			S	22	39.50	
ROB	0.45	111	P	22	35.73	0.0
			S	22	42.24	
	S.D. = 0.0	on	4	of	4 obs.	

& JAN 20, 1994 16h 37m 41.64s  
34.252 N 118.464 W  
DEPTH = 11.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.3 (GS).

SSK	0.64	93	ePd	37	53.49	-1.0
FTC	0.71	330	P	37	54.54	-1.1
RYS	0.83	298	P	37	56.84	-0.9
ABL	0.86	314	ePc	37	56.77	-1.6
PLEC	0.87	325	P	37	57.75	-0.6
BMTc	0.89	353	P	37	57.68	-1.0
ARVC	0.92	341	P	37	58.38	-0.8
TEJ	0.99	349	P	37	58.22	-2.2
MARC	1.04	316	P	38	00.35	-0.8
LPC	1.06	284	P	38	00.59	-1.0
PEC	1.14	108	eP	38	01.54	-1.4
WJPM	1.16	359	P	38	02.66	-0.6
TMB	1.21	314	P	38	03.57	-0.6
WOFM	1.30	351	P	38	04.94	-0.7
WBSM	1.31	12	P	38	05.09	-0.8
ISA	1.41	360	iPc	38	06.32	-0.9
CRGC	1.43	314	P	38	06.50	-1.1
WASM	1.48	357	P	38	08.00	-0.4
SCCM	1.57	296	P	38	08.26	-1.2
WSHM	1.59	30	P	38	08.60	-1.2
PLM	1.61	123	eP	38	08.44	-1.7
BCH	1.63	305	eP	38	09.01	-1.4
TOW	1.66	20	P	38	10.13	-0.6
GSC	1.72	52	eP	38	10.88	-0.9
VPEM	1.77	17	P	38	14.80	2.2
RCWM	1.82	21	P	38	12.38	-0.8
MTUM	3.10	359	(P)	38	31.41	-0.1
TPNV	3.24	33	eP	38	32.16	-1.4
GLA	3.26	111	(P)	38	31.97	-1.8
MMPM	3.38	352	(P)	38	41.28	5.6
MEMM	3.43	354	(P)	38	40.37	4.4
BONR	3.70	2	(P)	38	45.02	4.8
ARUT	5.39	48	eP	39	04.21	0.2
	33 obs. associated					

& JAN 20, 1994 16h 41m 56.10s  
34.367 N 118.464 W  
DEPTH = 1.1km

SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 2.8 (PAS), 2.8 (GS).

SSK	0.66	104	eP	42	08.64	-0.6
PEC	1.18	113	eP	42	17.48	-1.5
			eS	42	34.15	
ISA	1.29	360	eP	42	19.30	-1.6
BCH	1.56	302	eP	42	24.18	-1.0
GSC	1.65	55	eP	42	24.99	-1.5
PLM	1.67	127	eP	42	24.04	-2.8
TPNV	3.14	34	(P)	42	46.96	-0.9
BONR	3.58	2	ePg	43	02.25	8.0
	8 obs. associated					

? JAN 20, 1994 17h 18m 08.38± 4.95s  
39.561 N ±25.0km 19.879 E ±35.2km  
DEPTH = 5.0km (geophysicist)  
GREECE-ALBANIA BORDER REGION (392)  
ML 2.7 (THE).

IGT	0.35	94	ePg	18	15.04	-0.4
			eSg	18	18.52	
FNA	1.68	43	ePb	18	39.44	0.9
			eSb	18	59.20	
OHR	1.70	24	ePn	18	37.70	-1.2
AGG	1.98	105	iPb	18	43.32	0.4
			eSb	19	08.04	
LIT	2.08	74	ePb	18	43.60	-0.8
			iSb	19	07.60	
SKO	2.68	26	ePn	18	53.00	0.0
VAY	2.70	49	ePn	18	54.40	1.1
	S.D. = 1.1	on	7	of	7 obs.	

% JAN 20, 1994 17h 29m 28.17± 0.67s  
44.549 N ± 5.6km 7.312 E ± 5.3km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

PZZ	0.16	254	P	29	31.38	-0.1
			S	29	33.35	
BHB	0.29	353	P	29	34.26	0.1
			S	29	38.38	
ENR	0.33	166	P	29	35.09	0.2
			S	29	39.25	
ROB	0.47	122	P	29	38.20	0.5
			S	29	44.29	
FIN	0.73	118	P	29	42.41	-0.3
			S	29	52.11	
IMI	0.76	147	P	29	43.28	-0.2
PCP	0.88	90	P	29	45.38	-0.2
	S.D. = 0.4	on	7	of	7 obs.	

& JAN 20, 1994 17h 36m 40.62s  
34.214 N 118.610 W  
DEPTH = 14.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK	0.76	90	eP	36	54.57	-0.7
ABL	0.81	322	eP	36	54.77	-1.4
PEC	1.25	105	eP	37	01.88	-1.5
			eS	37	19.22	
ISA	1.45	4	eP	37	05.47	-1.0
BCH	1.55	309	eP	37	07.22	-0.7
PLM	1.69	120	eP	37	08.82	-1.2
GSC	1.84	53	ePn	37	11.04	-1.1
TPNV	3.34	35	(Pn)	37	32.39	-1.2
BONR	3.74	4	ePg	37	50.53	11.1
	9 obs. associated					

\* JAN 20, 1994 17h 38m 42.60± 0.83s  
24.078 N ± 9.7km



eS 42 33.50				PLEC 0.75 323 P 48 22.20 -0.1				DEPTH = 10.0km (geophysicist)			
GYA 13.85 283 P 42 00.40 1.5				ABL 0.75 309 ePc 48 21.38 -1.0				OFF COAST OF OREGON (30)			
XAN 14.96 314 P 42 13.00 -0.4				BMTc 0.76 355 P 48 21.57 -1.1							
0.8s 3.40nm 3.7mb				ARVC 0.79 341 P 48 22.32 -0.9				RNO 3.17 81 P 51 10.57 -0.5			
pP 42 16.50				MARC 0.92 313 P 48 24.79 -1.1				DBO 3.54 94 P 51 16.29 -0.1			
BJI 16.59 345 eP 42 49.00 14.8X				LPC 1.00 277 P 48 25.90 -1.4				HSO 3.62 87 Pc 51 17.40 -0.2			
1.2s 8.00nm				WJPM 1.03 2 P 48 27.81 -0.1				KMOR 3.92 55 P 51 21.07 -0.8			
CD2 17.33 297 eP 42 47.00 3.3X				TMB 1.10 310 P 48 28.20 -0.9				BBOR 3.98 97 P 51 23.03 0.2			
HHC 18.77 335 eP 43 05.00 3.5X				WOFM 1.17 352 P 48 29.55 -0.7				HBO 4.18 83 Pd 51 26.01 0.3			
1.0s 6.00nm 3.8mb				WBSM 1.20 15 P 48 29.77 -1.1				NLO 4.20 50 Pc 51 25.58 -0.2			
BTO 19.19 332 eP 43 08.20 1.8				PEC 1.22 113 ePc 48 29.35 -1.7				SSOR 4.26 69 Pd 51 27.05 0.3			
LZH 19.53 312 eP 43 10.00 -0.5				ISA 1.29 1 ePd 48 30.84 -1.4				GT2 4.48 66 P 51 30.23 0.4			
1.5s 32.00nm 4.4mb				CRGC 1.32 311 P 48 31.86 -0.9				BMW 4.56 47 eP 51 29.76 -1.1			
CN2 19.91 8 eP 43 16.30 2.1				WORM 1.34 10 P 48 32.97 -0.1				RVW 4.64 53 P 51 31.86 -0.1			
CHTO 21.84 261 eP 43 35.40 1.2				WASM 1.36 359 P 48 33.66 0.1				VLMW 4.78 62 P 51 33.91 -0.2			
GTA 24.02 315 eP 43 57.00 1.5				WSHM 1.51 33 P 48 34.45 -1.4				LVP 4.79 55 P 51 34.55 0.3			
1.4s 12.00nm 4.2mb				BCH 1.52 302 ePc 48 34.51 -1.6				MTMW 4.89 57 Pc 51 35.68 0.1			
pP 44 04.50 27kmX				NMC 1.55 19 P 48 37.06 0.7				SHW 4.96 55 eP 51 36.60 0.0			
LSA 27.80 288 P 44 32.90 1.6				WCHM 1.55 13 P 48 36.06 -0.5				HSR 4.98 55 P 51 37.44 0.5			
0.6s 8.90nm 4.6mb				TOW 1.56 23 P 48 37.32 0.8				ESD 5.01 55 P 51 37.62 0.2			
WRA 45.44 163 P 46 59.80 -0.6				GSC 1.68 56 eP 48 37.08 -1.2				CDFW 5.03 56 Pd 51 37.86 0.3			
0.5s 1.80nm 4.2mb				PLM 1.71 126 eP 48 36.24 -2.6				SOSW 5.04 55 P 51 38.57 0.8			
WB2 45.45 163 iPc 46 59.60 -0.8				RCWM 1.72 24 P 48 37.86 -1.0				TDL 5.05 53 P 51 38.18 0.2			
0.5s 3.40nm 4.5mb				WLHM 1.78 5 P 48 40.34 0.4				ASR 5.33 58 P 51 41.99 0.2			
WARB 50.19 174 iPd 47 36.50 -0.8				PHAM 2.12 314 (P) 48 42.92 -1.7				LON 5.51 51 eP 51 43.93 -0.4			
0.3s 2.00nm 4.6mb				MTUM 2.97 359 ePn 48 56.17 -0.8				REMR 5.53 51 P 51 44.86 0.1			
KLU 70.24 31 ePc 49 54.86 0.6				TPNV 3.16 35 eP 48 58.34 -1.2				VGB 5.60 66 eP 51 45.01 -0.6			
S.D. = 1.5 on 16 of 19 obs.				MMPM 3.25 353 eP 49 02.52 1.5				GL2 5.73 62 Pc 51 47.26 -0.2			
				MRCM 3.29 0 (P) 49 03.96 2.5				JCW 6.37 40 Pd 51 56.84 0.3			
& JAN 20, 1994 17h 49m 11.83s				MEMM 3.30 354 eP 49 04.05 2.7				ETW 6.82 50 P 52 02.99 0.1			
42.273 N 121.908 W				GLA 3.34 112 eP 49 01.77 -0.3				S.D. = 0.4 on 27 of 27 obs.			
DEPTH = 7.5km				BONR 3.58 3 ePg 49 13.10 7.5							
OREGON (32)				TNP 3.84 15 (P) 49 11.86 2.5				? JAN 20, 1994 20h 28m 03.39± 2.40s			
<SEA-P>. MD 2.9 (SEA). ML 2.9				ARN 3.85 321 eP 49 03.36 -5.9				32.520 S ±12.3km 71.735 W ±19.6km			
(GS).				COE 3.85 319 (P) 49 07.67 -1.6				DEPTH = 33.0km (normal)			
				CMB 3.95 338 (P) 49 10.98 0.3				NEAR COAST OF CENTRAL CHILE (135)			
				ARUT 5.34 49 eP 49 30.08 -0.4				MD 4.0 (SAN).			
				40 obs. associated							
				& JAN 20, 1994 18h 56m 01.34s				IHA 0.51 171 eP 28 13.50 -0.7			
				34.321 N 118.426 W				eS 28 24.30			
				DEPTH = 5.9km				ROCH 0.76 127 iP 28 16.85 -1.0			
				SOUTHERN CALIFORNIA (43)				iS 28 30.64			
				<PAS-P>. ML 2.9 (PAS), 3.2 (GS).				LCCH 0.96 172 iPd 28 20.09 -0.5			
								iS 28 36.30			
								JACH 0.98 100 iP 28 19.15 -1.7			
								iS 28 34.39			
								PEL 1.08 125 iP 28 22.06 -0.2			
								iS 28 39.36			
								SAN 1.30 136 iP+ 28 25.86 0.5			
								iS 28 45.95			
								TACH 1.31 150 iP 28 26.12 0.5			
								FCH 1.46 124 iPd 28 27.98 0.0			
								iS 28 50.74			
								LNv 1.46 169 eP 28 27.08 -0.5			
								iS 28 50.70			
								PCH 1.50 137 iP+ 28 28.87 0.5			
								CHCH 1.68 148 iP+ 28 31.52 0.6			
								iS 28 57.81			
								CACH 1.86 149 iP 28 34.73 1.2			
								iS 29 01.99			
								RTCB 2.70 68 e(P) 28 46.50 1.0			
								(S) 29 25.00			
								RTLl 3.02 68 e(P) 28 50.00 0.0			
								(S) 29 29.00			
								S.D. = 0.9 on 14 of 14 obs.			
				& JAN 20, 1994 18h 10m 40.89s				& JAN 20, 1994 20h 42m 24.89s			
				34.300 N 118.437 W				34.285 N 118.564 W			
				DEPTH = 5.2km				DEPTH = 9.5km			
				SOUTHERN CALIFORNIA (43)				SOUTHERN CALIFORNIA (43)			
				<PAS-P>. ML 2.6 (PAS), 2.7 (GS).				<PAS-P>. ML 2.9 (PAS), 3.0 (GS).			



20d 20h

BCH 1.54 306 eP 42 51.41 -1.2  
 WSHM 1.61 33 P 42 52.40 -1.1  
 WCHM 1.64 14 P 42 52.72 -1.5  
 TOW 1.66 23 P 42 53.86 -0.3  
 PLM 1.69 123 eP 42 53.74 -1.2  
 GSC 1.77 54 eP 42 54.19 -1.7  
 RCWM 1.82 24 P 42 58.70 2.0  
 WLHM 1.87 6 P 42 59.52 1.9  
 MTUM 3.06 0 (P) 43 15.02 0.6  
 TPNV 3.26 35 (P) 43 15.55 -1.7  
 MMPM 3.34 354 (P) 43 19.88 1.3  
 BONR 3.67 3 (P) 43 25.96 2.7  
 27 obs. associated

& JAN 20, 1994 20h 45s 29.21s  
 34.287 N 118.155 W  
 DEPTH = 10.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK 0.72 96 eP 45 42.43 -1.0  
 ABL 0.79 316 eP 45 43.01 -1.6  
 eS 45 55.06  
 PEC 1.22 108 eP 45 50.56 -1.4  
 ISA 1.37 3 eP 45 53.36 -1.0  
 BCH 1.55 306 eP 45 55.20 -1.7  
 eS 46 17.53  
 GSC 1.76 54 eP 45 59.38 -0.6  
 MTUM 3.06 360 ePg 46 24.72 6.1  
 TPNV 3.25 35 (P) 46 20.36 -1.0  
 BONR 3.67 3 ePg 46 35.78 8.4  
 9 obs. associated

& JAN 20, 1994 20h 48m 39.10s  
 34.245 N 118.596 W  
 DEPTH = 20.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.2 (GS).

FTC 0.67 339 P 48 51.34 -0.7  
 RYS 0.74 303 P 48 52.80 -0.5  
 SSK 0.75 92 ePd 48 52.93 -0.5  
 ABL 0.79 320 ePd 48 53.09 -1.2  
 PLEC 0.82 332 P 48 54.47 -0.1  
 ARVC 0.90 348 P 48 55.43 -0.5  
 LPC 0.96 285 P 48 56.32 -0.7  
 MARC 0.97 321 P 48 56.75 -0.4  
 TEJ 0.99 356 P 48 56.04 -1.4  
 PEC 1.24 106 eP 49 00.24 -1.1  
 eS 49 16.90

WOFM 1.29 356 P 49 02.00 -0.1  
 WBSM 1.34 16 P 49 02.74 -0.2  
 ISA 1.42 4 eP 49 03.33 -0.5  
 WORM 1.48 11 P 49 05.59 0.9  
 WASM 1.49 1 P 49 05.86 0.8  
 BCH 1.54 308 eP 49 05.08 -0.6  
 WSHM 1.66 33 P 49 06.40 -0.9  
 WCHM 1.69 15 P 49 07.44 -0.5  
 PLM 1.70 121 eP 49 08.74 0.7  
 TOW 1.70 23 P 49 11.46 3.5  
 GSC 1.81 54 eP 49 08.93 -0.7  
 RCWM 1.87 24 P 49 10.00 -0.4  
 WLHM 1.92 7 P 49 13.55 2.2  
 TPNV 3.31 35 (Pn) 49 30.39 -0.6  
 GLA 3.36 110 (Pn) 49 33.91 2.3  
 BONR 3.71 4 ePg 49 46.71 9.9  
 26 obs. associated

JAN 20, 1994 21h 34m 06.02± 0.28s  
 44.561 N ± 2.0km 7.326 E ± 3.3km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.6 (GEN), 2.1 (STR).

PZZ 0.17 251 Pd 34 09.63 -0.3  
 S 34 11.53  
 BHB 0.28 351 P 34 12.49 0.5  
 S 34 16.74  
 STV 0.32 180 P 34 12.48 -0.2  
 S 34 16.64  
 ENR 0.34 169 P 34 12.74 -0.4  
 S 34 17.16  
 ROB 0.47 124 P 34 15.84 0.2  
 S 34 22.18  
 RRL 0.53 313 P 34 16.56 -0.2  
 S 34 23.74  
 TOUF 0.55 186 Pg 34 17.24 0.0

AUTN 0.57 173 Pg 34 17.56 -0.2  
 RSP 0.59 355 P 34 17.79 -0.3  
 S 34 25.67  
 SAOF 0.60 164 Pg 34 17.84 -0.3  
 Sg 34 26.08  
 AURF 0.67 180 Pg 34 19.37 -0.1  
 MVIF 0.68 191 Pg 34 19.60 0.1  
 SBF 0.70 174 Pg 34 20.03 0.1  
 Sg 34 29.52  
 FIN 0.72 119 P 34 20.18 -0.1  
 S 34 29.71  
 IMI 0.77 148 P 34 20.77 -0.3  
 S 34 30.73  
 REVf 0.82 178 Pg 34 22.65 0.7  
 CALN 0.87 201 Pg 34 23.43 0.6  
 PCP 0.87 91 P 34 23.20 0.4  
 S 34 34.87  
 LSD 0.91 352 P 34 24.19 0.7  
 S 34 35.95  
 ORX 1.17 23 P 34 27.07 -0.8  
 S.D. = 0.4 on 20 of 20 obs.

\* JAN 20, 1994 21h 49m 30.74± 0.76s  
 24.014 S ± 7.6km 66.746 W ±15.6km  
 DEPTH = 207.4 ± 9.8 km  
 4.3mb (1 obs.)

SALTA PROVINCE, ARGENTINA (129)

MOCB 2.93 21 P 50 22.30 1.4  
 RTPR 6.27 178 e(P) 51 02.00 -0.2  
 LPB 7.55 350 iPc 51 20.10 0.6  
 S 52 44.00  
 CFA 7.68 190 e(P) 51 20.90 0.1  
 LPAZ 7.80 350 iPc 51 22.40 -0.6  
 S 52 47.60  
 ARE 8.73 328 eP 51 33.00 -1.7  
 eS 53 06.00  
 VAO 18.17 91 eP 53 29.40 -1.1  
 PV08 73.61 327 eP 00 44.47 1.2  
 YKA 94.22 340 P 02 26.30 -0.3  
 0.6s 1.30nm 4.3mb  
 WRA 131.72 207 PKP 08 22.50 1.4  
 0.5s 0.70nm  
 GBA 144.64 100 PKP 08 44.00 -0.8  
 S.D. = 1.2 on 11 of 11 obs.

& JAN 20, 1994 22h 04m 44.57s  
 34.256 N 118.461 W  
 DEPTH = 11.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.5 (PAS), 3.7 (GS).

SSK 0.64 94 ePd 04 56.40 -1.0  
 FTC 0.71 330 P 04 57.43 -1.1  
 ABL 0.86 314 iPc 04 59.64 -1.6  
 PLEC 0.87 325 P 05 00.60 -0.7  
 LPC 1.06 283 P 05 03.16 -1.4  
 PEC 1.14 108 ePc 05 04.29 -1.5  
 TMB 1.21 313 P 05 06.25 -0.9  
 ISA 1.40 360 iPc 05 09.17 -1.0  
 eS 05 27.37  
 CRGC 1.43 314 P 05 09.19 -1.4  
 WASM 1.48 357 P 05 10.69 -0.6  
 PLM 1.61 124 eP 05 11.20 -1.9  
 BCH 1.63 305 ePc 05 11.81 -1.5  
 NMC 1.65 16 P 05 14.35 0.7  
 WCHM 1.65 11 P 05 12.71 -1.2  
 GSC 1.72 52 eP 05 13.77 -0.9  
 WLHM 1.90 4 P 05 16.71 -0.7  
 PTRM 2.00 315 P 05 17.45 -1.3  
 PHAM 2.24 315 eP 05 20.26 -1.9  
 PANM 2.52 308 P 05 23.53 -2.5  
 PJLM 2.87 310 P 05 28.09 -2.9  
 LRV 3.01 317 P 05 31.06 -2.0  
 MTUM 3.09 358 eP 05 34.01 -0.4  
 TPNV 3.24 33 ePn 05 35.56 -0.9  
 GLA 3.26 111 ePn 05 37.50 0.8  
 MMPM 3.38 352 (Pn) 05 39.87 1.3  
 MRCM 3.41 359 (Pn) 05 39.92 1.0  
 MEMM 3.43 354 ePn 05 38.88 0.0  
 ePg 05 47.12  
 BPRM 3.43 310 P 05 35.79 -3.2  
 BVYM 3.46 317 P 05 36.93 -2.6  
 FRP 3.51 316 P 05 36.61 -3.6  
 BONR 3.69 2 ePn 05 42.50 -0.6  
 HCOM 3.73 316 P 05 40.70 -2.6  
 CBO 3.88 318 P 05 42.47 -2.9

EUC 3.90 317 P 05 48.45 2.7  
 TNP 3.95 14 ePn 05 46.45 -0.1  
 ARN 3.97 322 eP 05 43.85 -2.9  
 CMB 4.08 338 eP 05 46.14 -2.1  
 ARUT 5.38 48 ePn 06 06.31 -0.6  
 ePg 06 23.07  
 MSU 6.61 48 (Pn) 06 24.96 0.6  
 DUG 7.44 36 ePg 07 02.40 26.6  
 40 obs. associated

% JAN 20, 1994 22h 38m 18.01± 1.07s  
 34.196 S ±12.9km 70.534 W ±13.4km  
 DEPTH = 110.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.8 (SAN).

CACH 0.10 325 iP 38 33.77 0.1  
 iS 38 45.44  
 CHCH 0.28 339 iPd 38 33.83 -0.2  
 iS 38 45.62  
 PCH 0.57 2 iPd 38 35.78 0.1  
 iS 38 48.73  
 TACH 0.64 328 iP 38 36.08 0.0  
 iS 38 49.64  
 SAN 0.75 352 iPd 38 37.06 0.0  
 iS 38 51.53  
 LNV 0.77 288 iPd 38 37.18 0.0  
 iS 38 51.21  
 FCH 0.89 13 iPd 38 38.79 0.0  
 iS 38 54.68  
 PEL 1.06 353 iPd 38 40.25 0.1  
 iS 38 56.70  
 LCCH 1.12 310 iPd 38 40.77 0.0  
 iS 38 58.25  
 ROCH 1.28 342 iP 38 42.93 0.1  
 iS 39 02.03  
 JACH 1.51 358 iPd 38 45.32 -0.1  
 iS 39 05.91  
 S.D. = 0.1 on 11 of 11 obs.

% JAN 20, 1994 22h 40m 17.17± 3.15s  
 32.529 S ±18.3km 71.701 W ±22.6km  
 DEPTH = 33.0km (normal)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.9 (SAN).

IHA 0.50 174 e(P) 40 27.00 -0.7  
 eS 40 37.60  
 ROCH 0.73 127 iP 40 30.38 -0.9  
 (S) 40 43.22  
 JACH 0.95 100 iP+ 40 32.57 -1.7  
 iS 40 47.76  
 LCCH 0.95 173 iP+ 40 33.54 -0.6  
 iS 40 50.14  
 PEL 1.05 126 iP+ 40 35.61 -0.1  
 iS 40 52.74  
 TACH 1.29 150 iP 40 39.66 0.6  
 iS 41 01.28  
 FCH 1.43 124 iPd 40 41.40 0.1  
 iS 41 03.32  
 LNV 1.44 170 iP 40 41.22 0.0  
 iS 41 04.81  
 PCH 1.48 138 eP 40 42.35 0.6  
 (S) 41 07.31  
 CHCH 1.65 148 eP 40 44.82 0.5  
 iS 41 11.78  
 CACH 1.83 150 iP+ 40 48.20 1.2  
 (S) 41 18.96  
 CFA 3.08 74 e(P) 41 05.60 0.9  
 S.D. = 0.9 on 12 of 12 obs.

& JAN 20, 1994 22h 41m 01.73s  
 42.311 N 121.939 W  
 DEPTH = 5.8km  
 OREGON (32)  
 <SEA-P>. MD 2.8 (SEA).

LAB 0.10 245 Pc 41 04.27 0.1  
 VRC 0.21 277 P 41 06.24 0.2  
 S 41 10.07  
 HAMO 0.24 186 P 41 06.91 0.1  
 S 41 11.11  
 LASM 0.76 159 P 41 16.14 -1.0  
 BBOR 0.79 317 Pd 41 16.41 -1.3  
 LMPM 0.84 191 P 41 17.54 -0.9  
 LBFM 0.96 178 eP 41 19.74 -0.9  
 eS 41 33.03



LGBM 0.98 191 P 41 20.20 -0.8  
 DBO 1.26 310 P 41 24.67 -0.8  
 S 41 43.67  
 LBKM 1.34 204 P 41 25.70 -1.3  
 HSO 1.48 326 P 41 28.94 -0.1  
 S 41 49.15  
 NCOR 1.51 23 P 41 29.97 0.4  
 LGPM 1.55 206 eP 41 28.40 -1.6  
 HBO 1.56 350 P 41 30.30 0.1  
 LMEM 1.79 171 (P) 41 33.03 -0.6  
 VIPM 2.40 23 P 41 45.15 2.8  
 MPOR 2.49 332 P 41 45.17 1.6  
 VGB 3.31 14 (P) 41 53.85 -1.3  
 18 obs. associated

JAN 20, 1994 22h 41m 22.09± 0.28s  
 44.560 N ± 2.0km 7.320 E ± 3.2km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.7 (GEN).

PZZ 0.17 251 P 41 25.76 -0.2  
 S 41 27.96  
 BHB 0.28 352 P 41 28.60 0.5  
 S 41 32.68  
 STV 0.32 179 P 41 28.78 0.1  
 S 41 32.99  
 ENR 0.34 168 P 41 28.97 -0.2  
 S 41 33.59  
 ROB 0.48 124 P 41 31.80 0.0  
 S 41 38.53  
 RRL 0.53 314 P 41 32.81 0.0  
 S 41 40.14  
 TOUF 0.55 185 P 41 32.95 -0.3  
 Sg 41 41.21  
 AUTN 0.57 172 Pg 41 33.80 0.0  
 RSP 0.59 356 P 41 33.95 -0.2  
 S 41 41.74  
 SAOF 0.60 164 Pg 41 34.05 -0.1  
 Sg 41 41.41  
 AURF 0.67 180 Pg 41 35.43 -0.1  
 MVIF 0.67 190 Pg 41 35.54 0.0  
 Sg 41 45.17  
 FIN 0.73 119 P 41 36.20 -0.2  
 S 41 45.72  
 IMI 0.77 148 P 41 37.43 0.3  
 S 41 47.55  
 CALN 0.86 201 Pg 41 39.41 0.6  
 PCP 0.88 91 P 41 39.22 0.3  
 S 41 51.08  
 LSD 0.91 353 P 41 39.54 -0.1  
 S 41 51.58  
 ORX 1.17 23 P 41 43.62 -0.4  
 S.D. = 0.3 on 18 of 18 obs.

% JAN 20, 1994 22h 49m 58.55± 1.99s  
 11.374 N ± 7.2km 60.422 W ± 23.8km  
 DEPTH = 33.0km (normal)  
 WINDWARD ISLANDS (95)  
 MD 3.6 (TRN).

BOT 0.36 235 eP 50 06.26 -0.8  
 TBH 1.09 216 eP 50 17.50 0.0  
 eS 50 31.49  
 TRN 1.20 233 eP 50 18.63 -0.5  
 eS 50 31.92  
 GRW 1.44 303 eP 50 22.64 0.0  
 eS 50 36.93  
 TPP 1.46 224 eP 50 23.50 0.7  
 eS 50 36.93  
 TCE 1.47 243 eP 50 23.63 0.6  
 eS 50 39.10  
 SVB 2.05 337 eP 50 31.61 0.2  
 eS 50 55.76  
 SVV 2.08 338 eP 50 32.07 0.2  
 eS 50 56.78  
 SLB 2.51 346 eP 50 37.69 -0.3  
 eS 51 06.36  
 S.D. = 0.6 on 9 of 9 obs.

? JAN 20, 1994 22h 50m 42.56± 6.47s  
 32.330 S ± 42.0km 71.772 W ± 28.1km  
 DEPTH = 10.0km (geophysicist)  
 NEAR COAST OF CENTRAL CHILE (135)  
 MD 3.6 (SAN).

ROCH 0.91 135 iP 50 59.95 -0.1

JACH 1.06 110 iP 51 02.06 -0.5  
 iS 51 16.88  
 LCCCH 1.15 172 iP 51 03.11 -1.0  
 iS 51 19.37  
 PEL 1.22 132 iP+ 51 05.43 0.1  
 iS 51 22.08  
 TACH 1.49 152 iP 51 09.60 0.1  
 FCH 1.60 129 iP 51 10.64 -0.6  
 iS 51 33.31  
 LNV 1.65 170 iP 51 11.17 -0.5  
 iS 51 34.98  
 PCH 1.67 141 iP 51 12.09 0.1  
 CHCH 1.85 150 iP 51 15.43 0.7  
 iS 51 41.84  
 CACH 2.04 151 iP 51 18.96 1.6  
 S.D. = 0.8 on 10 of 10 obs.

\* JAN 20, 1994 23h 04m 36.48± 0.36s  
 3.877 S ± 6.3km 11.976 W ± 6.9km  
 DEPTH = 10.0km (geophysicist)  
 5.0mb ( 24 obs.) 4.9MsZ ( 4 obs.)  
 NORTH OF ASCENSION ISLAND (407)  
 Mw 5.3 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 21C  
 Centroid Location:  
 Origin Time 23:04:40.0 0.6  
 Lat 3.69S 0.06 Lon 11.77W 0.07  
 Dep 15.0 FIX Half-duration 1.7  
 Moment Tensor: Scale 10\*\*17 Nm  
 Mrr=-1.03 0.05 Mtt= 0.18 0.09  
 Mff= 0.86 0.05 Mrt= 0.19 0.18  
 Mrf= 0.35 0.30 Mtf= 0.03 0.05  
 Principal Axes:  
 T Val= 0.92 Plg=11 Azm=275  
 N 0.20 7 6  
 P -1.12 77 128  
 Best Double Couple: Mo=1.0\*10\*\*17  
 NP1: Strikes=356 Dip=35 Slip=-102  
 NP2: 191 56 -82

LIC 12.20 35 Pd 07 34.11 0.8  
 0.9s 30.00nm 5.6mb  
 KIC 12.47 35 Pd 07 37.75 0.8  
 1.0s 59.50nm 5.8mb  
 S 17 55.00  
 TIC 12.55 34 Pd 07 38.67 0.7  
 1.1s 33.50nm 5.5mb  
 LKO 14.77 25 P 08 06.93 -0.5  
 1.1s 85.00nm 5.2mb  
 KDS 16.34 359 iP 08 31.80 4.1X  
 MBO 18.81 345 eP 08 58.70 0.2  
 BDFB 37.32 249 eP 11 49.56 -1.6  
 1.2s 12.29nm 4.6mb  
 LBTE 41.78 124 ePc 12 29.06 1.0  
 1.5s 46.43nm 5.0mb  
 e 12 36.05  
 BOSA 43.20 129 eP 12 38.18 -1.3  
 1.4s 18.07nm 4.6mb  
 e 12 45.75  
 BLF 44.03 129 eP 12 47.00 0.6  
 SLR 44.29 123 iPc 12 48.50 -0.1  
 0.9s 25.21nm 5.1mb  
 Z 20s 3.19um 5.2MsZ  
 NAI 48.79 88 iPc 13 28.30 3.9X  
 Z 20s 1.13um 4.9MsZ  
 eS 20 46.00  
 SIV 49.70 252 P 13 33.40 2.2  
 SKO 54.81 30 eP 14 10.00 1.0  
 SQTA 54.83 19 iPc 14 08.50 -0.7  
 0.7s 14.20nm 5.1mb  
 i 14 15.10  
 WTTA 55.01 19 iPc 14 09.80 -0.8  
 0.9s 21.60nm 5.2mb  
 i 14 18.30  
 WATA 55.05 19 iPc 14 10.40 -0.5  
 i 14 17.80  
 KBA 55.43 21 i(P) 14 15.50 1.8  
 DOU 55.63 13 P 14 15.60 0.8  
 LPB 56.46 253 eP 14 22.00 0.1  
 Z 22s 1.48um 5.0MsZ  
 S 22 08.00  
 LR 31 08.00  
 LPAZ 56.47 253 P 14 22.20 0.1  
 S 22 12.00  
 LR 31 49.00

ENN 56.56 14 eP 14 22.00 0.5  
 1.0s 14.00nm 4.9mb  
 GRF 57.01 18 eP 14 23.40 -1.4  
 1.0s 22.00nm 5.1mb  
 GEC2 57.07 20 P 14 24.60 -0.7  
 0.8s 10.23nm 4.9mb  
 e 14 28.80  
 e 14 32.90  
 GEC2 57.07 20 e(P) 14 31.80 6.5X  
 1.0s 19.90nm 5.1mb  
 GEC2 57.07 20 e(P) 14 24.80 -0.5  
 0.8s 6.20nm 4.7mb  
 KHC 57.27 20 eP 14 27.00 0.3  
 1.3s 11.50nm 4.7mb  
 e 14 33.50  
 e 15 21.50  
 e 16 34.00  
 ZST 57.76 23 eP 14 31.00 1.0  
 SRO 57.92 24 eP 14 30.40 -0.7  
 MOX 57.97 17 eP 14 31.20 -0.3  
 PRU 58.33 20 eP 14 33.00 -1.0  
 BRG 58.90 19 eP 14 37.50 -0.4  
 1.3s 16.00nm 5.0mb  
 e 16 54.40  
 CLL 58.98 18 eP 14 38.00 -0.4  
 2.4s 100.00nm 5.5mb  
 MLR 59.61 30 eP 14 39.50 -3.6X  
 e 19 09.00  
 SPC 59.79 24 eP 14 43.60 -0.8  
 HFS 66.93 14 eP 15 29.40 -1.6  
 0.5s 2.20nm 4.6mb  
 Z 16s 0.36um 4.7MsZ  
 LR 41 56.00  
 TAB 68.13 46 eP 15 39.00 -0.2  
 OBN 71.07 27 ePd 15 56.50 -0.1  
 1.0s 14.00nm 5.0mb  
 Z 18s 0.50um 4.8MsZ  
 e 17 11.00  
 KAF 72.00 18 iP 16 01.40 -0.8  
 0.8s 10.90nm 5.0mb  
 NAV 75.71 310 (P) 16 24.85 0.6  
 SDF 76.11 14 iP 16 26.90 1.0  
 DAG 80.63 358 iPd 16 51.60 1.2  
 0.8s 11.19nm 4.9mb  
 FVM 83.30 309 eP 17 03.45 -1.6  
 0.9s 14.31nm 5.2mb  
 UYO 85.95 305 iPc 17 19.10 0.6  
 TUL 87.25 306 iPd 17 25.10 0.3  
 POO 87.27 71 eP 17 36.50 11.3X  
 YKA 99.25 333 P 18 19.60 0.0  
 1.3s 1.10nm 4.3mb  
 S.D. = 0.9 on 42 of 47 obs.

? JAN 20, 1994 23h 12m 42.76± 0.64s  
 41.770 N ± 9.8km 70.257 E ± 10.3km  
 DEPTH = 33.0km (normal)  
 4.5mb ( 11 obs.)  
 KYRGYZSTAN (716)

MAIO 9.99 240 ePn 15 06.00 -1.2  
 0.9s 12.36nm 5.2mb  
 eSn 16 35.00  
 NDI 14.23 154 eP 16 15.00 11.0X  
 eS 18 32.00  
 HYB 25.29 161 eP 18 08.50 0.7  
 KAF 32.97 323 iP 19 16.20 0.0  
 NUR 33.32 320 iP 19 19.30 0.1  
 0.7s 5.50nm 4.6mb  
 HFS 38.66 318 eP 20 03.90 -0.7  
 0.7s 18.40nm 5.0mb  
 PRU 38.84 302 eP 20 12.50 6.3X  
 BRG 39.07 303 eP 20 13.80 5.7X  
 1.2s 11.00nm 4.5mb  
 GEC2 39.60 300 P 20 13.50 0.9  
 0.7s 3.48nm 4.2mb  
 e 20 18.30  
 e 20 24.80  
 KHC 39.62 301 eP 20 13.50 0.8  
 1.0s 3.90nm 4.1mb  
 e 20 18.50  
 e 21 49.50  
 YAK 40.14 39 iPc 20 16.90 0.1  
 0.9s 72.00nm 5.4mb  
 EKA 48.19 313 P 21 23.00 1.4  
 DAG 49.55 342 iPc 21 31.00 -0.8  
 0.5s 4.93nm 4.8mb  
 IMA 67.28 18 eP 23 35.75 -0.2



20d 23h

FBA 69.58 16 (P) 23 49.04 -0.9  
1.1s 4.10nm 4.4mb  
YKA 76.01 2 P 24 27.70 -0.1  
0.7s 2.60nm 4.3mb  
WRA 85.26 122 F 25 25.50 8.1X  
1.1s 1.1nm 3.9mb  
S.D. = 0.9 or 13 of 17 obs.

\* JAN 20, 1994 23h 30m 41.80± 0.74s  
25.170 N ±13.2km 93.513 E ±11.2km  
DEPTH = 33.0km (normal)  
4.7mb (6 obs.)

NORTHEASTERN INDIA (317)  
Felt in the Silchar area.

CHTO 8.09 140 eP 32 42.60 2.7  
KMI 8.36 88 eP 32 47.60 3.7X  
LZH 14.04 37 P 34 00.00 -0.7  
1.2s 32.00nm 4.9mb  
NDI 14.95 287 eP 34 14.00 1.5  
eS 36 47.00  
HYB 15.92 244 eP 34 23.50 -1.6  
eS 37 22.00  
MBL 52.68 149 eP 39 54.50 -0.8  
0.4s 3.00nm 4.6mb  
WRA 59.89 135 P 40 46.70 -0.3  
0.6s 5.40nm 4.9mb  
WB2 59.90 135 iPd 40 46.00 -1.0  
0.7s 19.10nm 5.3mb  
ASPA 62.35 138 eP 41 02.70 -1.0  
1.1s 5.70nm 4.6mb  
GEC2 64.95 314 P 41 21.50 1.0  
0.8s 1.28nm 4.1mb  
e 41 25.30  
e 41 32.80  
e 41 43.70  
e 41 49.10  
YKA 89.80 13 P 43 51.30 13.2X  
0.6s 0.10nm  
WMOK 119.29 12 (PKP) 49 29.71 0.2  
e 49 36.11  
S.D. = 1.5 on 10 of 12 obs.

& JAN 21, 1994 00h 07m 29.28s  
34.365 N 118.538 W  
DEPTH = 0.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.3 (PAS), 3.5 (GS).

FTC 0.58 330 P 07 40.38 -0.5  
SSK 0.72 102 ePc 07 42.84 -0.7  
eS 07 53.84  
RYS 0.73 293 P 07 43.72 -0.1  
ABL 0.74 311 eP 07 42.97 -1.1  
BMTc 0.77 356 P 07 43.49 -1.2  
ARVC 0.80 343 P 07 44.14 -1.1  
TEJ 0.87 352 P 07 44.34 -2.4  
MARC 0.92 314 P 07 46.52 -1.1  
LPC 0.98 278 P 07 47.61 -1.3  
WJPM 1.04 3 P 07 49.00 -1.0  
TMB 1.09 312 P 07 49.91 -0.9  
WBSM 1.21 16 P 07 51.93 -1.0  
PEC 1.24 112 iPc 07 51.34 -1.9  
eS 08 08.34  
ISA 1.30 2 eP 07 52.47 -1.8  
CRGC 1.31 312 P 07 53.56 -1.0  
WORM 1.35 10 P 07 54.66 -0.5  
WASM 1.37 359 P 07 54.82 -0.8  
SCCM 1.46 294 P 07 56.24 -0.8  
BCH 1.51 303 eP 07 55.84 -2.0  
WSHM 1.53 34 P 07 56.27 -1.7  
WCHM 1.56 14 P 07 57.70 -0.9  
TOW 1.57 24 P 07 56.45 -2.1  
VPFM 1.69 20 P 08 00.38 0.1  
GSC 1.70 56 iPc 07 59.12 -1.4  
PLM 1.72 125 eP 07 58.62 -2.2  
RCWM 1.74 25 P 08 00.13 -0.9  
WLHM 1.79 6 P 08 01.52 -0.5  
PHAM 2.12 314 (P) 08 06.52 0.1  
MTUM 2.98 360 (Pn) 08 18.64 -0.3  
TPNV 3.18 35 ePn 08 20.27 -1.4  
MMPM 3.26 353 ePg 08 27.27 4.2  
MRMC 3.30 0 (Pn) 08 28.28 4.8  
MEMM 3.31 354 (Pn) 08 23.02 -0.3  
GLA 3.36 112 (Pn) 08 21.00 -3.2  
BONR 3.59 3 ePn 08 27.48 -0.1  
ARN 3.84 322 eP 08 29.72 -1.4

TNP 3.86 16 ePg 08 41.67 10.2  
CMB 3.96 338 (P) 08 31.71 -0.9  
ARUT 5.36 49 ePn 08 52.46 -0.2  
39 obs. associated

& JAN 21, 1994 00h 09m 05.94s  
34.299 N 118.466 W

DEPTH = 10.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.1 (PAS), 3.2 (GS).

SSK 0.65 98 iPd 09 17.82 -1.2  
FTC 0.67 328 P 09 18.78 -0.5  
RYS 0.81 295 P 09 21.57 -0.2  
ABL 0.83 312 eP 09 21.10 -1.1  
BMTc 0.84 353 P 09 21.71 -0.6  
ARVC 0.88 340 P 09 22.43 -0.4  
TEJ 0.95 349 P 09 21.92 -2.1  
MARC 1.01 315 P 09 24.62 -0.4  
LPC 1.05 281 P 09 25.61 -0.2  
WJPM 1.11 359 P 09 26.80 0.0  
PEC 1.16 110 eP 09 26.25 -1.3  
TMB 1.18 312 P 09 27.81 -0.2  
WOFM 1.25 351 P 09 29.18 -0.1  
WBSM 1.26 12 P 09 30.04 0.5  
ISA 1.36 360 eP 09 30.12 -0.9  
CRGC 1.40 313 P 09 31.10 -0.5  
SCCM 1.55 295 P 09 33.50 -0.1  
WSHM 1.55 31 P 09 32.90 -0.8  
BCH 1.60 304 eP 09 33.92 -0.5  
PLM 1.63 125 eP 09 33.22 -1.8  
GSC 1.69 53 eP 09 36.40 0.6  
VPFM 1.73 18 P 09 38.09 1.7  
RCWM 1.78 22 P 09 38.95 1.9  
WLHM 1.85 4 P 09 39.91 1.6  
TPNV 3.20 34 (Pn) 09 57.58 0.2  
MMPM 3.34 352 ePg 10 06.44 6.9  
BONR 3.65 2 ePg 10 12.48 8.5  
27 obs. associated

? JAN 21, 1994 00h 29m 50.05±14.21s  
31.841 S ±105.5km 71.635 W ±46.6km

DEPTH = 40.0km (geophysicist)  
NEAR COAST OF CENTRAL CHILE (135)  
MD 3.5 (SAN).

JACH 1.22 134 iPd 30 10.34 -0.6  
iS 30 25.67  
ROCH 1.24 155 iP+ 30 11.01 -0.5  
iS 30 25.88  
PEL 1.53 149 iPd 30 14.74 -0.6  
iS 30 32.75  
LCCH 1.63 178 iP 30 16.49 -0.2  
iS 30 36.15  
FCH 1.87 143 iPd 30 19.61 -0.8  
iS 30 41.07  
TACH 1.90 162 iP+ 30 20.10 -0.5  
iS 30 42.70  
FCH 2.01 152 iP+ 30 21.42 -0.9  
iS 30 44.85  
LNV 2.12 175 iP 30 22.53 -1.2  
iS 30 47.31  
CHCH 2.24 159 iP+ 30 24.93 -0.7  
iS 30 50.86  
CACH 2.43 159 iP+ 30 27.99 -0.4  
iS 30 57.52

S.D. = 0.3 on 10 of 10 obs.

& JAN 21, 1994 00h 38m 36.57s  
34.308 N 118.429 W

DEPTH = 8.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.62 99 eP 38 48.12 -0.9  
eS 38 57.30  
ABL 0.85 310 eP 38 51.55 -1.7  
PEC 1.13 111 eP 38 56.66 -1.3  
ISA 1.35 358 eP 39 00.75 -1.0  
PLM 1.62 126 eP 39 03.43 -2.2  
BCH 1.62 303 eP 39 04.12 -1.5  
GSC 1.66 53 eP 39 05.51 -0.7  
TPNV 3.18 33 (P) 39 27.33 -0.6

8 obs. associated

% JAN 21, 1994 01h 00m 00.59± 1.20s  
38.765 N ± 7.1km 27.354 E ±17.4km

DEPTH = 5.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

IZM 0.37 191 ePg 00 08.20 0.1  
eSg 00 14.50  
CIN 1.30 153 ePg 00 25.00 -0.1  
iSg 00 44.00  
DST 1.30 49 ePg 00 25.50 0.4  
EDC 1.63 14 ePn 00 30.00 0.0  
IZI 2.27 46 ePn 00 39.00 -0.4  
S.D. = 0.4 on 5 of 5 obs.

& JAN 21, 1994 01h 21m 47.11s  
34.299 N 118.439 W

DEPTH = 3.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK 0.62 98 eP 21 58.94 -0.7  
ABL 0.85 311 ePc 22 02.13 -1.9  
PEC 1.14 111 eP 22 07.64 -1.4  
eS 22 23.09  
ISA 1.36 359 eP 22 11.43 -1.5  
PLM 1.62 125 eP 22 13.97 -2.8  
BCH 1.62 304 eP 22 15.06 -1.7  
GSC 1.68 53 eP 22 16.32 -1.2  
eS 22 40.96  
TPNV 3.19 33 (Pn) 22 37.98 -1.3  
MEMM 3.38 353 ePg 22 50.45 8.6  
9 obs. associated

% JAN 21, 1994 01h 28m 08.17± 3.91s  
36.575 N ±33.7km 2.824 W ± 9.3km

DEPTH = 5.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 3.0 (MDD).

ENIJ 0.63 51 iPc 28 20.31 -0.6  
eS 28 29.00  
EGUA 0.65 294 iPd 28 19.96 -1.2  
eS 28 28.20  
ECOG 0.92 320 iPc 28 25.20 -1.1  
eS 28 35.30  
ELOJ 1.21 299 eP 28 32.00 0.8  
eS 28 45.00  
EHUE 1.25 8 eP 28 32.30 0.4  
eS 28 49.10  
ELUQ 1.52 311 eP 28 37.00 1.0  
EBAN 1.76 335 eP 28 40.20 0.7  
eS 29 01.50  
EVIA 2.08 7 eP 28 46.54 2.4X  
eS 29 12.00

S.D. = 1.1 on 7 of 8 obs.

& JAN 21, 1994 01h 35m 05.80s  
34.297 N 118.430 W

DEPTH = 5.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.4 (GS).

SSK 0.62 98 iPc 35 17.59 -0.6  
FTC 0.69 326 P 35 19.65 0.1  
RYS 0.84 295 P 35 23.07 0.5  
BMTc 0.85 351 P 35 21.52 -1.2  
SNDC 0.85 7 P 35 23.26 0.6  
PLEC 0.85 322 P 35 22.96 0.3  
ABL 0.86 310 iPc 35 21.67 -1.2  
eS 35 35.66  
ARVC 0.89 338 P 35 22.54 -0.8  
TEJ 0.95 347 P 35 21.62 -2.8  
MARC 1.03 313 P 35 25.06 -0.6  
WJPM 1.11 358 P 35 25.09 -2.1  
PEC 1.13 111 ePc 35 25.82 -1.6  
eS 35 42.14  
TMB 1.20 311 P 35 28.34 -0.4  
WOFM 1.26 349 P 35 29.34 -0.3  
WBSM 1.26 11 P 35 28.84 -0.9  
ISA 1.36 359 eP 35 30.36 -1.1  
WORM 1.40 6 P 35 32.43 0.4  
CRGC 1.42 312 P 35 31.87 -0.5  
WSHM 1.54 30 P 35 33.43 -0.5  
SCCM 1.57 295 P 35 34.68 0.3  
NMC 1.60 15 P 35 34.68 -0.2  
TOW 1.60 20 P 35 35.84 1.0  
PLM 1.61 125 eP 35 33.39 -1.7  
WCHM 1.61 10 P 35 34.80 -0.3



21d 01h

BCH 1.62 304 ePn 35 34.15 -1.1  
 GSC 1.67 53 eP 35 35.04 -0.8  
 WLHM 1.85 3 P 35 40.43 1.7  
 PHAM 2.23 314 eP 35 42.51 -1.4  
 MTUM 3.05 358 ePn 35 55.69 0.0  
 ePg 36 01.69  
 TPNV 3.19 33 ePn 35 56.39 -1.2  
 GLA 3.25 111 (Pn) 35 58.51 0.1  
 MMPM 3.34 352 ePg 36 06.83 6.8  
 MRCM 3.37 359 ePg 36 07.61 7.3  
 MEMM 3.39 353 ePn 36 01.12 0.8  
 eS 36 52.03  
 BONR 3.65 2 ePg 36 12.97 8.6  
 CMB 4.05 338 (P) 36 10.49 0.7  
 ARUT 5.34 48 (Pn) 36 27.94 -0.2  
 37 obs. associated

& JAN 21, 1994 02h 04m 44.13s  
 34.381 N 118.505 W  
 DEPTH = 0.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>P>. ML 2.9 (PAS), 3.2 (GS).

FTC 0.58 327 P 04 55.68 -0.1  
 SSK 0.69 104 eP 04 57.21 -0.8  
 RYS 0.75 291 P 04 58.90 -0.1  
 PLEC 0.75 322 P 04 58.95 -0.1  
 ABL 0.75 309 iPc 04 58.17 -1.0  
 BMTC 0.76 354 P 04 58.31 -0.9  
 ARVC 0.79 340 P 04 59.12 -0.8  
 TEJ 0.86 350 P 04 59.02 -2.3  
 LPC 1.01 277 P 05 03.22 -1.0  
 TMB 1.10 310 P 05 05.30 -0.5  
 WOFM 1.16 352 P 05 06.40 -0.5  
 WBSM 1.19 14 P 05 07.26 -0.2  
 PEC 1.22 113 ePc 05 06.26 -1.5  
 ISA 1.28 1 eP 05 07.57 -1.3  
 WORM 1.33 9 P 05 10.06 0.4  
 SCCM 1.48 293 P 05 11.36 -0.8  
 WSHM 1.50 33 P 05 11.89 -0.5  
 BCH 1.53 302 eP 05 11.60 -1.3  
 WCHM 1.54 13 P 05 13.61 0.4  
 TOW 1.55 23 P 05 12.72 -0.4  
 VPEN 1.66 20 P 05 15.59 0.8  
 GSC 1.67 56 eP 05 13.71 -1.2  
 PLM 1.71 126 eP 05 13.43 -2.1  
 WLHM 1.77 5 P 05 16.89 0.3  
 PHAM 2.13 314 (Pn) 05 21.52 0.1  
 MTUM 2.97 359 (Pn) 05 34.06 0.5  
 TPNV 3.15 35 ePn 05 35.24 -0.9  
 MMPM 3.25 353 ePg 05 42.83 5.1  
 MEMM 3.30 354 ePg 05 45.04 7.0  
 BONR 3.57 3 ePn 05 40.50 -1.7  
 TNP 3.84 15 ePg 05 58.01 12.0  
 MSU 6.56 49 ePg 06 48.54 24.0  
 DUG 7.36 36 ePg 07 04.16 28.5  
 33 obs. associated

& JAN 21, 1994 02h 06m 02.48s  
 34.376 N 118.510 W  
 DEPTH = 0.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS>P>. ML 2.9 (PAS), 3.0 (GS).

FTC 0.59 328 P 06 14.31 0.1  
 SSK 0.70 103 eP 06 16.36 0.0  
 RYS 0.74 291 P 06 17.37 0.0  
 ABL 0.75 309 eP 06 16.36 -1.2  
 BMTC 0.76 355 P 06 16.67 -1.0  
 ARVC 0.79 341 P 06 17.46 -0.9  
 TEJ 0.86 350 P 06 17.47 -2.3  
 MARC 0.93 313 P 06 20.19 -0.8  
 LPC 1.00 277 P 06 21.60 -0.8  
 TMB 1.10 310 P 06 23.68 -0.4  
 WBSM 1.20 15 P 06 26.34 0.5  
 PEC 1.22 113 eP 06 24.83 -1.2  
 eS 06 42.05  
 ISA 1.28 1 eP 06 26.99 -0.2  
 CRGC 1.32 311 P 06 27.26 -0.6  
 SCCM 1.48 293 P 06 29.67 -0.7  
 WSHM 1.51 33 P 06 30.28 -0.5  
 BCH 1.53 302 eP 06 30.43 -0.7  
 GSC 1.68 56 eP 06 33.93 0.7  
 PLM 1.71 126 (P) 06 33.00 -0.8  
 WLHM 1.78 5 P 06 37.29 2.4  
 TPNV 3.16 35 (Pn) 06 54.54 0.0  
 21 obs. associated

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 % JAN 21, 1994 02h 16m 54.10± 0.59s  
 44.543 N ± 5.6km 7.298 E ± 5.8km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.0 (GEN).  
 PZZ 0.15 255 P 16 57.36 0.2  
 S 16 58.92  
 BHB 0.30 355 P 17 00.57 0.4  
 S 17 04.46  
 ENR 0.33 164 P 17 01.07 0.3  
 S 17 05.19  
 ROB 0.48 121 P 17 03.63 -0.1  
 S 17 10.54  
 RRL 0.53 316 P 17 04.18 -0.5  
 FIN 0.73 117 P 17 08.80 0.0  
 IMI 0.76 146 P 17 09.08 -0.4  
 S.D. = 0.4 on 7 of 7 obs.

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 JAN 21, 1994 02h 24m 29.96± 0.13s  
 1.015 N ± 2.8km 127.733 E ± 2.9km  
 DEPTH = 19.9km (geophysicist)  
 6.2mb (101 obs.) 7.2Msz (58 obs.)  
 HALMAHERA, INDONESIA (267)  
 Mw 7.0 (GS), 7.0 (HRV). Ms 7.3  
 (BRK). Mo=2.0\*10\*\*19 Nm (OBN),  
 8.4\*10\*\*19 Nm (PPT). Seven  
 people killed, 40 injured and  
 550 houses damaged in the Kau  
 area. Felt strongly at Ternate.  
 Depth from broadband  
 displacement seismograms.  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=175 Dip=85 Slip= 21  
 NP2: 83 69 175  
 Principal Axes:  
 T Plg=18 Azm= 41  
 P 11 307  
 Comment: The focal mechanism is  
 moderately well controlled  
 and corresponds to strike-  
 slip faulting with a moderate  
 reverse component. The  
 preferred fault plane is not  
 determined.

RADIATED ENERGY  
 No. of sta: 12 Focal mech. F  
 Energy 5.1±1.3\*10\*\*15 Nm  
 MOMENT TENSOR SOLUTION  
 Dep 22 No. of sta: 6  
 Moment Tensor; Scale 10\*\*19 Nm  
 Mrr=-0.15 Mtt= 1.45  
 Mff=-1.29 Mrt= 0.37  
 Mrf=-1.12 Mtf=-2.70  
 Principal axes:  
 T Val= 3.34 Plg=15 Azm= 33  
 N -0.19 69 166  
 P -3.15 15 299  
 Best Double Couple:Mo=3.2\*10\*\*19  
 NP1:Strike= 76 Dip=69 Slip=-180  
 NP2: 346 90 -21  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 53S, \*\*C M.W.: 52S, \*\*C  
 Centroid Location:  
 Origin Time 02:24:37.3 0.1  
 Lat 1.20N 0.01 Lon 127.80E 0.01  
 Dep 15.0 FIX Half-duration 7.5  
 Moment Tensor; Scale 10\*\*19 Nm  
 Mrr=-0.34 0.01 Mtt= 0.97 0.01  
 Mff=-0.63 0.01 Mrt= -0.04 0.06  
 Mrf=-1.30 0.07 Mtf=-2.85 0.01  
 Principal Axes:  
 T Val= 3.29 Plg=12 Azm= 39  
 N -0.10 65 158  
 P -3.19 21 305  
 Best Double Couple:Mo=3.2\*10\*\*19  
 NP1:Strike= 83 Dip=66 Slip=-174  
 NP2: 351 84 -24

MNI 2.92 278 P 25 19.00 2.7X  
 AAI 4.69 174 eP 25 44.10 2.6X  
 DAV 6.41 340 eP+ 26 06.00 0.4  
 CTB 7.08 330 iPd 26 14.00 -1.1  
 BIP 7.31 348 iPd 26 18.00 -0.4  
 iS 27 43.00

PCI 8.12 256 ePc 26 40.00 10.3X  
 TLE 8.29 143 ePd 26 30.90 -1.2  
 BUNI 8.74 238 ePd 26 34.80 -3.5X  
 TANI 9.44 242 ePd 26 46.20 -1.8  
 SLKI 9.62 158 iPd 26 44.60 -5.8X  
 NINI 9.63 236 ePd 26 49.00 -1.7  
 MAP 9.97 338 iPd 26 56.00 0.7  
 TSM 10.37 288 ePd 27 01.00 0.2  
 1.0s 1350.20nm 7.2mb X  
 PPR 12.49 314 ePc 27 31.00 1.5  
 KKM 12.53 294 ePd 27 36.00 5.8X  
 0.6s 94.60nm 6.2mb  
 GQP 13.83 338 ePc 27 29.00 -18.4X  
 PGP 14.11 332 ePc 27 52.00 1.0  
 MTN 14.18 166 iPd 27 49.00 -2.9X  
 TGY 14.64 333 iPd 27 58.50 0.5  
 iS 31 19.00  
 KEDI 14.68 232 iPd 28 04.00 5.5X  
 OKTD 14.94 115 eP 28 02.20 0.2  
 QVP 15.07 334 ePd 28 04.00 0.5  
 KHKI 15.26 232 ePc 28 08.00 2.0  
 THRI 15.32 232 ePd 28 09.00 2.1  
 JEHI 15.41 234 iPd 28 08.70 0.7  
 RATI 15.54 231 iPd 28 11.00 1.3  
 DNP 15.76 232 ePc 28 15.50 2.9X  
 RANI 15.84 233 iPd 28 14.50 0.9  
 INGI 15.90 232 iPd 28 17.00 2.7X  
 KELI 16.07 235 iPd 28 18.30 1.7  
 SRDI 16.51 235 iPd 28 21.40 -0.7  
 KNA 16.69 177 iPd 28 22.60 -1.8  
 1.0s 1405.00nm 6.0mb  
 BAG 16.84 336 iPd 28 24.00 -2.5X  
 2.1s 320.00nm 5.1mb X  
 TRT 17.37 240 iPd 28 34.00 1.0  
 CVP 17.57 341 ePd 28 24.50 -11.0X  
 SZP 17.92 337 iPd 28 41.00 1.2  
 SJI 18.14 241 ePd 28 43.40 0.9  
 TPI 20.42 259 ePc 29 06.00 -2.8X  
 LAT 20.69 112 eP 29 11.90 0.3  
 GUMO 21.07 53 eP 29 12.00 -3.4X  
 0.9s 1496.50nm 6.4mb  
 Z 24s 753.00nm 7.0MszX  
 e 29 21.40 35kmX  
 eS 33 28.40  
 GUA 21.07 53 eP 29 12.20 -3.3X  
 0.7s 789.04nm 6.2mb  
 e 29 20.70 31kmX  
 LEM 21.53 249 ePc 29 18.70 -1.6  
 eS 33 10.00  
 SINI 21.71 248 iPd 29 20.70 -1.4  
 WB2 21.81 163 eP 29 22.30 -0.7  
 0.9s 624.30nm 6.0mb  
 eS 33 01.70  
 PMG 21.94 119 eP- 29 22.00 -2.3  
 PACI 22.11 250 iPd 29 24.60 -1.5  
 PULI 22.92 251 ePd 29 35.20 1.1  
 MBL 23.35 199 iPd 29 36.20 -1.9  
 PASI 23.39 251 iPd 29 38.00 -0.5  
 QIS 24.39 152 eP 29 49.50 1.3  
 iPd 29 57.80 29kmX  
 KGM 24.43 273 ePd 29 50.10 1.5  
 1.1s 297.30nm 5.8mb  
 e 30 00.80 40kmX  
 TATO 24.57 346 ePd 29 50.45 0.5  
 HKC 24.94 329 iPd 29 54.50 1.0  
 S 34 18.00  
 RAB 24.95 102 eP 29 54.00 0.3  
 1.0s 360.00nm 6.0mb  
 iS 34 20.00  
 QIZ 25.06 317 iPd 29 55.00 0.3  
 0.8s 370.00nm 6.1mb  
 N 17s 138.00nm  
 E 16s 152.00nm  
 MCO 25.11 328 eP 29 56.60 1.5  
 QZH 25.38 340 iPd 29 58.50 0.9  
 2.0s 8420.00nm 7.0mb  
 N 18s 356.00nm  
 S 34 23.00  
 GZH 26.01 329 iPd 30 03.60 0.1  
 1.0s 350.00nm 6.0mb  
 Z 24s 154.00nm 6.5MszX  
 N 19s 163.00nm  
 E 25s 857.00nm  
 iS 34 34.00  
 IPM 26.91 278 ePd 30 12.10 0.2  
 1.0s 137.10nm 5.6mb  
 CTAO 27.74 140 eP 30 20.88 1.5



	1.1s	839.74nm			6.4mb
MRPI	28.41	272 ePd	30	27.00	1.2
HUTI	28.78	273 ePd	30	31.50	2.4X
PCBI	28.81	272 ePd	30	29.00	-0.3
SIMI	28.82	274 ePd	30	28.40	-1.1
MEEK	28.86	197 eP	30	26.80	-2.7X
AECT	29.29	272 ePd	30	32.60	-1.0
PCKT	29.34	299 eP	30	34.50	0.6
SEMI	29.36	273 ePd	30	33.50	-0.9
LARI	29.62	274 ePd	30	34.70	-1.8
NNT	30.04	294 iPc	30	39.00	-1.2
GSI	30.15	271 ePd	30	40.00	-1.2
LOE	30.32	304 iPd	30	41.00	-1.7
SSE	30.55	349 eP	30	45.16	0.7
	1.0s	110.00nm			5.7mb
Z	20s	202.00um			6.8Msz
N	12s	58.20um			
E	12s	62.30um			
		pP	30	50.50	19kmX
		sP	31	02.00	
		iS	35	40.00	
KBR	30.74	296 eP	30	58.00	11.7X
NST	30.88	300 iPd	30	46.20	-1.3
FORT	31.62	179 eP	30	52.20	-1.7
	0.6s	141.00nm			6.0mb
NJ2	31.99	346 Pc	30	58.00	0.9
	1.0s	190.00nm			6.0mb
N	15s	71.10um			
E	17s	181.00um			
		S	36	09.00	
WHN	32.00	338 Pd	30	59.00	1.8
	1.0s	390.00nm			6.3mb
N	18s	299.00um			
E	21s	194.00um			
		pP	31	06.50	26kmX
		iS	36	02.00	
MRWA	32.09	200 eP	30	55.00	-3.1X
	0.6s	75.00nm			5.8mb
COOL	32.33	191 eP	30	57.00	-3.2X
	1.4s	864.00nm			6.5mb
GYA	32.42	323 iPd	31	01.00	-0.1
	1.0s	140.00nm			5.8mb
Z	22s	112.00um			6.5Msz
N	15s	150.00um			
E	15s	50.10um			
		pP	31	08.60	26kmX
		PcP	33	48.00	
		S	36	14.00	
		sS	36	23.00	
BAL	33.15	198 eP	31	05.00	-2.3
	1.1s	441.00nm			6.3mb
CHTO	33.32	304 iPd	31	08.24	-0.6
	0.9s	127.88nm			5.9mb
		epPd	31	14.62	22kmX
		eS	36	32.60	
HNR	33.72	109 eP	31	11.00	-1.4
KLB	33.78	195 iPc	31	10.40	-2.3
	0.7s	201.00nm			6.2mb
		i	31	18.40	27kmX
ENH	33.87	331 ePd	31	13.62	0.1
		epPd	31	20.24	23kmX
KMI	34.01	317 iPd	31	15.89	0.8
	1.2s	240.00nm			6.0mb
N	17s	191.00um			
		epPd	31	22.10	21kmX
		pP	31	24.40	
		sP	31	28.80	
		PP	32	26.00	
MUN	34.58	197 eP	31	17.50	-2.2
	1.1s	300.00nm			6.1mb
N	20s	111.80um			
E	20s	95.60um			
		i	31	24.80	25kmX
NWAO	35.18	195 ePc	31	22.86	-1.9
	1.2s	833.00nm			6.5mb
		epPd	31	27.50	16kmX
		esPc	31	31.47	
STK	35.25	159 eP	31	24.90	-0.5
	1.0s	135.80nm			5.8mb
		eS	37	06.20	
TIA	36.38	345 eP	31	34.10	-0.8
	1.0s	400.00nm			6.2mb
E	15s	163.00um			
		S	37	05.00	
MAT	36.66	14 iPc+	31	33.90	-3.3X
		eS	37	14.00	
RKG	36.				

		1.0s	343.00nm			6.1mb
ADE		37.24	165 iPc-	31	42.70	0.5
XAN		37.28	334 ePd	31	42.68	0.2
		1.0s	460.00nm			6.2mb
Z	24s		62.00um			6.3MsZx
N	20s		157.80um			
E	20s		221.00um			
			epPd	31	49.05	21kmX
			ed	31	50.37	
			S	37	24.00	
CD2		37.42	325 iPd	31	43.90	0.2
		1.2s	540.00nm			6.2mb
Z	20s		157.00um			6.8MsZ
E	18s		206.00um			
			PP	33	11.00	
			S	37	28.00	
			ScP	37	47.00	
DL2		38.12	352 Pc	31	49.00	-0.4
		1.5s	2980.00nm			6.9mb
N	18s		149.00um			
E	18s		163.00um			
ARMA		38.67	146 iPc	31	54.70	0.4
		1.0s	396.00nm			6.1mb
			iPp	32	02.70	27kmX
			ePP	33	30.00	
TIY		39.14	341 Pc	31	58.80	0.6
		1.5s	680.00nm			6.1mb
Z	30s		190.00um			6.7MsZx
N	23s		230.00um			
			PP	33	35.00	
			S	37	58.00	
BWA		40.24	153 iPd	32	09.10	1.9
			iPp	32	14.90	20kmX
			ePP	33	37.40	
BJI		40.24	346 ePc	32	06.92	-0.2
		1.0s	240.00nm			5.9mb
N	14s		71.40um			
			ec	32	12.05	
			ePP	32	13.00	21kmX
			ed	32	14.62	
			ePP	33	44.00	
			S	38	16.00	
SNY		40.80	355 iPc	32	11.00	-0.6
		1.4s	660.00nm			6.2mb
N	18s		47.60um			
E	15s		70.80um			
			pP	32	17.40	22kmX
			S	38	16.00	
RIV		41.07	150 eP	32	17.10	3.2X
			ePP	33	54.60	
			eS	38	02.00	
CAN		41.25	153 iPd	32	16.50	1.0
			iPp	32	22.30	20kmX
			ePP	33	47.80	
LZH		41.34	330 iPd	32	18.00	1.6
		2.0s	4450.00nm			6.8mb
Z	16s		110.00um			6.8MsZx
			ec	32	21.97	
			pP	32	22.50	15kmX
			sP	32	25.00	
			PP	33	59.00	
			PcS	38	06.00	
			S	38	33.80	
			sS	38	41.70	
			SS	41	32.00	
CNB		41.41	153 eP	32	18.20	1.4
		1.7s	739.00nm			6.1mb
			ePP	32	24.00	20kmX
			ePP	33	55.70	
TOO		41.76	159 iPc	32	21.50	1.8X
		0.6s	194.00nm			6.0mb
			iPp	32	27.00	19kmX
			ePP	33	58.80	
			eS	39	15.70	
VLA		42.08	5 iPd+	32	22.00	-0.1
		2.9s	1190.00nm			6.1mb
			i	34	02.50	563kmX
			i	34	18.00	
			i	34	26.00	
			iS	38	36.00	
HHC		42.27	342 Pc	32	24.80	0.9
		0.8s	130.00nm			5.7mb
Z	20s		149.00um			6.9MsZ
N	15s		45.40um			
E	18s					

		0.8 s	231.34nm			6.0mb
			iS	38	24.00	
BTO		42.55	340 iPd	32	26.50	0.3
		1.0s	74.00nm			5.4mb
	N	17s	109.00um			
	E	18s	123.00um			
CN2		42.65	358 P	32	25.40	-1.4
		1.2s	390.00nm			6.0mb
	Z	22s	167.00um			6.9MsZ
	N	20s	133.00um			
	E	20s	285.00um			
			PP	34	06.0	
			S	38	48	
			eSS	41	55	
MDJ		43.45	2 ePc	32	32.0	0.4
		1.5s	2230.00nm			0.7mb
	N	18s	225.00um			
	E	13s	54.60um			
			ic	32	36.03	11kmX
			ed	32	40.91	
			S	38	58.00	
BKM		43.99	117 iPc	32	39.40	1.3
PVC		44.08	117 iPc	32	42.00	3.2X
DZM		44.18	124 iPc	32	40.80	1.1
LSA		44.99	313 iPd	32	47.80	1.2
		1.2s	190.00nm			5.9mb
	Z	16s	36.50um			6.4MsZ
	N	18s	263.00um			
	E	15s	129.40um			
			epPd	32	53.84	20kmX
			PP	34	38.00	
			ScP	38	12.00	
			S	39	25.00	
GTA		45.93	330 iPd	32	54.40	1.0
		1.4s	510.00nm			6.3mb
	Z	20s	104.00um			6.8MsZ
	N	16s	67.20um			
			pP	33	06.00	41kmX
			sP	33	09.60	
			PcP	34	34.50	
			PP	34	40.00	
			eS	39	30.00	
			sS	39	52.00	
KUR		47.49	19 iPc	33	04.00	-1.5
		1.0s	830.00nm			6.7mb
	Z	20s	172.00um			7.0MsZ
	N	20s	200.00um			
	E	20s	115.60um			
			e	34	56.00	635kmX
			eS	39	56.00	
YSS		47.65	14 ePc	33	04.52	-2.2
	Z	17s	73.90um			6.7MsZ
	N	18s	97.00um			
			ec	33	08.08	12kmX
			e	33	17.60	
			e	34	32.00	
			iS	39	57.00	
			eSS	43	12.00	
HIA		48.56	353 ePc	33	13.11	-0.7
			ec	33	16.42	11kmX
KOD		50.79	282 eP	33	34.00	2.2X
			eS	40	48.00	
HYB		51.01	292 iPd	33	32.00	-1.1
		1.0s	750.00nm			6.6mb
			eS	40	48.00	
GBA		51.31	287 Pd	33	35.00	-0.3
CIT		52.17	349 eP	33	41.00	-0.4
			eS	41	15.00	
MBU		53.33	112 eP	33	51.00	0.5
VUN		53.36	113 eP	33	50.60	0.0
SVA		53.38	113 eP	33	51.20	0.4
ZAK		53.40	341 eP-	33	49.00	-1.4
		4.0s	9790.00nm			7.1mb X
	Z	17s	60.60um			6.7MsZ
	N	18s	122.00um			
	E	20s	53.86um			
			e	35	46.00	639kmX
			ePPP	37	05.00	
			eS	41	21.00	
IRK		54.71	343 ePd	34	00.00	-0.1
		3.4s	3947.00nm			6.9mb X
			eS	41	32.00	
			eSS	45	10.00	
NDI		55.46				



Z 25s	80.20um	6.7MsZx	DHH	75.16	68 (P)	36 14.69	1.4	BALM	89.08	29 eP	37 24.74	-0.4
E 13s	49.30um		KKH	76.71	70 (P)	36 19.82	-2.2	ANN	89.60	315 ePP	40 59.41	
	epPd	34 12.66	MHA	76.85	70 (P)	36 21.29	-1.5			eP	37 26.00	-1.7
	esPd	34 14.98	ARU	77.72	328 eP	36 27.00	0.1			i	37 34.00	25kmX
	PcP	35 03.00			e	36 41.00	49kmX			e	47 55.00	
	PP	36 12.00			e	39 31.00		GAZ	89.81	307 eP	48 21.00	
	ScP	39 01.00			ePPP	41 19.00		OBN	89.83	325 iPc	37 27.20	-1.3
	PcS	39 03.50			eS	46 14.00			1.9s	1890.00nm		7.0mb
	S	41 50.00	DHR	78.43	297 eP	36 31.00	-0.4	Z	22s	70.00um		7.0MsZ
	sS	41 59.90	SDN	78.86	34 eP	36 32.11	-1.1	N	22s	32.00um		
	ScS	43 50.00		0.8s	391.01nm		6.5mb	E	22s	40.00um		
	SS	45 36.00	ANM	79.32	24 eP	36 35.54	0.0			i	41 04.00	
POO	55.62	292 iPd	RYD	81.51	295 eP	36 47.50	-0.5			ePPP	43 06.00	
	1.0s	190.00nm	SBA	81.53	172 iPc	36 53.50	6.5X			i	47 58.00	
			MAK	82.21	313 iP-	36 52.00	0.8			i	48 12.00	
BOM	56.65	292 iPd			i	40 07.80				iPS	49 28.00	
		iS			iS	47 04.00				ISS	54 20.00	
BOD	57.68	351 iPc			IPS	48 06.00		SYO	90.30	201 ePd-	37 28.50	-2.0
	1.3s	865.00nm	TAB	82.60	308 iP-	36 54.00	0.4	WAJH	90.61	296 eP	37 33.33	0.6
PET	57.84	22 iP+	SVW	82.67	28 eP	36 53.14	-0.2	KVT	90.61	311 iP	37 33.00	0.4
	1.2s	510.00nm		1.3s	221.00nm		6.1mb	BNN	90.83	309 eP	37 40.60	6.9X
Z	18s	146.40um	MJMA	82.76	296 eP	36 54.67	0.2	NAI	90.95	269 iPd	37 40.00	5.1X
N	19s	115.50um	TTA	82.86	27 ePc	36 53.98	-0.3		1.5s	9744.44nm		7.9mb X
E	21s	68.20um		1.3s	214.25nm		6.1mb			iPP	41 56.00	
	e	35 15.00			e	40 16.71				iPPP	44 16.00	
	e	36 24.00	AFR	83.14	108 iPd	36 58.30	1.8			SKS	48 14.00	
	ePPP	37 46.00		1.4s	508.80nm		6.5mb			SKKS	48 28.00	
	eS	42 20.00	PPT	83.34	108 iPd	36 59.30	1.8	JARJ	90.98	302 Pc	37 35.00	0.5
	eSSS	48 30.00		1.9s	2697.50nm		7.1mb	AYN	91.04	299 eP	37 35.67	1.0
SNZO	59.84	140 (P)	PAE	83.34	108 iPd	36 59.40	1.9	BHL	91.17	304 P	37 34.00	-1.3
	S	42 40.00		1.9s	1389.00nm		6.8mb			S	47 20.00	
KSH	60.64	316 iPd	PPN	83.47	108 iPd	37 00.00	1.8	SALJ	91.21	302 Pc	37 36.90	1.4
	0.8s	260.00nm		1.8s	1312.00nm		6.8mb	SRFA	91.75	299 eP	37 38.67	0.7
Z	24s	69.60um	GRO	83.52	313 iPd-	36 58.00	0.0	HQL	91.85	299 eP	37 39.33	0.9
N	20s	81.40um			i	37 12.00	48kmX	SIM	91.86	315 eP	37 38.00	-0.1
E	20s	136.00um			iS	47 20.00		Z	24s	70.00um		7.0MsZx
	pP	34 48.00			IPS	48 14.00				i	41 24.00	
	sP	34 51.00			ISS	52 48.00				ePS	49 48.00	
	PcP	35 27.00	TVO	83.66	108 iPd	37 01.00	1.8	KAS	92.32	311 eP	37 42.00	1.5
	PP	37 00.00		1.6s	1303.50nm		6.9mb	PUL	92.87	330 ePc	37 48.00	5.6X
	ScP	39 26.00	KDC	83.68	32 ePc	36 57.84	-0.6			iS	48 52.00	
	PcS	39 28.00		0.8s	61.52nm		5.9mb	PUL	92.87	330 (P)	37 44.00	1.6
	iS	43 00.00	MTA	84.04	312 iPd-	37 01.00	0.3	Z	25s	130.00um		7.3MsZx
	sS	43 08.00			eS	47 24.00		N	24s	45.00um		
	ScS	44 31.00	CP2	84.31	29 ePc	37 00.72	-1.2	E	24s	110.00um		
	SS	47 00.00			ePP	40 12.32				i	37 56.00	39kmX
YAK	60.87	1 iPc	QASM	84.34	296 eP	37 03.00	0.4			e	41 31.00	
	1.7s	2196.00nm	CRP	84.35	29 eP	36 58.86	-3.2X			(PPP)	43 24.00	
	e	35 21.00			ePP	40 12.02				i	48 17.00	
	i	36 54.00	BRW	84.42	18 ePd	37 02.30	0.3			i	48 35.00	
	iS	42 58.00	IMA	84.45	24 ePc	37 01.88	-0.5			iPS	50 03.00	
	ePS	43 15.00		1.3s	198.50nm		6.2mb			e	55 00.00	
	e	44 23.00			ePP	40 22.00		SIT	92.94	33 eP	37 40.60	-2.2
	iSS	49 36.00	AFIF	84.61	294 eP	37 06.00	2.0		1.3s	41.38nm		5.7mb
AFI	61.70	106 (P)	ARO	84.79	281 eP	37 09.00	4.0X	Z	19s	34.88um		6.8MsZ
	esP	34 59.03	KMTA	84.81	288 eP	37 06.67	1.4			PP	40 50.00	
FRU	63.04	319 eP-	PMO	84.82	105 iPd	37 07.00	2.0	KBS	93.84	350 eP	37 52.00	5.3X
Z	20s	95.00um		1.9s	1558.10nm		6.9mb	GPA	95.02	310 iP	37 59.00	6.1X
N	23s	93.00um	ABHA	84.92	288 eP	37 08.67	2.8X	HLW	95.05	300 ePd	37 56.00	2.9X
E	20s	95.00um	TPT	85.09	105 iPd	37 08.40	2.1			i	41 55.00	
	i	37 12.00		1.9s	1892.30nm		7.0mb			eSKS	48 39.00	
SMY	64.31	29 eP	VAH	85.09	105 iPd	37 08.40	2.1			e	48 55.00	
	1.3s	396.59nm		1.9s	1292.40nm		6.8mb			eS	49 10.00	
	Z	21s	SLKM	85.20	29 ePc	37 04.62	-1.5	EYL	95.11	311 eP	37 59.90	6.5X
			RUV	85.32	105 iPd	37 09.50	2.0	MNK	95.18	324 eP	37 52.00	-1.2
CSY	68.27	187 eP		1.7s	1164.60nm		6.8mb			e	41 49.00	
	0.8s	23.90nm	PYA	85.46	314 iPc	37 07.00	-0.8	KIS	95.31	317 eP	38 01.00	7.0X
ADK	68.65	33 (P)			i	40 21.00				i	41 46.00	
	1.2s	198.86nm			iS	47 38.00		TRO	95.53	341 eP	37 57.50	2.9
MAIO	71.95	308 iPd			IPS	48 40.00		NUR	95.55	331 eP	37 55.00	0.2
	1.2s	204.86nm	PMR	85.84	28 ePc	37 07.64	-1.6	Z	22s	76.00um		7.1MsZ
	eS	45 14.00		1.1s	334.43nm		6.5mb			eS	48 24.00	
ASH	73.20	309 P	Z	21s	68.85um		7.0MsZ			LR	22 00.00	
Z	17s	62.07um			S	47 48.73		ELL	95.67	307 eP	38 04.50	8.4X
E	18s	41.81um	COL	86.73	25 eP	37 11.64	-2.0	KSL	95.99	306 eP	38 03.60	6.2X
	i	36 13.00		0.8s	17.80nm		5.3mb	CFR	96.04	315 eP	37 53.00	-4.3X
	i	36 21.00	FBA	86.73	25 ePc	37 11.35	-2.3	EDC	96.87	311 eP	38 07.00	5.8X
	i	38 42.00		1.4s	37.05nm		5.4mb	VRI	96.94	316 ePc	38 02.50	1.1
	S	45 32.00			ePP	40 40.31		PTT	97.01	317 eP	38 05.00	3.3X
	i	45 52.00	TOA	87.27	28 eP	37 16.20	-0.2	CIN	97.03	308 eP	38 05.00	3.0X
	i	46 00.00	KLU	87.36	29 eP	37 16.51	-0.3	BFT	97.37	244 eP	38 07.00	3.0
	iPS	46 06.00			ePP	40 51.84			1.0s	50.00nm		6.0mb
	i	46 08.90	SOC	87.87	313 eP	37 22.00	2.5X	MLR	97.54	316 eP	38 03.00	-1.3
	iSS	50 13.00		3.0s	580.00nm		6.4mb	BUC	97.60	315 ePc	38 06.00	1.6
RAR	74.08	112 (P)			e	47 55.00		BUC1	97.66	315 ePd	38 10.00	5.3X
	1.7s	453.36nm			eSS	53 44.00		LVV	98.05	321 eP	38 13.00	6.7X



Z	21s		44.10um			6.9Msz
N	20s		47.80um			
E	20s		57.20um			
			i	42	13.00	
			ePPP	44	19.00	
			e	48	46.00	
			iPS	50	59.00	
			eSS	56	17.00	
CMP	98.20	316	ePd	38	08.00	0.8
PRK	98.23	310	eP	38	14.10	6.7X
RDO	98.51	312	eP	38	15.00	6.4X
TNR	98.67	316	ePd	38	15.00	5.8X
SLR	98.96	244	eP	38	10.50	-0.6
	1.0s		30.00nm			5.8mb
Z	20s		74.00um			7.2Msz
			e	42	15.00	
UPP	99.11	331	eP	38	07.00	-3.8X
			iPP	42	15.00	
			iSKS	48	48.00	
			iS	49	36.00	
NPS	99.31	306	eP	38	20.00	7.6X
UZH	99.40	320	eP	38	12.50	0.0
			i	42	17.00	
			iPPP	44	27.00	
			iS	49	41.00	
			iPS	51	21.00	
			iSS	56	28.00	
			iSSS	00	15.00	
OUR	99.81	311	eP	38	20.74	6.2X
GRM	99.88	237	eP	38	17.00	1.9
	1.0s		80.00nm			6.2mb
Z	22s		74.10um			7.1Msz
			e	42	10.00	
SRS	99.96	312	eP	38	21.10	5.8X
DAG	100.07	353	iPdfff38	13.80		-1.1
	0.8s		20.15nm			5.7mb
Z	18s		50.86um			7.1Msz
N	21s		31.54um			
E	21s		25.81um			
			iPP	41	28.80	
PAIG	100.11	311	ePdfff38	21.90		6.0X
KSR	100.19	244	ePdfff38	18.00		1.1X
			e	42	14.50	
SOH	100.19	312	ePdfff38	22.30		5.9X
ATH	100.41	309	ePdfff38	23.00		5.7X
VAM	100.43	306	ePdfff38	25.00		7.5X
KNT	100.47	312	ePdfff38	18.54		1.0X
THE	100.52	312	ePdfff38	23.66		6.0X
BLF	100.58	241	ePdfff38	18.50		0.0X
	1.0s		60.00nm			6.1mb
			e	42	36.00	
SPC	100.59	320	ePdfff38	21.80		3.7X
			e	42	04.60	
			iPP	42	36.10	
HFS	100.87	332	ePdfff38	17.20		-1.6
	1.4s		48.30nm			5.9mb
GRG	100.88	312	ePdfff38	24.94		5.6X
LIT	100.97	311	ePdfff38	25.66		5.8X
VLI	101.23	308	ePdfff38	26.00		5.0X
AGG	101.29	310	ePdfff38	26.46		5.2X
BOSA	101.30	241	ePdfff38	23.21		1.8
	1.2s		35.30nm			5.8mb
			iPP	42	37.04	
SKO	101.39	313	iPdfff38	28.00		6.4X
	1.6s		200.00nm			6.4mb
			i	41	57.00	
			iPP	42	35.00	
			ePPP	44	55.00	
			i	47	04.00	
			iSKS	49	15.00	
			iPS	51	38.50	
			i	57	55.00	
LBTB	101.43	245	iPdfff38	24.53		2.3X
	1.2s		18.16nm			5.5mb
KZN	101.47	311	ePdfff38	27.50		5.4X
YKA	101.53	25	Pdfff38	21.90		0.2
	1.4s		13.00nm			5.3mb
OKC	101.75	321	ePdfff38	28.00		5.0X
			e	39	21.50	
			e	41	49.00	

	1.2s	110.00nm		6.4mb
		i	38 30.50	
		e	41 56.00	
SRO	102.19	319 ePdiff38	20.80	-4.1X
		ePP	42 36.80	
GMW	102.30	41 ePdiff38	24.88	-0.6
UZD	102.33	318 e(Pdiff38	27.00	1.4
ZST	102.86	320 ePdiff38	31.20	3.2X
		ePP	42 47.80	
		eSKS	49 07.00	
		LR	38 00.00	
KONO	102.96	333 (Pdiff38	26.67	-1.4
KONO	102.96	333 ePdiff38	41.97	13.9X
		i	42 48.60	
ARC	103.02	48 ePdiff38	29.42	0.6
Z	22s	86.00um		7.2MsZ
		ePP	42 41.42	
		eSKS	49 11.42	
		iPS	51 50.42	
		eSS	57 47.42	
		iSSS	01 47.42	
		eLQ	07 06.42	
		eLR	11 03.42	
SHW	103.02	42 (Pdiff38	36.53	7.6X
VKA	103.35	320 ePdiff38	36.00	5.9X
Z	19s	38.30um		6.9MsZ
		e	42 07.00	
		iPP	42 54.80	
YBH	103.82	47 ePdiff38	32.52	0.0
Z	20s	84.00um		7.3MsZ
		ePP	42 48.52	
		eSKS	49 14.52	
		iPS	51 49.52	
		iSS	56 48.52	
		eSSS	01 04.52	
		eLQ	07 16.52	
		eLR	11 54.52	
PRU	103.93	322 Pdiff	38 32.60	-0.1
	1.9s	132.00nm		6.4mb
Z	18s	49.80um		7.1MsZ
N	23s	46.10um		
E	23s	66.10um		
		e	38 37.00	
		e	38 39.30	
		PP	42 50.00	
		SKS	49 17.30	
		eSDIF	50 25.00	
		eSP	51 53.00	
		eSS	57 28.00	
BRG	104.00	323 ePdiff38	33.00	0.0
	1.4s	70.00nm		6.3mb
		i	38 40.00	
		iSKS	49 22.00	
		iSDIF	50 31.00	
VGB	104.18	42 ePdiff38	35.51	1.5
WDC	104.22	48 ePdiff38	35.21	1.0
Z	22s	142.00um		7.5MsZ
		ePP	42 52.21	
		iSKS	49 14.21	
		eSP	51 48.21	
		iPS	51 59.21	
		eSS	57 54.21	
		eSSS	01 10.21	
		eLQ	07 29.21	
		eLR	12 27.21	
WDC	104.22	48 Pdiff	38 40.00	5.8X
Z	20s	95.54um		7.3MsZ
CLL	104.41	324 ePdiff38	37.00	2.2X
	2.0s	105.00nm		6.4mb
Z	18s	51.00um		7.1MsZ
		eS	50 26.00	
		P'P'	02 30.00	
MUD	104.52	330 ePdiff38	41.30	6.2X
	1.0s	34.00nm		6.2mb
KHC	104.80	322 ePdiff38	35.50	-1.2
	1.2s	18.00nm		5.9mb
		e	38 43.50	
		e	39 09.50	
		e	42 02.70	
		ePP	42 50.00	
		e	43 00.00	
		eSKS	49 20.00	
		eSDIF	50 24.00	
KMR	104.80	321 iPdiff38	41.60	5.0X
		iPP	43 03.20	
GEC2	104.82	321 e(Pdif38	35.90	-0.9
	1.2s	2.70nm		5.0mb X

MIN	104.97	48	ePdiff38	37.71	-0.1
Z	22s	83.00um			7.2MsZ
		ePP	42	50.71	
		iSKS	49	25.71	
		iPS	52	11.71	
		eSS	57	21.71	
		eSSS	01	27.71	
		eLQ	07	53.71	
		eLR	12	51.71	
BKS	105.09	50	ePdiff38	29.37	-8.8X
Z	21s	74.00um			7.2MsZ
		ePP	42	59.37	
		eSKS	49	14.37	
		iPS	52	11.37	
		eSSS	57	21.37	
		eLQ	07	39.37	
		eLR	11	37.37	
LJU	105.17	318	(Pdiff38	44.00	5.7X
LJU	105.17	318	(PKP)	42	46.00
		(SKS)	49	24.00	-6.8X
STAN	105.24	51	ePdiff38	37.84	-1.0
Z	19s	69.00um			7.2MsZ
		ePP	42	42.84	
		eSKS	49	15.84	
		iPS	52	13.84	
		iSS	57	21.84	
		eLQ	07	47.84	
		eLR	11	38.84	
ORV	105.24	49	ePdiff38	39.39	0.6
Z	22s	62.00um			7.1MsZ
		ePP	42	56.39	
		iSKS	49	19.39	
		iPS	52	13.39	
		iSS	57	25.39	
		eSSS	01	38.39	
		eLQ	07	45.39	
		eLR	12	10.39	
ORV	105.24	49	ePdiff38	49.24	10.4X
Z	20s	123.00um			7.4MsZ
		ePP	43	09.24	
		eSKS	49	26.24	
		iPS	52	32.24	
		eSS	58	51.24	
		eLQ	08	19.24	
		eLR	13	09.24	
MOX	105.47	324	ePdiff38	41.40	1.9
	2.0s	111.00nm			6.5mb
Z	21s	50.00um			7.0MsZ
		ePP	43	02.80	
		eSKS	49	35.00	
		eSDIF	51	05.00	
KBA	105.62	320	i(Pdiff38	46.90	6.4X
	1.2s	103.00nm			6.7mb
		i	41	54.60	
		i	42	10.00	
		i	43	12.20	
		i	43	18.90	
MHC	105.67	51	ePdiff38	41.19	0.3
Z	19s	78.00um			7.3MsZ
		ePP	43	07.19	
		iSKS	49	17.19	
		iPS	52	12.19	
		iSS	57	37.19	
		eLQ	07	48.19	
		eLR	12	36.19	
NEW	105.71	39	ePKP	42	53.00
Z	20s	135.51um			-0.8
		SP	52	20.04	7.5MsZ
ARN	105.75	51	ePKPc	42	53.59
TRI	105.79	318	ePdiff38	56.00	-0.6
SAO	105.96	51	ePdiff38	41.99	15.0X
Z	19s	100.00um			-0.1
		ePP	43	02.99	7.4MsZ
		eSKS	49	23.99	
		ePS	52	11.99	
		eSS	57	22.99	
		eLQ	07	55.99	
		eLR	11	18.99	
GRF	106.05	323	Pdiff	38	46.00
Z	20s	58.50um			3.8X
		e	42	14.80	7.1MsZ
		ePP	43	06.60	
CMB	106.47	50	ePdiff38	44.31	0.0
Z	22s	83.00um			7.2MsZ
		ePP	43	01.31	
		i	49	26.31	
		iPS	52	13.31	



		iSS	58	25.31		MEO	123.95	46 iPKPc	43	31.00	2.0	LPZA	158.21	135 iPKPc	44	29.90	1.3
		eLQ	08	13.31		FIG	124.07	317 ePKP	43	18.00	-11.1X	CCH	158.77	141 PKP	44	33.40	4.6X
		eLR	12	57.31		OCO	124.36	45 iPKPc	43	31.10	1.4	SDV	159.22	61 ePKP	44	29.00	-0.2
CMB	106.47	50 PKP	43	10.00	14.4X	FNO	124.55	45 iPKPc	43	36.00	5.9X	TOV	159.52	58 ePKP	44	33.50	4.2X
Z	20s	56.66um			7.1Msz	TUL	125.33	43 iPKPd	43	31.10	-0.5	CDCB	159.52	201 ePKP	44	32.60	3.4X
WTTA	106.66	320 i(Pdif38	51.90	6.7X		CCM	127.07	38 PKP	43	34.22	-0.6			e	44	36.40	
	1.8s	243.00nm			6.9mb	UYO	127.19	44 iPKPd	43	33.90	-1.3			e	44	45.00	
		i	41	57.00		SLM	127.33	37 PKP	43	50.00	14.7X			e	45	11.70	
		i	42	07.30		Z	19s	43.19um			7.1Msz			e	55	47.80	
		i	43	14.10		MIAR	127.59	43 ePKP	43	35.30	-0.7	PAG	160.68	28 ePKP	44	25.00	-5.5X
WATA	106.67	320 i(Pdif38	51.70	6.5X		Z	21s	106.24um			7.5Msz	CAR	161.46	52 iPKPd	44	32.00	0.6
		i	43	13.60				ePP	45	37.48		FDf	162.05	29 ePKP	44	39.90	8.1X
SQTA	106.95	320 i(Pdif38	53.20	6.8X		FVM	127.62	38 ePKP	43	35.12	-0.8	BIM	162.28	29 ePKP	44	36.00	4.0X
	1.9s	275.00nm			7.0mb	Z	20s	208.78um			7.8Msz	SIV	162.77	150 PKP	44	33.20	0.7
		i	43	15.70				ePP	45	35.38		BDFB	164.87	196 PKP	44	34.87	0.2
WIT	107.41	327 ePKP	43	13.00	16.3X	ELC	128.80	38 ePKP	43	37.28	-0.9			S.D.	= 1.2	on 260 of 413 obs.	
WTS	107.69	326 ePdiff38	57.50	8.2X				ePP	45	51.60		? JAN	21, 1994	02h 50m	16.03±	0.86s	
	2.0s	133.30nm			6.7mb	ELF	128.85	27 PKP	43	47.25	9.2X			0.851 N ± 20.5km	127.682 E	± 51.7km	
BONR	108.08	49 (Pdiff38	49.00	-2.8X		LST	128.97	39 PKP	43	43.70	5.2X			DEPTH = 33.0km	(normal)		
ABL	108.17	53 PKP	43	12.50	13.4X	DLA	128.99	28 PKP	43	47.50	9.1X			5.0mb ( 8 obs.)			
ABL	108.17	53 ePKP	43	05.70	6.6X	LDN	129.03	27 PKP	43	47.50	9.1X			HALMAHERA, INDONESIA		(267)	
DBN	108.54	327 ePKP	43	14.00	15.1X	ACTO	129.08	26 PKP	43	38.82	0.3						
Z	20s	62.40um			7.2Msz	WLVO	129.53	24 PKP	43	39.58	0.3	WB2	21.67	163 eP	55	04.30	-1.7
		ePKKP	52	46.00		TYNO	129.57	26 PKP	43	39.43	0.0		0.9s	18.20nm			4.5mb
		ePPS	53	56.00		PPM	130.31	64 (PKP)	43	47.00	4.8X	ASPA	25.11	166 eP	55	41.10	1.5
ISA	108.56	52 PKP	43	10.00	10.4X	OXF	130.41	41 PKP	43	41.95	0.7		0.8s	32.60nm			5.0mb
Z	21s	114.38um			7.4Msz			Z	21s	58.23um	7.3Msz	XAN	37.40	334 P	57	27.50	-0.3
ENN	108.73	325 ePdiff38	59.50	5.5X		RSNY	130.49	21 PKP	43	42.30	1.1		1.0s	21.00nm			5.0mb
	2.0s	116.70nm															



21d 03h

FTC 0.63 330 P 36 00.15 -0.4  
SSK 0.69 99 eP 36 01.01 -0.8  
eS 36 10.77  
RYS 0.76 295 P 36 03.32 0.0  
ABL 0.79 312 eP 36 02.55 -1.2  
BMTG 0.81 355 P 36 03.07 -1.2  
ARVC 0.84 342 P 36 03.82 -1.0  
TEJ 0.92 351 P 36 03.46 -2.9  
MARC 0.96 315 P 36 06.59 -0.5  
LPC 1.01 280 P 36 07.15 -0.8  
TMB 1.14 312 P 36 10.01 -0.1  
PEC 1.20 111 eP 36 09.53 -1.7  
eS 36 26.47  
WOFM 1.22 352 P 36 11.96 0.4  
WBSM 1.25 14 P 36 11.76 -0.3  
ISA 1.34 1 eP 36 12.18 -1.3  
CRGC 1.35 313 P 36 13.50 -0.4  
SCCM 1.50 295 P 36 15.55 -0.5  
WSHM 1.55 32 P 36 15.73 -1.0  
BCH 1.55 304 ePn 36 15.60 -1.2  
WCHM 1.60 13 P 36 18.78 1.2  
TOW 1.60 22 P 36 17.12 -0.4  
PLM 1.68 125 eP 36 16.43 -2.3  
GSC 1.71 55 eP 36 17.98 -1.1  
VPEM 1.72 19 P 36 20.21 1.0  
WLHM 1.83 5 P 36 22.10 1.1  
PHAM 2.16 315 (P) 36 25.67 0.1  
MTUM 3.02 359 eP 36 43.75 5.8  
TPNV 3.20 34 ePn 36 39.43 -1.1  
MMPM 3.31 353 eP 36 47.90 5.8  
GLA 3.32 111 (Pn) 36 42.59 0.4  
MEMM 3.35 354 eP 36 48.24 5.8  
30 obs. associated  
\* JAN 21, 1994 03h 47m 09.24 ± 1.20s  
34.254 N ± 25.2km 118.568 W ± 15.0km  
DEPTH = 10.0km (geophysicist)  
SOUTHERN CALIFORNIA (43)  
ML 2.6 (GS).  
SSK 0.73 93 eP 47 23.72 0.1  
ABL 0.80 318 eP 47 24.80 -0.2  
PEC 1.22 107 eP 47 32.05 0.0  
S 47 48.40  
BCH 1.56 307 eP 47 37.32 0.2  
PLM 1.68 122 eP 47 38.89 -0.1  
GSC 1.79 54 eP 47 42.51 2.0X  
S.D. = 0.2 on 5 of 6 obs.  
% JAN 21, 1994 03h 52m 13.50 ± 0.94s  
37.241 N ± 7.7km 4.208 W ± 8.1km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)  
mbLg 2.5 (MDD).  
ELOJ 0.10 155 iPd 52 16.10 -0.2  
eS 52 18.20  
ELUQ 0.32 352 iPc 52 19.79 -0.4  
eS 52 25.50  
ECOG 0.51 86 eP 52 24.19 0.3  
eS 52 30.30  
EBAN 0.98 20 eP 52 32.15 0.0  
eS 52 45.00  
EHOR 1.01 305 eP 52 32.97 0.4  
eS 52 46.00  
S.D. = 0.5 on 5 of 5 obs.  
JAN 21, 1994 04h 14m 37.83 ± 0.60s  
42.245 N ± 4.8km 122.028 W ± 6.5km  
DEPTH = 5.0km (geophysicist)  
2.7mb (1 obs.)  
OREGON (32)  
ML 3.1 (GS), 3.3 (BRK).  
YBH 0.72 225 eP 14 52.18 -0.1  
eS 15 03.09  
LASM 0.73 152 P 14 51.59 -0.8  
LMPM 0.76 188 P 14 53.20 -0.1  
LBFM 0.90 173 iPd 14 55.29 -0.5  
LGBM 0.91 188 P 14 55.82 0.0  
LBMM 1.25 203 P 15 01.50 -0.2  
KOMM 1.44 228 P 15 05.78 1.1  
LGPM 1.46 205 eP 15 04.26 -0.7  
eS 15 24.67  
LHCM 1.49 165 P 15 05.36 0.0  
WDC 1.71 193 ePc 15 08.28 -0.1  
LMEM 1.74 168 eP 15 08.96 -0.1

LDBM 1.82 174 P 15 11.09 0.9  
LSLM 1.85 168 P 15 11.60 1.1  
MIN 1.92 170 P 15 13.00 1.3  
KMPPM 2.41 221 (P) 15 18.42 -0.3  
ORV 2.72 171 (P) 15 21.02 -1.9  
VGB 3.39 15 eP 15 32.78 0.2  
BONR 5.15 145 eP 15 58.62 0.9  
YKA 20.75 10 P 19 21.00 -0.7  
0.7s 0.30nm 2.7mb  
S.D. = 0.8 on 19 of 19 obs.  
\* JAN 21, 1994 04h 55m 38.37s  
34.343 N 118.629 W  
DEPTH = 15.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).  
ABL 0.70 316 eP 55 50.36 -1.6  
SSK 0.79 99 eP 55 52.67 -0.7  
PEC 1.30 110 eP 56 00.39 -1.5  
ISA 1.32 5 eP 56 01.69 -0.6  
BCH 1.46 305 eP 56 03.37 -0.9  
PLM 1.77 123 eP 56 08.11 -0.7  
GSC 1.78 57 eP 56 08.05 -0.8  
TPNV 3.24 36 ePn 56 28.75 -1.1  
8 obs. associated  
? JAN 21, 1994 05h 06m 55.81 ± 1.00s  
37.210 N ± 9.0km 4.186 W ± 8.5km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)  
mbLg 2.2 (MDD).  
ELOJ 0.07 157 eP 06 58.20 0.0  
eS 07 01.00  
ECOG 0.50 82 eP 07 06.00 0.0  
eS 07 13.00  
EBAN 1.00 18 eP 07 14.80 0.0  
eS 07 27.00  
EHOR 1.04 306 eP 07 15.50 0.0  
eS 07 30.00  
S.D. = 0.1 on 4 of 4 obs.  
? JAN 21, 1994 05h 08m 52.39 ± 1.08s  
31.380 S ± 24.4km 68.604 W ± 47.2km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)  
RTLL 0.13 67 ePd 09 06.70 -0.2  
RTCB 0.20 238 ePd 09 06.50 -0.7  
RTCV 0.48 173 iPd 09 08.90 0.6  
S 09 21.00  
RTRS 1.41 328 iPd 09 18.20 0.3  
S 09 38.00  
S.D. = 0.9 on 4 of 4 obs.  
JAN 21, 1994 05h 12m 57.14 ± 0.74s  
44.261 N ± 4.2km 8.249 E ± 5.6km  
DEPTH = 10.0 ± 4.5 km  
NORTHERN ITALY (545)  
ML 2.3 (GEN).  
FIN 0.06 210 P 12 59.27 -0.2  
S 13 00.50  
ROB 0.27 277 P 13 02.93 0.0  
S 13 06.54  
PCP 0.35 37 P 13 04.57 0.2  
S 13 09.65  
IMI 0.44 217 P 13 05.26 -0.8  
S 13 10.93  
SAOF 0.57 241 Pg 13 08.25 -0.5  
Sg 13 15.76  
ENR 0.60 267 P 13 09.04 -0.2  
S 13 16.48  
AUTN 0.65 246 Pg 13 10.12 -0.2  
STV 0.66 269 P 13 10.53 0.1  
S 13 18.66  
AURF 0.76 241 Pg 13 12.09 0.0  
TOUF 0.76 251 Pg 13 12.12 -0.1  
REVf 0.82 231 Pg 13 13.65 0.6  
PZZ 0.86 287 P 13 13.51 -0.3  
S 13 24.09  
MVIF 0.87 246 Pg 13 14.70 0.7  
BHB 0.91 310 P 13 14.83 0.2  
S 13 26.90  
CALN 1.11 243 Pg 13 18.86 0.9  
RSP 1.14 322 P 13 18.06 -0.5

S 13 31.76  
S.D. = 0.5 on 16 of 16 obs.  
% JAN 21, 1994 05h 15m 37.33 ± 0.96s  
44.235 N ± 6.8km 8.247 E ± 7.4km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.9 (GEN).  
FIN 0.04 228 P 15 39.71 0.3  
S 15 40.90  
ROB 0.28 283 P 15 43.37 0.2  
S 15 46.94  
PCP 0.37 35 P 15 44.97 -0.1  
S 15 50.60  
IMI 0.41 219 P 15 45.79 0.0  
S 15 52.02  
ENR 0.59 270 P 15 46.84 -0.6  
S 15 57.08  
PZZ 0.87 289 P 15 54.17 0.1  
BHB 0.93 311 P 15 55.22 0.1  
S.D. = 0.3 on 7 of 7 obs.  
? JAN 21, 1994 05h 20m 45.03 ± 0.96s  
1.079 N ± 37.7km 128.016 E ± 94.8km  
DEPTH = 33.0km (normal)  
4.4mb (5 obs.)  
HALMAHERA, INDONESIA (267)  
WB2 21.80 164 eP 25 35.90 -0.4  
0.9s 15.90nm 4.4mb  
i 25 39.30  
e 27 32.80  
STK 35.22 160 eP 27 38.80 0.4  
0.9s 3.00nm 4.2mb  
XAN 37.35 333 P 27 55.60 -0.8  
1.0s 8.90nm 4.6mb  
TIY 39.18 340 eP 28 14.00 2.2  
BJI 40.25 346 eP 28 19.00 -1.4  
1.0s 6.00nm 4.3mb  
LZH 41.42 330 eP 28 30.50 0.1  
1.6s 27.00nm 4.7mb  
WMQ 55.62 325 P 30 20.00 -0.2  
S.D. = 1.4 on 7 of 7 obs.  
\* JAN 21, 1994 05h 21m 17.26s  
67.382 N 145.882 W  
DEPTH = 16.0km  
NORTHERN ALASKA (676)  
<AEIC>. ML 3.6 (AEIC), 3.6 (PMR).  
BALM 6.55 165 eP 22 55.47 0.1  
BC3 14.02 96 eP 22 28.22 -1.3  
BM3 14.02 96 eP 21 26.98 -1.3  
eS 21 34.36  
BWN 14.02 96 eP 22 12.59 -1.3  
CCB 14.02 96 eP 22 02.53 -1.3  
CP2 14.02 96 eP 22 55.95 -1.3  
CRP 14.02 96 eP 22 55.93 -1.3  
CTGM 14.02 96 eP 22 58.07 -1.3  
CUT 14.02 96 eP 22 37.02 -1.3  
DDM 14.02 96 eP 22 14.74 -1.3  
DHY 14.02 96 eP 22 25.58 -1.3  
DOT 14.02 96 eP 22 16.45 -1.3  
FBA 14.02 96 eP 21 59.00 -1.3  
FYU 14.02 96 eP 21 33.92 -1.3  
S 21 46.73  
GLB 14.02 96 eP 22 46.00 -1.3  
GLM 14.02 96 eP 21 57.63 -1.3  
eS 22 28.14  
HDA 14.02 96 eP 22 06.24 -1.3  
IL1 14.02 96 eP 22 00.86 -1.3  
eS 22 32.51  
ILB 14.02 96 eP 22 00.91 -1.3  
S 22 31.38  
IM3 14.02 96 eP 22 09.44 -1.3  
IMA 14.02 96 ePn 22 08.59 -1.3  
ePg 22 16.99  
KLU 14.02 96 (P) 22 43.80 -1.3  
KNK 14.02 96 eP 22 48.29 -1.3  
MCK 14.02 96 eP 22 17.21 -1.3  
MDM 14.02 96 eP 21 59.08 -1.3  
eS 22 31.28  
MLY 14.02 96 eP 22 05.00 -1.3  
NCG 14.02 96 eP 22 54.08 -1.3  
NEA 14.02 96 eP 22 06.26 -1.3



21d 05h

PAX 14.02 96 eP 22 25.80 -1.3  
 PMR 14.02 96 eP 22 45.71 -1.3  
 PWA 14.02 96 eP 22 48.70 -1.3  
 PWL 14.02 96 eP 22 57.00 -1.3  
 SKT 14.02 96 eP 22 46.28 -1.3  
 SLKM 14.02 96 eP 23 04.41 -1.3  
 SML 14.02 96 eP 22 41.88 -1.3  
 SUA 14.02 96 eP 22 50.21 -1.3  
 SVW 14.02 96 (P) 23 07.83 -1.3  
 TOA 14.02 96 P 22 38.50 -1.3  
 TRF 14.02 96 eP 22 23.64 -1.3  
 TTA 14.02 96 (P) 22 46.16 -1.3  
 WRH 14.02 96 eP 22 06.53 -1.3  
 YKA 14.02 96 P 24 35.70 -1.3  
 0.4s 0.50nm 3.6mb  
 42 obs. associated

? JAN 21, 1994 05h 21m 20.54± 8.71s  
 38.268 N ±16.0km 26.721 E ±76.2km  
 DEPTH = 33.0km (normal)  
 AEGEAN SEA (365)  
 ML 3.2 (ISK).

IZM 0.45 73 iPg 21 30.10 -0.3  
 eSg 21 35.60  
 CIN 1.27 121 iPg 21 42.00 0.0  
 iSg 21 53.00  
 DST 2.00 47 iPn 21 52.60 -0.1  
 KHL 2.21 88 ePn 21 57.00 1.4X  
 ALT 2.77 72 ePn 22 04.00 0.4  
 S.D. = 0.5 on 4 of 5 obs.

& JAN 21, 1994 05h 29m 20.54s  
 34.351 N 118.560 W  
 DEPTH = 14.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.3 (GS).

FTC 0.59 332 P 29 31.42 -0.7  
 RYS 0.72 294 P 29 33.86 -0.6  
 SSK 0.73 101 eP 29 34.11 -0.6  
 ABL 0.74 313 ePc 29 33.65 -1.2  
 PLEC 0.74 326 P 29 34.68 -0.2  
 BMTC 0.78 358 P 29 32.72 -2.8  
 ARVC 0.81 344 P 29 35.40 -0.4  
 TEJ 0.88 353 P 29 35.84 -1.3  
 MARC 0.91 316 P 29 37.34 -0.3  
 LPC 0.96 279 P 29 37.82 -0.8  
 WJPM 1.06 4 P 29 39.45 -0.8  
 TMB 1.09 313 P 29 40.45 -0.2  
 WBSM 1.23 16 P 29 43.32 0.1  
 PEC 1.25 111 eP 29 42.20 -1.2  
 eS 29 59.71

CRGC 1.31 313 P 29 43.99 -0.4  
 ISA 1.31 3 eP 29 43.78 -0.6  
 WORM 1.37 11 P 29 46.20 1.0  
 SCCM 1.45 294 P 29 46.45 0.1  
 BCH 1.51 304 ePn 29 46.06 -1.1  
 WSHM 1.55 34 P 29 46.95 -0.8  
 WCHM 1.58 14 P 29 50.36 1.9  
 TOW 1.59 24 P 29 48.25 -0.2  
 VPBM 1.71 21 P 29 51.61 1.5  
 GSC 1.73 56 eP 29 49.90 -0.5  
 PLM 1.73 125 eP 29 49.28 -1.2  
 RCWM 1.76 25 P 29 53.38 2.5  
 WLHM 1.81 6 P 29 54.86 3.1  
 PHAM 2.11 315 (P) 29 54.70 -1.2  
 MTUM 3.00 360 ePg 30 14.94 6.3  
 TPNV 3.20 35 ePn 30 10.55 -1.0  
 MMPM 3.27 353 ePg 30 19.11 6.4  
 MEMM 3.32 355 ePg 30 20.39 7.3  
 BONR 3.60 3 ePg 30 26.34 9.0  
 ARUT 5.38 49 (Pn) 30 43.66 1.2  
 34 obs. associated

% JAN 21, 1994 05h 45m 57.65± 0.92s  
 37.234 N ± 8.0km 4.223 W ±11.2km  
 DEPTH = 10.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.4 (MDD).

ELOJ 0.10 147 iP 46 00.00 -0.5  
 eS 46 02.20  
 ELUQ 0.33 354 iPd 46 03.84 -0.6  
 eS 46 09.90  
 EGUA 0.66 127 eP 46 11.21 0.4  
 eS 46 20.50

EBAN 0.99 20 eP 46 16.82 0.4  
 eS 46 28.90  
 EHOR 1.01 306 eP 46 17.04 0.4  
 eS 46 30.10  
 S.D. = 0.7 on 5 of 5 obs.

& JAN 21, 1994 05h 49m 56.60s  
 34.283 N 118.578 W  
 DEPTH = 4.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 3.1 (GS).

RYS 0.73 300 P 50 10.52 -0.8  
 SSK 0.74 95 eP 50 10.37 -1.0  
 eS 50 21.00  
 ABL 0.78 317 eP 50 10.45 -1.9  
 BMTC 0.85 359 P 50 12.01 -1.6  
 ARVC 0.87 346 P 50 12.52 -1.3  
 TEJ 0.95 354 P 50 12.96 -2.3  
 MARC 0.95 319 P 50 13.71 -1.6  
 LPC 0.96 283 P 50 14.18 -1.3  
 PEC 1.24 108 eP 50 18.48 -1.7  
 WOFM 1.25 355 P 50 19.95 -0.5  
 CRGC 1.34 316 P 50 20.94 -1.0  
 ISA 1.38 4 ePn 50 20.79 -1.8  
 SCCM 1.47 297 P 50 22.34 -1.5  
 BCH 1.53 306 eP 50 22.71 -2.1  
 WSHM 1.62 33 P 50 26.51 0.6  
 TOW 1.66 23 P 50 28.57 2.0  
 PLM 1.70 123 eP 50 26.20 -1.1  
 GSC 1.78 55 eP 50 27.21 -1.1  
 RCWM 1.83 24 P 50 30.97 1.9  
 MTUM 3.06 0 ePg 50 52.20 5.4  
 TPNV 3.27 35 (Pn) 50 48.67 -1.0  
 MMPM 3.34 354 ePg 50 56.68 5.8  
 MEMM 3.39 355 ePg 50 57.65 6.4  
 BONR 3.67 3 ePg 51 03.15 7.6  
 24 obs. associated

& JAN 21, 1994 05h 56m 04.80s  
 34.272 N 118.650 W  
 DEPTH = 11.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.5 (GS).

RYS 0.69 303 P 56 17.39 -1.0  
 ABL 0.75 321 eP 56 17.84 -1.5  
 PLEC 0.78 334 P 56 19.56 -0.3  
 SSK 0.80 94 iPc 56 19.30 -0.9  
 ARVC 0.87 350 P 56 20.51 -0.8  
 LPC 0.91 285 P 56 20.90 -1.2  
 TEJ 0.96 358 P 56 21.48 -1.4  
 TMB 1.09 318 P 56 24.60 -0.6  
 WOFM 1.26 358 P 56 27.53 -0.6  
 PEC 1.29 107 eP 56 26.35 -2.3  
 eS 56 45.02  
 WBSM 1.33 18 P 56 28.39 -0.9  
 ISA 1.40 6 eP 56 28.61 -1.5  
 SCCM 1.42 298 P 56 29.44 -1.0  
 BCH 1.49 308 eP 56 30.05 -1.5  
 WSHM 1.66 35 P 56 31.64 -2.2  
 WCHM 1.68 16 P 56 33.06 -1.3  
 PLM 1.75 121 eP 56 33.35 -2.0  
 GSC 1.83 55 eP 56 35.52 -0.9  
 PTRM 1.88 318 P 56 35.90 -1.2  
 WLHM 1.90 8 P 56 39.86 2.3  
 PHAM 2.12 318 eP 56 38.86 -1.7  
 PHBM 2.29 330 P 56 45.54 2.5  
 PANM 2.39 310 P 56 41.91 -2.4  
 PJLM 2.74 312 P 56 46.77 -2.6  
 BHPR 3.02 2 P 56 59.38 5.8  
 MTUM 3.08 1 ePn 56 53.94 -0.3  
 BPOM 3.21 308 P 56 52.68 -3.4  
 TPNV 3.31 36 ePn 56 56.14 -1.5  
 MMPM 3.35 355 (Pn) 56 58.94 0.7  
 SAO 3.37 318 P 56 55.79 -2.6  
 FRP 3.39 318 P 56 56.20 -2.4  
 MEMM 3.40 356 ePn 56 59.06 0.5  
 HCOM 3.61 317 P 56 59.38 -2.3  
 BONR 3.69 4 ePg 57 11.61 8.5  
 TNP 3.97 17 ePg 57 17.28 10.2  
 CMB 4.01 340 (P) 57 04.31 -3.1  
 ARUT 5.49 49 ePn 57 27.52 -1.0  
 MSU 6.72 49 (Pn) 57 45.53 -0.4  
 DUG 7.52 37 ePg 58 26.56 29.5  
 39 obs. associated

JAN 21, 1994 06h 18m 50.73± 0.64s  
 44.253 N ± 4.0km 8.236 E ± 5.1km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.3 (GEN).

FIN 0.05 205 P 18 52.94 0.0  
 S 18 54.31  
 ROB 0.27 279 P 18 56.69 0.3  
 S 19 00.40  
 PCP 0.36 37 P 18 58.29 0.0  
 S 19 02.92  
 IMI 0.42 216 P 18 59.07 -0.3  
 S 19 04.56  
 SAOF 0.56 242 Pg 19 02.22 0.1  
 Sg 19 09.89  
 ENR 0.59 268 P 19 02.51 -0.2  
 S 19 10.15  
 AUTN 0.64 246 Pg 19 03.82 0.1  
 STV 0.66 270 P 19 03.26 -0.6  
 S 19 12.01  
 AURF 0.75 241 Pg 19 05.47 0.0  
 TOUF 0.75 252 Pg 19 05.78 0.2  
 Sg 19 16.42  
 PZZ 0.85 288 P 19 07.17 -0.1  
 S 19 17.92  
 MVIF 0.86 246 Pg 19 07.77 0.4  
 Sg 19 19.24  
 BHB 0.91 311 P 19 08.13 -0.1  
 S 19 19.65  
 RSP 1.14 323 P 19 12.11 0.0  
 S.D. = 0.3 on 14 of 14 obs.

% JAN 21, 1994 06h 57m 14.68± 0.88s  
 44.270 N ± 6.3km 8.222 E ± 7.7km  
 DEPTH = 5.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.6 (GEN).

FIN 0.06 189 P 57 16.63 0.3  
 S 57 17.78  
 ROB 0.25 276 P 57 20.25 0.4  
 S 57 23.73  
 PCP 0.36 40 P 57 21.90 0.0  
 S 57 26.79  
 IMI 0.43 214 P 57 22.95 -0.4  
 S 57 28.81  
 BHB 0.89 310 P 57 31.96 -0.3  
 S.D. = 0.5 on 5 of 5 obs.

\* JAN 21, 1994 07h 37m 09.19± 1.32s  
 1.420 S ±16.2km 139.786 E ±14.2km  
 DEPTH = 33.0km (normal)  
 4.1mb (2 obs.)  
 NEAR NORTH COAST OF IRIAN JAYA (197)

OKTD 4.18 159 eP 38 13.40 1.1  
 WWKK 4.41 120 eP 38 15.20 -0.5  
 WB2 19.16 196 eP 41 32.30 -0.5  
 1.2s 12.30nm 4.0mb  
 eS 44 48.50  
 ASPA 22.84 194 eP 42 10.40 -0.3  
 1.0s 10.10nm 4.3mb  
 eS 46 20.00  
 CHTO 44.89 299 eP 45 23.10 0.3  
 S.D. = 1.0 on 5 of 5 obs.

& JAN 21, 1994 07h 53m 54.22s  
 34.356 N 118.519 W  
 DEPTH = 4.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.9 (GS).

SSK 0.70 102 eP 54 07.67 -0.5  
 ABL 0.76 311 iPd 54 08.31 -1.2  
 PEC 1.22 112 eP 54 16.14 -1.3  
 eS 54 33.26  
 ISA 1.30 2 eP 54 17.55 -1.4  
 BCH 1.53 303 eP 54 21.68 -0.8  
 GSC 1.70 56 eP 54 23.63 -1.2  
 PLM 1.70 125 eP 54 23.38 -1.6  
 PHAM 2.13 314 eP 54 31.50 0.4  
 MTUM 2.99 359 ePg 54 49.29 5.8  
 TPNV 3.18 35 ePn 54 45.40 -0.7  
 eS 55 37.36  
 MMPM 3.27 353 ePg 54 53.41 5.8  
 MEMM 3.32 354 ePg 54 54.87 6.9



21d 07h

BONR 3.60 3 ePg 55 00.74 8.6  
13 obs. associated

? JAN 21, 1994 08h 05m 44.23± 4.71s  
40.293 N ±12.3km 27.337 E ±34.8km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.0 (ISK).

EDC	0.41	82	iPn	05	52.50	0.0
CTT	1.19	44	iPn	06	06.30	-0.1
DST	1.21	124	iPn	06	06.70	0.0
YLV	1.58	79	ePn	06	13.00	0.6
IZI	1.63	88	ePn	06	12.80	-0.4

S.D. = 0.5 on 5 of 5 obs.

? JAN 21, 1994 08h 35m 50.54±11.87s  
43.329 N ±49.4km 128.718 W ±82.0km  
DEPTH = 10.0km (geophysicist)  
OFF COAST OF OREGON (30)

HBO	4.68	81	P	37	02.93	-0.1
SSOR	4.76	69	Pd	37	03.86	-0.3
PGO	4.97	62	P	37	07.15	0.2
GT2	4.98	66	Pd	37	07.23	0.1
BMW	5.01	49	P	37	07.14	-0.4
RVW	5.10	54	P	37	08.84	0.0
BPO	5.24	73	P	37	11.18	0.2
MTMW	5.37	58	P	37	12.54	-0.1
VBEM	5.41	69	P	37	13.29	-0.1
SHW	5.43	56	eP	37	13.77	0.1
CDFW	5.51	57	P	37	14.85	0.2
ASR	5.81	58	P	37	19.04	0.2
LON	5.97	53	eP	37	21.00	-0.1
REMR	5.99	52	P	37	21.66	0.2
FMW	6.15	52	P	37	23.72	0.0
HTW	6.62	45	P	37	29.99	-0.3
JCW	6.80	42	P	37	33.18	0.4
RPW	7.17	42	P	37	37.95	-0.1
YKA	20.91	18	P	40	46.00	10.8X

0.8s 0.40nm  
S.D. = 0.2 on 18 of 19 obs.

& JAN 21, 1994 08h 40m 17.23s  
34.358 N 118.680 W  
DEPTH = 13.9km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).

FTC	0.54	341	P	40	27.29	-0.7
RYS	0.62	297	P	40	28.97	-0.6
ABL	0.66	318	eP	40	29.00	-1.2
PLEC	0.69	332	P	40	30.30	-0.3
ARVC	0.78	351	P	40	31.56	-0.4
SSK	0.83	100	eP	40	32.61	-0.4
MARC	0.84	320	P	40	32.64	-0.5
SNDC	0.84	22	P	40	33.50	0.3
LPC	0.87	279	P	40	32.75	-0.9
TEJ	0.87	359	P	40	33.04	-0.6
TMB	1.01	316	P	40	35.90	-0.2
WJPM	1.06	9	P	40	37.20	0.2
WOFM	1.18	359	P	40	38.70	-0.2
CRGC	1.23	316	P	40	39.45	-0.4
WBSM	1.26	21	P	40	40.66	0.2
ISA	1.31	7	eP	40	40.52	-0.6
PEC	1.34	110	eP	40	40.08	-1.5
SCCM	1.36	296	P	40	41.56	-0.2
WASM	1.38	4	P	40	42.58	0.4
BCH	1.42	306	eP	40	41.87	-0.8
WCHM	1.60	18	P	40	46.60	1.2
WSHM	1.60	37	P	40	44.88	-0.4
GSC	1.81	58	eP	40	47.44	-0.8
PLM	1.81	123	eP	40	46.97	-1.5
PHAM	2.04	317	(P)	40	50.62	-0.9
MTUM	2.99	2	ePg	41	11.31	6.1
TPNV	3.26	37	ePn	41	07.64	-1.4
MMPM	3.26	355	ePg	41	15.08	5.9
MEMM	3.31	356	ePg	41	17.48	7.9
BONR	3.60	5	ePg	41	22.77	8.7
TNP	3.90	17	ePg	41	28.75	10.6
CMB	3.92	340	(P)	41	16.78	-1.5

32 obs. associated

& JAN 21, 1994 08h 40m 41.47s  
34.357 N 118.740 W  
DEPTH = 7.8km  
SOUTHERN CALIFORNIA (43)

&lt;PAS-P&gt;. ML 3.0 (PAS), 3.1 (GS).

ABL	0.63	321	eP	40	53.50	-0.7
SSK	0.88	99	eP	40	57.84	-0.9
PEC	1.39	109	eP	40	58.23	-9.0
GSC	1.85	59	(P)	41	09.53	-4.3
PLM	1.86	122	(P)	41	05.86	-8.2
TPNV	3.29	37	P	41	43.96	9.5
TNP	3.92	18	Pg	41	52.06	8.6

7 obs. associated

? JAN 21, 1994 09h 17m 19.82± 1.28s  
39.142 N ±11.3km 27.511 E ±19.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

IZM	0.77	195	ePg	17	34.90	0.1
			eSg	17	46.20	
DST	0.98	62	iPn	17	39.20	0.7
EDC	1.23	13	ePn	17	43.00	0.3
IZI	1.93	51	ePn	17	52.00	-1.0

S.D. = 1.3 on 4 of 4 obs.

& JAN 21, 1994 09h 35m 50.06± 0.74s  
44.364 N ± 6.6km 7.337 E ± 8.3km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)

ML 1.6 (GEN).

STV	0.12	184	P	35	53.08	-0.1
			S	35	54.91	
ENR	0.15	156	P	35	53.58	0.0
			S	35	55.87	
PZZ	0.22	310	P	35	55.05	0.2
			S	35	58.43	
ROB	0.39	100	P	35	58.16	0.1
			S	36	03.93	
BHB	0.48	354	P	35	59.68	-0.1
			S	36	06.05	

S.D. = 0.2 on 5 of 5 obs.

JAN 21, 1994 10h 11m 36.38± 0.33s  
7.371 S ± 4.8km 144.705 E ± 6.4km  
DEPTH = 10.0km (geophysicist)  
4.6mb ( 8 obs.)

NEAR S COAST OF NEW GUINEA, PNG. (206)

MNDI	1.59	319	iPd	12	06.00	1.1
			eS	12	30.00	
YYYY	1.68	48	ePd	12	05.00	-1.1
MDG	2.36	27	eP	12	12.40	-3.4X
			eS	12	19.60	
PMG	3.16	130	iPc	12	28.00	0.9
WWKJ	3.88	344	eP	12	41.00	3.6X
OKTD	3.94	300	eP	12	38.80	0.5
QIS	14.01	200	eP	14	56.00	-1.2
			eS	17	35.50	
MTN	14.43	247	eP	15	15.00	12.3X
			e	17	29.00	
WB2	16.03	218	eP	15	20.50	-3.1X
	0.6s	29.60nm			4.6mb	
			eS	18	29.60	
KNA	17.68	241	eP	15	43.20	-1.3
ARMA	23.83	165	eP	16	50.20	-0.5
	0.8s	10.00nm			4.4mb	
STK	24.56	186	eP	16	57.70	0.1
	1.0s	7.10nm			4.3mb	
BWA	27.14	173	iPd	17	23.00	1.3
CAN	28.09	173	iPd	17	31.10	0.7
MAT	44.10	352	(P)	19	46.00	-0.6
LOE	49.08	301	eP	20	26.00	-0.2
GYA	49.93	314	iPc	20	34.00	1.3
	1.0s	31.00nm			5.2mb	
CHTO	52.08	301	eP	20	49.20	0.2
XAN	53.33	323	P	20	57.70	-0.5
			pP	21	02.00	14kmX
CN2	53.84	343	eP	21	01.70	0.1
TIY	54.02	328	eP	21	04.00	0.8
BJI	54.03	333	eP	21	02.50	-0.6
	1.0s	6.00nm			4.6mb	
CD2	54.64	316	Pc	21	08.00	0.2
HHC	56.84	330	P	21	24.00	0.3
	1.0s	9.00nm			4.8mb	
BTO	57.43	329	eP	21	27.00	-0.8
LZH	57.80	321	eP	21	30.00	-0.6
	1.2s	23.00nm			5.1mb	

pP 21 33.50 12kmX  
WMQ 72.36 320 eP 23 04.60 0.0  
YKA 101.44 28 Pdfff 25 29.20 -0.1  
0.8s 0.50nm 4.2mb  
S.D. = 0.8 on 24 of 28 obs.

JAN 21, 1994 10h 12m 19.61± 0.67s  
40.721 N ± 5.9km 29.833 E ± 4.9km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 2.9 (ISK).

HRT	0.16	309	iPg	12	22.70	-0.3
EYL	0.29	122	iPg	12	25.20	-0.3
GBZT	0.30	283	ePg	12	26.50	0.8
			iSg	12	30.80	
YLV	0.38	246	iPg	12	27.20	-0.1
			eSg	12	32.70	
IZI	0.47	216	iPg	12	28.70	-0.4
			iSg	12	36.20	
GPA	0.56	140	iPg	12	31.40	0.5
			eSg	12	39.40	
ISK	0.68	301	iPg	12	33.20	0.0
			iSg	12	42.20	
CTT	1.15	292	iPg	12	41.20	-0.3
			eSg	12	57.20	
DST	1.45	220	ePn	12	46.60	0.1
EDC	1.55	257	ePn	12	48.00	0.1

S.D. = 0.4 on 10 of 10 obs.

JAN 21, 1994 10h 16m 26.65± 0.48s  
49.156 N ± 3.9km 6.934 E ± 7.0km  
DEPTH = 10.0km (geophysicist)

GERMANY (543)  
ML 2.5 (STR), 2.2 (UCC).

RUP	0.55	9	ePg	16	37.50	-0.4
LANF	0.60	107	Pg	16	38.86	0.1
WLF	0.72	315	iPd	16	40.14	-0.7
			iS	16	49.93	
CDF	0.78	163	Pg	16	41.14	-0.7
			Sg	16	52.87	
WLS	0.79	159	Pg	16	41.66	-0.5
ABH	0.83	29	ePg	16	42.50	-0.2
ECH	0.95	171	Pg	16	45.42	0.6
			Sg	16	57.37	
LIBD	1.10	156	Pg	16	47.09	-0.2
MOF	1.31	174	Pg	16	51.44	0.5
BSF	1.33	184	Pg	16	51.56	0.3
ENN	1.74	338	ePg	16	59.00	1.9
	0.5s	7.20nm				
			eSg	17	22.00	
DOU	1.79	303	Pn	16	57.00	-0.8
			Sn	17	18.90	
LOMF	1.81	182	Pg	17	01.53	3.4X

S.D. = 0.9 on 12 of 13 obs.

& JAN 21, 1994 10h 43m 59.62s  
34.377 N 118.637 W  
DEPTH = 12.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.8 (GS).

ABL	0.67	315	ePc	44	12.08	-0.9
SSK	0.80	102	eP	44	14.62	-0.4
ISA	1.29	6	eP	44	22.79	-0.6
			S	44	38.92	
PEC	1.32	111	eP	44	21.61	-2.2
BCH	1.44	304	eP	44	24.69	-0.8
PLM	1.80	124	eP	44	29.42	-1.3
PHAM	2.05	316	(P)	44	33.34	-1.0

7 obs. associated

& JAN 21, 1994 10h 45m 42.11s  
34.378 N 118.593 W  
DEPTH = 5.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.6 (GS).

ABL	0.70	313	eP	45	55.25	-0.9
SSK	0.76	102	eP	45	56.32	-1.2
PEC	1.28	112	eP	46	04.28	-2.0
ISA	1.29	4	eP	46	03.15	-3.2
BCH	1.47	304	eP	46	09.00	-0.3
GSC	1.74	57	eP	46	11.84	-1.3
PLM	1.77	125	eP	46	12.87	-0.8
TPNV	3.20	36	(P)	46	33.97	-0.1



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* JAN 21, 1994 13h 22m 14.95s
  34.273 N 118.593 W
  DEPTH = 17.6km
  SOUTHERN CALIFORNIA (43)
  <PAS-P>. ML 2.8 (PAS), 2.9 (GS).
SSK 0.75 95 ePd 22 28.71 -0.6

```



21d 13h

ABL	0.78	318	eP	22	39.19	-1.2
PEC	1.25	107	eP	22	36.53	-1.0
			S	22	53.02	
ISA	1.39	4	ePc	22	39.40	-0.2
BCH	1.53	307	eP	22	41.08	-0.5
PLM	1.71	122	eP	22	43.94	-0.3
GSC	1.79	55	eP	22	44.73	-0.7
TPNV	3.28	35	eP	23	05.65	-1.1
BONR	3.68	4	eP	23	12.02	-0.5
9 obs. associated						

? JAN 21, 1994 13h 47m 42.40± 0.97s  
 1.150 N ±14.1km 127.510 E ±22.5km  
 DEPTH = 33.0km (normal)  
 4.5mb ( 6 obs.)  
 HALMAHERA, INDONESIA (267)

KNA	16.84	176	eP	51	49.00	11.6X
WB2	22.01	163	iPc	52	37.60	1.8
	0.5s	15.70nm			4.7mb	
		e	52	57.40		
ASPA	25.44	166	iPc	53	08.90	-0.1
	0.6s	20.40nm			4.9mb	
		i	54	00.40		
LOE	30.06	304	eP	53	51.00	-0.1
MRWA	32.14	199	eP	54	09.00	-0.2
	0.4s	1.00nm			4.1mb	
CHTO	33.06	304	eP	54	17.20	-0.1
MUN	34.65	197	eP	54	31.50	0.6
NWAO	35.26	195	eP	54	36.00	-0.1
	0.6s	4.00nm			4.5mb	
STK	35.46	159	eP	54	35.60	-2.2
	0.8s	5.90nm			4.6mb	
GBA	51.06	287	P	56	59.00	15.0X
POO	55.36	292	eP	57	35.00	19.0X
MAIO	71.69	308	eP	59	11.00	7.5X
YKA	101.50	25	Pdiff	01	32.50	0.4
	0.9s	0.30nm			3.9mb	
S.D. = 1.2 on 9 of 13 obs.						

? JAN 21, 1994 13h 52m 51.22± 2.32s  
 16.134 N ±12.5km 122.800 E ±30.1km  
 DEPTH = 10.0km (geophysicist)  
 LUZON, PHILIPPINE ISLANDS (249)

CVP	1.82	329	iPd	53	22.00	-0.8
		iS	53	40.00		
BCP	2.12	278	eP	53	27.00	-0.4
		eS	53	53.20		
GQP	2.24	189	ePd	53	29.00	0.1
		iS	53	58.00		
QVP	2.29	229	eP	54	13.50	43.8X
SZP	2.65	302	ePd	53	29.00	-5.8X
PIP	3.02	317	iPc	53	41.00	1.1
S.D. = 1.4 on 4 of 6 obs.						

JAN 21, 1994 14h 10m 57.41± 0.72s  
 38.743 N ± 6.8km 27.392 E ± 6.8km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.6 (ISK). MD 3.5 (ATH).

IZM	0.36	196	ePg	11	04.00	-0.8
		eSg	11	10.60		
PRK	1.01	300	ePb	11	17.50	1.0
		eSb	11	33.00		
DST	1.29	48	iPn	11	21.30	-0.1
EDC	1.64	13	ePn	11	25.00	-1.4
KHL	1.72	103	ePn	11	29.00	1.3
ALT	2.14	81	ePn	11	33.70	-0.1
YLV	2.38	39	iPn	11	37.10	0.0
RDO	2.79	330	ePn	11	43.00	0.1
S.D. = 1.0 on 8 of 8 obs.						

JAN 21, 1994 14h 26m 31.77± 1.14s  
 33.465 N ± 5.1km 92.310 E ± 6.1km  
 DEPTH = 39.5 ± 12.9 km  
 4.7mb ( 23 obs.) 4.5MsZ ( 3 obs.)  
 QINGHAI, CHINA (325)

LSA	3.88	195	Pnd	27	32.60	1.6
		Pg	27	36.20		
		Sg	28	32.80		
SHL	7.88	183	iP	28	25.50	-1.4
	1.0s	55.00nm			5.5mb X	
		eSn	29	51.00		

GTA	8.47	43	P	28	35.50	0.5
	1.2s	42.00nm			5.4mb	
Z	16s	2.86um				
		pP	28	41.00		
		sP	28	45.00		
LZH	9.84	71	eP	28	52.00	-2.0
	1.4s	21.00nm			5.1mb	
Z	11s	2.93um				
N	11s	8.73um				
		eS	30	52.00		

CD2	10.03	102	eP	28	57.40	1.0
	0.8s	38.00nm			5.7mb	
Z	12s	3.69um			3.8MsZ	
		S	30	51.00		

WMQ	10.95	342	P	29	07.00	-2.0
	1.0s	9.20nm			4.9mb	
Z	12s	1.60um			3.8MsZ	
E	10s	4.69um				
		PP	29	15.00		
		eS	31	07.00		
		SS	31	21.00		

KMI	12.32	130	eP	29	25.60	-2.1
	0.8s	60.00nm			5.7mb X	
		pP	29	34.80		
		sP	29	38.40		

NDI	13.78	254	eP	29	41.00	-5.8X
XAN	13.84	83	P	29	45.60	-1.9
	1.0s	29.00nm			5.0mb	
Z	16s	2.38um			4.4MsZ	
N	10s	2.36um				
		pP	29	51.50		
		sP	29	54.00		
		S	32	28.00		

GYA	14.26	116	iPd	29	50.00	-3.1X
	0.8s	13.00nm			4.6mb	
Z	12s	1.73um			8.2MsZ	
N	12s	3.75um				
E	12s	1.92um				

CHTO	15.75	156	eP	30	00.90	-11.6X
BTO	15.82	58	eP	30	15.00	1.7
		SS	33	25.00		

FRU	16.74	309	eP	30	28.00	3.1X
	2.2s	150.00nm			4.7mb	
TIY	16.90	70	eP	30	28.50	1.5
	1.0s	2.80um				
		N	12s	4.71um		

HHC	17.01	59	P	30	29.00	0.7
	1.0s	11.00nm			3.9mb	
Z	15s	2.48um			4.3MsZ	
N	12s	1.74um				
E	10s	0.84um				

BDT	17.24	158	eP	30	30.00	-1.2
LOE	18.10	150	eP	30	40.00	-1.9
UER	18.14	4	eP	30	40.00	-2.1
	1.5s	22.00nm			4.1mb	

ZAK	18.74	22	iPd	30	50.00	0.5
	1.3s	41.00nm			4.5mb	
		eS	34	00.00		
NST	19.08	156	eP	30	53.00	-0.8
BJI	20.19	64	eP	31	05.00	-0.7
	1.5s	23.00nm			4.3mb	
Z	12s	1.51um			4.6MsZ	
N	12s	3.55um				

TIA	20.54	75	P	31	09.00	-0.4
	1.0s	54.00nm			4.9mb	
N	12s	1.65um				

IRK	20.70	21	eP	31	11.80	0.9
	1.3s	61.00nm			4.8mb	
GZH	21.18	114	Pc	31	15.00	-0.9
	1.2s	1.69um				
E	11s	0.81um				

QIZ	21.26	128	eP	31	16.80	0.0
	1.1s	1.48um				
E	10s	1.16um				
		eS	35	00.00		

POO	22.23	233	eP	31	28.00	1.5
NVS	22.30	346	iPd	31	25.90	-1.1
	1.3s	38.00nm			4.7mb	
NJ2	22.35	86	Pd	31	29.50	1.8
	1.0s	73.00nm			5.1mb	

		pP	31	39.00	35kmX	
GBA	23.96	218	P	31	45.00	1.6
SSE	24.50	88	Pc	31	49.50	1.0
	1.0s	23.00nm			4.7mb	

Z	20s	1.80um			4.6MsZ	
E	10s	2.20um				
		pP	31	56.00	23kmX	
SNY	26.02	62	eP	32	03.20	0.4
		eP	32	03.20	4.3MsZ	
Z	20s	0.97um				
N	12s	1.48um				
E	11s	0.64um				
		pP	32	10.00	24kmX	
		S	36	26.00		
		SS	36	40.00		

MAIO	27.00	285	iPd	32	12.00	0.0
CN2	27.70	58	eP	32	18.60	0.4
	1.0s	11.00nm			4.5mb	
Z	16s	0.89um			4.4MsZ	
N	13s	1.81um				
E	13s	0.54um				
		eS	37	03.00		

ASH	27.84	289	eP	32	21.00	1.5
BOD	28.53	25	iPd	32	25.10	-0.3
	0.8s	12.00nm			4.6mb	
IPM	29.87	162	ePc	32	36.80	-1.1
MDJ	30.78	58	eP	32	45.00	-0.6
	0.7s	0.63nm			3.8mb	

Z	20s	1.23um			4.6MsZ	
N	16s	3.41um				
NB2	57.15	325	P	36	14.60	-2.1
	0.5s	0.50nm			3.8mb	
GEC2	58.59	311	P	36	25.70	-1.3
	0.7s	0.63nm			3.8mb	

		e	36	27.40		
		e	36	33.60		
		e	36	37.30		
		e	36	42.10		
WB2	66.55	137	iPd	37	19.50	-0.6
	0.9s	5.70nm			4.6mb	

ASPA	69.26	139	iPd	37	36.40	-0.6
	1.0s	7.90nm			4.7mb	
YKA	81.95	12	P	38	47.50	-0.9
	0.8s	1.30nm			4.0mb	
S.D. = 1.3 on 38 of 42 obs.						

JAN 21, 1994 14h 50m 44.68± 0.79s  
 51.598 N ± 7.2km 16.254 E ± 5.9km  
 DEPTH = 10.0km (geophysicist)  
 POLAND (548)  
 ML 3.9 (VIE).

BRG	1.62	244	iPn	51	13.90	0.5
		iPg	51	14.50		
		iSg	51	34.50		
PRU	1.94	215	Pn	51	17.80	-0.3
	0.4s	198.00nm				
		Pg	51	19.60		
		i	51	24.00		
		Sn	51	36.80		
		Sg	51	43.60		

CLL	2.05	263	iPn	51	19.60	0.0
		ePg	51	23.00		
		iSg	51	49.50		
KHC	3.01	216	Pn	51	33.00	-0.2
		ePg	51	38.00		
		e	51	59.50		
		eSn	52	09.50		
		eSg	52	15.00		

HOF	3.05	247</
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S.D. = 0.4 on 14 of 15 obs.  
 & JAN 21, 1994 14h 50m 49.36s  
 59.277 N 152.717 W  
 DEPTH = 78.0km  
 SOUTHERN ALASKA ( 2 )  
 <AEIC>.

AUE	0.35	284	eP	51	01.49	-0.4
AUI	0.37	279	eP	51	01.43	-0.6
AUP	0.37	284	eP	51	01.91	-0.3
AUH	0.38	283	eP	51	02.05	-0.2
AUL	0.38	286	eP	51	01.63	-0.5
AUW	0.40	284	eP	51	01.76	-0.5
OPT	0.46	325	eP	51	02.25	-0.5
			eS	51	12.17	
HOM	0.67	55	eP	51	04.53	-0.2
SYI	0.69	166	eP	51	04.09	-0.8
CNPM	0.80	71	eP	51	05.38	-0.8
			eS	51	18.58	
INE	0.81	348	eP	51	05.67	-0.8
			eS	51	17.88	
ILIM	0.82	351	eP	51	05.74	-0.7
			eS	51	18.18	
PDB	0.91	305	eP	51	06.65	-0.8
			eS	51	19.70	
RED	1.15	359	eP	51	09.81	-0.7
RSO	1.19	359	eP	51	10.77	-0.4
RS2	1.19	359	eP	51	10.76	-0.4
RDW	1.21	358	eP	51	10.68	-0.7
REF	1.22	0	eP	51	10.97	-0.5
			eS	51	27.93	
NCT	1.29	355	eP	51	12.01	-0.4
			eS	51	29.46	
DFR	1.32	1	eP	51	12.31	-0.4
			eS	51	29.95	
KDC	1.54	175	eP	51	13.80	-1.7
NKA	1.65	26	eP	51	18.57	1.6
SLKM	1.76	44	eP	51	17.71	-0.9
BKG	1.81	7	eP	51	19.03	-0.3
SEW	1.85	62	eP	51	18.76	-1.0
CKL	1.94	5	eP	51	21.44	0.5
SPU	1.94	10	eP	51	20.76	-0.2
CKT	1.95	7	eP	51	20.79	-0.3
CKN	1.97	8	eP	51	21.61	0.2
BGL	2.00	5	P	51	21.80	-0.1
CP2	2.01	7	eP	51	21.53	-0.5
CRP	2.02	8	P	51	22.20	0.1
CGLM	2.07	10	eP	51	22.70	-0.1
MPA	2.08	53	eP	51	22.88	0.0
NCG	2.15	7	eP	51	23.71	-0.2
SUA	2.40	23	eP	51	27.48	0.1
PWL	2.71	52	eP	51	30.09	-1.5
PWA	2.77	29	P	51	32.00	-0.3
SKT	2.78	12	eP	51	31.96	-0.5
PLRM	2.92	36	eP	51	33.58	-0.9
KQK	3.01	43	eP	51	34.41	-1.3
CFI	3.12	50	eP	51	35.43	-1.8
GHO	3.13	35	eP	51	36.85	-0.6
HIN	3.33	68	eP	51	38.19	-2.0
SML	3.34	39	eP	51	38.60	-1.7
FID	3.46	62	eP	51	39.25	-2.8
VZW	3.56	57	eP	51	41.52	-1.9
VLZ	3.69	57	eP	51	43.91	-1.2
CVA	3.73	67	eP	51	43.86	-1.9
FBA	6.10	20	eP	52	16.05	-2.7
IL1	6.16	24	eP	52	17.09	-2.5
ILB	6.16	24	eP	52	17.38	-2.2
BC3	6.51	50	eP	52	23.40	-1.1
IM3	6.75	356	eP	52	26.78	-1.0

54 obs. associated

& JAN 21, 1994 15h 13m 26.59s  
 41.549 N 121.882 W  
 DEPTH = 4.6km  
 NORTHERN CALIFORNIA ( 36 )  
 <GM-P>. MD 2.7 (GM).

LBFM	0.20	182	eP	13	30.78	0.0
LGM	0.96	229	eP	13	43.33	-2.1
FHC	1.75	246	(P)	13	58.84	0.9
ORV	2.01	172	(P)	14	01.70	0.1

4 obs. associated

? JAN 21, 1994 17h 03m 55.71± 4.12s  
 31.498 S ±28.7km 69.499 W ±35.6km  
 DEPTH = 33.0km (normal)

## SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.60	89	eP	04	09.00	1.2
			S	04	22.50	
RTCV	0.90	114	iPd	04	12.00	0.0
			S	04	27.60	
RTLL	0.90	79	eP	04	11.50	-0.5
			S	04	26.00	
CFA	1.08	96	ePc	04	13.90	-0.7
			S	04	30.30	
RTRS	1.32	1	eP	04	18.00	0.0
			S	04	39.00	

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

& JAN 21, 1994 17h 23m 24.31s  
 59.272 N 137.662 W  
 DEPTH = 0.0km  
 SOUTHEASTERN ALASKA ( 19 )  
 <AEIC>. ML 2.6 (AEIC).

PNL	0.97	295	eP	23	43.10	-0.6
			eS	23	58.75	
YKU	1.09	286	eP	23	45.35	-0.4
BCPM	1.21	305	eP	23	46.95	-0.9
			eS	24	03.73	
PCA	1.55	303	eP	23	52.64	-0.7
CHX	1.92	296	eP	23	58.17	-0.6
CTGM	2.50	314	eP	24	05.56	-1.6
SIT	2.54	150	eP	24	05.70	-1.8
CYK	2.58	290	eP	24	05.85	-2.1
BALM	2.93	309	eP	24	12.21	-1.0
TGL	2.99	302	eP	24	12.83	-1.2
GLB	3.75	308	eP	24	21.61	-3.2
CVA	4.27	291	eP	24	28.80	-3.2
KLU	4.66	302	eP	24	34.59	-3.1

13 obs. associated

\* JAN 21, 1994 17h 38m 46.87± 1.38s  
 18.102 N ±19.3km 66.951 W ±13.5km  
 DEPTH = 33.0km (normal)

## PUERTO RICO REGION ( 90 )

MGP	0.16	235	P	38	53.00	-0.1
			S	39	11.30	
CLLP	0.36	93	P	38	57.30	1.9
APR	0.41	31	P	38	56.50	0.4
			S	39	16.80	
CPD	0.99	93	P	39	03.80	-0.6
LPR	1.05	79	P	39	03.70	-1.6

S.D. = 1.9 on 5 of 5 obs.

JAN 21, 1994 18h 00m 17.67± 0.08s  
 4.859 S ± 2.2km 103.664 E ± 2.0km  
 DEPTH = 89.9km (geophysicist)  
 6.1mb (104 obs.)

## SOUTHERN SUMATERA, INDONESIA (274)

Mw 5.9 (GS), 6.0 (HRV).  
 Mo=2.0\*10\*\*18 Nm (PPT). Depth  
 from broadband displacement  
 seismograms.

FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike= 56 Dip=50 Slip= 128  
 NP2: 185 53 54

Principal Axes:  
 T Val= Plg=62 Azm= 33  
 P 2 300

Comment: The focal mechanism is  
 poorly controlled and  
 corresponds to reverse  
 faulting. The preferred fault  
 plane is NP2.

## RADIATED ENERGY

No. of sta: 13 Focal mech. F  
 Energy 4.7±1.3\*10\*\*12 Nm

MOMENT TENSOR SOLUTION  
 Dep 101 No. of sta: 10  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 7.47 Mrt= -2.92  
 Mff= -4.55 Mrt= 0.42  
 Mrf= -3.78 Mtf= -4.14

Principal axes:  
 T Val= 8.78 Plg=70 Azm= 65  
 N -0.36 17 213  
 P -8.42 10 306

Best Double Couple: Mo=8.6\*10\*\*17  
 NP1: Strike= 56 Dip=38 Slip= 119  
 NP2: 202 57 69

## CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 51S, 96C M.W.: 2S, 3C

Centroid Location:

Origin Time 18:00:22.0 0.1

Lat 5.13S 0.01 Lon 103.44E 0.02

Dep 99.3 0.9 Half-duration 2.3

Moment Tensor; Scale 10\*\*17 Nm

Mrr= 7.55 0.12 Mtt= -3.19 0.16

Mff= -4.36 0.20 Mrt= 2.02 0.14

Mrf= -3.81 0.13 Mtf= -5.47 0.18

Principal Axes:

T Val= 9.72 Plg=63 Azm= 51

N -0.30 26 217

P -9.42 5 310

Best Double Couple: Mo=9.6\*10\*\*17

NP1: Strike= 66 Dip=46 Slip= 128

NP2: 197 56 57

PENI	1.66	115	P	00	47.80	1.9
PASI	2.64	134	P	00	58.50	-0.6
PULI	2.73	123	P	01	02.00	1.5
PACI	3.66	118	P	01	14.60	1.3
KALI	3.72	127	P	01	12.80	-1.3
LEM	4.39	117	iPd	01	26.00	2.5X
			iS	02	14.00	
KGM	6.84	357	iPd	02	00.90	3.7X
	1.6s	3001.20nm				6.6mb
			i	03	18.00	
MRPI	7.76	326	P	02	19.20	9.2X
AEKI	8.66	323	P	02	29.20	7.0X
IPM	9.74	344	ePd	02	37.50	0.6
	1.1s	756.70nm				6.5mb
			e	05	45.20	
SRDI	11.01	110	P	02	52.20	-1.8
	0.5s	1.25nm				4.0mb X
KELI	11.26	108	P	02	57.00	-0.3
RANI	11.76	108	P	03	03.20	-0.8
JEHI	11.91	106	P	03	05.40	-0.5
INGI	12.06	110	P	03	06.00	-1.8
THRI	12.30	107	P	03	09.60	-1.6
SNG	12.34	346	iPd	03	11.00	-0.5
	1.1s	270.89nm				5.9mb
			eS	05	27.50	
RATI	12.39	109	P	03	10.60	-1.7
KEDI	12.73	105	P	03	16.00	-0.7
KKM	16.56	49	ePc	04	15.20	9.2X
	0.8s	338.70nm				5.6mb
TSM	16.86	58	ePd	04	14.00	4.5X
	0.6s	457.30nm				5.9mb
NNT	17.77	347	iPn	04	20.00	-0.7
			eSg	04	33.30	
PCT	19.54	353	eP	04	41.70	0.9
NST	20.70	350	eP	04	51.50	-1.2
LOE	22.21	355	ePn	05	07.50	-0.3
			ePg	05	15.00	
			eSg	05	30.00	
BDT	22.44	348	eP	05	09.00	-1.0
	1.0s	462.30nm				5.8mb
MBL	22.56	137	iPd	05	11.50	0.3
			eS	09	19.00	
CTB	23.74	60	iPc	05	26.00	3.3X
CHTO	23.98	349	eP	05	24.90	-0.1
	1.0s	150.00nm				5.4mb
			eS	09	33.00	
QIZ	24.51	14	P	05	30.00	-0.1
	0.7s	380.00nm				5.9mb
	N 16s	5.38um				
	E 11s	2.75um				
			S	09	36.00	
DAV	24.88	62	ePc-	05	36.00	2.3X
	1.7s	*****nm				7.0mb
			eS	09	55.10	
PGP	25.05	43	iPc	05	37.50	2.3
MAP	25.24	53	iPc	05	38.00	1.0
TGY	25.47	42	iPc	05	41.50	2.3
QVP	25.89	41	ePd	05	45.00	2.0
MEEK	25.94	148	iPd	05	42.90	-0.6
	0.5s	145.00nm				5.8mb
			iS	10	38.80	
BIP	26.01	60	iPc	05	46.20	2.1
GQP	26.36	45	ePd	05	48.00	0.7
MRWA	26.90	156	eP	05	51.50	-0.6
	1.0s	181.00nm				5.6mb
			e	06	34.00	214kmX
			eS	11	57.50	
KNA	26.93	116	iPc	05	51.30	-1.2



KUMJ	45.26	33	P	08	28.50	0.5
BTO	45.61	7	iPc	08	31.00	0.3
	1.6s	620.00nm				6.2mb
N	14s	4.52um				
E	14s	1.81um				
		iS	15	07.00		
HHC	46.06	8	Pc	08	35.00	0.7
	1.4s	890.00nm				6.4mb
Z	25s	4.14um				5.3MszX
N	16s	5.11um				
E	11s	0.66um				
		sP	09	01.00		
		PcP	10	12.00		
		S	15	16.00		
BJI	46.14	13	iPc	08	35.42	0.7
	1.0s	210.00nm				6.0mb
Z	22s	23.00um				6.1Msz
E	20s	4.27um				
		epPd	08	56.94		89kmX
		ePcP	10	09.00		
		eScP	13	53.00		
		S	15	12.00		
		sS	15	53.00		
		eScS	18	19.00		
SHNJ	46.64	32	P	08	39.50	0.7
NIL	47.90	325	iPc	08	50.60	1.8
	0.6s	0.35nm				3.4mb X
		PcP	10	14.50		
		iS	15	37.40		
		ScS	18	30.80		
TKSJ	48.13	34	P	08	51.20	0.7
RAB	48.34	91	eP	08	50.00	-2.5X
YONJ	48.70	33	P	08	55.00	0.1
WKYJ	49.18	35	P	08	59.20	0.5
SNY	49.89	19	iPc	09	03.00	-0.9
	1.2s	470.00nm				6.4mb
Z	20s	2.30um				5.2Msz
N	13s	0.96um				
E	12s	1.21um				
		pP	09	26.00		95kmX
		PcP	10	20.00		
		iS	16	02.50		
		ScS	18	42.00		
TOO	50.13	136	iPc	09	07.50	1.6
	0.6s	114.00nm				6.1mb
		epP	09	16.20		29kmX
TSRJ	50.35	34	eP	09	07.30	-0.2
WMQ	50.55	345	iPc	09	08.82	-0.2
	1.2s	500.00nm				6.4mb
Z	18s	2.36um				5.2Msz
E	12s	0.79um				
		epPd	09	29.43		84kmX
		sP	09	44.00		
		PcP	10	22.50		
		PP	11	07.50		
		ScP	14	13.00		
		PcS	14	22.00		
		S	16	14.00		
		sS	16	52.00		
		ScS	18	48.00		
		SS	19	53.00		
BWA	50.78	131	iPc	09	12.70	1.8
		iPp	09	18.60		20kmX
		i	09	36.80		
KSH	50.96	332	iPc	09	12.00	-0.2
	1.0s	270.00nm				6.2mb
Z	32s	8.14um				5.5MszX
N	10s	3.40um				
E	10s	3.50um				
		PcP	10	30.00		
		PP	11	08.00		
		ScP	14	18.00		
		ePcS	14	24.00		
		iS	16	21.00		
		ScS	18	53.00		
		SS	19	52.00		
IIDJ	51.42	36	eP	09	14.70	-1.0
CAN	51.59	132	iPc	09	17.50	0.4
		iPp	09	23.60		20kmX
		e	09	40.70		
		i (PcP)	13	12.30		
ARMA	51.77	125	eP	09	19.00	0.4
	0.7s	141.00nm			</	



CN2	52.27	20 iPc	09 21.00	-0.9			i	11 32.00	85kmX		1.0s	500.00nm		6.3mb
	1.0s	600.00nm		6.6mb	MAK	69.57	319 iP+	11 18.70	-0.2	KVT	76.60	314 iP	12 23.00	81kmX
Z	10s	1.66um		5.4MszX			iS	20 16.00		BLF	76.71	241 iPc	12 01.50	-1.2
		pP	09 44.00				ePS	20 48.00						0.2
		PcP	10 31.00		YAK	69.63	13 iPc	11 20.10	1.1	CSS	1.5s	220.00nm		5.8mb
		ScP	14 17.20			1.0s	1002.00nm		6.6mb	ANN	76.85	307 eP	12 02.00	0.3
		eS	16 35.00				iPcP	11 43.00			77.01	318 eP	12 01.00	-1.3
		ScS	18 56.50				ipP	11 55.00	143kmX		1.3s	100.00nm		5.5mb
MAT	52.33	35 iPc+	09 21.10	-1.4			ePP	13 23.00		HLW	77.22	302 iPc	12 04.00	0.2
		eS	16 18.00				ePPP	15 37.00				e	12 08.50	14kmX
CHJJ	52.45	36 eP	09 21.90	-1.5			iS	20 16.00				e	21 44.00	
RIV	52.62	129 iPc	09 25.30	0.6			eSKS	20 53.00				e	22 26.50	
		i	10 34.70	328kmX			eScS	20 59.00		BOSA	77.38	242 eP	12 06.80	2.1
		iS	16 48.00				iPS	21 10.00		SWZ	77.43	243 iPd	12 04.70	-0.5
KAKJ	53.25	37 eP	09 26.50	-2.7X			esS	21 38.00			1.3s	220.00nm		5.9mb
NIIJ	53.27	35 eP	09 27.70	-1.6			eSS	24 54.00				i	12 25.70	78kmX
VLA	54.16	25 iPd-	09 36.00	0.2			eSSS	28 28.00		PPCY	77.62	307 eP	12 05.50	-0.4
	1.0s	683.00nm		6.6mb	MTA	70.73	317 iPc+	11 26.00	0.0	KAS	78.33	314 iPc	12 09.40	-0.4
N	15s	1.10um				1.0s	690.00nm		6.5mb	BZK	78.33	314 eP	12 09.50	-0.1
		i	10 38.00	285kmX			i	11 49.00	88kmX	SIM	79.16	317 iP+	12 14.00	-0.2
		iS	17 05.00				e	14 11.00				e	22 00.00	
FRU	54.28	334 iPc	09 36.00	-0.8			ePPP	15 39.00		BCK	79.64	309 eP	12 13.00	-4.0X
		iS	17 06.00				iS	20 30.00		SBA	79.76	169 iPc	12 18.00	1.2
MDJ	54.47	23 iPc	09 37.78	-0.3			ePS	21 01.00		ELL	79.99	308 iP	12 26.50	7.5X
	1.0s	440.00nm		6.4mb	GRO	70.86	319 iPc+	11 27.00	0.2	ALT	80.40	311 iP	12 20.50	-0.5
		epPd	10 00.46	92kmX		1.0s	380.00nm		6.2mb	GPA	80.55	312 iP	12 21.00	-0.7
		s	17 09.00				ipP	11 52.00	97kmX	KHL	80.66	310 iP	12 21.90	-0.5
YAMJ	54.51	35 eP	09 38.00	-0.5			i	14 11.00		EYL	80.73	312 iP	12 22.40	-0.4
ZAK	55.02	360 iPc+	09 42.00	0.1			iS	20 32.00		MOS	80.82	328 iPc	12 23.00	0.3
	1.1s	454.00nm		6.4mb	ARU	71.25	335 iPc+	11 28.50	-0.4		2.0s	240.00nm		5.7mb
Z	15s	3.24um		5.5MszX		1.0s	550.00nm		6.4mb	OBN	81.12	328 ePc	12 24.58	0.3
N	14s	3.53um					e	11 48.00	73kmX		1.1s	878.00nm		6.5mb
		e	10 42.00	274kmX			eS	20 35.50			(pP)	i	12 48.00	88kmX
HIA	55.69	13 iPc	09 45.86	-1.0			ePS	21 08.00				i	15 35.00	
		epPd	10 07.87	88kmX			e	21 21.00				ePPP	17 23.00	
HNR	55.98	98 ePc	09 47.18	-2.3	WAJH	71.85	299 iPc	11 33.33	0.2			iS	22 22.00	
OFUJ	56.06	35 eP	09 48.60	-1.1	SNZO	72.59	132 eP	11 35.68	-1.5	IZI	81.18	312 iP	12 25.00	-0.1
AOMJ	56.35	33 P	09 51.50	-0.2	QTFJ	72.64	305 Pd	11 38.07	0.3	YLV	81.31	312 iP	12 25.40	-0.4
IRK	56.91	0 iPc	09 55.00	-0.5	PYA	72.87	319 iPc	11 38.00	-0.8	GBZT	81.31	312 eP	12 25.30	-0.3
	1.5s	390.00nm		6.3mb			ipP	12 01.00	88kmX	ISK	81.67	313 iP	12 27.50	0.1
Z	14s	1.83um		5.3MszX			e	14 30.00		POF	82.17	241 iPc	12 30.00	-0.3
N	15s	1.53um					iS	20 54.00			0.9s	241.00nm		6.1mb
E	11s	0.97um					isS	21 26.00				i	12 52.00	82kmX
		e	10 46.00	227kmX	AYN	73.04	302 iPc	11 40.00	0.0	EDC	82.38	312 eP	12 31.00	-0.2
		iS	17 42.00		BFT	73.15	245 iPc	11 40.80	-0.3	CER	82.65	237 iPc	12 22.00	-10.9X
CIT	57.27	7 eP	09 58.00	-0.1		1.3s	160.00nm		5.7mb		1.5s	308.00nm		
		e	10 53.00	246kmX			i	12 01.70	79kmX			i	12 48.00	99kmX
		e	17 50.00		NWL	73.34	243 iPd	11 41.70	-0.3	KIS	83.26	318 iP+	12 35.00	-0.5
MRRJ	58.03	32 eP	10 02.70	-0.7		1.5s	240.00nm		5.8mb			e	15 46.00	
MAIO	58.14	318 iPc	10 03.00	-1.5			i	12 02.90	80kmX			ePPP	17 36.00	
	1.0s	67.50nm		5.7mb			iS	22 43.00				iS	22 43.00	
		eS	17 45.00		MDSJ	73.59	305 Pd	11 43.78	0.5	CFR	83.29	316 eP	12 36.00	0.3
ERM	58.87	34 ePc	10 08.98	-0.4	SRFA	73.74	302 iPc	11 44.67	0.6	PRK	83.35	310 iPbc	12 36.50	0.3
HOOJ	59.19	33 P	10 11.80	0.3	BADA	73.79	301 iPc	11 45.00	0.6	AFI	83.58	103 ePc	12 39.59	1.7
ASH	59.84	319 Pc	10 15.00	-1.1	PET	73.84	31 ePc	11 43.50	-0.6	ALN	83.85	312 iPc	12 38.74	0.0
		i	10 58.00	186kmX		Z	20s	375.00nm	6.4mb	VAM	84.24	306 iPnc	12 42.00	1.2
		iS	18 16.00				1.30um		5.2Msz	RDO	84.28	312 iPnc	12 41.00	0.2
		i	18 34.00		HQL	73.95	302 iPc	11 44.67	-0.6	BUCL	84.58	315 ePc	12 44.00	1.8
		SS	22 09.00		JARJ	74.01	305 Pc	11 45.89	0.2	MLR	84.88	316 iPc	12 45.00	1.1
ASAJ	60.03	32 P	10 16.70	-0.6	MASJ	74.05	305 Pd	11 46.17	0.2	PTT	84.89	318 eP	12 45.00	1.2
DHR	60.35	304 iPc	10 19.00	-0.8	DHLJ	74.06	304 Pd	11 46.19	0.3	WIN	84.99	248 iPc	12 45.50	0.5
KUSJ	60.45	34 P	10 19.60	-0.5	SVJ	74.06	107 eP	11 39.60	-6.5X		1.5s	184.00nm		5.8mb
CSY	61.51	177 iPd	10 25.80	-1.2	MKRJ	74.07	305 Pd	11 46.32	0.3			i	13 07.00	79kmX
	0.7s	52.20nm		5.7mb	LISJ	74.11	304 Pd	11 46.72	0.6	ATH	85.07	309 iPnc	12 44.50	-0.4
		e	10 53.10	111kmX	KFNJ	74.12	305 Pd	11 46.45	0.2	PAIG	85.44	311 iPc	12 46.50	-0.2
YSS	62.09	29 iPc	10 30.44	-0.7	SALJ	74.16	305 Pd	11 46.85	0.3	CMF	85.46	316 iPd	12 47.00	0.3
ARO	62.65	286 eP+	10 36.00	0.6	SHMJ	74.29	306 Pd	11 47.89	0.6	VLI	85.47	307 iPnc	12 46.00	-0.9
RYD	62.75	301 iPc	10 35.00	-1.0	MBU	74.32	106 eP	11 48.20	0.5	BCAO	85.53	275 iPc	12 49.00	1.3
DZM	62.99	112 iPc	10 37.20	-0.4	BHL	74.72	307 Pc	11 48.00	-1.8		0.5s	110.00nm		6.1mb
BOD	63.08	6 iP	10 35.10	-2.4			S	21 16.00				i	13 11.50	83kmX
	1.0s	713.00nm		6.6mb	SLR	74.74	245 iPc	11 49.00	-1.2	SRS	85.72	312 iPc	12 47.46	-0.6
KMSA	63.26	296 iPc	10 38.04	-1.4		1.0s	210.00nm		6.0mb	MNK	85.76	325 eP	12 48.00	0.1
TEH	63.45	314 eP	10 38.00	-2.5	Z	22s	8.60um		6.0Msz			eS	23 09.00	
MJMA	64.26	302 iPc	10 45.33	-0.6			i	12 12.50	90kmX	SOH	85.84	311 iPc	12 48.54	-0.2
BKM	64.33	107 iPc	10 46.30	-0.1	SOC	74.92	317 eP	11 50.00	-0.6	PUL	85.88	331 ePc+	12 49.00	0.6
PVC	64.40	107 iPc	10 46.60	-0.2		1.8s	754.00nm		6.3mb		1.8s	1050.00nm		6.6mb
AFIF	65.52	299 iPc	10 55.05	1.0			eS	21 13.00		Z	26s	1.70um		5.3MszX
QASM	65.83	301 iPc	10 55.02	-1.0			ePS	21 52.00				eS	23 12.00	
MCQ	66.46	148 iPc	11 00.50	1.1			e	22 12.00		NVL	86.05	199 iPc	12 51.00	1.9
BAK	66.69	318 iPc	11 01.00	-0.1	KSR	75.99	245 iPc	11 55.50	-1.8		1.8s	174.00nm		5.8mb
UQSK	66.74	301 iPc	11 02.20	0.3		1.2s	320.00nm		6.1mb			i	13 12.00	77kmX
NAI	66.84	271 iPc	11 05.00	2.1			i	12 17.00	81kmX			e	13 49.00	
		PcP	11 28.00		BNN	76.03	312 iP	11 56.00	-1.2			e	15 05.00	
		PPS	19 50.00		SYO	76.41	199 ePc	11 58.10	-0.5			ePP	16 10.00	
TAB	68.11	314 iPc+	11 10.00	-0.3	GRM	76.56	237 iPc	12 01.50	1.3			ePPP	18 12.00	



21d 18h

		eSKS	23	03.00				e	14	32.50			1.3s	35.80nm		5.8mb
		eS	23	14.00				e	15	05.50			SVW	99.41	29 eP	13 51.12 -0.1
		ePS	24	11.00				e	16	24.50				1.4s	76.53nm	6.1mb
		eSS	28	38.00				ePP	17	17.00			DOU	99.53	320 Pd	13 52.20 0.3
		eSSS	32	40.00				e	18	16.00					e	17 39.50
TNR	86.06	316 ePc	12	50.00	0.3			e	25	30.00					eP	30 42.40
THE	86.10	311 iPc	12	49.66	-0.3			iPc	13	25.40	-0.5		IMA	99.55	24 eP	13 51.52 -0.4
KNT	86.24	312 iPc	12	50.38	-0.3	KBA	93.74	317 iPc	13	25.40	-0.5			1.6s	96.54nm	6.2mb
AGG	86.32	309 iPc	12	50.42	-0.7		1.0s	46.60nm			5.8mb		KDC	101.47	32 ePdiff13	59.60 -0.8
LIT	86.37	311 iPc	12	51.10	-0.2			i	13	42.50	60kmX		DAG	101.83	349 iPdiff14	00.00 -1.6
GRG	86.58	311 iPc	12	52.14	-0.2			i	23	49.80				0.6s	76.67nm	6.6mb
KZN	86.95	311 iPnc	12	53.00	-1.2	BHG	94.09	317 iPc	13	27.00	-0.2		SLKM	102.12	29 ePdiff14	01.99 -1.3
DEV	87.05	316 iPc	12	56.00	1.6		1.3s	172.00nm			6.3mb		FBA	102.20	24 (Pdiff14	03.01 -0.5
FNA	87.32	311 iPc	13	07.97	12.1X	WET	94.15	319 iPc	13	28.10	0.6		PMR	102.41	28 ePdiff14	03.54 -0.9
SKO	87.45	312 iPc	12	55.50	-1.0		1.0s	165.00nm			6.4mb			1.3s	60.00nm	6.2mb
	1.8s	390.00nm			6.2mb	HFS	94.16	330 eP	13	27.00	-0.3		TOA	103.64	27 ePdiff14	10.00 -0.1
VLS	87.54	308 ePn	12	57.20	0.2		0.9s	115.20nm			6.3mb		BALM	105.71	28 ePdiff14	19.65 0.3
CEI	87.66	318 eP	13	01.00	3.7X		Z	16s	0.78um		5.3MsZx		PAB	106.95	310 ePKP	18 35.00 0.0
SSR	87.68	315 ePc	12	55.00	-2.5X			LR	51	40.00				eS	28 45.00	
UZH	87.92	319 iPc	12	59.50	1.0	CLL	94.17	321 iPc	13	27.30	-0.2		KIC	108.78	275 e(PKP)	18 37.68 -1.4
	1.0s	255.00nm			6.2mb		1.3s	88.00nm			6.0mb			0.8s	19.00nm	
		i	16	27.00				i	13	51.40	89kmX		LIC	109.06	275 PKP	18 38.66 -0.9
KEK	88.36	310 ePb	13	01.00	0.1			i	17	36.30				0.7s	9.50nm	
PVY	88.62	313 iPc	13	02.40	0.2	ANM	94.77	26 eP	13	30.15	0.1		TIC	109.07	275 PKP	18 38.56 -1.0
IVA	88.71	313 iPc	13	03.13	0.6	HOF	94.85	320 iPc	13	31.00	0.3			0.9s	13.50nm	
NUR	88.81	331 iP	13	02.90	0.4		0.8s	24.00nm			5.7mb		LKO	109.75	278 PKP	18 39.95 -0.9
	0.7s	144.00nm			6.2mb	WTTA	94.91	317 iPc	13	30.70	-0.6			0.9s	25.50nm	
		i	13	27.00	89kmX		1.0s	67.70nm			6.0mb		GDH	113.95	351 iPKPd	18 46.00 -1.2
ULC	89.07	312 iPc	13	04.13	-0.1			i	23	56.10				e	20 08.00	
TTG	89.12	313 iPc	13	04.76	0.4			i	24	44.80			YKA	115.96	19 Pdiff	15 04.20 -0.6
PLE	89.14	313 iPc	13	05.52	0.9	WATA	94.96	317 iPc	13	30.90	-0.5			0.8s	0.70nm	
SPC	89.35	319 iPc	13	06.20	0.6	MOX	95.02	320 iPc	13	31.90	0.4		YKA	115.96	19 PKP	18 49.90 -1.4
		i	13	30.00	88kmX		1.5s	115.00nm			6.1mb			0.7s	24.90nm	
NKY	89.36	313 iPc	13	06.11	0.4			e	13	56.40	90kmX		KDS	116.28	282 ePKP	18 52.30 -1.0
BDV	89.42	312 iPc	13	06.05	0.2	KBS	95.07	349 iPc	13	30.10	-1.1		STW	120.98	35 PKP	19 01.99 0.7
HCY	89.68	312 iPc	13	07.29	0.3	FUR	95.18	318 iPc	13	32.30	0.0		MCW	121.17	34 PKP	19 02.17 0.5
BRY	89.70	313 iPc	13	07.58	0.3		1.3s	130.00nm			6.2mb		ONR	121.57	36 PKP	19 03.04 0.6
UZD	90.12	317 iPd	13	09.10	0.2			i	18	13.70			GMW	121.80	35 ePKP	19 03.60 0.7
SRO	90.44	318 iPc	13	12.10	1.7	SQTA	95.20	317 iPc	13	32.00	-0.5		JCW	121.94	34 PKP	19 03.29 0.1
		iPp	13	35.60	86kmX		0.7s	28.10nm			5.8mb		BMW	122.10	37 PKP	19 03.94 0.4
OKC	90.79	320 iPc	13	13.20	1.2	NRAO	95.25	330 P	13	31.50	-0.7		KMOR	122.37	38 PKP	19 04.41 0.3
		e	13	36.50	86kmX	GRF	95.25	319 iPc	13	33.50	0.9		RMW	122.41	35 ePKP	19 04.27 0.1
		e	16	49.00			1.1s	123.00nm			6.3mb		FMW	122.77	35 PKP	19 05.05 0.0
SNA	90.79	199 iPd	13	12.30	0.6		Z	21s	0.70um		5.1MsZ		LON	122.79	36 PKP	19 04.72 -0.1
	1.2s	60.00nm			5.7mb	OGA	95.32	316 iPc	13	33.20	0.0		SHW	122.84	36 ePKP	19 05.97 0.9
HVAR	91.26	313 iP	13	14.10	-0.2		1.2s	38.00nm			5.7mb		RNO	123.06	39 PKP	19 06.23 0.7
ZST	91.29	318 iPc	13	14.60	0.3	NB2	95.41	331 P	13	32.80	-0.3		ASR	123.24	36 PKP	19 05.92 0.1
		iPp	13	31.90	61kmX		0.7s	28.00nm			5.8mb		WTV	123.32	34 PKP	19 05.43 -0.4
		i	14	11.20		OSS	95.92	316 iPc	13	36.40	0.5		SSOR	123.39	38 PKP	19 06.41 0.2
VKA	91.82	318 iPc	13	17.30	0.5	TMA	96.80	316 iPc	13	39.20	-0.7		EBG	123.42	35 PKP	19 06.32 0.2
ZAG	91.83	316 iPc	13	17.90	1.1	PCP	97.03	314 P	13	40.09	-0.7		SAW	123.63	34 PKP	19 06.08 -0.4
PTJ	91.86	316 iPc	13	17.80	0.7	TNS	97.05	320 iPc	13	41.00	0.3		VBEM	123.82	37 PKP	19 07.14 0.1
UPP	92.17	330 iP	13	17.60	-0.5	SLE	97.05	317 eP	13	40.20	-0.6		VGB	124.06	36 ePKP	19 07.81 0.4
VBY	92.31	315 iPc	13	19.60	0.5	ZLA	97.12	317 iPc	13	41.00	-0.1		WAH2	124.08	35 PKP	19 07.39 0.1
TRO	92.68	340 eP	13	19.50	-0.8	FIN	97.27	314 eP	13	32.00	-9.8X		DPW	124.18	33 PKP	19 07.57 0.0
LJU	92.86	316 iPc	13	22.50	0.9	FEL	97.37	318 P	13	41.97	-0.4		CROR	124.22	37 PKP	19 07.94 0.2
	1.0s	610.00nm			6.9mb	HOFF	97.38	319 P	13	42.52	0.4		ARC	124.26	43 iPKPc	19 08.26 0.4
		ePp	13	42.50	72kmX	ORX	97.42	315 P	13	40.19	-2.4		FHC	124.36	43 ePKP	19 09.22 1.1
PRU	93.12	320 iPc	13	23.10	0.4	MMK	97.43	316 eP	13	43.10	0.3		NEW	124.52	32 PKP	19 08.10 -0.1
	1.0s	91.80nm			6.1mb	LANF	97.49	319 P	13	43.07	0.4		JBO	124.64	36 PKP	19 08.46 0.0
		ePp	13	46.80	87kmX	IMI	97.51	314 P	13	43.17	0.2		VIPM	124.69	37 PKP	19 09.27 0.5
		sP	13	56.70		ROB	97.52	314 P	13	41.88	-1.1		YBH	124.78	41 iPKPc	19 08.56 -0.4
		i	14	49.80		LIBD	97.64	318 P	13	43.61	0.3			1.2s	*****nm	
		ePP	17	06.20		BRW	97.65	19 eP	13	42.62	-0.3			ePP	20 52.81	
		SKS	23	46.90		BBS	97.72	317 P	13	43.51	-0.3		LGPM	125.09	42 ePKP	19 10.19 0.6
		S	24	21.80		WLS	97.80	318 P	13	43.84	-0.3		LNOR	125.31	35 PKP	19 09.56 -0.2
VOY	93.30	316 iPc	13	23.80	0.0	DIX	97.81	316 iPc	13	45.00	0.4		WDC	125.44	42 iPKPc	19 10.00 -0.1
TRI	93.37	315 ePd	13	24.00	0.1	ENR	97.84	314 P	13	42.90	-1.6			1.0s	*****nm	
BRG	93.55	321 iP	13	24.80	0.1	CDF	97.85	318 P	13	44.06	-0.4			eSKS	31 07.21	
	1.3s	125.00nm			6.2mb	STV	97.91	314 P	13	43.76	-1.0			eLR	43 14.21	
		i	13	49.40	91kmX	ECH	97.94	318 P	13	44.38	-0.4		LBFM	125.50	41 ePKP	19 10.54 0.0
		i	17	30.50		RSP	97.94	315 P	13	43.39	-1.6		MIN	126.18	42 iPKPc	19 10.95 -0.9
GEC2	93.60	319 P	13	25.20	0.1	BHB	97.94	314 P	13	43.76	-1.1		NTYM	126.35	45 ePKP	19 12.65 0.7
	0.6s	24.90nm			5.8mb	MOF	97.96	317 P	13	44.38	-0.6		ORV	126.62	43 iPKPc	19 12.39 -0.1
		e	13	27.10	6kmX	LSD	98.01	315 P	13	44.86	-0.5			ePP	19 36.89	
		e	13	29.40		WTS	98.03	322 eP	13	45.00	0.0			ePP	21 13.99	
		e	17	12.10			0.8s	16.70nm			5.6mb		ORV	126.62	43 iPKPc	19 18.09 5.6X
		e	17	14.60		PZZ	98.06	314 P	13	44.77	-0.8			ePP	19 41.59	
		e	17	19.80		EMS	98.15	316 iPc	13	46.20	0.2			e	21 21.09	
		e	25	23.70		LOMF	98.18	317 P	13	45.59	-0.4		BKS	126.88	45 iPKPc	19 13.41 0.4
		e	25	36.10		BSF	98.19	317 P	13	45.37	-0.6			ePP	19 36.91	
		e	25	43.50		RRL	98.28	315 P	13	45.57	-1.1			isPKP	19 47.46	
KHC	93.69	319 Pc	13	25.90	0.5	WLF	98.55	319 iPd	13	48.14	0.8			ePP	21 14.31	
	1.2s	40.00nm			5.7mb	ENN	98.64	320 eP	13	48.00	0.2		HMR	127.07	45 PKP	19 14.20 0.9
		e	13	32.50	21kmX		1.2s	20.70nm			5.6mb		STAN	127.14	46 ePKPc	19 14.13 0.6
		e	14	11.50		VITF	98.72	318 P	13	48.00	-0.3		MHC	127.54	46 iPKPc	19 14.89 0.4
						TTA	99.01	27 eP	13	49.24	-0.1					



					ipPKP 19 39.59
					esPKP 19 48.54
COE	127.56	46	ePKP	19 15.23	0.9
ARN	127.62	46	ePKP	19 14.90	0.4
SAO	127.94	46	ePKP	19 15.32	0.2
CMB	128.11	44	iPKPc	19 15.35	-0.1
					1.3s *****nm
					ipPKP 19 40.15
					ePP 21 18.45
LRM	128.54	32	ePKP	18 57.30	-19.0X
					e 19 15.60
					e 19 40.40
PHAM	129.11	47	ePKP	19 18.58	1.2
KVN	129.16	42	ePKP	19 18.18	0.6
MEMM	129.29	44	(PKP)	19 19.01	1.5
BONR	129.58	43	ePKP	19 19.54	1.0
MRCM	129.59	44	PKP	19 19.20	0.7
BCH	129.63	47	PKP	19 19.20	0.7
MTUM	129.70	44	ePKP	19 19.61	0.9
ELK	130.08	39	ePKP	19 20.25	0.9
HHAI	130.22	34	ePKP	19 20.01	0.6
TNP	130.26	43	ePKP	19 20.24	0.5
ABL	130.42	47	ePKP	19 20.90	0.8
ISA	130.58	46	ePKP	19 16.87	-3.4X
ISA	130.58	46	ePKP	19 21.48	1.3
					eSKPbc22 35.21
HVU	130.95	36	ePKP	19 21.07	0.2
					ePP 22 37.01
TPNV	131.50	43	ePKP	19 22.68	0.6
DUG	131.90	38	ePKP	19 23.56	0.9
GSC	131.95	46	ePKP	19 24.14	1.3
BW06	132.12	33	ePKP	19 22.62	-0.5
					eSKP 22 40.64
PEC	132.37	47	ePKP	19 24.25	0.6
DAU	132.70	36	ePKP	19 24.98	0.5
PLM	132.84	48	ePKP	19 25.76	1.0
ARUT	132.92	41	ePKP	19 25.60	0.9
MSU	133.31	39	ePKP	19 24.06	-1.5
EMUT	133.34	37	ePKP	19 26.39	0.8
RSSD	133.93	28	ePKP	19 25.99	-0.5
SRU	133.96	37	ePKP	19 27.09	0.4
GLA	134.48	47	ePKP	19 29.33	1.6
FV09	135.19	37	ePKP	19 29.82	0.6
PV10	135.32	37	ePKP	19 30.13	0.7
PV08	135.43	37	ePKP	19 30.90	1.2
GOL	136.53	33	ePKP	19 31.52	-0.1
GLD	136.57	33	(PKP)	19 30.74	-0.9
PARB	138.96	226	iPKPd	19 29.70	-6.7X
					i 19 36.50
					e 20 02.50
					e 23 00.90
ALQ	139.12	39	ePKP	19 37.35	0.8
VAO2	139.69	225	ePKP	19 31.40	-6.3X
					e 19 38.10
					e 20 03.40
					e 24 13.60
CDCB	140.16	230	ePKP	19 32.70	-5.9X
					i 19 38.60
					e 19 57.70
RSTA	140.42	221	ePKP	19 31.90	-7.0X
					e 19 39.00
					e 20 01.60
					e 23 07.60
RSNY	140.44	358	ePKP	19 37.72	-0.6
LENH	140.59	355	ePKP	19 40.66	2.1
CACB	140.80	227	ePKP	19 35.70	-4.1X
					e 19 40.20
					e 19 42.60
					e 20 00.50
ACTO	141.27	4	PKP	19 32.49	-7.4X
STCO	141.73	3	PKP	19 33.68	-7.0X
TYNO	141.80	4	PKP	19 33.96	-6.8X
ACO	142.03	30	iPKPc	19 35.60	-5.9X
YSNY	142.49	3	ePKP	19 36.45	-5.6X
RTCV	142.74	191	iPKPd	19 39.10	-3.7X
BINY	142.82	360	ePKP	19 38.30	-4.3X
CFA	142.93	191	iPKPc	19 39.90	-3.3X
PCO	143.09	28	iPKPc	19 39.50	-3.7X
RTCB	143.15	191	iPKPc	19 41.00	-2.6X
LSCT	143.23	356	ePKP	19 39.04	-4.3X
RTLL	143.24	191	iPKPc	19 40.20	-3.5X
CRNY	143.62	356	ePKP	19 39.94	-4.0X
WMOK	143.73	32	ePKP	19 41.32	-3.1X
OCO	143.79	30	iPKPd	19 41.20	-3.2X
MEO	143.80	32	iPKPd	19 40.70	-3.8X
RTPR	143.79	194	iPKPc	19 42.50	-2.1
GPD	143.96	358	PKP	19 41.30	-3.3X

FNO	144.03	30	iPKPc	19 43.40	-1.5
GMTN	144.08	357	iPKP	19 42.00	-2.7X
TUL	144.28	28	iPKPd	19 43.10	-2.2
LTX	144.49	44	ePKP	19 44.75	-1.2
RTRS	144.55	190	iPKPd	19 46.00	0.1
FVM	144.61	19	iPKPc	19 43.66	-2.1
BDF	145.24	234	ePKP	19 47.90	0.3
					i 19 57.70
					i 20 07.00
					i 20 55.00
					i 22 51.30
					e 23 30.00
					e 24 23.00
ELC	145.64	18	iPKP	19 46.89	-0.6
MZX	145.71	55	(PKP)	19 49.00	1.0
LST	146.17	20	ePKP	19 48.77	0.4
UYO	146.33	28	iPKPc	19 48.00	-0.8
MIAR	146.42	26	ePKP	19 48.53	-0.4
					e 20 14.86
					e 20 19.07
					eSKP 23 22.53
CBN	146.80	1	iPKPc	19 49.50	0.2
					1.2s 483.90nm
CVL	146.98	3	ePKP	19 49.61	0.0
NAV	147.44	7	ePKP	19 49.83	-0.7
					ePKPbc19 52.48
BLA	147.58	6	ePKP	19 50.46	-0.3
					ePKPbc19 53.42
OXF	148.10	21	ePKP	19 51.18	-0.4
					ePKPbc19 54.46
CEH	149.02	4	PKP	19 52.97	0.0
MYNC	149.08	13	ePKP	19 53.03	-0.1
					ePKPbc19 57.20
GUM2	149.45	57	(PKP)	19 59.50	5.2X
LHS	150.24	7	ePKP	19 54.71	-0.1
					ePKPbc19 59.82
					ePKPab20 06.09
JSC	150.37	8	ePKP	19 54.33	-0.7
					ePKPbc20 00.41
					ePKPab20 07.05
PRM	150.39	10	ePKP	19 54.56	-0.6
					ePKPbc20 00.49
GOGA	150.83	12	ePKP	19 56.08	0.3
					ePKPbc20 01.20
					ePKPab20 07.75
SGS	151.54	7	ePKP	19 55.71	-1.1
					ePKPbc20 03.35
					ePKPab20 12.22
MRX	151.65	57	(PKP)	19 59.00	1.7
HBF	151.82	7	ePKP	19 57.13	-0.1
					ePKPbc20 03.90
					ePKPab20 13.03
CRX	153.04	56	(PKP)	20 00.00	0.2
UNM	153.49	55	(PKP)	20 01.50	1.2
ACX	154.04	61	(PKP)	20 10.00	9.2X
PFM	154.07	55	(PKP)	20 02.00	0.5
LVVM	155.45	51	(PKP)	20 03.00	0.4
CCH	155.71	204	PKP	20 05.10	1.6
OXK	156.62	57	(PKP)	20 07.00	2.5X
LPB	157.24	201	iPKPc	20 06.30	0.7
					Z 20s 1.42um 5.8Msz
LPZ	157.48	201	PKP	20 06.50	0.4
					1.7s 321.00nm
					PP 24 06.90
					PPP 27 50.20
					e 30 56.20
					SS 44 05.20
					LQ 06 36.90
					LR 14 54.10
ARE	158.28	193	ePKP	20 08.00	1.3
TPX	161.42	56	(PKP)	20 11.00	1.4
FDF	162.12	304	ePKP	20 11.30	1.0
BIM	162.17	304	ePKP	20 11.20	0.8
NNA	163.26	178	iPKPc	20 12.00	0.5
					1.1s 63.29nm
CAR	169.12	302	iPKPd	20 16.00	-0.2
TOV	171.87	307	ePKPc	20 17.70	0.2
SDV	173.07	306	iPKPc	20 17.40	-0.8
BMG	176.08	304	iPKPc	20 22.00	3.0X
PSO	176.23	165	ePKP	20 20.00	0.6
BOG	177.73	264	ePKP	20 20.00	0.4
					eS 26 16.00
					S.D. = 0.9 on 447 of 499 obs.
					* JAN 21, 1994 18h 14m 40.59± 0.59s
					0.880 N ± 7.7km 127.552 E ± 18.7km

DEPTH = 33.0km (normal)				
5.0mb ( 9 obs.)				
HALMAHERA, INDONESIA (267)				
WB2	21.74	163	iPd	19 31.20 -0.1
				0.8s 49.20nm 5.0mb
QIZ	25.04	317	eP	20 04.10 0.7
MRWA	31.90	199	eP	21 05.00 -0.3
				0.6s 10.00nm 4.9mb
KLB	33.60	195	eP	21 19.50 -0.6
				0.5s 11.00nm 5.0mb
MUN	34.40	197	eP	21 26.50 -0.5
NWAO	35.01	195	eP	21 32.00 -0.2
				0.5s 5.00nm 4.7mb
STK	35.19	159	eP	21 33.40 -0.4
				0.8s 16.50nm 5.0mb
XAN	37.32	334	P	21 51.20 -0.5
				1.1s 37.00nm 5.2mb
TIY	39.21	341	Pc	22 07.20 -0.4
LZH	41.36	330	Pd	22 26.00 0.6
				1.5s 110.00nm 5.4mb
				pP 22 33.00 24kmX
TOO	41.70	158	eP	22 29.80 1.8
				0.8s 29.00nm 5.1mb
HHC	42.34	342	P	22 32.40 -1.0
				1.0s 14.00nm 4.6mb
GBA	51.17	287	P	23 44.00 0.9
WMQ	55.52	326	P	24 15.00 0.0
				pP 24 21.30 21kmX
S.D. = 0.8 on 14 of 14 obs.				
* JAN 21, 1994 18h 23m 29.44± 0.57s				
0.913 N ± 7.8km 127.743 E ± 19.4km				
DEPTH = 33.0km (normal)				
4.6mb ( 7 obs.)				
HALMAHERA, INDONESIA (267)				
WB2	21.72	163	iPd	28 20.30 0.4
				0.7s 32.30nm 4.9mb
MUN	34.49	197	eP	30 16.40 -0.2
NWAO	35.09	195	eP	30 21.00 -0.7
STK	35.16	159	eP	30 22.60 0.3
				0.9s 6.30nm 4.5mb
XAN	37.37	334	P	30 40.70 -0.3
				1.0s 9.80nm 4.6mb
CD2	37.51	325	Pc	30 42.20 0.0
TIY	39.24	341	eP	30 56.50 -0.2
BJI	40.34	346	eP	31 05.00 -0.6
				1.0s 7.00nm 4.4mb
HHC	42.37	342	P	31 22.40 0.0
				1.0s 8.00nm 4.4mb
LSA	45.07	313	P	31 46.40 1.5
GTA	46.02	330	eP	31 52.00 0.2
				1.5s 14.00nm 4.7mb
GBA	51.35	287	P	32 33.00 -0.3
WMQ	55.60	326	P	33 04.40 0.0
				1.0s 12.00nm 4.9mb
BRG	104.09	323	e(Pdi f38	09.20 38.3X
				1.1s 17.00nm
S.D. = 0.6 on 13 of 14 obs.				
JAN 21, 1994 18h 32m 28.45± 0.70s				
32.841 N ± 8.2km 5.242 W ± 11.2km				
DEPTH = 11.7 ± 6.0 km				
MOROCCO (395)				
MG 3.7 (RTC).				
CZD	0.26	40	iP	32 33.70 -0.4
				iS 32 38.00
TNF	0.32	192	iP	32 35.00 -0.1
				iS 32 39.50
MIF	0.57	11	iP	32 40.00 0.1
				iS 32 47.00
TGT	1.24	7	iP	32 52.00 0.8
				iS 33 08.00
TZC	1.25	238	iP	32 52.00 0.6
				iS 33 08.00
TZK	1.53	35	iP	32 56.50 1.0
				iS 33 17.00
OUK	2.77	235	iP	33 13.50 0.1
				eS 33 46.00
CIA	3.25	248	iP	33 19.70 -0.6
				iS 33 56.50
EBAN	5.44	12	eP	33 50.00 -1.4
				eS 34 49.50
S.D. = 0.9 on 9 of 9 obs.				



21d 18h

& JAN 21, 1994 18h 39m 15.26s  
34.300 N 118.466 W

DEPTH = 10.6km

4.4mb ( 5 obs.)

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. MD 4.6 (PAS). ML 4.7

(GS), 4.7 (BRK).

Mo=6.2\*10\*\*15 Nm (BRK).

Double event.

Felt strongly in the epicentral area.

SSK	0.65	98	iPd	39	27.18	-1.1
ABL	0.83	312	iPc	39	30.13	-1.3
PEC	1.16	110	iPd	39	35.72	-1.1
ISA	1.36	360	eP	39	39.32	-0.9
BCH	1.60	304	iPc	39	42.28	-1.4
PLM	1.64	125	iPc	39	42.48	-1.8
GSC	1.69	53	eP	39	44.03	-1.0
PHAM	2.20	315	eP	39	49.90	-2.5
PKEM	2.21	323	eP	39	51.67	-0.8
MTUM	3.05	359	eP	40	04.40	-0.1
TPNV	3.20	34	ePn	40	05.40	-1.3
GLA	3.28	111	ePn	40	05.08	-2.6
MMPM	3.33	352	ePn	40	08.45	-0.3
MRCM	3.36	359	ePn	40	08.36	-0.7
MEMM	3.38	354	ePn	40	09.35	0.3
SAO	3.46	316	ePn	40	07.09	-3.0
BONR	3.65	2	ePn	40	12.35	-0.8
TNP	3.91	15	ePn	40	15.95	-0.8
ARN	3.93	322	eP	40	13.61	-3.3
COE	3.94	319	ePn	40	15.15	-1.8
MHC	3.98	321	eP	40	15.86	-1.9
CMB	4.04	338	ePc	40	16.55	-1.8
			eS	41	21.28	
BKS	4.70	321	eP	40	25.91	-1.9
HMR	4.70	326	(P)	40	25.93	-1.8
KVN	4.75	3	ePn	40	29.42	0.7
			ePg	40	41.84	

NTYM	5.30	322	(P)	40	33.26	-3.0
ARUT	5.36	48	ePn	40	36.57	-0.7
ORV	5.78	336	ePn	40	40.90	-2.1
MSU	6.59	49	ePn	40	54.12	-0.6
DUG	7.41	36	(Pn)	41	07.32	1.2
KMPM	7.58	325	ePn	41	07.03	-1.5
EMUT	8.23	46	(Pn)	41	17.71	0.1
DAU	8.37	41	ePn	41	18.41	-1.4
PV09	8.61	58	ePn	41	21.37	-1.7
PV10	8.62	59	ePn	41	21.41	-1.8
HVU	8.71	29	(Pn)	41	23.75	-0.5
PV08	8.99	59	ePn	41	28.28	0.0
BW06	10.96	37	eP	41	56.08	0.8

	0.9s	3.34nm	4.7mb X
VGB	11.34	352 (P)	42 00.93 0.7
LRM	12.39	20 eP	42 14.00 -0.7
LTX	13.52	107 eP	42 28.00 -1.6
NEW	13.99	4 (P)	42 34.47 -1.1
	1.5s	17.01nm	4.6mb
RSSD	14.85	44 eP	42 47.23 0.1
	1.6s	25.65nm	4.5mb
ACO	15.92	76 iPc	43 09.40 8.6
WMOK	16.23	83 (P)	43 03.27 -1.6
	1.3s	15.43nm	4.0mb
MEO	16.39	83 iPc	43 14.50 7.6
UYO	19.84	84 iPd	43 46.00 -3.1
YKA	28.32	4 P	45 08.60 -2.1
	0.5s	0.50nm	3.6mb
PMR	33.57	334 (P)	45 54.57 -2.5
	1.7s	67.48nm	5.3mb
LPZ	69.44	128 P	50 24.20 -2.3
MOCB	74.66	130 P	50 56.00 -1.3

51 obs. associated

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& JAN 21, 1994 18h 42m 28.76s  
34.310 N 118.474 W

DEPTH = 7.5km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 4.1 (PAS), 4.2 (BRK), 4.3 (GS). Felt.

SSK	0.65	98	eP	42	40.85	-1.2
ABL	0.82	311	iPc	42	43.49	-1.5
PEC	1.17	111	eP	42	49.23	-1.6
ISA	1.35	0	eP	42	52.67	-1.3
BCH	1.59	304 (P)		42	55.81	-1.6
GSC	1.69	54	eP	42	56.53	-2.4
PHAM	2.19	315	eP	43	03.76	-2.3

PKEM	2.20	323	eP	43	05.07	-1.1
PRI	2.56	316	iPd	43	09.61	-1.8
FRI	2.86	340	ePd	43	12.59	-2.9
			iS	43	54.99	
MTUM	3.04	359	eP	43	17.57	-0.7
TPNV	3.20	34	ePn	43	19.00	-1.5
MMPM	3.32	352	ePn	43	22.14	-0.3
MRCM	3.35	360	eP	43	24.59	1.8
MEMM	3.37	354	ePn	43	23.47	0.7
SAO	3.45	316	eP	43	20.71	-3.2
BONR	3.64	2	ePn	43	27.20	0.3
TNP	3.90	15 (Pn)		43	30.20	-0.3
COE	3.93	319 (P)		43	30.47	-0.2
CMB	4.03	338	eP	43	32.48	0.3
ZSP	4.75	321	eP	43	39.49	-2.9
ARUT	5.35	48	ePn	43	50.99	-0.2

22 obs. associated

? JAN 21, 1994 18h 49m 47.07± 2.91s  
19.674 N ±24.4km 64.429 W ±43.4km  
DEPTH = 10.0km (geophysicist)  
4.0mb ( 1 obs.)

VIRGIN ISLANDS ( 91)

LPR	1.92	225 P	50	20.10	-0.1
SJG	2.25	227 iP	50	25.20	0.2
APR	2.49	241 P	50	28.40	0.1
CLLP	2.58	232 (P)	50	29.50	0.0
LRS	2.67	239 P	50	31.00	0.1
MGP	3.02	237 P	50	35.50	-0.2
YKA	54.79	334 P	59	19.10	0.0

0.8s 1.30nm 4.0mb

S.D. = 0.2 on 7 of 7 obs.

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& JAN 21, 1994 18h 52m 44.23s  
34.301 N 118.452 W

DEPTH = 7.7km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 4.3 (PAS), 4.3 (GS). Felt.

SSK	0.64	98	iPd	52	56.02	-1.0
ABL	0.84	311	iPc	52	59.19	-1.6
PEC	1.15	110	eP	53	04.19	-1.7
ISA	1.36	359	eP	53	08.46	-1.1
BCH	1.61	304	ePc	53	11.37	-1.8
PLM	1.63	125	iPc	53	11.53	-1.9
GSC	1.68	53	iPd	53	13.12	-1.1
PHAM	2.21	314	ePn	53	18.84	-3.0
PKEM	2.22	323	eP	53	21.02	-0.9
MTUM	3.05	358	ePn	53	33.63	-0.2
TPNV	3.19	34	eP	53	34.55	-1.3
GLA	3.27	111	eP	53	34.13	-2.7
MMPM	3.33	352 (Pn)		53	36.30	-1.8
MRCM	3.36	359	ePn	53	38.02	-0.4
MEMM	3.38	353 (Pn)		53	38.63	0.3
SAO	3.46	316	eP	53	36.53	-3.0
BONR	3.65	2	ePn	53	43.21	0.7
TNP	3.90	14	ePn	53	46.30	0.3
ARN	3.94	321	eP	53	43.04	-3.3
CMB	4.04	338	eP	53	46.82	-1.0
JEGM	4.57	316 (P)		53	54.60	-0.6
HMR	4.70	326 (P)		53	54.45	-2.7
KVN	4.75	3	ePn	53	58.33	0.3
ARUT	5.35	48	ePn	54	06.57	0.1
ORV	5.78	336 (P)		54	10.26	-2.2
MSU	6.58	48	eP	54	22.75	-1.2
DUG	7.40	36 (P)		54	35.52	0.2
SRU	7.97	51 (P)		54	42.87	-0.5
PV09	8.60	58	eP	54	52.15	-0.1
PV10	8.61	59	eP	54	51.07	-1.3
HHAI	10.15	26 (P)		55	13.71	0.3
BW06	10.96	37	eP	55	25.62	1.1
	1.0s	1.83nm	4.4mb X			
YKA	28.32	4 P	58	42.30	2.2	
	1.0s	0.80nm	3.5mb			

33 obs. associated

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& JAN 21, 1994 18h 53m 44.57s  
34.297 N 118.458 W

DEPTH = 7.5km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 4.3 (PAS), 4.3 (GS). Felt.

SSK	0.64	98 (P)	53	56.19	-1.2	
ABL	0.84	311	eP	53	58.47	-2.7
PEC	1.15	110 (P)	54	04.79	-1.6	

ISA	1.36	359	eP	54	07.82	-2.1
BCH	1.61	304 (P)		54	11.97	-1.5
TPNV	3.20	34 (P)		54	42.02	5.7
MMPM	3.34	352 (P)		54	41.16	2.7
CMB	4.04	338 (P)		54	45.88	-2.3
NTYM	5.31	321 (P)		55	04.65	-1.4
ARUT	5.35	48 (P)		55	06.93	0.0
ACO	15.91	76 iPc		57	39.70	9.2
MEO	16.39	83 iPd		57	39.40	2.8

12 obs. associated

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& JAN 21, 1994 18h 57m 19.35s  
34.292 N 118.474 W

DEPTH = 8.8km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 3.7 (PAS), 3.7 (GS).

SSK	0.65	97	iPd	57	31.48	-1.1
ABL	0.83	312	iPc	57	34.30	-1.4
PEC	1.16	110	eP	57	39.14	-2.0
BCH	1.60	304	eP	57	45.09	-2.9
			eS	58	09.37	
GSC	1.70	53	eP	57	48.53	-1.0
PHAM	2.21	315 (P)		57	53.14	-3.6
PKEM	2.22	323 (P)		57	55.73	-1.1
MTUM	3.06	359 (P)		58	13.13	4.2
TPNV	3.21	34	ePn	58	10.14	-1.0
MMPM	3.34	352	ePn	58	12.27	-0.9
			ePg	58	19.21	
MRCM	3.37	360	ePg	58	20.69	7.2
CMB	4.04	338 (P)		58	21.30	-1.5

12 obs. associated

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\* JAN 21, 1994 19h 00m 39.49± 2.25s  
34.256 N ±17.1km 118.579 W ±21.6km  
DEPTH = 10.0km (geophysicist)

SOUTHERN CALIFORNIA ( 43)

ML 3.1 (GS).

PEC	1.23	107	eP	01	02.30	-0.1
			S	01	18.20	
PLM	1.69	122	ePd	01	09.45	0.1
GSC	1.79	54	eP	01	10.89	0.1
MMPM	3.37	354 (Pn)		01	33.91	0.4
MEMM	3.42	355 (Pn)		01	33.33	-0.5

S.D. = 0.5 on 5 of 5 obs.

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& JAN 21, 1994 19h 14m 20.86s  
34.334 N 118.637 W

DEPTH = 14.5km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 3.3 (PAS), 3.4 (GS).

ABL	0.71	317	eP	14	33.34	-1.2
SSK	0.79	99	eP	14	35.26	-0.7
PEC	1.30	109	eP	14	43.06	-1.4
			S	15	00.63	
ISA	1.33	6	ePc	14	44.25	-0.7
BCH	1.46	306	eP	14	45.86	-1.0
PLM	1.77	123	eP	14	50.09	-1.3
GSC	1.79	57	ePc	14	50.70	-0.8
PHAM	2.08	317	eP	14	54.33	-1.4
MTUM	3.01	1	eP	15	09.22	0.1
TPNV	3.25	36	eP	15	11.33	-1.2
MMPM	3.28	355	eP	15	12.71	-0.4
MEMM	3.33	356	eP	15	15.37	1.9
GLA	3.42	111 (P)		15	14.84	0.0
BONR	3.62	4 (P)		15	19.66	1.7
TNP	3.91	17	eP	15	22.29	0.4
CMB	3.95	340 (P)		15	20.51	-1.8
ARUT	5.44	49	eP			



0.9s 1.20nm 3.9mb  
S.D. = 0.1 on 6 of 6 obs.

& JAN 21, 1994 19h 27m 37.96s  
34.296 N 118.461 W  
DEPTH = 7.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.8 (GS).

SSK 0.64 97 eP 27 49.88 -1.0  
S 28 00.28  
ABL 0.84 312 ePc 27 52.75 -1.8  
PEC 1.15 110 ePc 27 58.44 -1.4  
S 28 14.12  
ISA 1.36 360 iPd 28 02.45 -1.0  
S 28 20.59  
BCH 1.60 304 eP 28 05.25 -1.6  
PLM 1.63 125 eP 28 04.62 -2.7  
GSC 1.69 53 eP 28 06.46 -1.7  
MMPM 3.34 352 (P) 28 30.13 -1.8  
MEMM 3.39 354 (P) 28 31.43 -0.8  
BONR 3.65 2 eP 28 36.25 -0.1  
10 obs. associated

& JAN 21, 1994 19h 37m 42.31s  
34.295 N 118.463 W  
DEPTH = 7.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.64 97 ePd 37 54.30 -0.9  
S 38 03.38  
ABL 0.84 312 eP 37 57.01 -1.9  
PEC 1.15 110 eP 38 02.60 -1.6  
S 38 18.05  
ISA 1.37 360 eP 38 05.93 -1.8  
BCH 1.60 304 eP 38 09.04 -2.2  
PLM 1.63 125 eP 38 08.81 -2.9  
GSC 1.69 53 eP 38 11.15 -1.4  
BONR 3.65 2 eP 38 40.33 -0.4  
8 obs. associated

& JAN 21, 1994 19h 46m 37.71s  
34.296 N 118.469 W  
DEPTH = 10.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.8 (GS).

SSK 0.65 97 eP 46 49.81 -0.9  
ABL 0.83 312 ePc 46 52.64 -1.2  
S 47 04.28  
PEC 1.16 110 eP 46 58.46 -0.9  
S 47 13.51  
ISA 1.36 360 eP 47 01.94 -0.8  
BCH 1.60 304 eP 47 05.63 -0.5  
PLM 1.64 125 eP 47 05.27 -1.4  
GSC 1.70 53 (P) 47 08.54 1.0  
MTUM 3.05 359 (P) 47 30.70 3.7  
TPNV 3.21 34 eP 47 29.86 0.7  
MMPM 3.34 352 (P) 47 32.69 1.5  
MEMM 3.38 354 (P) 47 33.33 1.8  
11 obs. associated

JAN 21, 1994 20h 05m 22.93± 0.26s  
41.057 N ± 2.9km 20.955 E ± 2.8km  
DEPTH = 4.3 ± 2.4 km  
4.3mb (1 obs.)  
ALBANIA (391)  
MD 3.8 (ATH). ML 3.7 (TTG). Felt  
(V) in the Ohrid-Resen area and  
(IV) at Struga, former  
Yugoslav Republic of  
Macedonia.

OHR 0.13 295 iPg 05 26.00 0.4  
0.3s 4760.00nm  
FNA 0.42 130 ePg 05 31.40 0.0  
iSg 05 28.00  
KBN 0.45 196 iPg 05 31.00 -1.0  
iSg 05 40.00  
TIR 0.87 290 ePg 05 39.70 -0.5  
iSg 05 51.20  
LSK 0.95 197 iPg 05 40.50 -1.0  
iSg 05 54.00  
KZN 0.97 140 ePn 05 41.50 -0.5  
SKO 0.98 22 iPg 05 41.40 -0.7

GRG 1.10 95 ePg 05 43.90  
iSg 05 47.80  
eSg 05 54.60  
ePn 05 44.36 0.2  
eSg 05 59.90  
LACI 1.10 302 iPn 05 42.10 -2.0  
iSn 06 00.70  
VAY 1.25 77 iPg 05 47.20 0.6  
i 05 49.40  
i 05 55.70  
i 06 01.20  
iSg 06 04.30  
VLO 1.25 243 ePn 05 47.90 1.2  
iSn 06 06.90  
SRN 1.38 212 iPnc 05 49.60 0.7  
iSn 06 10.60  
KNT 1.47 85 ePb 05 50.44 0.2  
eSb 06 10.40  
SDA 1.48 313 ePn 05 51.10 0.8  
iSn 06 11.30  
LIT 1.51 129 ePbc 05 51.08 0.3  
eSb 06 12.00  
ULC 1.57 306 iPg 05 50.96 -0.6  
iSg 06 11.24  
THE 1.58 105 ePb 05 51.92 0.2  
IGT 1.60 198 iPb 05 54.36 2.4X  
KEK 1.61 214 ePn 05 53.50 1.4  
PVY 1.70 335 iPg 05 53.31 -0.3  
iSg 06 14.77  
SOH 1.83 97 ePb 05 55.56 0.1  
TTG 1.87 318 iPnc 05 56.54 0.7  
iSn 06 20.63  
IVA 1.98 337 iPnd 05 57.84 0.3  
iSn 06 23.05  
SRS 1.99 87 ePn 05 57.68 -0.1  
eSn 06 23.00  
BDV 2.01 308 iPnd 05 59.04 1.0  
iSn 06 24.49  
NKY 2.28 321 iPnd 06 02.77 0.7  
iSn 06 30.33  
AGG 2.29 152 ePn 06 02.16 0.1  
eSn 06 31.64  
HCY 2.30 308 iPnc 06 03.04 0.8  
iSn 06 31.87  
PAIG 2.36 118 iPn 06 02.88 -0.2  
PLE 2.55 333 iPnc 06 06.11 0.3  
iSn 06 37.10  
BRY 2.57 316 iPnc 06 06.66 0.5  
iSn 06 37.81  
VLS 2.89 186 ePn 06 10.00 -0.6  
SSR 3.85 8 ePc 06 33.00 8.8X  
HVAR 3.97 304 iPn 06 24.30 -1.5  
iSn 07 09.70  
VLI 4.60 160 ePn 06 34.00 -0.8  
MLR 5.74 38 eP 06 50.00 -1.0  
GEC2 9.33 329 Pg 07 39.30 -1.8  
0.7s 0.78nm 4.3mb  
e 07 44.90  
S.D. = 0.9 on 35 of 37 obs.

& JAN 21, 1994 20h 12m 16.79s  
34.296 N 118.454 W  
DEPTH = 7.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.7 (PAS), 2.6 (GS).

SSK 0.64 97 eP 12 28.50 -1.1  
S 12 38.22  
ABL 0.84 311 ePc 12 31.71 -1.7  
PEC 1.15 110 eP 12 37.26 -1.3  
S 12 52.67  
ISA 1.36 359 eP 12 40.83 -1.4  
S 12 58.68  
BCH 1.61 304 eP 12 43.69 -2.0  
PLM 1.63 125 eP 12 43.31 -2.7  
GSC 1.69 53 eP 12 44.37 -2.5  
MEMM 3.39 353 (P) 13 07.12 -3.9  
BONR 3.65 2 (P) 13 15.82 0.7  
9 obs. associated

& JAN 21, 1994 20h 24m 43.35± 0.39s  
44.532 N ± 3.0km 7.278 E ± 4.3km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.1 (GEN).

PZZ 0.13 258 P 24 46.88 0.3

STV 0.29 173 P 24 49.03  
BHB 0.31 358 P 24 49.30 -0.2  
ENR 0.32 161 P 24 50.03 0.0  
S 24 54.33  
ROB 0.49 119 P 24 52.95 -0.3  
S 24 59.37  
RRL 0.52 318 P 24 53.80 -0.2  
S 25 01.25  
RSP 0.62 359 P 24 55.66 -0.3  
FIN 0.74 115 P 24 58.01 0.1  
S 25 07.06  
IMI 0.76 145 P 24 58.50 0.2  
S 25 08.52  
PCP 0.91 89 P 25 00.77 0.0  
S 25 12.25  
LSD 0.93 355 P 25 01.13 -0.1  
ORX 1.21 24 P 25 06.30 0.4  
S.D. = 0.2 on 12 of 12 obs.

\* JAN 21, 1994 20h 32m 06.70± 1.15s  
43.957 N ±15.8km 148.117 E ±13.7km  
DEPTH = 33.0km (normal)  
3.9mb (3 obs.)  
EAST OF KURIL ISLANDS (222)

KUSJ 2.62 252 iPd 32 47.10 -0.5  
S 33 12.60  
HOOJ 3.87 248 eP 33 06.50 1.2  
eS 33 48.30  
ASAJ 3.95 274 P 33 07.90 1.4  
MRRJ 5.37 256 eP 33 28.20 1.6  
eS 34 24.30  
AOMJ 6.67 242 eP 33 44.20 -0.7  
OFUJ 6.87 227 eP 33 46.80 -0.8  
eS 34 57.00  
YAMJ 8.40 229 eP 34 08.60 -0.5  
MAT 10.59 229 (P) 34 39.00 -0.2  
BJI 23.98 272 eP 37 17.00 -1.9  
1.5s 14.00nm 4.3mb  
CHTO 48.01 255 eP 40 44.10 -0.5  
YKA 55.24 34 P 41 38.60 0.2  
0.5s 0.30nm 3.6mb  
WRA 64.83 194 P 42 46.30 1.9  
0.7s 0.70nm 3.9mb  
GBA 66.80 267 P 42 56.00 -1.3  
S.D. = 1.3 on 13 of 13 obs.

\* JAN 21, 1994 20h 42m 05.58± 1.06s  
47.121 N ± 7.6km 6.052 E ±13.4km  
DEPTH = 10.0km (geophysicist)  
FRANCE (538)

EMS 1.21 150 eP 42 29.40 1.1  
DIX 1.40 138 eP 42 32.00 0.6  
FEL 1.53 60 ePn 42 28.10 -5.0X  
MMK 1.70 128 eP 42 37.90 2.3X  
SLE 1.78 68 iPd 42 32.10 -4.5X  
LLS 2.03 96 eP 42 38.80 -1.6  
SSB 2.12 210 Pn 42 40.79 -0.8  
RUP 2.67 14 ePn 42 50.10 0.7  
ABH 2.94 19 ePn 42 53.20 0.0  
S.D. = 1.3 on 6 of 9 obs.

& JAN 21, 1994 20h 57m 51.46s  
34.297 N 118.440 W  
DEPTH = 6.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK 0.62 98 eP 58 03.15 -0.9  
S 58 12.06  
ABL 0.85 311 eP 58 06.38 -1.9  
PEC 1.14 110 eP 58 11.70 -1.4  
S 58 27.34  
ISA 1.36 359 eP 58 15.56 -1.4  
S 58 33.28  
PLM 1.62 125 eP 58 17.05 -3.6  
S 58 40.23  
BCH 1.62 304 eP 58 19.80 -0.8  
GSC 1.68 53 eP 58 20.71 -0.8  
TPNV 3.19 33 (P) 58 41.21 -2.0  
BONR 3.65 2 (P) 58 52.33 2.4  
9 obs. associated

& JAN 21, 1994 20h 58m 38.74s



21d 20h

59.821 N 152.260 W  
 DEPTH = 89.8km  
 3.4mb ( 1 obs.)  
 SOUTHERN ALASKA  
 <AEIC>.

HOM	0.35	117	ePc	58	52.14	-0.5
ILIM	0.44	307	iPd	58	52.35	-0.9
XLV	0.46	143	eP	58	52.47	-0.9
			eS	59	03.64	
OPT	0.52	251	iPd	58	53.19	-0.7
			S	59	04.25	
NNL	0.53	65	P	58	55.30	1.3
CNPM	0.60	119	iPc	58	53.68	-0.9
			eS	59	05.40	
RED	0.65	337	iPc	58	54.31	-0.8
			eS	59	06.84	
RSO	0.69	339	ePc	58	54.91	-0.7
			eS	59	08.36	
RS2	0.69	339	ePc	58	54.94	-0.7
BRLK	0.70	94	eP	58	54.72	-0.8
			eS	59	07.02	
REF	0.71	342	iPc	58	55.09	-0.7
RDW	0.72	338	iPc	58	55.16	-0.7
AUE	0.73	231	ePd	58	54.98	-0.8
AUL	0.74	234	ePd	58	55.16	-0.7
AUP	0.75	233	iPc	58	55.03	-1.0
AUH	0.76	233	iPd	58	55.34	-0.8
AUW	0.76	234	ePd	58	55.39	-0.7
AUI	0.77	231	iPd	58	55.28	-0.9
			eS	59	08.14	
DFR	0.80	345	iPc	58	55.86	-0.8
NCT	0.82	336	ePc	58	55.92	-0.9
			eS	59	09.76	
PDB	0.98	269	iPd	58	57.12	-1.3
			eS	59	11.74	
NKA	1.06	28	ePc	59	00.26	0.9
SYI	1.22	183	iPd	59	00.15	-1.1
			eS	59	17.02	
SLKM	1.23	55	ePc	59	00.02	-1.5
			eS	59	17.18	
BKG	1.25	360	ePc	59	01.09	-0.8
			eS	59	18.91	
SPU	1.37	4	iPc	59	02.58	-0.7
			eS	59	21.43	
CKL	1.38	358	ePd	59	02.86	-0.6
CKT	1.38	1	ePd	59	02.76	-0.7
CKN	1.41	2	ePd	59	03.25	-0.5
SEW	1.44	77	ePc	59	02.56	-1.5
			eS	59	20.98	
CP2	1.45	0	iPd	59	03.59	-0.8
BGL	1.45	358	iPc	59	03.72	-0.6
CRP	1.45	2	iPd	59	03.28	-1.2
CGLM	1.50	5	eP	59	04.38	-0.6
BGM	1.57	255	eP	59	04.58	-1.2
NCG	1.59	2	iPd	59	05.52	-0.6
MPA	1.60	64	iPc	59	05.03	-1.1
SUA	1.81	24	iPd	59	08.46	-0.6
			eS	59	31.46	
KDC	2.08	183	iPd	59	09.77	-2.8
SVW	2.11	309	iPd	59	10.86	-2.1
PWA	2.18	31	P	59	13.90	0.1
SKT	2.20	9	iPd	59	12.98	-1.2
PWL	2.21	60	iPc	59	12.45	-1.9
LTI	2.23	82	eP	59	13.13	-1.4
KNIM	2.33	75	eP	59	12.93	-3.0
MTU	2.33	84	eP	59	14.17	-1.7
PLRM	2.35	40	eP	59	14.35	-1.8
PMR	2.35	40	eP	59	13.88	-2.3
			eS	59	25.57	
KNK	2.46	48	ePc	59	15.85	-1.9
GHO	2.55	38	eP	59	17.42	-1.6
CFI	2.61	56	ePc	59	17.25	-2.4
CUT	2.77	20	eP	59	20.54	-1.3
SML	2.77	42	eP	59	20.10	-1.9
GLI	2.78	65	P	59	22.30	0.2
HIN	2.94	76	eP	59	21.69	-2.6
FID	3.03	70	ePc	59	22.11	-3.3
MID	3.03	95	P	59	23.70	-1.8
VLZ	3.22	63	eP	59	25.51	-2.5
CVA	3.33	75	eP	59	26.85	-2.8
HUR	3.41	21	eP	59	29.87	-0.9
KLU	3.54	59	ePc	59	30.30	-2.3
			eS	00	09.64	
TTA	3.60	332	eP	59	31.09	-2.4
TOA	3.75	50	P	59	33.80	-1.7
TRF	3.76	14	eP	59	33.80	-2.0

KTH	3.80	9	eP	59	35.00	-1.2
RND	3.95	23	eP	59	36.44	-1.8
KAIM	3.96	85	eP	59	36.40	-1.9
TZL	4.01	53	eP	59	37.02	-2.0
DHY	4.02	34	eP	59	37.39	-2.0
MCK	4.23	20	eP	59	40.81	-1.3
GLB	4.47	65	ePc	59	42.51	-2.9
PAX	4.54	43	eP	59	44.87	-1.6
BWN	4.56	16	eP	59	45.21	-1.5
CRQM	4.64	74	eP	59	45.41	-2.5
SNH	4.74	82	eP	59	46.91	-2.3
TGL	4.79	75	eP	59	47.26	-2.6
CYK	4.92	83	eP	59	49.71	-1.9
NEA	5.00	16	eP	59	50.25	-2.5
DDM	5.00	35	eP	59	52.07	-0.8
WRH	5.06	21	eP	59	50.85	-2.7
BALM	5.06	72	eP	59	51.11	-2.6
HDA	5.23	26	eP	59	53.39	-2.6
DJE	5.24	34	eP	59	54.13	-2.0
CCB	5.27	21	eP	59	54.06	-2.5
MLY	5.28	7	eP	59	54.39	-2.3
MDM	5.49	18	eP	59	57.05	-2.5
FBA	5.50	20	eP	59	56.61	-3.2
CTGM	5.54	73	eP	59	58.42	-2.0
CHX	5.61	83	eP	59	59.28	-2.0
GLM	5.66	21	eP	59	59.21	-2.7
PCA	6.04	82	eP	00	04.24	-3.0
IMA	6.31	355	eP	00	08.15	-2.8
BCPM	6.36	83	eP	00	09.21	-2.4
PNL	6.51	86	ePc	00	10.72	-2.9
YKA	18.19	65	P	02	43.40	-2.9
	0.5s		1.20nm		3.4mb	
			95 obs. associated			

& JAN 21, 1994 21h 02m 54.54s  
 34.331 N 118.637 W  
 DEPTH = 4.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

ABL	0.71	317	ePd	03	07.58	-1.1
			S	03	17.75	
SSK	0.79	98	eP	03	08.97	-1.5
PEC	1.30	109	eP	03	17.11	-2.0
			S	03	34.99	
ISA	1.34	6	eP	03	18.42	-1.3
BCH	1.46	306	eP	03	20.41	-1.4
PLM	1.77	123	eP	03	24.54	-1.7
GSC	1.79	57	eP	03	25.21	-1.3
PHAM	2.08	317	eP	03	30.18	-0.4
MTUM	3.02	1	eP	03	46.23	2.1
TPNV	3.26	36	eP	03	45.65	-1.8
MMPM	3.29	355	(P)	03	49.52	1.4
MEMM	3.34	356	eP	03	47.47	-1.0
BONR	3.63	4	eP	03	56.64	3.8
CMB	3.96	340	eP	03	56.97	-0.3
			14 obs. associated			

& JAN 21, 1994 21h 26m 27.79s  
 34.286 N 118.418 W  
 DEPTH = 6.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.4 (PAS), 3.4 (GS).

SSK	0.61	97	eP	26	39.13	-0.8
ABL	0.87	311	eP	26	43.42	-1.6
PEC	1.12	110	iPc	26	47.53	-1.6
			S	27	02.77	
ISA	1.37	358	ePd	26	52.39	-1.1
			S	27	11.33	
PLM	1.59	125	ePc	26	54.79	-2.0
			S	27	16.52	
BCH	1.64	304	eP	26	56.30	-1.1
GSC	1.67	52	ePd	26	56.76	-1.0
PHAM	2.24	314	(P)	27	06.25	0.2
MTUM	3.06	358	(P)	27	17.41	-0.4
TPNV	3.19	33	ePc	27	18.49	-1.1
GLA	3.24	111	(Pn)	27	20.81	0.6
MMPM	3.35	352	ePc	27	27.29	5.2
MEMM	3.40	353	(Pn)	27	24.81	2.4
BONR	3.66	1	(Pn)	27	26.40	-0.1
			ePg	27	35.10	
TNP	3.91	14	(Pg)	27	39.93	10.0
ARN	3.97	321	eP	27	30.92	0.4
CMB	4.07	338	ePn	27	30.32	-1.6
ARUT	5.34	48	ePn	27	49.90	-0.2
			18 obs. associated			

JAN 21, 1994 21h 27m 19.60± 0.73s  
 38.338 N ± 6.6km 21.812 E ± 7.8km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.8 (THE).

AGG	0.79	31	ePg	27	34.70	-0.4
			eSg	27	46.50	
VLS	0.98	261	eP	27	38.00	-0.1
			eS	27	55.00	
ATH	1.55	103	eP	27	47.50	0.3
LIT	1.84	16	ePn	27	52.78	1.3
VLI	1.85	151	eP	27	51.50	-0.1
KZN	1.97	359	eP	27	54.00	0.6
SOH	2.75	25	ePn	28	03.90	-0.7
OHR	2.88	345	eP	28	13.00	6.6X
KNT	2.94	16	ePn	28	06.30	-0.9
			S.D. = 0.9 on 8 of 9 obs.			

& JAN 21, 1994 22h 22m 51.72s  
 34.387 N 118.640 W  
 DEPTH = 7.8km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

ABL	0.67	314	ePc	23	03.73	-1.5
SSK	0.80	102	eP	23	06.91	-0.7
ISA	1.28	6	eP	23	15.16	-0.6
PEC	1.32	112	eP	23	14.32	-2.1
BCH	1.43	304	eP	23	16.96	-1.2
GSC	1.76	58	eP	23	21.93	-0.9
PLM	1.80	124	eP	23	23.15	-0.4
PHAM	2.04	316	(P)	23	23.08	-3.7
TPNV	3.21	37	(P)	23	46.81	3.2
BONR	3.57	4	(P)	23	46.73	-2.1
			10 obs. associated			

JAN 21, 1994 22h 48m 17.40± 0.79s  
 42.058 N ± 7.9km 16.202 E ± 6.8km  
 DEPTH = 5.0km (geophysicist)  
 ADRIATIC SEA (382)  
 MD 3.9 (ATH), 3.9 (TRI). ML 3.6 (TTG).

HCY	1.75	76	iPg	48	47.90	-0.7
			iSg	49	09.05	
BRY	1.93	63	iPd	48	50.36	-0.9
			iSn	49	15.14	
BDV	1.96	83	iPnc	48	51.26	-0.5
			iSn	49	15.49	
NKY	2.20	69	iPnd	48	55.81	0.5
			iSn	49	21.60	
ULC	2.27	91	iPnc	48	55.60	-0.6
			iSn	49	22.43	
TTG	2.30	80	iPnc	48	56.33	-0.2
			iSn	49	23.92	
PLE	2.67	61	iPnd	49	02.55	0.5
			iSn	49	33.66	
PVY	2.85	78	iPnc	49	04.14	-0.3
			iSn	49	36.43	
IVA	2.85	72	iPnc	49	04.40	-0.1
			iSn	49	37.52	
VBY	3.51	349	ePn	49	14.30	0.6
			iSn	49	48.00	
RIY	3.54	339	iPn	49	15.00	0.9
OHR	3.58	104	iPn	49	14.80	0.1
KEK	3.59	129	ePn	49	15.00	0.1
ZAG	3.76	358	i(Pn)	49		



iSn 50 58.60  
 SQTA 6.27 327 iPnd 49 52.70 -0.2  
 i 51 05.50  
 KHC 7.31 346 ePn 50 05.50 -1.9  
 e 50 14.40  
 e 50 34.50  
 eSn 51 25.40  
 e 51 43.00  
 e 52 18.00  
 S.D. = 1.0 on 24 of 25 obs.

JAN 21, 1994 23h 27m 33.11± 0.31s  
 44.560 N ± 2.0km 7.332 E ± 3.4km  
 DEPTH = 9.7 ± 3.6 km  
 NORTHERN ITALY (545)  
 ML 3.3 (GEN).

PZZ 0.17 252 Pd 27 36.83 -0.3  
 BHB 0.29 350 Pc 27 39.80 0.7  
 STV 0.32 181 Pc 27 39.61 -0.1  
 S 27 43.60  
 ENR 0.34 169 Pc 27 39.96 -0.2  
 ROB 0.47 124 Pd 27 42.95 0.3  
 S 27 49.96  
 RRL 0.53 313 P 27 43.81 -0.1  
 S 27 51.04  
 TOUF 0.55 186 Pg 27 44.30 0.0  
 AUTN 0.57 173 Pg 27 44.75 -0.1  
 Sg 27 52.49  
 RSP 0.59 355 Pc 27 45.08 -0.1  
 S 27 53.35  
 SAOF 0.60 164 Pg 27 45.08 -0.1  
 AURF 0.67 180 Pg 27 46.55 0.0  
 Sg 27 55.97  
 SBF 0.70 174 Pg 27 47.09 0.1  
 Sg 27 56.80  
 FIN 0.72 119 Pd 27 47.29 0.0  
 S 27 57.15  
 IMI 0.76 148 Pd 27 48.05 0.0  
 S 27 57.78  
 REVf 0.82 178 Pg 27 49.41 0.4  
 CALN 0.87 202 Pg 27 50.34 0.4  
 PCP 0.87 91 Pd 27 50.44 0.6  
 S 28 02.38  
 LSD 0.91 352 Pc 27 50.56 -0.1  
 ORX 1.17 23 Pd 27 54.00 -1.0  
 RSL 1.23 336 Pg 27 56.52 0.3  
 PGF 2.35 148 Pn 28 11.45 -1.0  
 S.D. = 0.5 on 21 of 21 obs.

% JAN 21, 1994 23h 32m 42.70± 0.55s  
 44.543 N ± 5.3km 7.282 E ± 5.4km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.9 (GEN).

PZZ 0.13 254 P 32 46.12 0.1  
 BHB 0.30 357 P 32 49.27 0.3  
 S 32 53.14  
 ENR 0.33 163 P 32 50.02 0.4  
 S 32 53.92  
 ROB 0.49 120 Pd 32 52.52 -0.1  
 S 32 59.32  
 RRL 0.52 317 P 32 52.90 -0.3  
 S 32 59.38  
 FIN 0.74 116 P 32 56.94 -0.4  
 S 33 06.73  
 IMI 0.77 145 P 32 57.58 -0.2  
 PCP 0.90 90 P 33 00.27 0.2  
 S.D. = 0.4 on 8 of 8 obs.

& JAN 22, 1994 00h 16m 36.26s  
 34.364 N 118.474 W  
 DEPTH = 2.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.8 (GS).

SSK 0.66 103 eP 16 48.99 -0.5  
 ABL 0.78 308 eP 16 50.81 -1.1  
 PEC 1.19 113 eP 16 57.59 -1.6  
 eS 17 14.62  
 ISA 1.30 0 eP 16 59.78 -1.3  
 BCH 1.56 302 eP 17 04.25 -0.9  
 GSC 1.66 55 eP 17 05.85 -0.8  
 PLM 1.68 126 eP 17 04.74 -2.2  
 MTUM 2.98 359 ePg 17 30.92 5.2  
 BONR 3.59 2 ePg 17 42.79 8.5

9 obs. associated  
 ? JAN 22, 1994 00h 19m 53.85±21.01s  
 43.845 N ±85.4km 127.996 W ±143.km  
 DEPTH = 10.0km (geophysicist)  
 OFF COAST OF OREGON (30)

SSOR 4.10 74 P 20 58.96 1.0  
 BMW 4.28 50 P 21 00.07 -0.4  
 RVW 4.38 56 Pd 21 01.89 0.0  
 LVP 4.55 59 P 21 04.53 0.2  
 MTMW 4.65 60 P 21 05.82 0.0  
 ERK 4.70 56 P 21 06.52 -0.1  
 SHW 4.71 58 (P) 21 06.62 -0.2  
 JLK 4.74 59 P 21 07.08 -0.1  
 VBEM 4.75 73 P 21 06.42 -0.9  
 ESD 4.77 58 P 21 07.83 0.3  
 CDFW 4.79 60 P 21 07.78 -0.1  
 TDL 4.80 57 P 21 08.55 0.5  
 GULW 5.00 63 P 21 11.16 0.3  
 ASR 5.09 61 Pd 21 12.12 0.0  
 LON 5.24 54 eP 21 13.81 -0.4  
 REMR 5.26 53 P 21 14.73 0.1  
 GLK 5.27 57 P 21 14.79 0.1  
 RCS 5.35 53 P 21 16.02 0.0  
 WPW 5.37 56 P 21 16.01 -0.1  
 FMW 5.42 53 P 21 16.76 -0.1  
 GSM 5.50 50 P 21 18.00 0.1  
 GL2 5.52 65 P 21 17.40 -0.7  
 RMW 5.65 48 P 21 20.23 0.3  
 HTW 5.88 46 P 21 23.05 -0.1  
 TBM 6.17 55 P 21 27.58 0.3  
 S.D. = 0.4 on 25 of 25 obs.

? JAN 22, 1994 01h 11m 08.39± 6.63s  
 1.934 N ±36.3km 82.936 W ±77.3km  
 DEPTH = 97.9 ± 53.0 km  
 3.5mb (1 obs.)  
 OFF COAST OF ECUADOR (104)

JAMA 3.20 121 P 11 57.52 -0.1  
 GGP 4.82 116 P 12 20.05 -0.4  
 COTA 4.86 109 P 12 21.01 0.0  
 VC1 5.20 119 P 12 26.42 0.7  
 LPAZ 23.27 142 P 16 08.50 -0.4  
 LR 23 04.00  
 LPB 23.48 142 eP 16 11.00 0.3  
 YKA 64.87 344 P 21 39.00 0.0  
 0.8s 0.50nm 3.5mb  
 S.D. = 0.6 on 7 of 7 obs.

JAN 22, 1994 01h 29m 41.92± 0.29s  
 44.551 N ± 1.9km 7.317 E ± 3.1km  
 DEPTH = 10.0 ± 3.5 km  
 NORTHERN ITALY (545)  
 ML 2.6 (GEN).

PZZ 0.16 253 Pd 29 45.46 -0.3  
 S 29 47.48  
 BHB 0.29 352 P 29 48.46 0.4  
 STV 0.31 179 P 29 48.23 -0.1  
 S 29 52.28  
 ENR 0.33 167 Pc 29 48.55 -0.3  
 S 29 52.97  
 ROB 0.47 123 Pc 29 51.71 0.2  
 S 29 58.00  
 RRL 0.53 314 P 29 52.52 -0.2  
 S 29 59.33  
 TOUF 0.54 185 Pg 29 53.05 0.2  
 AUTN 0.56 172 Pg 29 53.57 0.1  
 SAOF 0.59 163 Pg 29 53.53 -0.4  
 RSP 0.60 356 Pd 29 53.75 -0.4  
 AURF 0.66 179 Pg 29 55.13 -0.1  
 MVIF 0.67 190 Pg 29 55.39 0.1  
 Sg 30 04.30  
 SBF 0.69 173 Pg 29 55.76 0.1  
 Sg 30 05.62  
 FIN 0.72 118 P 29 56.02 -0.2  
 S 30 05.74  
 IMI 0.76 147 P 29 56.72 -0.1  
 S 30 07.20  
 REVf 0.81 177 Pg 29 57.76 0.1  
 CALN 0.86 201 Pg 29 59.12 0.6  
 PCP 0.88 90 Pd 29 59.06 0.2  
 S 30 10.39  
 LSD 0.91 353 P 29 59.97 0.4  
 S 30 11.16

ORX 1.18 23 P 30 03.75 -0.3  
 S.D. = 0.3 on 20 of 20 obs.

& JAN 22, 1994 01h 49m 37.85s  
 34.302 N 118.663 W  
 DEPTH = 5.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

ABL 0.72 320 eP 49 50.89 -1.3  
 SSK 0.81 96 eP 49 52.45 -1.7  
 eS 50 05.82  
 PEC 1.31 108 eP 50 00.27 -2.3  
 ISA 1.37 6 eP 50 01.32 -2.2  
 BCH 1.46 307 eP 50 03.88 -1.1  
 PLM 1.77 122 eP 50 08.15 -1.4  
 GSC 1.83 56 eP 50 08.72 -1.5  
 7 obs. associated

& JAN 22, 1994 02h 18m 58.79s  
 34.212 N 118.522 W  
 DEPTH = 20.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK 0.69 90 iPe 19 11.60 -0.5  
 ABL 0.86 318 eP 19 14.03 -1.0  
 PEC 1.17 105 eP 19 18.97 -1.1  
 eS 19 34.65  
 ISA 1.45 2 eP 19 23.92 -0.1  
 eS 19 41.43  
 BCH 1.61 307 eP 19 25.92 -0.5  
 GSC 1.78 52 eP 19 28.48 -0.4  
 MTUM 3.13 359 ePg 19 55.79 7.5  
 TPNV 3.30 33 ePn 19 49.77 -0.8  
 MMPM 3.42 353 ePg 20 00.83 8.5  
 MEMM 3.46 355 ePg 20 02.91 10.2  
 10 obs. associated

? JAN 22, 1994 02h 23m 13.29± 4.69s  
 28.677 N ±13.5km 34.697 E ±32.3km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)

BADA 0.31 120 iPd 23 19.67 0.0  
 eS 23 23.67  
 SRFA 0.50 60 iPe 23 23.33 -0.1  
 HQL 0.67 28 iPe 23 26.53 0.0  
 AYN 1.16 80 iPe 23 35.07 0.1  
 S.D. = 0.2 on 4 of 4 obs.

? JAN 22, 1994 02h 58m 47.86± 4.77s  
 31.606 S ±41.4km 69.561 W ±57.1km  
 DEPTH = 120.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.66 80 ePc 59 06.80 -0.5  
 S 59 22.50  
 ZON 0.76 86 eP 58 55.80 -12.2X  
 eS 00 15.80  
 RTCV 0.91 107 iPe 59 09.50 0.1  
 S 59 27.00  
 RTLL 0.97 74 ePc 59 09.70 -0.3  
 S 59 27.80  
 CFA 1.13 90 ePd 59 12.00 0.5  
 S 59 31.00  
 RTRS 1.43 3 eP 59 15.00 0.2  
 S.D. = 0.5 on 5 of 6 obs.

% JAN 22, 1994 03h 00m 20.48± 2.62s  
 36.664 N ±26.0km 2.997 W ± 7.1km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)

EGUA 0.49 291 iPe 00 30.93 0.6  
 eS 00 37.40  
 ENIJ 0.70 64 iPd 00 34.02 -0.4  
 eS 00 43.00  
 ECOG 0.76 323 iPe 00 34.31 -1.2  
 eS 00 42.20  
 ELOJ 1.04 298 eP 00 40.00 -0.3  
 eS 00 52.50  
 EBAN 1.62 337 eP 00 49.59 0.4  
 eS 01 09.50  
 EVIA 2.01 11 eP 00 55.77 0.9  
 eS 01 18.50  
 S.D. = 1.0 on 6 of 6 obs.



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 & JAN 22, 1994 03h 34m 10.31s  
 34.351 N 118.490 W  
 DEPTH = 1.4km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.1 (PAS), 3.4 (GS).  
 SSK 0.67 102 eP 34 23.22 -0.6  
 ABL 0.78 310 eP 34 25.04 -0.9  
 PEC 1.19 112 ePc 34 31.71 -1.7  
 ISA 1.31 1 eP 34 34.18 -1.2  
 BCH 1.55 303 eP 34 38.91 -0.3  
 GSC 1.68 55 eP 34 40.07 -0.9  
 PLM 1.68 126 eP 34 39.07 -2.0  
 PHAM 2.15 314 eP 34 47.46 -0.4  
 MTUM 3.00 359 ePn 34 59.83 -0.2  
 TPNV 3.17 34 ePn 35 01.18 -1.2  
 MMPM 3.28 353 (Pn) 35 03.13 -1.0  
 GLA 3.32 112 ePn 35 04.15 -0.3  
 MEMM 3.33 354 ePg 35 08.70 4.2  
 BONR 3.60 2 ePg 35 16.48 7.8  
 TNP 3.86 15 ePn 35 13.20 0.9  
 ARN 3.88 321 eP 35 11.76 -0.7  
 ARUT 5.34 49 (Pn) 35 13.61 0.4  
 DUG 7.38 36 ePg 36 28.75 26.8  
 18 obs. associated

? JAN 22, 1994 03h 37m 19.59± 8.14s  
 19.330 N ±55.3km 66.108 W ±19.5km  
 DEPTH = 10.0km (geophysicist)  
 PUERTO RICO REGION ( 90)  
 LPR 1.04 167 P 37 39.40 0.1  
 APR 1.05 214 P 37 40.00 0.6  
 SJG 1.21 182 iP 37 42.20 0.0  
 LRS 1.25 214 P 37 42.20 -0.6  
 CPD 1.30 172 P 37 43.50 -0.1  
 CLLP 1.32 200 P 37 44.00 0.0  
 MGP 1.61 215 P 37 48.10 0.0  
 S.D. = 0.4 on 7 of 7 obs.

& JAN 22, 1994 03h 55m 37.32s  
 34.316 N 118.433 W  
 DEPTH = 6.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.6 (PAS), 2.8 (GS).  
 SSK 0.62 100 eP 55 49.00 -0.8  
 ABL 0.84 310 eP 55 52.42 -1.7  
 PEC 1.14 111 eP 55 57.42 -1.6  
 ISA 1.34 359 eP 56 01.36 -1.2  
 BCH 1.61 303 eP 56 04.74 -1.7  
 PLM 1.62 126 eP 56 04.58 -2.1  
 GSC 1.66 53 eP 56 06.61 -0.6  
 MTUM 3.03 358 ePg 56 32.25 5.4  
 TPNV 3.17 33 (Pn) 56 28.19 -0.7  
 MMPM 3.32 352 ePg 56 36.49 5.3  
 MEMM 3.37 353 ePg 56 38.17 6.7  
 11 obs. associated

JAN 22, 1994 04h 10m 10.76± 0.33s  
 0.809 N ± 5.3km 127.537 E ±10.5km  
 DEPTH = 33.0km (normal)  
 5.0mb ( 17 obs.)  
 HALMAHERA, INDONESIA (267)  
 WB2 21.68 162 iPc 15 00.40 -0.4  
 0.6s 35.50nm 5.0mb  
 IS 18 57.50  
 PMG 22.02 118 eP 15 04.00 -0.2  
 QIS 24.30 152 eP 15 27.70 1.2  
 ASPA 25.10 166 eP 15 34.00 -0.2  
 0.6s 53.90nm 5.3mb  
 Z 23s 0.20um 3.6MsZ  
 es 20 04.10  
 WARB 26.85 182 eP 15 51.00 0.6  
 MRWA 31.83 199 eP 16 34.00 -0.9  
 0.6s 4.00nm 4.5mb  
 KLB 33.53 195 eP 16 49.00 -0.6  
 0.6s 8.00nm 4.8mb  
 MUN 34.33 197 eP 16 56.00 -0.5  
 NWA0 34.93 195 eP 17 01.30 -0.4

0.6s 6.00nm 4.7mb  
 STK 35.13 159 eP 17 03.00 -0.4  
 0.8s 8.50nm 4.7mb  
 TIA 36.53 346 eP 17 14.50 -0.7  
 MAT 36.90 14 eP 17 14.00 -4.3X  
 ADE 37.09 165 iPc 17 31.00 11.0X  
 XAN 37.37 334 P 17 22.00 -0.4  
 1.0s 45.00nm 5.3mb  
 pP 17 27.40 18kmX  
 CD2 37.47 325 P 17 23.80 0.6  
 1.2s 60.00nm 5.3mb  
 TIY 39.27 341 eP 17 38.00 -0.3  
 S 23 29.00  
 sS 23 48.00  
 BJI 40.40 347 Pc 17 47.00 -0.4  
 1.0s 28.00nm 5.0mb  
 LZH 41.42 331 Pd 17 57.00 0.9  
 1.5s 130.00nm 5.4mb  
 TOO 41.64 158 eP 17 59.50 1.8  
 0.8s 12.00nm 4.7mb  
 HHC 42.41 342 Pc 18 04.40 0.4  
 0.8s 27.00nm 5.0mb  
 MDJ 43.66 2 eP 18 13.00 -1.0  
 LSA 44.99 313 P 18 27.70 2.1  
 1.2s 28.00nm 5.0mb  
 GTA 46.01 330 eP 18 33.50 0.4  
 1.2s 25.00nm 5.0mb  
 pP 18 37.40 13kmX  
 PcP 20 09.00  
 GBA 51.18 287 P 19 13.20 -0.1  
 0.9s 6.00nm 4.6mb  
 POO 55.51 292 eP 19 44.50 -0.9  
 WMQ 55.57 326 P 19 45.50 0.0  
 1.2s 48.00nm 5.4mb  
 pP 19 52.60 23kmX  
 YAK 61.08 1 eP 20 22.60 -0.9  
 1.0s 25.00nm 5.3mb  
 MAIO 71.92 308 iPc 21 33.50 0.3  
 S.D. = 0.9 on 26 of 28 obs.

\* JAN 22, 1994 05h 37m 01.12± 0.44s  
 17.692 S ± 7.8km 167.904 E ± 8.4km  
 DEPTH = 33.0km (normal)  
 5.0mb ( 22 obs.) 4.9MsZ ( 3 obs.)  
 VANUATU ISLANDS (186)

PVC 0.39 97 iPd 37 08.90 -1.2  
 DZM 4.57 197 iPd 38 09.70 -0.1  
 IS 39 04.50  
 ARMA 19.50 226 eP 41 30.70 2.0  
 0.7s 12.00nm 4.3mb  
 PMG 21.77 290 eP 41 53.00 1.0  
 CNB 24.08 220 iPd 42 17.00 2.3  
 0.8s 105.00nm 5.4mb  
 BWA 24.10 222 iPd 42 13.90 -0.9  
 i 42 23.00  
 CAN 24.31 220 eP 42 17.50 0.7  
 i 42 26.60  
 STK 27.66 234 eP 42 48.50 0.5  
 0.6s 13.80nm 4.8mb  
 TOO 27.92 220 eP 42 51.20 0.9  
 0.8s 27.00nm 5.0mb  
 WB2 31.81 261 iPd 43 23.40 -1.7  
 0.5s 17.70nm 5.2mb  
 WRA 31.82 261 P 43 23.90 -1.3  
 0.6s 5.60nm 4.6mb  
 ASPA 32.31 254 eP 43 27.90 -1.6  
 0.5s 80.30nm 5.9mb  
 Z 21s 4.40um 5.1MsZ  
 KNA 37.49 267 iPd 44 13.20 -0.6  
 0.8s 176.00nm 6.0mb  
 FORT 38.40 243 eP 44 21.20 -0.1  
 COOL 44.30 244 eP 45 09.50 -0.3  
 0.8s 21.00nm 5.0mb  
 MBL 45.33 258 iPd 45 18.10 -0.1  
 MEEK 46.27 250 iPd 45 25.30 -0.3  
 0.5s 54.00nm 5.8mb  
 KLB 47.25 243 eP 45 32.00 -1.2  
 0.7s 20.00nm 5.2mb  
 NWA0 47.81 241 eP 45 36.80 -0.8  
 0.7s 44.00nm 5.6mb  
 Z 23s 0.90um 4.7MsZ  
 BAL 48.08 245 eP 45 39.00 -0.8  
 0.8s 16.00nm 5.1mb  
 MUN 48.60 243 eP 45 43.00 -0.7  
 MRWA 48.64 246 iPd 45 43.20 -0.9  
 0.7s 38.00nm 5.5mb

MAT 60.80 333 eP 47 10.00 -2.3  
 CN2 72.49 329 eP 48 25.00 -1.4  
 0.5s 8.10nm 5.0mb  
 BJI 74.94 321 eP 48 40.50 -0.2  
 0.8s 4.00nm 4.5mb  
 Z 20s 0.30um 4.6MsZ  
 TIY 75.84 318 eP 48 46.50 0.4  
 Z 18s 0.61um 5.0MsZ  
 S 58 20.00  
 XAN 76.14 313 P 48 47.50 -0.3  
 0.7s 6.60nm 4.7mb  
 CHTO 76.86 295 eP 48 52.90 0.9  
 HHC 78.23 320 eP 49 00.40 1.1  
 CD2 78.29 308 eP 49 02.00 2.2  
 BTO 79.04 319 eP 49 06.30 2.5  
 LZH 80.75 312 eP 49 14.00 0.9  
 2.0s 30.00nm 4.9mb  
 YAK 85.00 343 eP 49 39.50 5.4X  
 1.5s 28.00nm 5.2mb  
 GTA 85.15 314 eP 49 36.00 0.5  
 1.0s 7.00nm 4.8mb  
 pP 49 42.50 20kmX  
 sP 49 46.50  
 SYO 86.08 196 ePc 49 40.20 0.7  
 BALM 87.94 22 (P) 49 50.32 1.7  
 FBA 88.98 17 eP 49 52.70 -0.7  
 0.8s 2.43nm 4.6mb  
 YKA 99.88 27 P 50 43.50 0.2  
 0.6s 0.40nm 4.1mb  
 GEC2 142.54 332 PKP 56 27.00 -5.5X  
 0.5s 0.36nm  
 e 56 31.30  
 e 56 34.90  
 e 56 40.20  
 e 56 48.60  
 WLF 144.87 339 iPKPc 56 35.92 -0.3  
 DOU 145.00 341 PKP 56 35.70 -0.8  
 OGA 145.21 332 ePKP 56 37.00 -0.3  
 0.7s 8.00nm  
 KDS 174.91 179 iPKP 57 09.80 0.7  
 S.D. = 1.2 on 41 of 43 obs.

& JAN 22, 1994 05h 41m 54.79s  
 34.257 N 118.510 W  
 DEPTH = 14.5km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.0 (GS).

SSK 0.68 94 eP 42 07.40 -0.6  
 ABL 0.83 315 eP 42 09.46 -1.2  
 PEC 1.18 108 eP 42 15.02 -1.4  
 es 42 30.94  
 ISA 1.40 1 eP 42 19.21 -0.7  
 BCH 1.59 306 eP 42 21.29 -1.3  
 PLM 1.64 123 eP 42 21.74 -1.7  
 MTUM 3.09 359 ePg 42 51.40 7.3  
 TPNV 3.26 34 ePn 42 45.61 -0.9  
 MMPM 3.37 353 ePg 42 54.97 6.7  
 MEMM 3.42 354 ePg 42 58.04 9.4  
 10 obs. associated

\* JAN 22, 1994 05h 42m 11.65± 2.01s  
 18.536 N ±17.7km 66.250 W ± 6.6km  
 DEPTH = 10.0km (geophysicist)  
 PUERTO RICO REGION ( 90)

LPR 0.43 122 P 42 20.50 0.1  
 SJG 0.43 167 iP 42 21.00 0.5  
 APR 0.46 260 P 42 21.90 0.8  
 CLLP 0.55 214 P 42 23.00 0.2  
 CPD 0.59 147 P 42 23.10 -0.5  
 LRS 0.61 247 P 42 23.60 -0.5  
 S 42 32.10  
 MGP 0.96 237 P 42 29.10 -0.7  
 S.D. = 0.7 on 7 of 7 obs.

\* JAN 22, 1994 06h 15m 26.15± 0.42s  
 62.106 S ± 9.2km 56.121 W ±14.4km  
 DEPTH = 10.0km (geophysicist)  
 5.1mb ( 11 obs.) 5.3MsZ ( 1 obs.)  
 SOUTH SHETLAND ISLANDS (154)

NVL 26.98 137 eP 21 11.00 1.8  
 1.0s 54.00nm 5.2mb  
 e 21 50.00  
 e 33 19.00  
 MOCB 41.35 346 P 23 14.40 0.3



CCH	45.23	346 eP	23 46.00	0.6			eS	23 51.40		OPT	0.21	131 iPc	58 09.35	0.9	
SIV	46.19	353 P	23 51.80	-0.9		ENIJ	0.68	70 iPc	23 46.94	-0.5		eS	58 22.70		
LFB	46.30	344 P	23 55.90	1.9				eS	23 56.00		PDB	0.33	270 ePc	58 09.54	0.8
		LR	29 20.00			ECOG	0.70	320 iPd	23 46.16	-1.6		eS	58 23.11		
LPAZ	46.55	344 P	23 56.30	0.1				eS	23 56.00		INE	0.36	41 eP	58 09.84	0.7
		LR	29 24.00			ELOJ	1.01	294 eP	23 52.76	-0.3		eS	58 23.62		
ARE	46.87	340 eP	23 59.00	0.6				eS	24 05.40		ILIM	0.41	45 eP	58 09.83	-1.0
BLF	61.17	98 e(P)	25 42.50	-0.6		EHUE	1.12	17 eP	23 55.02	0.1		eS	58 24.58		
SLR	65.01	98 eP	26 16.40	7.9X				eS	24 08.00		AUL	0.41	172 ePc	58 10.21	-0.5
	0.8s	18.66nm		5.3mb		ELUQ	1.30	309 eP	23 57.92	-0.1	AUW	0.42	175 eP	58 10.21	-0.5
Z	20s	2.13um		5.3MsZ				eS	24 14.90		AUH	0.43	173 eP	58 10.37	-0.5
LIC	78.54	52 P	27 28.95	-0.1		EBAN	1.55	337 eP	24 02.60	1.0	AUE	0.44	169 eP	58 10.02	-0.8
	0.9s	13.00nm		5.0mb				eS	24 21.50		AUI	0.46	173 eP	58 10.43	-0.5
KIC	78.78	52 Pd	27 30.01	-0.3		EVIA	1.93	12 eP	24 08.00	0.7		eS	58 24.33		
	0.8s	16.00nm		5.1mb				eS	24 31.00		RED	0.74	31 ePd	58 11.82	-1.1
TIC	78.93	52 P	27 31.21	0.0			S.D. = 1.0	on	8 of 8 obs.			eS	58 27.21		
	0.8s	7.00nm		4.7mb							RS2	0.78	30 ePd	58 12.30	-1.0
TOO	79.14	197 eP	27 28.20	-3.9X			JAN 22, 1994 07h 48m 45.29± 0.31s					eS	58 28.09		
	0.8s	17.00nm		5.1mb			40.773 N ± 4.5km		27.493 E ± 2.6km		RSO	0.78	30 ePd	58 12.32	-1.0
CNB	80.76	201 eP	27 41.80	1.0			DEPTH = 10.0km (geophysicist)				RDW	0.78	27 ePd	58 12.30	-1.1
	1.0s	28.00nm		5.2mb			TURKEY			(366)		eS	58 29.35		
LKO	81.40	50 P	27 44.56	0.2			ML 4.0 (THE), 3.5 (ISK).				REF	0.82	31 ePd	58 12.55	-1.1
	1.0s	12.50nm		4.9mb								eS	58 28.45		
KDS	81.95	43 eP	27 46.50	-0.6		EDC	0.51	146 iPg	48 55.00	-0.7	NCT	0.83	21 iPd	58 12.67	-1.0
ASPA	94.15	189 eP	28 45.30	-0.8				iSg	49 01.00			eS	58 28.28		
	1.0s	7.70nm		5.0mb		CTT	0.80	62 iPn	49 01.30	0.4	DFR	0.91	28 iPd	58 13.28	-1.0
WB2	97.81	190 iPc	29 02.30	-0.5		ALN	1.11	277 ePb	49 06.78	0.8		eS	58 29.90		
	0.6s	3.60nm		5.2mb				eSb	49 22.30		HOM	0.97	97 ePc	58 13.81	-0.9
WRA	97.81	190 P	29 02.70	-0.1		ITU	1.20	73 ePg	49 10.00	2.4X		eS	58 30.96		
	0.7s	2.10nm		4.9mb				iSg	49 27.00		XLV	0.98	109 eP	58 13.86	-1.0
GBA	121.42	124 PKP	34 30.00	9.2X		ISK	1.22	76 iPn	49 08.80	0.8	CNPM	1.20	102 ePc	58 15.63	-1.4
GEC2	123.73	48 PKP	34 23.40	-1.1		YLV	1.44	98 iPn	49 11.50	-0.1		eS	58 34.03		
	0.8s	1.88nm				DST	1.45	143 iPn	49 11.90	0.2	SYI	1.32	153 ePc	58 17.30	-0.9
	e		34 31.80			GBZT	1.48	89 ePn	49 11.30	-0.7		eS	58 36.48		
YKA	131.87	328 PKP	34 37.70	-1.8				iSg	49 35.40		BRLK	1.34	90 eP	58 17.50	-1.0
	0.5s	0.40nm				RDO	1.53	285 eP	49 13.20	0.6		eS	58 36.01		
TTA	145.25	308 ePKP	35 02.40	-1.6				eS	49 53.00		BKG	1.43	26 iPd	58 18.73	-0.8
CD2	146.16	148 PKP	35 07.90	1.4		IZI	1.57	105 iPn	49 13.30	0.0		eS	58 39.34		
IMA	146.20	313 ePKP	35 05.90	0.3		HRT	1.65	88 iPn	49 14.00	-0.5	NKA	1.49	49 eP	58 20.70	0.6
	1.0s	10.00nm				PRK	1.79	212 eP	49 17.50	1.1		eS	58 19.96	-0.7	
WHN	147.82	164 ePKP	35 12.50	3.4X				eS	49 41.50		CKT	1.56	24 iPd	58 20.10	-0.9
NJ2	149.76	172 ePKP	35 17.60	5.5X		EYL	2.04	95 ePn	49 20.80	0.7	SPU	1.58	27 ePd	58 20.14	-1.0
XAN	150.34	154 PKPd	35 18.50	5.5X		GPA	2.20	102 ePn	49 22.40	0.0	BGL	1.58	21 ePd	58 20.73	-0.5
LZH	151.09	145 PKPd	35 20.80	6.6X		IZM	2.38	184 ePn	49 24.70	-0.3	CKN	1.59	24 ePd	58 20.59	-0.7
Z	16s	0.39um		5.3MsZ		SRS	2.97	278 ePn	49 32.98	-0.4	CP2	1.61	23 iPd	58 20.90	-0.8
WMQ	152.09	114 PKP	35 22.10	6.8X				eSn	50 09.50		CRP	1.63	24 eP	58 20.56	-1.3
GTA	152.96	136 ePKP	35 24.20	7.4X		PAIG	3.03	255 ePn	49 33.90	-0.3	SVW	1.68	323 eP	58 21.04	-1.2
TIY	154.57	158 ePKP	35 27.00	8.1X		SOH	3.14	272 ePn	49 35.18	-0.6	CGLM	1.70	26 ePd	58 21.80	-0.8
Z	14s	0.71um		5.6MsZ		KNT	3.50	278 ePn	49 40.62	-0.2	NCG	1.76	22 eP	58 22.83	-0.5
	S.D. = 1.0	on 22 of 32 obs.				MLR	4.85	347 eP	49 59.50	-0.6	SLKM	1.81	65 eP	58 22.33	-1.5
							S.D. = 0.6	on 19 of 20 obs.			SEW	2.08	80 eP	58 25.67	-1.4
* JAN 22, 1994 06h 16m 16.34± 1.10s											KDC	2.12	165 eP	58 24.99	-2.6
17.530 S ±19.1km 167.936 E ± 8.8km							JAN 22, 1994 07h 55m 26.95± 0.54s				SUA	2.17	38 ePd	58 27.42	-1.0
DEPTH = 33.0km (normal)							45.986 N ± 5.2km 14.336 E ± 4.3km					eS	58 54.10		
4.8mb ( 7 obs.)							DEPTH = 10.0km (geophysicist)				MPA	2.21	70 eP	58 27.21	-1.4
VANUATU ISLANDS	(186)						NORTHWESTERN BALKAN REGION	(383)			SKT	2.41	23 eP	58 30.12	-1.1
							MD 2.0 (TRI), ML 1.9 (VIE), 1.8					eS	58 58.91		
BKM	0.32	115 iPd	16 24.60	0.2			(LJU). Felt in				PWA	2.59	42 P	58 31.70	-1.8
PVC	0.42	120 iPd	16 25.50	-0.2			the Log area, Slovenia.				PWL	2.80	65 ePc	58 33.85	-2.5
		iS	16 31.70								PLRM	2.82	48 eP	58 34.41	-2.1
DZM	4.73	197 iPd	17 25.90	-1.4		LJU	0.15	67 iPg	55 30.20	-0.2	PMR	2.82	48 eP	58 34.44	-2.1
		iS	18 19.90				0.3s	300.00nm			MTU	2.97	84 ePc	58 37.10	-1.5
CNB	24.22	219 eP	21 33.70	2.4				eSg	55 32.40		KNK	2.99	55 ePd	58 36.18	-2.6
	0.8s	22.00nm		4.8mb		CEY	0.26	166 ePg	55 32.80	0.4	GHO	3.01	47 eP	58 36.98	-2.2
STK	27.78	234 eP	22 05.40	1.1			0.3s	60.00nm			CUT	3.07	30 eP	58 38.30	-1.4
WB2	31.87	260 iPd	22 40.10	-0.8				eSg	55 37.00		CFI	3.18	61 eP	58 38.31	-2.9
	0.6s	3.80nm		4.5mb		VOY	0.31	279 iPg	55 33.60	0.1		3.26	49 eP	58 39.51	-2.8
WRA	31.88	260 P	22 40.70	-0.3				eSg	55 38.70		TMT	3.37	340 P	58 42.70	-1.1
	0.9s	1.40nm		3.8mb		TRI	0.49	235 ePg	55 36.70	-0.1	HIN	3.58	77 eP	58 44.63	-1.9
ASPA	32.38	253 eP	22 44.70	-0.7				eSg	55 44.60		FID	3.65	72 eP	58 45.28	-2.2
	0.4s	14.80nm		5.2mb		RIY	0.64	177 iPg	55 39.40	-0.4	VLZ	3.81	66 eP	58 47.55	-2.1
MBL	45.40	257 eP	24 33.50	-0.4				eSg	55 50.60			eS	59 30.72		
MEEK	46.36	250 iPd	24 42.10	0.6		VBY	0.80	126 ePg	55 42.50	-0.1	CVA	3.97	76 eP	58 50.02	-1.7
	0.3s	6.00nm		5.0mb				iSg	55 55.20		TRF	3.99	22 eP	58 50.31	-1.9
NWA0	47.92	241 eP	24 53.00	-0.7		PTJ	1.14	94 iPg	55 48.50	0.2	KLU	4.12	62 ePd	58 51.13	-2.8
	0.7s	9.00nm		4.9mb				iSg	56 04.60		RND	4.26	30 eP	58 53.68	-2.1
Z	23s	0.40um		4.3MsZ		KBA	1.29	328 iPg	55 51.00	0.0	TOA	4.28	54 P	58 53.90	-2.1
MRWA	48.73	246 eP	25 00.00	0.0				iSg	56 07.90		DHY	4.43	39 eP	58 55.56	-2.6
	0.7s	6.00nm		4.7mb				i	56 10.00		TZL	4.56	57 eP	58 57.35	-2.4
	S.D. = 1.1	on 12 of 12 obs.					S.D. = 0.3	on 8 of 8 obs.			BWN	4.80	22 eP	59 01.25	-1.6
% JAN 22, 1994 07h 23m 33.93± 1.85s											PAX	5.02	47 eP	59 03.66	-2.4
36.743 N ±17.4km 3.003 W ± 6.4km						& JAN 22, 1994 07h 57m 51.58s					GLB	5.07	67 eP	59 04.19	-2.5
DEPTH = 10.0km (geophysicist)						59.791 N		153.541 W			CRQM	5.27	75 eP	59 07.98	-1.4
STRAIT OF GIBRALTAR	(385)					DEPTH = 132.5km					WRH	5.35	26 eP	59 07.82	-2.5
						SOUTHERN ALASKA		( 2)			DDM	5.41	39 eP	59 09.01	-2.3
						<AEIC>.					MLY	5.42	13 eP	59 09.58	-1.7
EGUA	0.46	281 iPc	23 43.96	0.7							CCB	5.56	26 eP	59 10.50	-2.7



22d 07h

HDA 5.57 31 eP 59 10.86 -2.4  
 DJE 5.64 38 eP 59 13.47 -0.9  
 BALM 5.69 73 eP 59 13.38 -1.7  
 MDM 5.74 23 eP 59 13.30 -2.4  
 FBA 5.78 25 eP 59 13.21 -3.0  
 IL1 5.88 29 eP 59 14.84 -2.8  
 ILB 5.88 29 eP 59 14.76 -2.9  
 GLM 5.95 26 eP 59 16.01 -2.5  
 CTGM 6.17 74 P 59 20.70 -1.0  
 IM3 6.22 359 eP 59 20.91 -1.3  
 BC3 6.52 55 eP 59 23.82 -2.6  
 BM3 8.62 24 eP 59 49.94 -4.7

80 obs. associated

? JAN 22, 1994 08h 46m 55.42± 3.32s  
 16.412 N ±41.5km 95.075 W ±14.5km  
 DEPTH = 148.2 ± 32.5 km  
 OAXACA, MEXICO ( 60)

XX 1.71 293 iP 47 28.50 0.8  
 SCX 2.36 82 iP 47 35.00 -0.2  
 LVVM 3.56 339 iP 47 50.50 0.0  
 PPM 4.29 308 iP 47 59.75 -1.0  
 UYO 17.69 2 iPc 50 54.40 0.4  
 S.D. = 1.3 on 5 of 5 obs.

& JAN 22, 1994 09h 03m 49.77s  
 34.361 N 118.555 W  
 DEPTH = 4.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.1 (PAS), 3.5 (GS).

SSK 0.73 102 eP 04 03.24 -1.1  
 ABL 0.74 312 eP 04 03.34 -1.1  
 PEC 1.25 112 iPc 04 11.69 -1.8  
 ISA 1.30 3 ePd 04 12.98 -1.5  
 BCH 1.50 304 eP 04 16.48 -1.1  
 PLM 1.73 125 eP 04 18.73 -2.2  
 PHAM 2.11 315 eP 04 25.53 -0.8  
 MTUM 2.99 360 ePn 04 38.76 -0.2  
 TPNV 3.19 35 ePn 04 40.82 -1.0  
 MPM 3.26 353 ePn 04 42.95 -0.1  
 MRCM 3.30 1 ePg 04 50.77 7.3  
 MEMM 3.31 355 (Pn) 04 43.16 -0.2  
 GLA 3.37 112 (Pn) 04 45.86 1.6  
 BONR 3.59 3 ePg 04 55.91 8.3  
 ARN 3.84 322 (P) 04 51.68 0.7  
 TNP 3.87 16 ePg 05 01.93 10.4  
 CMB 3.95 339 eP 04 52.42 -0.1  
 ARUT 5.37 49 (Pn) 05 12.64 -0.2  
 DUG 7.40 36 ePg 06 08.11 26.7  
 19 obs. associated

& JAN 22, 1994 09h 45m 46.46s  
 34.275 N 118.458 W  
 DEPTH = 8.3km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS), 2.6 (GS).

SSK 0.64 96 eP 45 58.18 -1.1  
 ABL 0.85 313 eP 46 01.14 -2.1  
 PEC 1.14 109 eP 46 06.73 -1.3  
 ISA 1.39 359 eP 46 10.72 -1.4  
 PLM 1.62 124 eP 46 13.34 -2.1  
 BCH 1.62 305 eP 46 15.03 -0.4  
 TPNV 3.22 33 ePg 46 36.96 -1.4  
 MEMM 3.41 354 ePg 46 49.88 9.0  
 BONR 3.67 2 ePg 46 56.66 11.6  
 9 obs. associated

& JAN 22, 1994 09h 55m 03.68s  
 61.272 N 146.638 W  
 DEPTH = 27.9km  
 SOUTHERN ALASKA ( 2)  
 <AEIC>. ML 3.2 (AEIC), 3.4 (PMR).

VLZ 0.20 133 iPd 55 09.38 -0.3  
 VZW 0.22 169 iPd 55 09.60 -0.4  
 KLU 0.41 57 iPd 55 11.66 -1.0

FID 0.53 172 iPd 55 13.64 -0.9  
 CFI 0.55 261 iPc 55 14.01 -0.8  
 CVA 0.85 149 iPc 55 18.45 -1.2  
 TOA 0.86 15 P 55 18.70 -1.2  
 HIN 0.88 176 iPc 55 18.84 -1.3  
 KNK 0.89 280 iPc 55 18.98 -1.2  
 PWL 0.92 244 ePc 55 19.22 -1.5  
 TZL 0.97 36 ePd 55 20.35 -1.0  
 SML 0.97 304 iPc 55 19.76 -1.7  
 GHO 1.21 296 iPc 55 23.51 -1.3  
 PLRM 1.24 286 P 55 23.98 -1.2  
 PMR 1.24 286 iPc 55 23.71 -1.5  
 GLB 1.37 82 iPc 55 25.52 -1.7  
 MTU 1.38 202 eP 55 26.61 -0.6  
 PMS 1.41 270 iPc 55 26.80 -0.9  
 MPA 1.55 241 eP 55 28.61 -1.0  
 PWA 1.60 285 P 55 29.60 -0.8  
 CRQM 1.78 105 ePc 55 31.58 -1.6

PAX 1.79 17 eP 55 32.07 -1.2  
 SEW 1.81 231 eP 55 32.72 -0.7  
 DHY 1.84 350 ePc 55 32.89 -1.2  
 MID 1.86 175 eP 55 32.76 -1.3  
 SLKM 1.91 248 eP 55 33.73 -1.2  
 TGL 1.93 104 eP 55 33.25 -2.0  
 SUA 1.99 277 ePc 55 34.84 -1.3  
 CUT 2.06 305 ePc 55 36.60 -0.5  
 BALM 2.10 95 ePc 55 35.62 -2.1  
 SNH 2.16 119 eP 55 38.64 0.0  
 HUR 2.22 322 eP 55 39.13 -0.2  
 NKA 2.30 259 eP 55 40.84 0.4  
 CYK 2.37 118 eP 55 42.14 0.8  
 RND 2.38 335 eP 55 41.32 -0.3  
 SKT 2.44 289 eP 55 40.80 -1.7  
 DDM 2.55 8 eP 55 43.55 -0.6  
 CGLM 2.59 273 eP 55 43.31 -1.4  
 CTGM 2.59 94 eP 55 42.90 -1.9  
 SPU 2.62 270 eP 55 43.25 -1.9  
 NCG 2.66 275 eP 55 44.35 -1.4  
 CRP 2.67 272 eP 55 43.78 -2.0  
 TMW 2.67 38 eP 55 44.79 -1.0  
 MCK 2.69 338 eP 55 45.73 -0.3  
 CKT 2.69 271 eP 55 44.33 -1.8  
 CP2 2.71 272 eP 55 44.80 -1.6  
 BKG 2.73 268 eP 55 44.89 -1.8  
 TRF 2.77 324 eP 55 46.15 -1.1  
 BGL 2.78 272 eP 55 46.54 -0.8  
 DJE 2.80 9 eP 55 46.27 -1.3  
 CNPM 2.88 235 eP 55 47.21 -1.4  
 BC3 2.90 50 eP 55 47.66 -1.4  
 DFR 3.03 260 eP 55 48.85 -2.1  
 REF 3.07 258 eP 55 49.42 -2.1

RS2 3.10 258 eP 55 50.29 -1.8  
 RDW 3.12 258 eP 55 50.32 -2.0  
 RED 3.12 257 eP 55 50.02 -2.2  
 HDA 3.15 358 eP 55 50.86 -1.7  
 BWN 3.19 337 eP 55 52.69 -0.4  
 WRH 3.28 349 eP 55 52.64 -1.7  
 ILIM 3.33 252 eP 55 52.80 -2.4  
 CCB 3.43 352 eP 55 54.14 -2.4  
 NEA 3.50 342 eP 55 55.18 -2.4  
 IL1 3.52 358 eP 55 54.75 -3.0  
 ILB 3.52 358 eP 55 54.73 -3.0  
 FBA 3.68 352 eP 55 57.41 -2.6  
 MLY 4.21 336 eP 56 06.52 -1.1  
 TTA 4.71 295 eP 56 11.54 -3.2  
 IMA 5.74 330 eP 56 27.84 -1.5  
 BM3 6.24 7 eP 56 32.45 -3.8  
 70 obs. associated

JAN 22, 1994 09h 58m 24.74± 0.51s  
 44.557 N ± 3.3km 7.330 E ± 4.9km  
 DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 2.4 (GEN).  
 PZZ 0.17 252 P 58 28.18 -0.2  
 S 58 29.91  
 BHB 0.29 351 P 58 31.10 0.5  
 S 58 34.53  
 STV 0.31 181 P 58 31.13 0.1  
 S 58 34.90  
 ENR 0.34 169 P 58 31.54 0.0  
 S 58 35.92  
 RRL 0.53 313 P 58 34.95 -0.5  
 S 58 42.83  
 TOUF 0.55 186 Pg 58 35.82 0.1  
 AUTN 0.57 173 Pg 58 36.09 0.0  
 Sg 58 43.47  
 SAOF 0.59 164 Pg 58 36.70 0.1  
 Sg 58 44.43  
 AURF 0.67 180 Pg 58 38.00 -0.1  
 MVIF 0.67 191 Pg 58 38.25 0.0  
 Sg 58 47.47  
 FIN 0.72 119 P 58 38.79 -0.3  
 S 58 48.64  
 CALN 0.86 202 Pg 58 42.28 0.3  
 S.D. = 0.3 on 12 of 12 obs.

& JAN 22, 1994 10h 07m 39.54s  
 63.522 N 150.664 W  
 DEPTH = 15.6km  
 CENTRAL ALASKA ( 1)  
 <AEIC>. ML 2.9 (AEIC), 3.3 (PMR).

TRF 0.18 113 iP 07 44.09 -0.2  
 HUR 0.72 139 iP 07 53.10 -0.1  
 MCK 0.80 74 eP 07 54.87 0.2  
 RND 0.82 97 eP 07 55.11 0.1  
 es 08 06.60  
 BWN 0.84 39 eP 07 56.37 1.1  
 CUT 1.14 171 eP 08 00.25 -0.1  
 NEA 1.27 33 eP 08 01.51 -1.0  
 es 08 20.04  
 WRH 1.48 49 eP 08 04.98 -0.6  
 S 08 26.25  
 MLY 1.52 359 eP 08 05.18 -0.9  
 es 08 26.35  
 DHY 1.55 105 eP 08 07.74 1.0  
 es 08 29.09  
 SKT 1.60 195 eP 08 07.04 -0.2  
 es 08 28.86  
 CCB 1.69 47 eP 08 07.48 -1.1  
 MDM 1.79 35 eP 08 08.89 -1.2  
 HDA 1.86 60 eP 08 10.38 -0.7  
 FBA 1.87 41 eP 08 09.83 -1.3  
 es 08 37.42  
 PWA 1.91 169 P 08 11.60 -0.2  
 GHO 1.93 155 eP 08 12.20 0.0  
 SML 2.03 147 eP 08 13.48 -0.1  
 GLM 2.05 43 eP 08 12.59 -1.3  
 PLRM 2.06 159 eP 08 14.27 0.3  
 PMR 2.06 159 eP 08 13.77 -0.2  
 SUA 2.07 181 eP 08 13.91 -0.2  
 ILB 2.08 51 eP 08 13.10 -1.1  
 IL1 2.08 51 eP 08 13.07 -1.1  
 NCG 2.24 199 eP 08 15.81 -0.8  
 DJE 2.27 75 eP 08 16.27 -0.7  
 PMS 2.34 167 eP 08 18.70 0.7  
 KNK 2.35 153 eP 08 18.30 0.1  
 CRP 2.37 198 eP 08 17.78 -0.7  
 CP2 2.38 199 eP 08 18.17 -0.6  
 BGL 2.41 200 eP 08 18.99 0.0  
 CKN 2.41 198 eP 08 18.86 -0.2  
 PAX 2.41 101 eP 08 19.70 0.6  
 SPU 2.44 196 eP 08 18.94 -0.4  
 CKT 2.44 198 eP 08 19.26 -0.2  
 TTA 2.49 259 (P) 08 20.65 0.5  
 TOA 2.51 123 P 08 21.20 0.9  
 BKG 2.57 198 eP 08 20.84 -0.5  
 CFI 2.71 149 eP 08 23.97 0.8  
 NKA 2.80 186 eP 08 25.99 1.5  
 IM3 2.80 333 eP 08 23.04 -1.5  
 TZL 2.83 119 eP 08 26.61 1.7  
 IMA 2.86 335 eP 08 23.38 -2.1  
 PWL 2.89 157 eP 08 26.66 0.9  
 KLU 3.00 131 eP 08 28.26 0.9  
 SLKM 3.03 176 eP 08 27.83 0.1  
 DFR 3.09 199 eP 08 28.57 -0.1



MPA 3.11 168 eP 08 28.45 -0.3  
 VLZ 3.14 138 eP 08 30.06 0.9  
 RS2 3.23 199 eP 08 30.70 0.0  
 RED 3.27 199 eP 08 31.52 0.3  
 FID 3.41 143 eP 08 33.27 0.2  
 HIN 3.70 146 eP 08 38.00 0.7  
 CVA 3.78 140 eP 08 37.09 -1.2  
 GLB 3.80 120 eP 08 39.12 0.3  
 CNPM 4.02 184 eP 08 41.64 -0.1  
 BALM 4.62 119 eP 08 50.82 0.4  
 BM3 4.66 30 eP 08 47.94 -2.9

58 obs. associated

& JAN 22, 1994 10h 36m 38.21s  
 60.244 N 152.670 W

DEPTH = 105.1km

2.7mb ( 1 obs.)

SOUTHERN ALASKA

<AEIC>.

RED 0.18 344 eP 36 52.54 0.8  
 ILIM 0.22 221 eP 36 52.68 0.9  
 RSO 0.22 349 eP 36 52.87 0.9  
 RS2 0.22 349 eP 36 52.79 0.8  
 REF 0.25 356 eP 36 52.94 0.9  
 RDW 0.25 344 eP 36 52.86 0.8  
 INE 0.27 227 eP 36 52.91 0.8

NCT 0.34 338 eP 36 53.42 -0.5  
 DFR 0.35 359 eP 36 53.12 -0.9

OPT 0.66 206 eP 36 55.37 -0.6  
 HOM 0.78 138 eP 36 56.68 -0.4

BKG 0.85 13 iP 36 57.08 -0.8  
 NKA 0.87 54 eP 36 58.83 0.9

PDB 0.89 240 eP 36 57.43 -0.7  
 AUL 0.95 204 eP 36 58.47 -0.3

AUW 0.97 205 eP 36 58.33 -0.6  
 CKL 0.97 10 eP 36 58.41 -0.7

CKT 0.99 13 eP 36 58.34 -0.9  
 SPU 0.99 18 iP 36 58.36 -0.9

CNPM 1.02 134 eP 36 58.62 -0.9  
 CP2 1.05 11 ePd 36 59.11 -0.9

CRP 1.06 14 eP 36 58.80 -1.3  
 CGLM 1.12 17 eP 36 59.82 -0.9

NCG 1.19 12 eP 37 00.56 -1.0  
 SLKM 1.25 77 eP 37 00.80 -1.3

SUA 1.55 37 eP 37 05.01 -0.8  
 SEW 1.62 94 eP 37 04.77 -1.7

SYI 1.65 175 eP 37 05.91 -1.0  
 MPA 1.66 80 eP 37 06.04 -1.1

SVW 1.69 302 P 37 05.90 -1.7  
 SKT 1.83 17 eP 37 07.97 -1.3

PWA 1.96 43 P 37 09.80 -1.1  
 PLRM 2.20 50 eP 37 12.09 -1.9

PMR 2.20 50 eP 37 10.84 -3.2  
 PWL 2.23 72 eP 37 12.85 -1.7

KNK 2.37 59 eP 37 14.02 -2.4  
 GH0 2.38 48 eP 37 14.46 -2.2

CUT 2.46 27 eP 37 16.33 -1.2  
 KDC 2.51 178 eP 37 13.98 -4.1

MTU 2.53 94 eP 37 16.29 -2.1  
 CFI 2.59 67 eP 37 16.73 -2.5

SML 2.63 51 eP 37 17.55 -2.3  
 HIN 3.07 84 eP 37 24.23 -1.6

FID 3.11 78 eP 37 23.89 -2.4  
 VLZ 3.24 71 eP 37 27.02 -1.0

TRF 3.41 18 eP 37 28.91 -1.7  
 KLU 3.53 66 eP 37 29.29 -2.8

RND 3.65 28 eP 37 32.07 -1.7  
 YKA 18.20 66 P 40 41.50 -3.5

0.4s 0.20nm 2.7mb

49 obs. associated

JAN 22, 1994 10h 41m 08.72± 0.70s  
 24.562 S ± 5.4km 67.682 W ± 6.7km

DEPTH = 128.8 ± 7.0 km

4.4mb ( 10 obs.)

CHILE-ARGENTINA BORDER REGION (127)

MOCB 3.80 30 P 42 09.20 2.2  
 RTRS 5.81 195 iPc 42 34.00 0.3

CFA 7.04 184 ePd 42 49.90 -0.7  
 CCH 7.29 12 P 42 53.00 -1.3  
 RTCV 7.31 186 iPc 42 53.00 -1.3

LPB 8.00 357 P 43 05.00 1.0  
 LPAZ 8.24 357 Pc 43 05.60 -1.9

ARE 8.81 335 eP 43 15.00 0.2  
 SIV 10.54 37 P 43 34.70 -2.8X

NNA 15.22 324 eP 44 40.00 1.8  
 RSTA 16.96 94 eP 45 01.30 1.7

VAO2 19.38 90 eP 45 26.30 -0.7  
 CACB 19.48 86 eP 45 27.20 -0.9

PARB 20.20 91 eP 45 35.10 -0.3  
 BDFB 20.47 68 eP 45 37.34 -0.9

CDCB 21.66 83 iPd 45 50.60 0.6  
 JSC 59.92 347 eP 51 01.95 -1.3

PRM 59.97 346 eP 51 02.37 -1.2  
 LHS 60.02 347 eP 51 03.29 -0.7

MYNC 61.32 345 eP 51 11.45 -1.4  
 UYO 63.71 335 iPc 51 27.70 -0.9

LTX 63.78 325 eP 51 27.85 -1.4  
 ELC 64.77 341 eP 51 33.54 -1.9

FVM 65.78 340 eP 51 40.12 -1.7  
 KIC 68.52 72 P 51 59.72 0.2

LKO 69.37 69 P 52 05.15 0.3  
 ALQ 69.66 327 eP 52 06.64 0.2

TUC 69.93 322 eP 52 09.54 1.6  
 PV08 73.61 328 eP 52 30.71 0.8

PV10 73.64 327 eP 52 29.82 -0.2  
 PV09 73.78 327 eP 52 31.63 0.7

SRU 74.95 327 iPd 52 37.81 0.3  
 ARUT 75.46 324 eP 52 41.75 1.4

RSSD 76.03 334 eP 52 43.75 0.2  
 DAU 76.30 327 eP 52 45.86 0.6

DUG 76.92 326 eP 52 49.20 0.7  
 DPW 85.17 329 eP 53 32.54 1.1

RMW 86.65 327 (P) 53 38.33 -0.4  
 YKA 94.44 340 P 54 14.10 -0.5

ASPA 127.69 205 ePKP 00 01.00 0.1  
 WB2 130.84 208 ePKP 00 07.50 0.5

WRA 130.84 208 PKP 00 08.40 1.4  
 GBA 145.37 102 PKP 00 35.00 1.5

S.D. = 1.1 on 42 of 43 obs.

\* JAN 22, 1994 10h 52m 44.24± 2.52s  
 35.366 N ±22.5km 22.927 E ±16.5km

DEPTH = 10.0km (geophysicist)

CENTRAL MEDITERRANEAN SEA (400)

MD 3.8 (ATH). ML 3.5 (THE).

VAM 1.04 87 ePn 53 04.50 0.6  
 VLI 1.35 0 ePn 53 11.00 1.9

NPS 2.20 92 ePn 53 21.00 -0.3  
 VLS 3.38 327 ePn 53 37.50 -0.5

PAIG 4.59 7 ePn 53 54.64 -0.6  
 LIT 4.74 356 ePn 54 00.20 2.7X

KZN 5.02 350 ePn 54 00.50 -0.9  
 SOH 5.46 3 ePn 54 05.20 -2.4

FNA 5.55 348 ePn 54 10.70 1.8  
 GRG 5.60 356 ePn 54 10.50 0.9

SRS 5.77 5 iPn 54 10.20 -1.7  
 KNT 5.79 360 ePn 54 11.05 -1.1

GEC2 15.09 336 P 56 18.10 -1.0  
 0.6s 0.27nm 2.9mb

e 56 22.30  
 e 56 25.30  
 KHC 15.38 336 eP 56 23.50 0.7  
 S.D. = 1.4 on 13 of 14 obs.

JAN 22, 1994 11h 17m 58.03± 0.77s  
 7.796 N ± 4.1km 126.514 E ± 5.5km

DEPTH = 59.2 ± 7.8 km  
 4.8mb ( 21 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)  
 Felt (III RF) at Bislig.

BIP 0.50 329 iPc 18 08.00 -2.0  
 DAV 1.17 233 iPd+ 18 19.50 1.1

CTB 2.37 256 iPc 18 31.00 -4.2X  
 is 18 58.00

MAP 3.54 315 ePd 18 53.00 1.2  
 es 19 25.00

GQP 7.27 327 eP 19 46.00 2.0  
 TSM 9.27 248 ePd 20 13.00 1.4

GUMO 18.93 71 eP 22 16.00 -1.0  
 PJG 18.93 71 eP 22 16.80 -0.2

GUA 18.96 71 eP 22 15.80 -1.6  
 QIZ 19.67 306 eP 22 25.00 -0.1

MTN 21.01 167 eP 22 40.00 1.0  
 KNA 23.50 175 eP 23 04.50 1.0

IPM 25.54 264 ePc 23 22.00 -1.1  
 0.9s 31.60nm 4.8mb

LOE 25.97 294 eP 23 26.00 -1.1  
 PMG 26.74 129 eP 23 34.00 -0.1

KMI 28.49 310 eP 23 50.20 0.0  
 0.8s 10.00nm 4.5mb

WB2 28.62 164 iPc 23 50.00 -1.1  
 0.6s 8.00nm 4.5mb

CHTO 28.93 295 eP 23 53.20 -0.7  
 MBL 29.51 193 eP 23 58.10 -1.0

MAT 30.54 19 eP 24 06.00 -2.0  
 XAN 30.75 331 P 24 06.50 -3.5X

QIS 30.98 156 eP 24 12.70 0.7  
 ASPA 32.09 167 iPd 24 20.90 -0.9

0.4s 12.70nm 5.1mb  
 eS 29 27.30

TIY 32.40 339 eP 24 20.20 -4.2X  
 BJI 33.41 346 eP 24 36.50 3.4X

WARB 33.78 180 iPd 24 36.90 0.5  
 OFUJ 34.00 21 eP 24 38.50 0.3

LZH 34.95 327 eP 24 45.00 -1.6  
 2.0s 20.00nm 4.7mb

MEEK 35.08 192 eP 24 47.00 -0.6  
 HHC 35.51 340 P 24 50.40 -0.8

HOOJ 37.49 21 eP 25 09.50 1.8  
 MRWA 38.17 195 eP 25 12.50 -1.0

0.5s 12.00nm 5.1mb  
 FORT 38.38 178 iPc 25 15.20 -0.1

0.5s 23.00nm 5.3mb  
 KUSJ 38.63 21 eP 25 18.50 1.3

COOL 38.80 187 eP 25 18.00 -0.8  
 0.4s 4.00nm 4.6mb

ASAJ 38.82 19 eP 25 20.70 1.8  
 BAL 39.32 193 eP 25 22.00 -1.2

0.4s 10.00nm 5.0mb  
 GTA 39.56 327 eP 25 24.00 -1.2

1.5s 8.00nm 4.4mb  
 LSA 39.69 308 P 25 28.00 1.2

pP 25 40.00 44kmX  
 KLB 40.05 192 iPc 25 28.40 -0.7

0.4s 8.00nm 4.9mb  
 MUN 40.76 193 eP 25 34.00 -0.9

0.6s 20.00nm 5.1mb  
 NWA0 41.45 192 eP 25 40.80 0.2

0.7s 16.00nm 4.9mb  
 STK 42.00 161 eP 25 45.60 0.5

0.5s 6.80nm 4.7mb  
 RKG 43.08 192 eP 25 55.00 1.1

ADE 44.06 166 iPd 26 03.60 1.6  
 ARMA 45.00 149 eP 26 13.70 4.1X

0.9s 15.00nm 4.8mb  
 TOO 48.49 160 eP 26 32.80 -4.1X

0.7s 9.00nm 4.9mb  
 GBA 48.50 281 Pd 26 36.90 -0.3

0.9s 10.00nm 4.8mb  
 PP 51 13.00

DZM 49.12 128 iPc 26 43.50 1.5  
 WMQ 49.32 323 P 26 43.00 -0.3

1.0s 4.60nm 4.5mb  
 MAIO 66.92 306 eP 28 31.00 -15.7X



22d 11h

SVW 77.35 29 eP 29 49.30 1.4  
 IMA 78.78 24 eP 29 56.60 0.8  
 SLKM 79.94 30 eP 30 01.96 -0.1  
 PMR 80.51 29 eP 30 04.70 -0.2  
 1.1s 13.50nm 4.8mb  
 FBA 81.16 25 eP 30 08.25 -0.1  
 1.0s 2.69nm 4.1mb  
 TOA 81.91 28 eP 30 13.50 1.1  
 YKA 95.90 24 P 31 18.80 -0.5  
 1.0s 1.40nm 4.4mb  
 KIC 129.39 285 PKP 37 07.00 4.4X  
 LPB 163.29 123 ePKP 38 12.00 15.8X  
 LPAZ 163.39 122 (PKP) 38 00.05 3.5X  
 S.D. = 1.1 on 51 of 61 obs.

JAN 22, 1994 12h 28m 44.84± 0.68s  
 39.541 N ± 5.5km 28.213 E ± 6.5km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.1 (ISK).

DST 0.33 79 iPg 28 51.00 -0.6  
 EDC 0.85 342 iPg 29 01.00 -0.2  
 1.0s 29 12.00  
 IZI 1.25 50 iPn 29 08.20 0.0  
 YLV 1.36 41 ePn 29 09.30 -0.5  
 IZM 1.36 213 iPn 29 09.70 -0.2  
 ALT 1.55 108 iPn 29 13.10 0.5  
 KHL 1.59 140 ePn 29 13.20 0.0  
 ISK 1.65 23 ePn 29 14.70 0.7  
 ITU 1.68 21 eP 29 21.00 6.7X  
 EYL 1.81 55 ePn 29 16.70 0.3  
 S.D. = 0.5 on 9 of 10 obs.

% JAN 22, 1994 12h 47m 07.41± 1.92s  
 36.747 N ± 19.6km 2.807 W ± 7.1km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 3.0 (MDD).

ENIJ 0.53 65 iP 47 18.38 0.2  
 eS 47 26.10  
 EGUA 0.62 278 eP 47 19.50 -0.3  
 eS 47 26.50  
 ECOG 0.81 311 eP 47 24.00 0.9  
 eS 47 34.00  
 EHUE 1.08 9 eP 47 27.20 -0.6  
 eS 47 43.70  
 ELOJ 1.15 291 eP 47 28.76 -0.2  
 eS 47 43.80  
 EBAN 1.61 331 eP 47 39.00 3.0X  
 eS 48 00.20  
 EVIA 1.90 7 eP 47 44.30 4.0X  
 eS 48 10.00  
 S.D. = 0.8 on 5 of 7 obs.

\* JAN 22, 1994 12h 50m 12.11± 0.50s  
 0.856 N ± 8.3km 127.517 E ± 19.4km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 9 obs.)  
 HALMAHERA, INDONESIA (267)

MTN 14.08 165 eP 53 30.00 -1.4  
 KNA 16.55 176 eP 54 02.60 -0.8  
 WB2 21.73 162 iPc 55 02.30 -0.4  
 0.8s 31.60nm 4.8mb  
 QIS 24.35 152 eP 55 29.20 0.8  
 ASPA 25.15 166 iPc 55 35.60 -0.5  
 0.8s 61.40nm 5.3mb  
 i 55 39.50  
 eS 59 36.70  
 WARB 26.89 182 eP 55 54.00 1.9  
 MRWA 31.87 199 eP 56 36.50 -0.1  
 0.4s 2.00nm 4.4mb  
 MUN 34.37 197 eP 56 58.00 -0.2  
 STK 35.18 159 eP 57 04.40 -0.8  
 0.8s 5.80nm 4.6mb  
 ADE 37.14 165 eP 57 22.60 0.8  
 XAN 37.32 334 P 57 23.20 -0.1  
 1.0s 8.90nm 4.6mb  
 pP 57 28.50 18kmX  
 sP 57 31.40  
 CD2 37.42 325 P 57 25.00 0.8  
 TIY 39.22 341 eP 57 39.80 0.6  
 Z 15s 0.59um 4.5MsZK  
 BJI 40.35 347 eP 57 46.50 -1.8

1.0s 6.00nm 4.3mb  
 LZH 41.37 331 eP 57 57.50 0.5  
 1.5s 37.00nm 4.9mb  
 sP 58 04.50  
 TOO 41.69 158 eP 58 00.70 1.2  
 0.9s 15.00nm 4.7mb  
 GTA 45.96 330 eP 58 34.20 0.2  
 1.0s 5.00nm 4.4mb  
 pP 58 40.00 19kmX  
 GBA 51.15 287 P 59 14.00 -0.4  
 WMQ 55.52 326 P 59 46.00 -0.5  
 S.D. = 1.0 on 19 of 19 obs.

% JAN 22, 1994 13h 09m 55.43± 0.67s  
 43.072 N ± 6.6km 0.710 W ± 6.4km  
 DEPTH = 10.0km (geophysicist)  
 PYRENEES (378)  
 ML 1.0 (STR).

ATE 0.02 28 Pg 09 57.44 0.1  
 Sg 09 59.76  
 ISSF 0.08 235 Pg 09 58.27 0.3  
 Sg 10 00.85  
 ESCF 0.10 86 Pg 09 58.01 -0.2  
 MADF 0.11 313 Pg 09 58.01 -0.3  
 Sg 10 00.46  
 LHE 0.17 158 Pg 09 59.23 -0.2  
 Sg 10 02.60  
 OGE 0.20 61 Pg 10 00.04 0.2  
 S.D. = 0.3 on 6 of 6 obs.

% JAN 22, 1994 13h 49m 51.84s  
 34.315 N 118.518 W  
 DEPTH = 1.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.9 (PAS), 3.1 (GS).

SSK 0.69 98 iPc 50 04.98 -0.7  
 ABL 0.79 313 eP 50 06.35 -1.2  
 eS 50 19.59  
 PEC 1.20 110 eP 50 13.54 -1.5  
 eS 50 30.29  
 ISA 1.35 2 eP 50 16.22 -1.3  
 BCH 1.55 304 eP 50 19.81 -0.9  
 PLM 1.68 124 eP 50 20.34 -2.2  
 eS 50 44.94  
 TPNV 3.21 34 (Pn) 50 44.75 0.3  
 MEMM 3.36 354 ePg 50 51.27 4.8  
 BONR 3.64 3 (Pn) 50 50.96 0.3  
 TNP 3.90 15 ePg 51 04.95 10.5  
 ARUT 5.38 48 (Pn) 51 15.76 0.5  
 11 obs. associated

\* JAN 22, 1994 14h 36m 17.61± 0.57s  
 2.459 N ± 6.7km 125.577 E ± 24.2km  
 DEPTH = 33.0km (normal)  
 4.4mb ( 4 obs.)

TALAUD ISLANDS, INDONESIA (263)

CTB 4.91 344 eP 37 32.00 1.0  
 eS 38 24.00  
 BIP 5.77 7 ePd 37 42.20 -1.0  
 eS 38 28.00  
 KNA 18.36 170 eP 40 35.20 3.6X  
 WB2 23.87 159 iPc 41 30.10 0.9  
 0.3s 18.20nm 5.1mb  
 iS 45 36.60  
 iScP 48 34.00  
 ASPA 27.20 163 eP 42 00.50 0.0  
 0.6s 8.50nm 4.6mb  
 eS 46 30.30  
 WARB 28.49 178 eP 42 13.00 0.9  
 MEEK 29.70 193 eP 42 22.50 -0.5  
 MRWA 32.81 196 eP 42 50.00 -0.2  
 0.3s 1.00nm 4.2mb  
 FORT 33.14 176 eP 42 52.00 -1.0  
 MUN 35.38 194 eP 43 12.00 -0.4  
 STK 37.38 157 eP 43 29.40 0.2  
 0.7s 3.20nm 4.3mb  
 S.D. = 0.9 on 10 of 11 obs.

% JAN 22, 1994 14h 43m 10.12s  
 34.395 N 118.576 W  
 DEPTH = 8.3km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.6 (PAS), 2.9 (GS).

ABL 0.70 311 ePc 43 22.54 -1.7  
 SSK 0.75 104 eP 43 23.99 -1.2  
 ISA 1.27 4 eP 43 32.70 -1.2  
 PEC 1.28 113 eP 43 33.18 -0.8  
 eS 43 51.39  
 BCH 1.47 303 eP 43 35.16 -1.8  
 PLM 1.76 126 eP 43 39.36 -1.9  
 TPNV 3.17 36 ePn 44 00.17 -1.3  
 MEMM 3.23 354 (Pg) 44 08.01 5.6  
 MEMM 3.28 355 ePg 44 07.83 5.1  
 BONR 3.56 3 ePg 44 15.78 8.8  
 10 obs. associated

? JAN 22, 1994 15h 20m 24.61± 3.79s  
 30.083 S ± 33.9km 69.864 W ± 81.6km  
 DEPTH = 120.0km (geophysicist)  
 CHILE-ARGENTINA BORDER REGION (127)

RTRS 0.36 104 iPc 20 42.00 0.0  
 RTCB 1.67 147 ePd 20 54.50 -0.1  
 S 21 16.70  
 RTLL 1.73 136 ePd 20 55.00 -0.2  
 S 21 18.00  
 CFA 2.06 138 ePc 20 59.60 0.2  
 S 21 25.80  
 RTCV 2.11 148 eP 21 00.00 0.1  
 S.D. = 0.2 on 5 of 5 obs.

JAN 22, 1994 15h 24m 33.32± 0.34s  
 53.339 N ± 5.5km 170.391 W ± 4.7km  
 DEPTH = 172.0km ( 5 depth phases)  
 4.7mb ( 41 obs.)  
 FOX ISLANDS, ALEUTIAN ISLANDS ( 9)

KDC 11.05 59 eP 27 02.92 -4.5X  
 SVW 11.14 40 ePc 27 09.71 1.0  
 ANM 11.55 11 ePc 27 15.78 1.8  
 TTA 12.22 32 ePc 27 23.75 1.1  
 CP2 12.58 44 eP 27 28.37 0.9  
 CRP 12.62 44 eP 27 28.03 0.1  
 SLKM 13.11 49 eP 27 31.86 -2.1  
 PMR 14.05 46 eP 27 44.34 -1.4  
 IMA 15.22 27 eP 28 01.85 1.4  
 1.0s 67.50nm 5.0mb  
 KLU 15.42 48 eP 28 00.08 -2.8  
 TOA 15.54 46 eP 28 03.30 -1.1  
 FBA 16.27 36 eP 28 11.45 -1.7  
 0.8s 32.11nm 4.7mb  
 BALM 16.93 52 eP 28 19.12 -2.2  
 BRW 19.02 14 eP 28 43.76 0.0  
 SIT 20.21 65 eP 28 56.82 0.8  
 0.4s 3.93nm 4.2mb  
 MCW 29.84 79 eP 30 26.37 0.4  
 YKA 30.08 50 P 30 27.50 -0.4  
 0.6s 7.20nm 4.6mb  
 GMW 30.40 81 eP 30 31.82 1.0  
 JCW 30.59 80 P 30 32.89 0.3  
 BMW 30.67 84 (P) 30 34.46 1.2  
 RMW 31.02 81 ePc 30 37.21 0.8  
 FMW 31.36 82 P 30 40.07 0.5  
 LON 31.37 82 eP 30 39.69 0.3  
 RNO 31.73 88 P 30 43.28 0.7  
 ASR 31.81 83 P 30 43.59 0.3  
 SSOR 31.97 86 P 30 45.33 0.6  
 WTV 32.00 79 P 30 44.47 -0.4  
 EBG 32.03 81 P 30 45.64 0.5  
 YAK 32.06 310 eP 30 45.40 0.3  
 1.0s 30.00nm 5.0mb  
 i 31 20.00  
 i 36 58.00  
 SAW 32.32 79 P 30 47.41 -0.3  
 VGB 32.62 83 eP 30 50.93 0.6  
 WAH2 32.70 81 P 30 50.69 -0.2  
 CROR 32.78 84 P 30 52.07 0.3  
 DPW 32.94 78 iPd 30 53.51 0.4  
 JBO 33.21 83 P 30 55.24 -0.2  
 NEW 33.38 77 ePd 30 57.11 0.2  
 0.6s 27.38nm 5.1mb  
 LBFM 34.33 90 ePd 31 06.45 1.2  
 NTYM 35.72 95 eP 31 17.28 0.6  
 COE 37.05 96 eP 31 28.82 0.9  
 CMB 37.31 94 eP 31 30.81 0.7  
 1.0s 5.32nm 4.2mb  
 MCMT 37.70 79 iPc 31 33.80 0.2  
 MEMM 38.42 93 eP 31 41.08 1.8  
 BONR 38.61 92 ePd 31 42.51 1.2  
 HHAI 38.85 81 eP 31 44.15 1.1



TNP	39.18	91 eP	31 46.62	0.7	WLF	77.33	2 iPc	36 11.30	1.6	VLO	1.54	327 ePn	33 17.00	0.4
	0.7s	3.81nm		4.2mb	SPC	77.45	353 eP	36 11.00	0.3	FNA	1.71	20 ePb	33 19.62	0.6
BCH	39.40	97 eP	31 48.58	1.0	KHC	77.85	357 eP	36 13.60	0.9			eSb	33 42.70	
HVU	39.52	83 eP	31 49.12	0.6		1.0s	12.50nm		4.6mb	LIT	1.72	57 ePb	33 18.94	-0.3
ABL	40.14	96 eP	31 54.62	0.8			e	36 55.50				eSb	33 42.78	
DUG	40.47	85 eP	31 57.20	0.8			e	37 16.50		TIR	2.23	346 ePn	33 28.00	1.3
	0.4s	1.62nm		4.0mb	GEC2	78.13	357 P	36 14.60	0.3	GRG	2.25	37 ePn	33 27.06	0.2
TPNV	40.50	91 iPc	31 57.74	1.1		0.6s	3.48nm		4.2mb			eSn	33 56.00	
	0.6s	12.19nm		4.7mb			e	36 19.20		PAIG	2.49	72 ePn	33 29.78	-0.6
BW06	40.83	80 ePc	31 59.62	0.3			e	36 56.40		KNT	2.65	41 ePn	33 32.18	-0.4
	0.6s	28.73nm		5.0mb	ZST	78.64	355 iP	36 17.80	0.9	SOH	2.67	51 ePn	33 33.34	0.3
DAU	41.27	84 eP	32 03.69	0.6			ePp	37 00.60	175km	SRS	3.00	49 ePn	33 37.10	-0.4
SSK	41.49	96 (P)	32 05.95	1.1	WTTA	79.76	359 iPc	36 24.10	0.9		S.D. = 1.0	on 16 of 17 obs.		
ARUT	41.64	88 eP	32 06.43	0.5		0.8s	10.50nm		4.6mb					
EMUT	41.90	84 eP	32 08.47	0.2			iPp	37 06.20	171km	? JAN 22, 1994	16h 35m 46.14± 2.83			
MSU	41.92	86 eP	32 08.74	0.3	SQTA	79.81	359 iPc	36 24.20	0.8		19.723 N ±22.2km	64.471 W ±44.2km		
SRU	42.53	85 eP	32 13.59	0.4		0.9s	16.30nm		4.8mb		DEPTH = 10.0km	(geophysicist)		
PLM	42.59	96 ePd	32 14.29	0.5			iPp	37 06.40	171km		3.8mb ( 1 obs.)			
RSSD	43.25	74 ePc	32 18.59	-0.5	KBA	79.91	357 iPd	36 25.50	1.5	VIRGIN ISLANDS			( 91)	
	0.4s	5.35nm		4.5mb		0.7s	16.70nm		4.9mb	LPR	1.93	223 P	36 19.00	-0.4
PV09	43.75	84 eP	32 23.06	-0.2			iPp	37 07.20	169km	CPD	2.16	219 P	36 23.00	0.3
PV10	43.89	84 eP	32 24.53	0.2	PTJ	80.99	356 eP	36 29.70	0.2	SJG	2.26	225 iP	36 26.60	2.5X
PV08	43.99	84 eP	32 25.04	-0.2	CTA	82.15	221 P	36 34.79	-0.9	CLLP	2.58	231 P	36 28.80	0.2
GOL	45.21	80 eP	32 35.25	0.5	WB2	87.12	231 iPd	36 58.80	-1.7	LRS	2.66	238 (P)	36 30.00	0.2
	0.7s	23.92nm		4.8mb		0.8s	6.20nm		4.6mb	MGP	3.01	236 P	36 34.50	-0.2
GLD	45.27	80 eP	32 35.95	0.8	WRA	87.13	231 P	36 59.00	-1.5	YKA	54.73	334 P	45 17.70	0.0
	1.0s	17.56nm		4.6mb		0.6s	2.80nm		4.3mb		0.6s	0.60nm		3.8mb
TUC	46.95	92 eP	32 49.47	1.1	ASPA	90.55	229 eP	37 15.20	-1.4		S.D. = 0.3	on 6 of 7 obs.		
	0.8s	8.01nm		4.3mb		0.8s	9.80nm		4.9mb					
ALQ	47.72	86 eP	32 54.44	0.0			i	37 54.00						
	0.6s	1.80nm		3.8mb			i	38 08.90		* JAN 22, 1994	20h 20m 49.45± 1.76s			
DAG	48.91	8 iPd	33 02.80	0.0										



22d 23h

34.314 N 118.411 W  
 DEPTH = 5.2km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.2 (PAS), 3.8 (GS).

SSK	0.60	100	eP	15	06.07	-0.9
ABL	0.86	309	eP	15	10.31	-1.7
PEC	1.12	112	ePc	15	14.82	-1.5
			eS	15	30.24	
ISA	1.35	358	eP	15	18.76	-1.5
PLM	1.61	126	ePc	15	22.00	-2.1
BCH	1.63	303	eP	15	22.83	-1.5
			eS	15	44.65	
GSC	1.65	53	eP	15	23.50	-1.1
PHAM	2.23	314	eP	15	30.50	-2.5
MTUM	3.04	358	(Pn)	15	42.22	-2.4
TPNV	3.16	33	ePn	15	44.66	-1.7
GLA	3.24	112	(Pn)	15	45.73	-1.7
			ePg	15	57.57	
MMPM	3.33	352	(Pn)	15	46.63	-2.3
			ePg	15	54.33	
MRCM	3.35	359	ePn	15	48.06	-1.1
			ePg	15	55.71	
MEMM	3.37	353	ePn	15	45.86	-3.3
			ePg	15	55.64	
SAO	3.48	316	ePn	15	47.45	-3.3
BONR	3.63	1	ePn	15	51.91	-1.3
			ePg	16	01.30	
TNP	3.88	14	(Pn)	15	55.79	-0.9
			ePg	16	06.23	
ARN	3.95	321	ePn	15	54.15	-3.3
CMB	4.04	337	ePn	15	57.83	-0.9
ARUT	5.31	48	(Pn)	16	15.06	-1.9
ORV	5.79	336	(Pn)	16	20.74	-2.7
MSU	6.54	48	(Pn)	16	33.79	-0.6
DAU	8.33	41	P	16	57.60	-1.9

23 obs. associated

& JAN 22, 1994 23h 36m 24.06s  
 34.255 N 118.458 W  
 DEPTH = 10.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

SSK	0.64	94	eP	36	35.81	-1.1
ABL	0.87	314	eP	36	39.07	-1.8
PEC	1.14	108	eP	36	43.98	-1.4
			eS	36	59.01	
ISA	1.41	359	eP	36	48.50	-1.3
PLM	1.60	124	eP	36	50.97	-1.7
BCH	1.63	305	eP	36	50.70	-2.3
GSC	1.72	52	eP	36	53.15	-1.1
MTUM	3.09	358	ePn	37	13.54	-0.5
TPNV	3.23	33	ePn	37	14.83	-1.2
MMPM	3.38	352	(Pn)	37	16.66	-1.6
MEMM	3.43	354	(Pn)	37	17.48	-1.1
			ePg	37	26.00	
BONR	3.69	2	ePg	37	31.31	8.6
ARUT	5.38	48	(Pn)	37	47.34	0.8
CTB	107.92	292	ePKP	54	48.00	-6.0

14 obs. associated

JAN 22, 1994 23h 52m 59.46± 0.33s  
 0.998 N ± 4.8km 127.770 E ± 9.7km  
 DEPTH = 33.0km (normal)  
 4.9mb ( 19 obs.)  
 HALMAHERA, INDONESIA (267)

DAV	6.43	340	eP	54	30.00	-4.4X
TSM	10.41	289	ePc	55	30.50	0.8
MTN	14.15	166	eP	56	18.50	-1.3
KNA	16.67	177	eP	56	51.00	-1.3
WB2	21.79	163	iPd	57	50.10	-0.5
			0.7s	66.20nm	5.2mb	
MBL	23.35	199	eP	58	06.00	0.1
QIS	24.36	152	eP	58	17.10	1.3
ASPA	25.23	167	iPd	58	24.50	0.4
			1.1s	82.60nm	5.2mb	
			eS	02	50.90	
			i	08	29.70	
WARB	27.04	182	eP	58	42.00	1.2
LOE	30.36	304	eP	59	10.00	-0.8
NJ2	32.01	346	eP	59	26.00	0.9
MRWA	32.09	200	eP	59	25.00	-0.8
			0.6s	6.00nm	4.7mb	
GYA	32.45	323	P	59	29.80	0.6
			1.0s	11.00nm	4.7mb	

MUN	34.58	197	eP	59	36.20	22kmX
NWAO	35.18	195	eP	59	47.00	-0.4
			0.7s	6.00nm	4.6mb	
STK	35.23	159	eP	59	52.70	-0.2
			0.9s	10.30nm	4.8mb	
ADE	37.21	165	iPd	00	10.70	1.0
XAN	37.31	334	P	00	15.00	4.5X
			1.0s	22.00nm	5.0mb	
			pP	00	18.70	12kmX
CD2	37.45	325	iPc	00	12.20	0.4
			1.0s	22.00nm	5.0mb	
ARMA	38.63	146	eP	00	22.80	1.0
			0.7s	8.00nm	4.6mb	
TIY	39.17	341	eP	00	25.00	-1.1
Z	18s	0.73um			4.6Msz	
BJI	40.27	346	eP	00	33.50	-1.5
			1.2s	24.00nm	4.8mb	
Z	20s	0.60um			4.4Msz	
SNY	40.82	355	Pd	00	37.80	-1.7
			1.1s	27.00nm	4.9mb	
LZH	41.37	330	iPd	00	45.20	0.8
			1.5s	80.00nm	5.2mb	
Z	20s	0.35um			4.2Msz	
			pP	00	50.50	18kmX
TOO	41.73	159	eP	00	50.00	2.8X
			0.9s	22.00nm	4.9mb	
HHC	42.30	342	P	00	51.60	-0.3
			1.0s	9.00nm	4.5mb	
CN2	42.67	358	eP	00	55.00	0.3
MDJ	43.46	2	eP	01	02.80	1.7
GTA	45.96	330	eP	01	21.20	-0.2
			1.2s	19.00nm	4.9mb	
			pP	01	30.00	29kmX
			sP	01	33.50	
HYB	51.05	292	eP	02	01.00	-0.1
			1.0s	40.00nm	5.3mb	
GBA	51.35	287	P	02	03.70	0.4
			0.6s	4.00nm	4.6mb	
WMQ	55.55	326	P	02	33.40	-0.7
			1.0s	31.00nm	5.3mb	
			pP	02	41.80	27kmX
KSH	60.67	316	P	03	11.00	0.9
			1.0s	20.00nm	5.2mb	
YAK	60.88	1	eP	03	10.00	-0.9
MAIO	71.99	308	iPd	04	22.00	-0.3
LPB	158.03	135	PKP	13	11.00	15.4X
LPZ	158.17	135	PKP	13	09.30	13.3X

S.D. = 0.9 on 32 of 37 obs.

? JAN 23, 1994 00h 03m 21.84± 3.54s  
 0.877 N ± 28.4km 125.998 E ± 37.5km  
 DEPTH = 102.0 ± 53.8 km  
 4.4mb ( 4 obs.)  
 NORTHERN MOLUCCA SEA (266)

CTB	6.53	344	ePc	04	57.00	0.0
WB2	22.25	159	iPc	08	10.60	-0.8
			0.5s	15.70nm	4.6mb	
ASPA	25.58	163	iPd	08	43.10	-0.1
			0.4s	12.20nm	4.7mb	
WARB	26.91	179	eP	08	57.10	1.8
MRWA	31.42	197	iPd	09	35.80	0.3
			0.4s	2.00nm	4.2mb	
MUN	33.97	195	eP	09	56.00	-1.6
Z	20s	6.60um			5.4Msz	
N	20s	3.70um				
E	20s	2.90um				
STK	35.77	157	eP	10	13.10	0.2
			0.9s	3.10nm	4.2mb	
HYB	49.45	292	eP	12	04.00	0.1

S.D. = 1.3 on 8 of 8 obs.

% JAN 23, 1994 00h 09m 09.42± 0.71s  
 40.734 N ± 5.3km 22.774 E ± 5.5km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 1.8 (THE).

THE	0.18	125	ePg	09	12.86	-0.2
			eSg	09	15.58	
GRG	0.36	308	ePg	09	16.42	-0.2
			eSg	09	21.90	
KNT	0.44	12	ePg	09	18.54	0.3
			eSg	09	25.78	
SOH	0.45	79	ePg	09	18.66	0.2
LIT	0.67	199	ePg	09	22.98	0.2

SRS 0.73 58 ePg 09 23.70 -0.3  
 eSg 09 34.42  
 S.D. = 0.4 on 6 of 6 obs.

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 \* JAN 23, 1994 00h 20m 43.42± 0.76s  
 60.733 S ± 10.5km 154.360 E ± 19.7km  
 DEPTH = 10.0km (geophysicist)  
 4.6mb ( 7 obs.) 5.1Msz ( 2 obs.)  
 WEST OF MACQUARIE ISLAND (701)  
 Mw 5.6 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 18S, 23C  
 Centroid Location:  
 Origin Time 00:20:54.4 0.5  
 Lat 60.42S 0.06 Lon 153.64E 0.09  
 Dep 15.0 FIX Half-duration 1.3  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 0.14 0.08 Mtt= 1.59 0.07  
 Mff=-1.73 0.11 Mrt= 0.90 0.23  
 Mrf= 0.99 0.32 Mtf=-1.35 0.09  
 Principal Axes:  
 T Val= 2.23 Plg=17 Azm= 15  
 N 0.52 61 253  
 P -2.75 23 112  
 Best Double Couple: Mo=2.5\*10\*\*17  
 NP1: Strikes=152 Dip=61 Slip= -5  
 NP2: 245 85 -151

MCQ	6.72	24	eP	22	21.90	-2.6
CSY	19.97	235	eP	25	12.30	-5.8X
SNZO	23.10	42	P	25	54.00	4.1X
			S	30	18.00	
TOO	23.85	342	eP	25	57.80	0.5
			1.1s	63.00nm	5.1mb	
CNB	25.64	351	eP	26	16.20	1.7
			1.0s	40.00nm	5.1mb	
CAN	25.66	350	eP	26	14.90	0.2
			e	26	25.30	
BWA	26.60	349	eP	26	23.20	-0.2
			i	26	26.10	
ADE	27.69	332	eP	26	34.30	1.0
STK	30.06	338	eP	26	55.90	1.3
			1.0s	5.20nm	4.3mb	
WARB	39.37	319	eP	28	14.00	-0.5
DZM	39.55	18	iPc	28	18.50	2.4
ASPA	39.67	330	iPc	28	16.30	-0.7
			1.5s	13.10nm	4.4mb	
Z	21s	1.80um			4.9Msz	
WB2	43.14	332	iPd	28	44.60	-0.9
			0.7s	3.80nm	4.2mb	
			iPP	30	34.80	
WRA	43.14	332	P	28	44.80	-0.7
			0.9s	3.80nm	4.1mb	
NVL	46.17	196	eP	29	09.00	-0.2
			1.8s	38.00nm	5.1mb	
Z	13s	6.50um			5.8MszX	
N	14s	3.50um				
E	14s	3.00um				
			ePcP	30	40.00	
			ePP	31	02.00	
			ePPP	31	44.00	
			eS	35	58.00	
			e	37	10.00	
			eScS	38	40.00	
			eSS	39	16.00	
			eSSS	40	38.00	
MBL	46.34	313	eP	29	10.20	-0.8
PMG	51.50	351	e(P)	29	46.00	-5.0X
MOCB	92.14	143	P	33	55.30	0.6
LPB	95.82	139	P	34	27.00	15.4X
			Z	18s	1.03um	5.3Msz
			LR	06	04.00	
LPZ	96.04	139	P	34	26.90	14.0X
			LR	01	05.50	
YKA	140.85	47	PKP	40	08.70	-4.9X
			0.9s	0.70nm		
VAY	145.04	259	iPKP	40	20.00	-1.5
			1.0s	30.00nm		
			i	40	30.30	
OHR	145.73	256	ePKP	40	21.00	-1.8
SKO	146.08	258	ePKP	40	24.00	0.7
MLR	146.49	267	ePKP	40	28.00	4.0X
OBV	147.59	288	ePKPc	40	27.00	1.8
			1.5s	100.00nm		
			i	40	30.00	
			i	40	36.00	



23d 00h

i 40 43.00  
e 41 00.00  
KHC 155.06 260 ePKP 41 03.00 26.5X  
e 41 16.00  
S.D. = 1.4 on 19 of 27 obs.

& JAN 23, 1994 00h 30m 45.83s  
34.309 N 118.663 W  
DEPTH = 3.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.5 (PAS), 2.8 (GS).

ABL 0.71 320 eP 30 59.21 -0.8  
SSK 0.81 97 eP 31 00.92 -1.1  
PEC 1.31 108 eP 31 08.97 -1.8  
eS 31 26.60  
ISA 1.36 7 eP 31 10.52 -1.1  
BCH 1.46 307 ePn 31 12.32 -0.9  
PLM 1.78 122 eP 31 15.64 -2.1  
GSC 1.82 57 eP 31 16.89 -1.5  
TPNV 3.29 36 (Pn) 31 38.21 -1.2  
MEMM 3.36 356 (Pn) 31 41.50 1.3  
BONR 3.65 4 ePg 31 52.75 8.1  
10 obs. associated

JAN 23, 1994 01h 04m 57.92± 0.80s  
57.587 N ± 7.6km 143.006 W ± 3.1km  
DEPTH = 10.0km (geophysicist)  
2.8mb (1 obs.)  
GULF OF ALASKA (15)  
ML 2.9 (AEIC).

CYK 2.52 6 eP 05 40.37 0.9  
MID 2.54 318 P 05 40.20 0.4  
SNH 2.60 2 eP 05 41.35 0.6  
eS 06 10.13  
YKU 2.61 40 P 05 41.30 0.4  
CHX 2.67 21 eP 05 42.27 0.5  
PNL 2.81 41 iP 05 43.35 -0.4  
PCA 2.89 28 eP 05 44.83 -0.1  
BCPM 2.95 35 iP 05 45.35 -0.3  
TGL 3.18 2 eP 05 48.93 -0.1  
CVA 3.29 336 eP 05 50.13 -0.3  
eS 06 26.80  
HIN 3.35 329 eP 05 51.39 0.0  
eS 06 30.00  
MTU 3.41 317 eP 05 52.00 -0.2  
BALM 3.48 5 eP 05 53.25 0.0  
eS 06 31.09  
CTGM 3.50 14 eP 05 53.64 0.1  
LTI 3.52 316 P 05 51.90 -1.9  
LTI 3.52 316 eP 05 55.06 1.3  
FID 3.64 332 eP 05 54.46 -1.0  
GLB 3.89 354 eP 05 58.54 -0.5  
VZW 3.93 334 eP 05 58.94 -0.7  
VLZ 3.94 336 eP 06 01.66 2.0  
KLU 4.19 340 eP 06 02.70 -0.6  
eS 06 48.72

SEW 4.19 310 eP 06 03.42 0.2  
SIT 4.20 94 P 06 03.10 -0.2  
PWL 4.27 322 eP 06 03.51 -1.0  
CFI 4.35 328 eP 06 04.91 -0.6  
MPA 4.39 314 eP 06 05.45 -0.6  
BRK 4.66 301 eP 06 10.23 0.3  
CNPM 4.73 298 eP 06 11.34 0.4  
KNK 4.74 326 eP 06 10.91 -0.2  
SLKM 4.74 311 eP 06 10.55 -0.6  
SML 5.02 330 eP 06 14.64 -0.4  
GHO 5.16 327 eP 06 17.77 0.7  
PWA 5.36 322 P 06 21.20 1.3  
SUA 5.53 318 eP 06 21.34 -1.1  
OPT 5.73 295 eP 06 26.04 1.0  
ILIM 5.74 300 eP 06 25.47 0.2  
DFR 5.83 305 eP 06 26.31 -0.2  
SPU 5.86 312 eP 06 27.03 0.1  
BKG 5.88 310 eP 06 27.12 -0.2  
CGLM 5.91 313 eP 06 27.77 0.1  
NCT 5.92 304 eP 06 27.75 -0.1  
CKT 5.93 311 eP 06 27.60 -0.4  
NCG 6.03 313 eP 06 29.42 0.1  
BGL 6.04 312 eP 06 29.82 0.3  
CUT 6.05 326 eP 06 29.98 0.5  
SKT 6.16 319 eP 06 31.03 0.0  
YKA 14.94 59 P 08 34.80 4.3X  
0.6s 0.20nm 2.8mb  
S.D. = 0.7 on 46 of 47 obs.

\* JAN 23, 1994 01h 38m 00.43± 0.97s  
27.386 S ± 7.4km 69.132 W ± 24.6km  
DEPTH = 120.0km (geophysicist)  
NORTHERN CHILE (123)

RTRS 2.79 186 eP 38 45.00 0.4  
RTPR 3.70 142 iPd 38 57.00 0.2  
RTLL 3.97 172 ePd 39 00.00 -0.5  
S 39 43.50  
RTCB 4.10 176 ePd 39 02.00 -0.3  
S 39 47.00  
CFA 4.28 170 ePc 39 04.90 0.2  
S 39 50.00  
LPB 10.84 5 P 40 42.10 8.3X  
LPZ 11.08 5 P 40 37.20 0.0  
ASPA 124.59 206 ePdiff53 27.50 4.6X  
S.D. = 0.5 on 6 of 8 obs.

? JAN 23, 1994 01h 40m 16.06± 0.87s  
1.140 N ± 16.3km 128.082 E ± 34.2km  
DEPTH = 33.0km (normal)  
4.7mb (7 obs.)

HALMAHERA, INDONESIA (267)  
WB2 21.84 164 iPd 45 07.00 -0.7  
1.0s 12.20nm 4.3mb  
ASPA 25.30 167 eP 45 42.20 0.8  
0.8s 34.60nm 5.0mb  
XAN 37.32 333 P 47 27.00 -0.2  
1.0s 8.90nm 4.6mb  
BJI 40.21 346 eP 47 50.50 -0.6  
1.0s 6.00nm 4.3mb  
LZH 41.40 330 eP 48 02.00 0.8  
1.0s 22.00nm 4.8mb  
LSA 45.16 313 P 48 33.30 1.0  
1.0s 9.00nm 4.6mb  
HYB 51.29 291 ePc 49 18.50 -1.0  
WMQ 55.61 325 P 49 51.00 -0.1  
1.0s 12.00nm 4.9mb  
S.D. = 0.9 on 8 of 8 obs.

JAN 23, 1994 01h 58m 39.78± 0.36s  
30.003 N ± 5.2km 95.753 E ± 4.6km  
DEPTH = 33.0km (normal)  
4.6mb (12 obs.)

XIZANG (306)  
ML 4.3 (BJI).

LSA 4.01 267 Pg 59 45.30 4.4X  
SHL 5.59 219 ePn 00 02.00 -1.0  
iSn 01 01.00  
CD2 6.97 81 ePn 00 24.70 2.5X  
KMI 7.88 126 Pd 00 36.20 1.1  
0.6s 20.00nm 5.4mb  
LZH 9.10 46 Pd 00 53.00 1.0  
1.0s 88.00nm 5.9mb X  
GTA 9.96 18 eP 01 04.50 0.7  
1.0s 9.00nm 5.0mb  
GYA 10.25 108 iPd 01 19.50  
0.8s 13.00nm 5.2mb  
S 03 00.00  
CHTO 11.51 165 eP 01 26.00 1.1  
XAN 11.88 67 P 01 29.70 -0.1  
pP 01 35.50  
sP 01 38.50  
NST 14.82 163 eP 02 15.40 6.7X  
WMQ 15.21 337 eP 02 13.50 -0.3  
BTO 15.71 44 eP 02 19.00 -1.3  
TIY 15.83 57 eP 02 21.80 -0.1

Z 20s 0.50um  
N 12s 0.51um  
WHN 16.08 83 eP 02 26.00 1.1  
NDI 16.22 270 ePn 02 27.00 0.2  
HHC 16.80 46 P 02 33.00 -1.1  
1.2s 16.00nm 4.0mb  
KSH 18.76 305 P 03 00.50 2.0  
0.8s 40.00nm 4.7mb  
BJI 19.45 54 eP 03 06.50 0.0  
1.4s 24.00nm 4.3mb  
Z 20s 0.36um 5.3mszX  
HYB 20.09 235 eP 03 12.00 -1.5  
GBA 23.51 230 P 03 49.00 1.3  
MLR 55.65 307 ePd 08 15.50 0.5  
HFS 60.61 325 eP 08 48.80 -0.5  
0.5s 2.00nm 4.5mb  
NB2 61.65 327 P 08 55.90 -0.6

0.6s 5.40nm 4.9mb  
WRA 62.02 138 P 08 58.70 -0.6  
0.7s 0.80nm 4.0mb  
WB2 62.02 138 iPc 08 58.10 -1.3  
0.7s 2.40nm 4.4mb  
ipP 09 16.00 68kmX  
GEC2 63.08 313 P 09 06.00 -0.2  
0.5s 1.40nm 4.3mb  
e 09 08.50  
GRC2 64.55 313 eP 09 15.60 -0.1  
0.9s 4.00nm 4.5mb  
YKA 84.66 14 P 11 21.00 10.0X  
0.6s 0.20nm 3.5mb X  
S.D. = 1.0 on 24 of 28 obs.

& JAN 23, 1994 02h 48m 46.82s  
34.337 N 118.516 W  
DEPTH = 6.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.6 (GS).

SSK 0.69 100 ePd 48 59.51 -1.2  
eS 49 09.69  
ABL 0.78 312 eP 49 01.13 -1.3  
PEC 1.21 111 ePc 49 07.90 -1.8  
eS 49 24.87  
ISA 1.32 2 eP 49 10.36 -1.3  
BCH 1.54 304 ePn 49 13.56 -1.4  
PLM 1.69 125 eP 49 15.08 -2.1  
GSC 1.71 55 eP 49 16.30 -1.0  
PHAM 2.15 315 (P) 49 22.26 -1.4  
MTUM 3.01 359 (Pn) 49 35.79 -0.3  
TPNV 3.19 35 ePn 49 37.57 -1.1  
ePg 49 46.04  
MMPM 3.29 353 ePg 49 46.56 6.3  
GLA 3.33 112 (Pn) 49 39.47 -1.1  
MEMM 3.34 354 ePn 49 40.57 0.0  
BONR 3.61 3 ePn 49 43.53 -1.3  
ePg 49 53.43  
TNP 3.88 15 ePg 49 59.92 11.4  
CMB 3.99 338 (P) 49 48.53 -1.3  
ARUT 5.36 49 (Pn) 50 09.90 0.4  
17 obs. associated

? JAN 23, 1994 02h 51m 22.56± 1.56s  
42.146 N ± 22.1km 85.059 E ± 17.6km  
DEPTH = 33.0km (normal)  
4.0mb (2 obs.)

NORTHERN XINJIANG, CHINA (332)  
ML 4.4 (BJI).

WMQ 2.56 48 iPnd 52 03.60 0.9  
GTA 11.52 99 eP 54 06.30 -1.5  
1.4s 12.00nm 4.9mb X  
pP 54 12.50  
HHC 19.87 85 P 55 53.80 -0.1  
XAN 20.40 106 P 56 00.50 1.1  
pP 56 04.00 13kmX  
TIY 21.41 93 eP 56 16.00 0.3  
GYA 23.64 125 iPd 56 36.40 4.7X  
1.0s 11.00nm 4.3mb  
YKA 74.52 9 P 02 57.40 -1.7  
0.8s 0.60nm 3.6mb  
LPZ 145.46 310 PKP 11 00.80 1.0  
MOCB 147.76 301 PKP 11 08.90 5.6X  
S.D. = 1.4 on 7 of 9 obs.

& JAN 23, 1994 04h 00m 55.29s  
34.302 N 118.459 W  
DEPTH = 6.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.0 (GS).

SSK 0.64 98 iPd 01 07.19 -1.0  
ABL 0.83 311 iPd 01 10.07 -1.8  
PEC 1.15 110 ePc 01 15.57 -1.6  
eS 01 31.38  
ISA 1.36 360 eP 01 19.21 -1.5  
BCH 1.60 304 eP 01 22.07 -2.2  
PLM 1.63 125 eP 01 22.57 -2.2  
GSC 1.69 53 eP 01 24.12 -1.3  
MTUM 3.05 358 ePg 01 50.65 5.7  
TPNV 3.20 34 ePn 01 46.00 -1.1  
MMPM 3.33 352 ePg 01 55.51 6.3  
MEMM 3.38 354 ePg 01 56.39 6.8  
BONR 3.65 2 ePg 02 01.79 8.1  
ARUT 5.35 48 ePn 02 17.93 0.2



23d 03h

13 obs. associated  
 ? JAN 23, 1994 04h 47m 03.03±11.79s  
 19.469 N ±73.0km 65.568 W ±61.0km  
 DEPTH = 10.0km (geophysicist)  
 PUERTO RICO REGION (90)

LPR	1.19	194	P	47	25.10	-0.1
SJG	1.46	202	iP	47	30.00	0.6
CPD	1.46	193	P	47	29.10	-0.3
APR	1.49	228	P	47	30.00	0.1
CLLP	1.68	215	P	47	32.80	0.2
LRS	1.68	226	P	47	32.20	-0.5

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

& JAN 23, 1994 04h 58m 10.67s  
 34.288 N 118.536 W  
 DEPTH = 8.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.5 (PAS), 2.8 (GS).

SSK	0.70	96	eP	58	23.65	-1.2
ABL	0.80	315	eP	58	25.31	-1.1
PEC	1.21	109	eP	58	31.74	-1.6
			eS	58	48.05	
ISA	1.37	2	eP	58	35.10	-1.0
BCH	1.56	306	eP	58	37.77	-1.0
PLM	1.68	123	eP	58	38.18	-2.4
GSC	1.75	54	eP	58	39.93	-1.5
MTUM	3.06	360	ePg	59	06.63	6.3
TPNV	3.24	34	ePn	59	01.61	-1.3
MEMM	3.39	355	ePg	59	12.77	8.0
BONR	3.66	3	ePg	59	17.76	8.7

11 obs. associated  
 JAN 23, 1994 05h 17m 31.23± 0.97s  
 34.244 N ±10.5km 118.554 W ± 7.7km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.7 (GS).

SSK	0.71	92	eP	17	45.62	0.2
ABL	0.82	318	eP	17	46.97	-0.3
PEC	1.21	106	eP	17	53.88	0.1
			eS	18	10.95	
ISA	1.42	3	eP	17	56.27	-0.8
BCH	1.57	307	eP	18	00.05	0.7
PLM	1.67	122	eP	18	00.16	-0.6
GSC	1.79	53	eP	18	03.17	0.8
TPNV	3.29	34	(Pn)	18	23.85	-0.1
BONR	3.71	3	ePg	18	39.18	9.1X

S.D. = 0.7 on 8 of 9 obs.

? JAN 23, 1994 05h 19m 16.86± 5.22s  
 31.559 S ±33.1km 68.581 W ±19.8km  
 DEPTH = 109.4 ± 45.1 km  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.20	291	iPd	19	32.50	-0.3
			S	19	42.50	
RTLL	0.25	23	iPd	19	33.00	0.1
			S	19	43.00	
RTCV	0.30	173	iPd	19	33.20	0.1
			S	19	45.00	
RTRS	1.58	331	iPd	19	45.00	0.1
			S	20	05.00	
RTPR	2.18	55	iP	19	52.50	-0.1
			S	20	19.50	

S.D. = 0.3 on 5 of 5 obs.

? JAN 23, 1994 05h 35m 26.53± 2.39s  
 40.753 N ±18.6km 30.042 E ±17.3km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.4 (ISK).

EYL	0.21	155	iPg	35	31.00	-0.1
			eSg	35	32.50	
HRT	0.29	284	ePg	35	32.00	-0.7
IZI	0.60	226	ePg	35	38.90	0.2
			eSg	35	46.90	
CTT	1.28	288	ePn	35	50.90	0.6

S.D. = 0.9 on 4 of 4 obs.

JAN 23, 1994 06h 43m 45.55± 0.68s  
 36.321 N ± 8.1km 140.100 E ± 8.4km  
 DEPTH = 85.8 ± 6.2 km

4.4mb (10 obs.)  
 NEAR EAST COAST OF HONSHU, JAPAN(228)  
 Felt (III JMA) at Nikko and (II JMA) at Kumagaya, Mito, Tokyo and Utsunomiya.

KAKJ	0.13	153	iPd	43	57.20	-0.7
			S	44	04.60	
CHJJ	0.93	253	iPd	44	04.10	-0.4
			S	44	17.00	
NIIJ	1.27	316	iPd	44	08.90	0.4
			S	44	25.60	
MAT	1.54	279	iPd	44	12.10	0.0
			eS	44	31.00	
YAMJ	1.85	358	P	44	17.00	0.9
			eS	44	42.30	
MTMJ	1.87	279	iPd	44	17.40	0.9
IIDJ	1.97	245	P	44	19.00	1.3
			S	44	42.70	
OFUJ	3.02	24	eP	44	32.20	0.1
			eS	45	08.90	
TSRJ	3.43	258	P	44	39.40	1.6
WKYJ	4.24	242	P	44	48.70	-0.5
TKSJ	5.48	247	P	45	06.10	-0.2
MRRJ	6.14	7	eP	45	14.80	-0.6
HOOJ	6.54	21	P	45	18.90	-2.0
			eS	46	29.30	
KUSJ	7.64	26	P	45	31.50	-4.6X
			eS	46	53.60	
ASAJ	8.03	13	eP	45	41.00	-0.4
TIA	18.53	276	eP	48	00.80	3.0X
	0.8s	40.00nm			4.7mb	
BJI	19.16	288	eP	48	01.50	-3.2X
	1.2s	8.00nm			3.9mb	
TIY	22.11	282	eP	48	33.00	-1.9
Z	30s	0.62um			3.8mszX	
XAN	25.53	274	P	49	06.00	-1.8
	0.5s	6.40nm			4.4mb	
GYA	30.06	260	iPd	49	46.80	-2.0
	1.0s	11.00nm			4.5mb	
LSA	41.22	275	P	51	24.80	0.8
	0.8s	6.70nm			4.5mb	
WB2	56.22	187	iPc	53	17.60	-1.4
	0.6s	6.50nm			4.8mb	
WRA	56.22	187	P	53	18.10	-0.9
	0.6s	2.30nm			4.4mb	
ASPA	59.95	187	eP	53	45.60	0.6
	0.8s	4.60nm			4.7mb	
GBA	60.10	265	P	53	37.00	-9.3X
GBA	60.10	265	P	53	48.00	1.7
YKA	64.95	30	P	54	17.00	-0.8
	0.7s	0.60nm			3.6mb	
NEW	71.38	43	eP	54	58.79	0.8
NB2	74.43	337	P	55	08.10	-7.6X
	0.8s	1.20nm			3.8mb	
LRM	75.39	44	eP	55	22.90	1.2
PV10	82.04	48	eP	55	59.85	2.0
PV08	82.14	48	eP	56	00.07	1.6
LPZA	147.96	59	PKP	03	24.30	3.9X
LPB	148.15	59	PKP	03	20.00	-0.4

S.D. = 1.3 on 28 of 34 obs.

& JAN 23, 1994 06h 57m 41.28s  
 34.379 N 118.695 W  
 DEPTH = 11.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.4 (GS).

ABL	0.64	317	iPd	57	52.92	-1.2
SSK	0.85	101	eP	57	57.06	-0.5
			eS	58	09.08	
ISA	1.29	8	eP	58	04.33	-0.8
PEC	1.36	110	eP	58	04.73	-1.4
			eS	58	23.74	
BCH	1.40	306	eP	58	05.78	-0.9
GSC	1.81	59	eP	58	11.04	-1.5
PLM	1.84	123	eP	58	10.95	-2.2
PHAM	2.02	317	(P)	58	14.46	-1.1
MTUM	2.97	2	(Pn)	58	28.70	-0.6
MMPM	3.24	355	(Pn)	58	30.71	-2.5
TPNV	3.25	37	eP	58	30.46	-2.8
MEMM	3.29	357	(Pn)	58	31.59	-2.0
GLA	3.49	111	ePn	58	33.41	-3.1
BONR	3.58	5	ePg	58	46.94	8.8
TNP	3.88	17	ePg	58	53.00	10.7
CMB	3.90	340	eP	58	41.39	-0.9

16 obs. associated

& JAN 23, 1994 08h 04m 26.53s  
 34.300 N 118.456 W  
 DEPTH = 8.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK	0.64	98	eP	04	38.31	-1.1
ABL	0.84	311	eP	04	41.31	-1.7
PEC	1.15	110	eP	04	46.85	-1.4
			eS	05	02.56	
ISA	1.36	359	eP	04	50.66	-1.1
BCH	1.61	304	eP	04	54.18	-1.2
PLM	1.63	125	eP	04	54.13	-1.6
GSC	1.69	53	eP	04	55.43	-1.1
BONR	3.65	2	ePg	05	32.89	8.1

8 obs. associated

JAN 23, 1994 08h 13m 42.22± 0.43s  
 42.604 N ± 3.8km 18.913 E ± 3.8km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.7 (TTG).

NKY	0.22	17	iPg	13	47.78	0.8
			iSg	13	51.72	
TTG	0.31	124	iPg	13	49.29	0.6
			iSg	13	54.72	
BDV	0.33	191	iPg	13	49.25	0.3
			iSg	13	54.75	
HCY	0.34	243	iPg	13	49.61	0.3
			iSg	13	54.99	
BRY	0.40	318	iPg	13	50.45	0.0
			iSg	13	56.66	
ULC	0.69	159	iPg	13	55.46	-0.4
			iSg	14	06.31	
IVA	0.77	69	iPg	13	57.35	0.0
			iSg	14	08.98	
PVY	0.78	90	iPg	13	57.46	-0.1
			iSg	14	09.48	
PLE	0.81	26	iPg	13	57.57	-0.4
			iSg	14	09.82	
HVAR	1.90	288	iPn	14	14.50	-0.5
			iSn	14	39.40	
SKO	1.98	108	ePn	14	15.50	-0.6
			i	14	18.00	
			i	14	45.00	
OHR	2.05	136	ePn	14	19.50	2.3X

S.D. = 0.5 on 11 of 12 obs.

& JAN 23, 1994 08h 39m 45.43s  
 34.367 N 118.535 W  
 DEPTH = 3.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.3 (GS).

SSK	0.71	102	eP	39	58.97	-0.7
ABL	0.74	311	iPc	39	59.33	-1.0
PEC	1.23	112	eP	40	08.10	-1.0
ISA	1.29	2	eP	40	09.28	-0.8
BCH	1.51	303	eP	40	12.19	-1.4
			eS	40	35.22	
GSC	1.70	56	eP	40	15.60	-0.6
PLM	1.72	126	eP	40	15.78	-0.8
PHAM	2.12	314	eP	40	21.52	-0.7
TPNV	3.18	35	ePn	40	36.37	-1.1
MEMM	3.31	354	ePg	40	48.73	9.6
BONR	3.59	3	ePg	40	52.00	8.7

11 obs. associated

& JAN 23, 1994 08h 41m 41.76s  
 34.291 N 118.461 W  
 DEPTH = 8.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.8 (PAS), 4.0 (GS).

SSK	0.64	97	iPd	41	53.72	-0.9
ABL	0.84	312	iPd	41	56.84	-1.4
			eS	42	07.50	
PEC	1.15	110	iPd	42	02.10	-1.4
			eS	42	13.52	
ISA	1.37	360	P	42	04.95	-2.2
BCH	1.61	304	eP	42	09.32	-1.2
PLM	1.63	125	eP	42	09.05	-1.9
GSC	1.70	53	eP	42	10.73	-1.1
PHAM	2.21	315	eP	42	17.64	-1.6
MTUM	3.06	358	eP	42	32.10	0.7



23d 08h

TPNV 3.21 34 eP 42 32.63 -0.9  
 GLA 3.27 111 eP 42 32.70 -1.7  
 MMPM 3.34 352 ePg 42 41.27 5.6  
 MRCM 3.37 359 ePg 42 42.54 6.6  
 MEMM 3.39 354 ePg 42 43.47 7.5  
 BONR 3.66 2 ePn 42 40.93 0.8  
 ePg 42 48.43  
 TNP 3.91 15 ePg 42 54.07 10.5  
 ARN 3.94 322 (Pn) 42 42.35 -1.5  
 CMB 4.05 338 eP 42 45.30 0.0  
 KVN 4.76 3 eP 43 08.34 12.7  
 NTYM 5.31 322 (P) 43 03.09 -0.1  
 ARUT 5.36 48 eP 43 03.88 -0.2  
 ORV 5.79 336 eP 43 10.14 0.2  
 MSU 6.59 48 eP 43 21.09 -0.4  
 DUG 7.42 36 ePg 43 59.68 26.7  
 SRU 7.98 51 (Pn) 43 41.96 1.0  
 PV09 8.61 58 ePn 43 49.45 -0.4  
 PV10 8.63 59 (Pn) 43 49.86 -0.2  
 PV08 8.99 59 (Pn) 43 55.69 0.6  
 28 obs. associated

& JAN 23, 1994 08h 55m 08.65s  
 34.299 N 118.428 W  
 DEPTH = 6.0km (geophysicist)  
 4.0mb ( 3 obs.)  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 4.1 (PAS), 4.2 (GS),  
 4.2 (BRK).

SSK 0.62 98 iPd 55 20.11 -0.9  
 ABL 0.85 310 iPc 55 23.98 -1.7  
 PEC 1.13 111 iPc 55 28.68 -1.5  
 ISA 1.36 358 eP 55 32.98 -1.2  
 PLM 1.61 125 iPc 55 35.89 -2.0  
 BCH 1.63 303 eP 55 36.44 -1.6  
 eS 56 02.01  
 PHAM 2.23 314 eP 55 44.62 -2.1  
 PKEM 2.23 322 eP 55 47.59 0.9  
 PRI 2.59 316 ePd 55 50.17 -1.8  
 FRI 2.88 339 eP 55 53.49 -2.4  
 eS 56 29.29  
 MTUM 3.05 358 ePn 55 57.93 -0.6  
 TPNV 3.18 33 eP 55 59.30 -1.1  
 GLA 3.25 111 eP 56 00.51 -0.7  
 MMPM 3.34 352 (Pn) 56 03.28 0.5  
 ePg 56 08.12  
 MRCM 3.37 359 ePn 56 03.01 0.0  
 MEMM 3.39 353 ePn 56 03.80 0.7  
 ePg 56 09.63  
 SAO 3.48 316 eP 56 02.87 -1.6  
 BONR 3.65 2 ePn 56 07.11 0.0  
 ePg 56 15.15  
 TNP 3.90 14 ePn 56 09.24 -1.4  
 ARN 3.95 321 eP 56 10.77 -0.4  
 COE 3.96 319 eP 56 10.52 -0.7  
 MHC 4.00 320 eP 56 11.58 -0.4  
 CMB 4.05 338 eP 56 12.00 -0.6  
 HMR 4.72 326 (P) 56 19.79 -2.2  
 KVN 4.75 3 ePg 56 36.39 13.7  
 NTYM 5.32 321 (P) 56 30.49 -0.1  
 ARUT 5.33 48 eP 56 30.71 -0.2  
 ORV 5.79 336 eP 56 36.01 -1.2  
 MSU 6.57 48 eP 56 47.35 -1.0  
 DUG 7.39 36 ePn 56 59.56 -0.3  
 SRU 7.96 51 eP 57 08.44 0.6  
 EMUT 8.20 46 (Pn) 57 12.34 1.0  
 DAU 8.35 41 (Pn) 57 15.20 1.7  
 PV09 8.58 58 ePn 57 16.43 -0.3  
 PV10 8.60 59 eP 57 17.56 0.7  
 PV08 8.96 59 eP 57 22.07 0.2  
 VGB 11.35 352 eP 57 56.72 2.4  
 LRM 12.38 20 eP 58 14.70 6.2  
 RSSD 14.83 44 (P) 58 41.35 0.5  
 1.3s 12.78nm 4.3mb  
 UYO 19.81 84 iPc 59 46.00 3.2  
 MIAR 20.49 82 eP 59 48.25 -1.7  
 1.1s 8.73nm 4.0mb  
 YKA 28.32 4 P 01 02.50 -2.3  
 1.0s 0.80nm 3.5mb  
 LPAZ 69.42 128 P 06 16.90 -3.6  
 LPB 69.62 128 P 06 19.80 -1.7  
 SIV 73.98 123 P 06 44.40 -2.7  
 45 obs. associated

? JAN 23, 1994 08h 57m 23.65±17.89s  
 19.250 N ±121.km 66.102 W ±30.3km

DEPTH = 10.0km (geophysicist)  
 PUERTO RICO REGION ( 90)  
 LPR 0.96 167 P 57 42.00 0.0  
 APR 0.99 217 P 57 43.20 0.8  
 SJG 1.13 182 iP 57 45.10 0.2  
 LRS 1.18 217 P 57 45.00 -0.8  
 S 57 58.80  
 CPD 1.22 172 P 57 46.20 -0.1  
 CLLP 1.25 201 P 57 46.70 -0.1  
 S.D. = 0.6 on 6 of 6 obs.  
 ? JAN 23, 1994 09h 08m 49.36±1.39s  
 39.664 N ± 9.0km 27.607 E ±15.4km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 3.1 (ISK).

EDC 0.71 16 ePn 09 03.00 -0.5  
 eSg 09 15.00  
 DST 0.79 94 ePn 09 04.60 -0.6  
 IZM 1.29 192 ePn 09 13.80 0.0  
 YLV 1.63 56 ePn 09 20.00 1.2  
 S.D. = 1.4 on 4 of 4 obs.

JAN 23, 1994 09h 10m 46.75±0.30s  
 44.561 N ± 2.0km 7.309 E ± 3.2km  
 DEPTH = 10.0 ± 3.5 km  
 NORTHERN ITALY (545)  
 ML 2.8 (GEN).

PZZ 0.16 249 Pd 10 50.28 -0.2  
 S 10 52.28  
 BHB 0.28 353 P 10 53.39 0.7  
 S 10 57.34  
 STV 0.32 178 Pc 10 53.22 -0.2  
 S 10 57.02  
 ENR 0.34 167 P 10 53.73 -0.2  
 S 10 58.02  
 ROB 0.48 123 Pd 10 56.71 0.1  
 S 11 03.18  
 RRL 0.52 314 P 10 57.25 -0.1  
 S 11 04.13  
 TOUF 0.55 185 Pg 10 57.89 0.0  
 AUTN 0.57 171 Pg 10 58.30 -0.2  
 RSP 0.59 356 P 10 58.36 -0.4  
 S 11 06.60  
 SAOF 0.60 163 Pg 10 58.78 -0.2  
 Sg 11 06.60  
 AURF 0.67 179 Pg 11 00.01 -0.2  
 Sg 11 09.22  
 MVIF 0.67 190 Pg 11 00.31 0.1  
 SBF 0.70 173 Pg 11 00.73 0.0  
 Sg 11 10.39  
 FIN 0.73 118 P 11 01.03 -0.2  
 S 11 10.76  
 IMI 0.77 147 P 11 01.93 0.0  
 S 11 11.92  
 REVF 0.82 177 Pg 11 03.04 0.3  
 CALN 0.86 201 Pg 11 04.08 0.6  
 PCP 0.88 91 P 11 04.14 0.4  
 S 11 15.50  
 LSD 0.90 353 P 11 04.40 0.2  
 S 11 15.92  
 ORX 1.17 24 P 11 08.14 -0.6  
 S.D. = 0.3 on 20 of 20 obs.

& JAN 23, 1994 09h 14m 50.99s  
 34.278 N 118.604 W  
 DEPTH = 7.7km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK 0.76 95 ePc 15 04.63 -1.5  
 ABL 0.77 318 eP 15 04.76 -1.5  
 PEC 1.26 107 eP 15 12.98 -1.6  
 eS 15 30.31  
 BCH 1.52 307 eP 15 17.02 -1.6  
 PLM 1.72 122 eP 15 19.92 -1.7  
 GSC 1.80 55 eP 15 21.32 -1.3  
 TPNV 3.28 35 ePn 15 42.37 -1.6  
 7 obs. associated

? JAN 23, 1994 09h 19m 20.42±10.86s  
 31.937 S ±67.8km 68.107 W ±67.4km  
 DEPTH = 33.0km (normal)  
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.35 341 iPd 19 29.20 0.3  
 S 19 33.00  
 RTCV 0.37 282 iPc 19 29.00 -0.2  
 RTLL 0.68 333 iPc 19 33.00 -0.6  
 S 19 38.50  
 RTCB 0.74 307 iPc 19 35.00 0.5  
 S.D. = 0.9 on 4 of 4 obs.

& JAN 23, 1994 09h 28m 14.36s  
 36.545 N 121.126 W  
 DEPTH = 5.4km  
 CENTRAL CALIFORNIA ( 39)  
 <GM-P>. MD 2.9 (GM).

SAO 0.34 311 eP 28 20.69 -0.5  
 COE 0.84 329 eP 28 31.19 0.2  
 eS 28 45.43  
 ARN 0.87 338 eP 28 31.43 -0.1  
 CMB 1.60 21 eP 28 42.36 -1.0  
 MMPM 1.99 57 eP 28 49.26 0.0  
 MEMM 2.08 57 (P) 28 50.09 -0.1  
 ISA 2.32 111 eP 28 52.67 -1.2  
 MRCM 2.38 61 eP 28 56.02 1.2  
 BONR 2.66 57 eP 29 00.50 1.7  
 ORV 3.02 355 eP 29 03.50 -0.2  
 10 obs. associated

& JAN 23, 1994 09h 30m 41.16s  
 34.360 N 118.516 W  
 DEPTH = 1.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.8 (PAS), 3.0 (GS).

SSK 0.70 102 eP 30 54.28 -0.8  
 ABL 0.76 310 eP 30 55.42 -0.9  
 PEC 1.22 112 eP 31 03.04 -1.6  
 eS 31 20.10  
 ISA 1.30 2 eP 31 05.00 -1.1  
 BCH 1.53 303 eP 31 09.31 -0.5  
 GSC 1.69 56 eP 31 11.02 -1.1  
 PLM 1.70 126 eP 31 10.43 -1.9  
 eS 31 34.08  
 TPNV 3.17 35 ePn 31 32.55 -0.8  
 8 obs. associated

? JAN 23, 1994 09h 53m 09.00±1.42s  
 44.071 N ±25.3km 148.800 E ±16.6km  
 DEPTH = 33.0km (normal)  
 3.9mb ( 1 obs.)  
 KURIL ISLANDS (221)

KUSJ 3.13 253 P 53 55.50 -1.6  
 eS 54 27.10  
 HOOJ 4.37 249 eP 54 15.10 0.4  
 eS 55 02.70  
 ASAJ 4.44 273 eP 54 17.00 1.3  
 MRRJ 5.88 256 eP 54 36.40 0.3  
 eS 55 39.50  
 AOMJ 7.16 244 eP 54 52.90 -1.2  
 eS 56 08.70  
 BIP 40.76 216 ePd 00 49.80 1.2  
 YKA 54.87 34 P 02 37.50 -0.5  
 0.6s 0.70nm 3.9mb  
 S.D. = 1.4 on 7 of 7 obs.

\* JAN 23, 1994 09h 55m 02.04±1.63s  
 44.675 N ±10.2km 14.067 E ±15.0km  
 DEPTH = 10.0km (geophysicist)  
 ADRIATIC SEA (382)  
 MD 2.5 (TRI). ML 2.5 (VIE),  
 2.2 (LJU).

RIY 0.71 19 iPg 55 14.70 -1.2  
 iSg 55 24.90  
 TRI 1.06 348 ePg 55 21.70 -0.2  
 eSg 55 36.30  
 CEY 1.09 13 ePg 55 25.10 2.5X  
 eSg 55 41.00  
 VBY 1.18 45 ePg 55 24.50 0.4  
 iSg 55 40.10  
 VOY 1.36 355 ePn 55 27.50 0.4  
 eSn 55 46.30  
 LJU 1.41 13 ePn 55 28.50 0.8  
 eSg 55 48.00  
 PTJ 1.81 47 ePg 55 33.70 0.1  
 iSg 55 59.20  
 HVAR 2.28 130 ePn 55 40.10 -0.2



23d 09h

iSn 56 11.50  
KBA 2.46 348 iPgc 55 50.30 7.4X  
iSg 56 19.60  
S.D. = 0.8 on 7 of 9 obs.

? JAN 23, 1994 10h 17m 46.90± 1.72s  
1.057 N ±16.7km 127.565 E ±42.9km  
DEPTH = 94.6 ± 17.8 km  
4.6mb ( 7 obs.)

HALMAHERA, INDONESIA (267)

DAV 6.31 342 eP 19 19.10 0.0  
CTB 6.96 331 eP 19 54.00 25.9X  
WB2 21.90 163 iPd 22 32.70 -1.0  
0.6s 10.40nm 4.4mb  
ASPA 25.34 166 iPc 23 06.90 0.2  
0.9s 9.90nm 4.3mb  
STK 35.35 159 eP 24 36.10 0.9  
0.7s 1.40nm 4.0mb  
XAN 37.16 334 eP 24 50.80 0.4  
TIY 39.05 341 eP 25 07.10 0.9  
BJI 40.16 346 eP 25 14.50 -0.7  
1.2s 10.00nm 4.5mb  
LZH 41.22 330 eP 25 24.50 0.3  
2.0s 33.00nm 4.8mb  
Z 15s 0.29um 4.3mszX  
HHC 42.18 342 eP 25 32.00 0.0  
BTO 42.46 340 eP 25 34.40 0.2  
GTA 45.81 330 eP 26 00.50 -0.6  
WMQ 55.38 326 P 27 13.00 -0.6  
1.0s 12.00nm 4.9mb  
MAIO 71.79 308 eP 29 02.00 0.6  
KHC 104.66 322 ePd 31 43.00 -0.6  
GEC2 104.68 321 Pd 31 39.60 -4.2X  
0.5s 2.79nm 5.5mb  
S.D. = 0.7 on 14 of 16 obs.

? JAN 23, 1994 10h 42m 28.83± 1.40s  
37.265 N ± 8.9km 3.198 W ±12.7km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)  
mbLg 2.3 (MDD).

ECOG 0.29 273 iPc 42 34.88 -0.2  
eS 42 39.50  
EGUA 0.52 214 iPd 42 39.47 0.1  
eS 42 46.20  
EBAN 1.01 333 iPc 42 48.18 0.2  
eS 43 02.20  
EVIA 1.48 22 iPd 42 55.45 -0.1  
eS 43 12.70  
S.D. = 0.3 on 4 of 4 obs.

? JAN 23, 1994 11h 16m 16.24± 8.05s  
30.247 S ±65.2km 68.316 W ±58.1km  
DEPTH = 10.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 1.09 187 ePc 16 36.50 -0.2  
S 16 53.00  
RTCB 1.30 198 ePc 16 40.50 0.1  
S 16 59.00  
CFA 1.36 177 ePd 16 41.50 0.3  
S 17 02.00  
RTPR 1.56 92 eP 16 44.00 -0.1  
S 17 07.00  
S.D. = 0.4 on 4 of 4 obs.

\* JAN 23, 1994 11h 50m 47.55± 0.98s  
16.686 N ±20.8km 95.334 W ± 9.9km  
DEPTH = 127.4 ± 18.5 km  
3.9mb ( 2 obs.)  
OAXACA, MEXICO (60)

OXK 1.39 287 iP 51 13.50 -1.3  
iS 51 32.50  
SCX 2.59 89 iP 51 28.50 -0.8  
iS 52 02.00  
LVVM 3.22 341 iP 51 32.00 -5.5X  
TPX 3.45 120 eP 51 42.00 1.3  
PPM 3.93 308 iP 51 48.50 0.8  
iS 52 33.50

ACX 4.34 273 eP 51 51.00 -1.7  
UNM 4.51 306 eP 51 56.50 1.2  
CRX 4.94 304 eP 52 01.50 0.3  
MRX 6.33 299 iP 52 21.00 1.3  
UYO 17.43 2 iPd 54 43.30 -0.8

TUL 19.15 359 iPc 55 11.60 8.1X  
YKA 47.72 348 P 59 12.50 -0.4  
0.5s 0.30nm 3.3mb  
LKO 87.06 81 P 03 24.37 3.8X  
0.4s 2.50nm 4.5mb  
S.D. = 1.4 on 10 of 13 obs.

% JAN 23, 1994 12h 03m 58.70± 0.65s  
28.028 S ± 6.4km 26.926 E ± 6.3km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.6 (PRE).

SEK 0.68 116 iPc 04 12.50 0.1  
S 04 23.00  
BLF 1.26 211 iPc 04 22.30 -0.3  
S 04 38.50  
BOSA 1.45 246 eP 04 26.00 0.4  
S 04 44.20

SWZ 1.65 300 eP 04 28.50 -0.1  
S 04 48.50  
KSR 2.15 359 eP 04 36.00 0.1  
S 05 03.00  
SLR 2.58 28 eP 04 41.90 -0.1  
S 05 09.50  
S.D. = 0.3 on 6 of 6 obs.

\* JAN 23, 1994 12h 24m 09.85s  
59.718 N 153.510 W  
DEPTH = 126.2km  
SOUTHERN ALASKA ( 2)  
<AEC>.

AUL 0.34 173 eP 24 27.20 0.8  
AUW 0.35 177 eP 24 27.23 0.8  
AUH 0.36 174 eP 24 27.27 0.7  
AGU 0.36 174 eP 24 27.80 -0.4  
AUE 0.37 169 eP 24 27.17 -0.8  
AUI 0.39 174 eP 24 27.48 -0.6  
BC3 3.71 66 eP 25 44.11 -1.1  
BGL 3.71 66 eP 24 39.81 -1.1  
BKG 3.71 66 eP 24 37.57 -1.1  
eS 24 58.47

CDD 3.71 66 eP 24 29.82 -1.1  
eS 24 55.86  
CFI 3.71 66 eP 24 58.13 -1.1  
CGLM 3.71 66 eP 24 40.73 -1.1  
CKL 3.71 66 eP 24 39.73 -1.1  
CKN 3.71 66 eP 24 40.56 -1.1  
CKT 3.71 66 eP 24 39.03 -1.1  
CNPM 3.71 66 eP 24 33.18 -1.1  
eS 24 51.53

CP2 3.71 66 eP 24 40.09 -1.1  
CRP 3.71 66 eP 24 40.22 -1.1  
CUT 3.71 66 eP 24 57.69 -1.1  
DFR 3.71 66 eP 24 31.80 -1.1  
eS 24 48.98  
FBA 3.71 66 eP 25 32.32 -1.1  
FID 3.71 66 eP 25 03.89 -1.1  
GHO 3.71 66 eP 24 56.11 -1.1  
HIN 3.71 66 eP 25 03.51 -1.1  
HOM 3.71 66 eP 24 31.63 -1.1  
eS 24 47.93

IL1 3.71 66 eP 25 34.10 -1.1  
ILB 3.71 66 eP 25 33.31 -1.1  
ILIM 3.71 66 eP 24 27.64 -1.1  
eS 24 42.38  
IM3 3.71 66 eP 25 40.66 -1.1  
INE 3.71 66 eP 24 27.59 -1.1  
KLU 3.71 66 eP 25 10.05 -1.1  
KNK 3.71 66 eP 24 55.05 -1.1  
MPA 3.71 66 eP 24 45.69 -1.1  
MTU 3.71 66 eP 24 55.29 -1.1  
NCG 3.71 66 eP 24 41.91 -1.1  
NCT 3.71 66 eP 24 30.90 -1.1  
eS 24 47.25

NKA 3.71 66 eP 24 39.56 -1.1  
OPT 3.71 66 iP 24 26.61 -1.1  
eS 24 39.72  
PDB 3.71 66 eP 24 26.99 -1.1  
eS 24 39.96  
PLRM 3.71 66 eP 24 54.05 -1.1  
PWL 3.71 66 eP 24 53.18 -1.1  
RWL 3.71 66 eP 24 30.74 -1.1  
RED 3.71 66 eP 24 30.26 -1.1  
eS 24 46.00

REF 3.71 66 eP 24 31.01 -1.1

RS2 3.71 66 eS 24 47.24  
eP 24 30.83 -1.1  
eS 24 47.05  
RSO 3.71 66 eP 24 30.78 -1.1  
SEW 3.71 66 eP 24 44.19 -1.1  
SKT 3.71 66 eP 24 49.31 -1.1  
SLKM 3.71 66 eP 24 40.87 -1.1  
SML 3.71 66 eP 24 58.79 -1.1  
SPU 3.71 66 eP 24 39.20 -1.1  
eS 25 02.96

SUA 3.71 66 iP 24 46.65 -1.1  
eS 25 14.43  
SYI 3.71 66 eP 24 34.01 -1.1  
eS 24 52.16  
TRF 3.71 66 eP 25 10.71 -1.1  
VLZ 3.71 66 eP 25 07.59 -1.1  
VZW 3.71 66 eP 25 05.30 -1.1  
56 obs. associated

? JAN 23, 1994 12h 49m 37.10± 0.91s  
1.137 N ±33.0km 128.314 E ±86.9km  
DEPTH = 15.3km ( 2 depth phases)  
4.4mb ( 6 obs.)  
HALMAHERA, INDONESIA (267)

WB2 21.77 165 eP 54 29.50 -0.8  
1.3s 14.60nm 4.2mb  
i 54 35.10  
ASPA 25.25 168 iPc 55 05.30 1.1  
1.0s 16.20nm 4.6mb  
STK 35.17 160 eP 56 32.10 -0.3  
2.2s 1.50nm 3.5mb  
XAN 37.43 333 P 56 51.00 -0.5  
1.0s 8.90nm 4.5mb

pP 56 55.50 15km  
TIY 39.22 340 eP 57 10.00 3.4X  
BJI 40.27 346 eP 57 15.50 0.5  
1.0s 6.00nm 4.2mb  
LZH 41.52 330 eP 57 26.40 0.8  
1.2s 23.00nm 4.8mb  
pP 57 31.00 15km

GTA 46.12 329 eP 58 02.00 -0.7  
S.D. = 0.9 on 7 of 8 obs.

\* JAN 23, 1994 13h 55m 08.85± 0.80s  
51.227 N ±12.8km 178.018 E ± 7.0km  
DEPTH = 33.0km (normal)  
4.4mb ( 12 obs.)  
RAT ISLANDS, ALEUTIAN ISLANDS ( 6)  
ML 5.0 (PMR).

SMY 2.85 303 eP 55 54.20 1.2  
eS 56 27.25  
ADK 3.37 77 eP 56 02.34 1.9  
eS 56 41.98  
SDN 13.48 64 eP 58 18.57 -1.4  
SVW 17.57 46 eP 59 16.40 3.8X  
TTA 18.19 40 (P) 59 20.52 0.4  
1.3s 13.07nm 3.9mb

CP2 19.16 47 ePc 59 32.97 0.8  
CRP 19.20 47 eP 59 32.93 0.4  
SLKM 19.91 50 eP 59 39.23 -0.9  
PWA 20.36 47 eP 59 44.70 -0.1  
0.6s 15.10nm 4.5mb  
PMS 20.40 48 eP 59 45.50 0.2  
0.6s 35.20nm 4.9mb

IMA 20.65 33 eP 59 47.75 -0.2  
1.2s 22.03nm 4.4mb  
PMR 20.69 47 eP 59 46.19 -2.0  
KLU 22.17 48 eP 00 04.30 1.1  
FBA 22.31 39 eP 00 05.29 0.8  
0.5s 2.40nm 3.9mb

BALM 23.80 50 eP 00 18.96 -0.3  
YKA 36.78 46 P 02 15.00 0.3  
0.5s 0.80nm 3.9mb  
DUG 47.84 75 (P) 03 45.42 0.1  
0.5s 1.95nm 4.4mb  
e 03 57.06  
e 07 51.30

BW06 48.24 70 (P) 03 48.15 -0.3  
0.5s 1.93nm 4.4mb  
DAU 48.66 74 (P) 03 50.99 -0.8  
MSU 49.27 76 eP 03 57.05 0.6  
SRU 49.90 75 eP 04 01.90 0.7  
PV09 51.13 74 eP 04 10.71 0.0  
PV10 51.27 74 (P) 04 11.92 0.2  
PV08 51.38 74 (P) 04 12.57 -0.1



LTX 60.65 79 eP 05 19.13 0.2  
 UYO 62.79 69 iPd 05 46.10 12.9X  
 MIAR 63.04 68 eP 05 34.38 -0.4  
 0.5s 2.18nm 4.5mb  
 e 05 48.69  
 OXF 65.47 65 eP 05 49.98 -0.6  
 HFS 68.27 352 eP 06 06.20 -1.8  
 0.4s 1.90nm 4.5mb  
 OBN 69.28 337 eP 06 14.00 -0.2  
 1.0s 28.00nm 5.3mb  
 GEC2 79.41 350 P 07 12.90 0.0  
 0.6s 0.42nm 3.6mb  
 e 07 15.50  
 S.D. = 0.9 on 29 of 31 obs.

& JAN 23, 1994 14h 05m 31.86s  
 34.321 N 118.527 W  
 DEPTH = 2.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.4 (GS).

SSK 0.70 99 eP 05 45.30 -0.5  
 ABL 0.78 313 eP 05 46.41 -1.0  
 PEC 1.21 110 eP 05 53.59 -1.6  
 eS 06 09.75  
 ISA 1.34 2 eP 05 56.24 -1.1  
 eS 06 14.09  
 BCH 1.54 304 eP 05 59.49 -1.1  
 PLM 1.69 124 eP 06 00.88 -1.8  
 GSC 1.72 55 eP 06 02.24 -0.8  
 PHAM 2.15 315 (P) 06 05.87 -3.4  
 TPNV 3.21 35 ePn 06 22.00 -2.4  
 MMPM 3.31 353 ePg 06 33.18 7.2  
 GLA 3.33 111 (P) 06 26.22 0.1  
 MRCM 3.34 0 ePg 06 33.90 7.5  
 MEMM 3.35 354 (Pg) 06 32.45 6.1  
 BONR 3.63 3 ePg 06 40.20 9.7  
 TNP 3.90 15 ePg 06 45.97 11.7  
 15 obs. associated

% JAN 23, 1994 14h 08m 13.89± 1.52s  
 40.696 N ±11.7km 22.746 E ± 8.4km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 1.8 (THE).

THE 0.18 111 ePg 08 17.78 -0.1  
 eSg 08 21.10  
 GRG 0.37 315 ePg 08 21.54 0.1  
 eSg 08 26.78  
 SOH 0.48 75 ePg 08 23.78 0.2  
 KNT 0.48 14 ePg 08 23.50 -0.1  
 eSg 08 30.66  
 SRS 0.77 56 ePg 08 28.86 0.0  
 eSg 08 39.82  
 S.D. = 0.2 on 5 of 5 obs.

& JAN 23, 1994 14h 17m 46.62s  
 62.631 N 149.895 W  
 DEPTH = 71.1km  
 CENTRAL ALASKA (1)  
 <AEIC>.

CUT 0.29 218 iPc 17 57.94 0.0  
 HUR 0.37 19 iPd 17 58.40 -0.2  
 eS 18 06.98  
 TRF 0.84 348 iPd 18 03.67 0.0  
 eS 18 16.15  
 RND 0.91 31 iPd 18 04.03 -0.4  
 GH0 0.97 152 iPc 18 05.21 0.0  
 PWA 0.98 180 iPc 18 05.10 -0.1  
 SKT 1.00 230 iPd 18 05.51 0.0  
 eS 18 19.72  
 PLRM 1.10 161 ePc 18 06.72 0.0  
 eS 18 23.54  
 PMR 1.10 161 ePc 18 06.47 -0.2  
 eS 18 22.64  
 SML 1.10 138 ePc 18 06.57 -0.2  
 eS 18 23.06  
 MCK 1.19 21 iPd 18 07.83 -0.1  
 eS 18 24.26  
 SUA 1.24 199 ePc 18 08.85 0.2  
 DHY 1.24 68 ePd 18 07.98 -0.7  
 eS 18 25.08  
 KNK 1.40 150 ePc 18 11.21 0.5  
 eS 18 30.70  
 PMS 1.40 173 eP 18 11.20 0.5

BWN 1.56 7 ePd 18 12.68 -0.1  
 NCG 1.63 222 eP 18 14.10 0.2  
 CGLM 1.66 218 eP 18 14.67 0.4  
 CRP 1.74 219 eP 18 15.42 0.0  
 eS 18 34.98  
 CP2 1.76 220 eP 18 16.03 0.2  
 eS 18 38.49  
 CFI 1.77 144 eP 18 15.94 0.3  
 SPU 1.78 216 eP 18 16.17 0.3  
 eS 18 40.16  
 CKN 1.78 218 eP 18 16.68 0.8  
 CKT 1.80 218 eP 18 16.71 0.5  
 BGL 1.81 222 eP 18 16.90 0.6  
 TOA 1.81 105 P 18 17.50 1.1  
 CKL 1.85 220 eP 18 17.56 0.7  
 BKG 1.93 217 eP 18 18.26 0.3  
 FWL 1.93 157 eP 18 18.02 0.1  
 NEA 1.99 10 eP 18 17.84 -0.9  
 NKA 2.00 199 eP 18 21.97 3.1  
 WRH 2.02 23 iPd 18 18.47 -0.6  
 THY 2.05 66 eP 18 20.53 1.0  
 PAX 2.06 79 ePd 18 19.78 0.0  
 eS 18 47.11  
 SLKM 2.14 184 eP 18 20.92 0.1  
 DDM 2.16 56 eP 18 21.76 0.6  
 MPA 2.16 173 eP 18 20.67 -0.4  
 TZL 2.17 104 eP 18 22.35 1.2  
 KLU 2.19 120 eP 18 21.21 -0.4  
 HDA 2.22 35 iPd 18 21.22 -0.6  
 eS 18 49.85  
 CCB 2.23 24 iPd 18 21.19 -0.8  
 VZW 2.24 133 eP 18 21.88 -0.3  
 VLZ 2.26 130 eP 18 21.72 -0.7  
 DJE 2.36 52 eP 18 23.59 -0.3  
 MLY 2.44 352 ePd 18 24.48 -0.5  
 eS 18 52.81  
 DFR 2.44 214 eP 18 25.37 0.3  
 MDM 2.45 17 iPd 18 24.48 -0.7  
 eS 18 52.92

FBA 2.46 21 ePd 18 24.32 -0.9  
 FID 2.49 138 eP 18 25.38 -0.3  
 KNIM 2.51 155 eP 18 23.21 -2.8  
 IL1 2.53 31 iPd 18 25.35 -0.9  
 ILB 2.53 31 iPd 18 25.33 -0.9  
 eS 18 51.74  
 NCT 2.53 216 eP 18 26.61 0.3  
 REF 2.53 213 eP 18 27.22 0.8  
 SEW 2.55 175 eP 18 26.86 0.5  
 RDW 2.57 214 eP 18 27.45 0.5  
 RS2 2.57 213 eP 18 27.86 0.9  
 GLM 2.61 24 iPd 18 26.72 -0.7  
 eS 18 56.66  
 HIN 2.77 143 eP 18 29.39 -0.2  
 TTA 2.83 279 eP 18 29.35 -1.1  
 DOT 2.84 66 eP 18 30.74 0.2  
 CVA 2.88 135 eP 18 32.58 1.5  
 ILIM 2.95 211 eP 18 32.56 0.4  
 INE 3.00 212 P 18 35.20 2.3  
 GLB 3.11 110 eP 18 33.60 -0.7  
 SVV 3.11 243 (P) 18 33.08 -1.3  
 CNPM 3.18 192 eP 18 35.68 0.3  
 TMW 3.23 74 eP 18 36.75 0.8  
 OPT 3.40 210 eP 18 40.09 1.7  
 PDB 3.53 218 eP 18 40.60 0.4  
 AUL 3.69 209 P 18 44.70 2.3  
 AUE 3.69 209 P 18 43.70 1.3  
 AUP 3.70 209 eP 18 44.07 1.4  
 AGU 3.71 209 P 18 44.70 2.0  
 AUH 3.71 209 P 18 44.90 2.2  
 AUW 3.71 210 eP 18 43.95 1.3  
 BC3 3.74 80 eP 18 42.41 -0.8  
 IM3 3.76 335 eP 18 42.61 -0.8  
 IMA 3.82 336 eP 18 43.77 -0.6  
 TGL 3.86 116 eP 18 44.24 -0.6  
 BALM 3.92 111 eP 18 44.50 -1.3  
 CDD 4.14 208 eP 18 48.81 0.0  
 SYI 4.22 198 eP 18 49.44 -0.4  
 CTGM 4.39 109 eP 18 51.53 -0.9  
 FYU 4.43 25 eP 18 51.80 -1.0  
 BM3 5.30 23 eP 19 03.19 -1.9  
 86 obs. associated

? JAN 23, 1994 14h 20m 24.07± 5.98s  
 36.467 N ±52.4km 2.804 W ±11.7km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)

ENIJ 0.70 43 iPc 20 37.44 -0.4  
 eS 20 46.80  
 EGUA 0.71 301 eP 20 36.97 -1.2  
 eS 20 46.00  
 ECOG 1.01 323 iPc 20 42.17 -1.2  
 eS 20 52.20  
 ELOJ 1.28 303 eP 20 49.00 1.2  
 eS 21 03.00  
 EHUE 1.36 7 eP 20 49.24 0.2  
 eS 21 05.70  
 ELUQ 1.60 313 eP 20 55.50 3.0X  
 eS 21 14.50  
 EBAN 1.87 335 eP 20 57.45 1.1  
 eS 21 20.00  
 EVIA 2.18 6 eP 21 03.21 2.2X  
 eS 21 28.50  
 EHOR 2.38 305 eP 21 07.79 4.1X  
 eS 21 35.80  
 S.D. = 1.3 on 6 of 9 obs.

& JAN 23, 1994 14h 30m 07.42s  
 34.335 N 118.629 W  
 DEPTH = 10.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

ABL 0.71 317 eP 30 20.31 -1.2  
 SSK 0.78 99 eP 30 21.74 -1.1  
 PEC 1.30 110 eP 30 29.05 -2.4  
 eS 30 47.28  
 ISA 1.33 5 eP 30 31.05 -0.9  
 BCH 1.47 306 eP 30 33.02 -1.0  
 PLM 1.77 123 eP 30 36.46 -1.9  
 eS 31 01.74  
 GSC 1.78 57 eP 30 37.39 -1.2  
 TPNV 3.25 36 ePn 30 58.79 -0.8  
 MEMM 3.33 356 ePg 31 07.43 6.9  
 9 obs. associated

& JAN 23, 1994 14h 52m 37.52s  
 34.280 N 118.524 W  
 DEPTH = 8.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.5 (GS).  
 Double event.

SSK 0.69 96 iPc 52 50.37 -1.1  
 eS 53 00.67  
 ABL 0.81 315 eP 52 52.17 -1.3  
 PEC 1.20 109 ePc 52 58.44 -1.6  
 eS 53 14.88  
 ISA 1.38 2 eP 53 01.85 -1.2  
 BCH 1.57 306 eP 53 05.51 -0.3  
 PLM 1.66 123 eP 53 05.61 -1.6  
 GSC 1.74 54 eP 53 06.90 -1.4  
 MTUM 3.07 359 ePg 53 32.83 5.5  
 TPNV 3.24 34 ePn 53 28.34 -1.5  
 GLA 3.32 111 (Pn) 53 31.11 0.3  
 MMPM 3.35 353 ePg 53 36.75 5.3  
 MRCM 3.38 0 eP 53 38.43 6.6  
 MEMM 3.40 354 ePg 53 38.92 7.1  
 BONR 3.67 3 ePg 53 44.05 8.0  
 COE 3.92 320 ePn 53 39.59 0.3  
 TNP 3.94 15 (P) 53 51.38 11.7  
 16 obs. associated

\* JAN 23, 1994 15h 05m 35.33± 1.71s  
 9.858 N ±19.0km 61.972 W ±13.8km  
 DEPTH = 33.0km (normal)  
 NEAR COAST OF VENEZUELA (97)  
 MD 3.8 (TRN).

TPP 0.69 48 eP 05 48.95 0.4  
 TCE 0.86 14 eP 05 51.01 -0.1  
 TRN 0.96 35 eP 05 51.89 -0.6  
 SVB 3.47 12 eP 06 28.61 0.3  
 eS 07 13.40  
 SVV 3.52 12 eP 06 28.71 -0.3  
 eS 07 13.90  
 SLB 4.05 13 eP 06 37.00 0.4  
 CEOS 6.33 263 eP 07 08.90 0.0  
 iS 08 24.20  
 S.D. = 0.5 on 7 of 7 obs.

JAN 23, 1994 15h 24m 58.59± 0.86s  
 45.110 N ± 8.9km 10.767 E ± 7.2km  
 DEPTH = 10.0km (geophysicist)



23d 15h

NORTHERN ITALY (545)  
MD 3.1 (TRI). ML 3.2 (VIE).

OSS	1.64	345	eP	25	08.30	0.6
VDL	1.65	327	eP	25	50	1.7
TMA	1.66	308	eP	25	30	0.3
PCP	1.68	251	P	25	33	3.1X
OGA	1.77	6	iPnc	25	4.50	-0.1
ORX	2.03	286	P	25	37.52	-0.8
FIN	2.04	245	P	25	63	1.3
SQTA	2.13	8	iPnd	25	60	-0.2
			iPg	25	10	
			iSg	26	03.20	
LLS	2.15	326	eP	25	35.80	0.7
TRI	2.19	73	ePn	25	32.70	-2.9X
			e	25	37.60	
			eSn	25	58.60	
			eSg	26	04.30	
ROB	2.22	249	P	25	37.60	1.5
WTTA	2.24	15	iPnd	25	35.60	-0.8
			iPg	25	37.70	
			iSg	26	06.10	
WATA	2.30	14	iPnd	25	36.50	-0.7
			iPg	25	39.90	
			iSg	26	09.00	
VOY	2.38	66	e(Pn)	25	41.00	2.6
			eSn	26	10.20	
IMI	2.38	241	P	25	39.11	0.7
RSP	2.48	272	P	25	37.83	-2.0
BHB	2.50	265	P	25	38.75	-1.2
RIY	2.57	83	e(Pn)	25	44.20	3.3X
			iSn	26	15.60	
LSD	2.57	279	P	25	40.21	-1.0
KBA	2.66	41	iPg	25	45.80	3.3X
			iSg	26	19.10	
PZZ	2.68	258	P	25	42.32	-0.3
LJU	2.80	69	e(Pn)	25	47.90	3.6X
			eSn	26	23.00	
BHG	2.99	28	iPc	25	52.00	5.1X
VBY	3.19	81	ePn	25	47.40	-2.4
			eSn	26	23.90	

S.D. = 1.4 on 18 of 24 obs.

JAN 23, 1994 15h 34m 53.02±1.29s  
40.533 N ± 5.7km 23.703 E ± 11.2km  
DEPTH = 5.0km (geophysicist)GREECE (364)  
ML 2.2 (THE).

SOH	0.39	317	ePg	35	01.90	1.0
THE	0.57	280	ePg	35	05.16	0.7
			iSg	35	12.69	
SRS	0.59	352	ePg	35	04.80	0.0
			eSg	35	13.50	
PAIG	0.61	182	iPg	35	05.42	0.3
KNT	0.88	316	ePg	35	09.44	-0.9
			eSg	35	22.60	
LIT	1.02	245	ePg	35	12.32	-0.5
			iSg	35	26.26	
GRG	1.08	294	ePg	35	13.20	-0.6
VAY	1.16	313	ePn	35	17.00	1.8X

S.D. = 0.9 on 7 of 8 obs.

JAN 23, 1994 15h 59m 04.20s  
34.259 N 118.609 W  
DEPTH = 1.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.3 (GS).

SSK	0.76	93	iPc	59	18.39	-1.0
			eS	59	28.93	
ABL	0.78	320	eP	59	18.91	-0.8
PEC	1.26	107	eP	59	26.35	-2.0
ISA	1.41	5	eP	59	29.57	-1.3
BCH	1.53	308	eP	59	31.08	-1.6
PLM	1.71	121	eP	59	32.18	-3.3
GSC	1.81	54	eP	59	35.31	-1.5
PHAM	2.15	317	eP	59	39.87	-1.8
MTUM	3.09	1	ePg	00	00.21	5.1
TPNV	3.30	35	ePn	59	56.83	-1.3
MRCM	3.41	1	ePg	00	06.35	6.6
MEMM	3.41	356	ePg	00	07.19	7.6
BONR	3.70	4	ePg	00	14.15	10.2
COE	3.89	321	ePn	00	05.00	-1.5

14 obs. associated

JAN 23, 1994 16h 10m 20.72±0.94s

40.048 N ± 7.9km 0.662 W ± 9.2km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)  
mbLg 2.6 (MDD).

ECHE	0.51	207	eP	10	30.80	-0.4
			eS	10	37.60	
EROQ	1.13	46	iPc	10	41.79	0.0
			eS	10	55.50	
ETOR	1.31	306	eP	10	45.22	0.2
			eS	11	03.80	
EVIA	2.00	226	eP	10	55.72	0.6
			eS	11	21.10	
GUD	2.73	284	eP	11	05.17	-0.4
			eS	11	37.00	

S.D. = 0.6 on 5 of 5 obs.

JAN 23, 1994 16h 53m 53.93±0.15s  
21.420 N ± 3.4km 143.123 E ± 3.5km  
DEPTH = 315.3km (8 depth phases)  
4.7mb (44 obs.)

MARIANA ISLANDS REGION (215)

GUMO	7.96	168	eP	55	52.00	4.1X
	0.9s	1215.70nm				6.0mb X
PJG	7.96	168	eP	55	52.30	4.3X
GUA	8.02	167	eP	55	52.70	4.0X
	0.8s	525.37nm				5.6mb
		e	55	54.30		
SSE	21.87	301	iPc	58	22.50	0.0
	1.5s	290.00nm				5.4mb
Z	16s	0.90um				4.3mszX
E	10s	0.40um				
		S	01	52.00		
		sS	02	04.00		
NJ2	24.07	301	Pc	58	44.00	0.9
	1.0s	49.00nm				4.9mb
Z	20s	0.59um				4.1msz
DL2	25.37	318	eP	58	57.00	2.1
	1.0s	100.00nm				5.2mb
MDJ	25.69	337	Pc	58	58.20	0.5
	1.0s	19.00nm				4.4mb
SNY	26.17	325	eP	59	01.30	-0.7
CN2	26.72	331	eP	59	08.50	1.6
TIA	27.02	309	eP	59	09.60	-0.2
WHN	27.35	295	Pd	59	17.50	4.7X
	1.0s	30.00nm				4.7mb
BJI	29.50	315	eP	59	31.00	-0.6
	0.6s	3.00nm				3.9mb
		eS	01	09.00		
		eS	03	58.00		
TIY	31.06	308	eP	59	45.00	-0.3
	Z	20s	0.50um			4.2msz
		S	04	32.00		
XAN	32.62	300	P	59	58.20	-0.7
HHC	32.98	313	eP	00	01.50	-0.4
GYA	33.62	286	iPc	00	08.20	0.7
BTO	33.93	312	eP	00	10.20	0.2
CD2	36.42	293	eP	00	31.10	0.3
LZH	37.14	302	eP	00	37.50	0.5
	1.5s	29.00nm				4.5mb
KNA	39.53	202	eP	00	57.00	0.5
GTA	40.99	306	eP	01	08.50	0.0
	1.0s	5.00nm				3.7mb X
		pP	02	15.00		332kmX
		sP	02	50.00		
		pP	03	02.00		
		ScP	06	21.00		
		PcS	06	54.00		
		ScS	10	35.00		
NST	41.06	270	eP	01	11.20	2.1X
CHTO	41.47	275	eP	01	13.70	1.3
YAK	41.61	351	eP	01	12.00	-1.0
	1.0s	75.00nm				4.9mb
BDT	41.74	272	eP	01	14.30	-0.3
QIS	41.86	185	eP	01	16.20	0.7
WB2	41.99	192	iPd	01	16.90	0.3
	0.4s	103.50nm				5.4mb
		eScP	07	04.70		
		eS	07	08.50		
BOD	42.03	337	eP	01	15.70	-0.8
	0.9s	9.00nm				4.0mb
ZAK	42.53	323	eP	01	20.50	-0.1
	1.7s	24.00nm				4.1mb
ADK	43.44	36	eP	01	27.82	0.0
	0.9s	39.06nm				4.7mb
IPM	44.11	254	ePc	01	35.70	2.0

ASPA	1.1s	91.90nm				5.0mb
	45.71	192	iPc	01	45.70	-0.4
	0.4s	18.30nm				4.7mb
		eS	08	03.70		
SHL	46.94	285	eP	01	56.50	0.5
		eS	08	20.50		
LSA	47.28	291	P	02	01.10	2.2
	0.7s	6.00nm				4.0mb
MBL	48.05	210	eP	02	04.00	-0.1
	0.6s	13.00nm				4.4mb
UER	48.32	321	eP	02	05.80	-0.1
DZM	48.85	151	iPc	02	10.40	0.0
WARB	49.95	199	eP	02	19.00	0.4
	0.5s	20.00nm				4.7mb
WMQ	50.71	310	P	02	25.00	0.7
	1.0s	7.70nm				4.0mb
		pP	03	28.20		297kmX
		S	09	13.00		
ARMA	52.19	171	eP	02	35.30	0.1
	0.3s	2.00nm				4.0mb
STK	53.02	182	ePn	02	40.60	-0.6
	0.6s	13.50nm				4.5mb
		eS	09	41.30		
SDN	53.65	36	eP	02	44.09	-1.5
	0.5s	50.42nm				5.2mb
FORT	53.88	196	eP	02	46.70	-0.7
NVS	55.49	323	iP	02	57.00	-1.8
	1.0s	16.00nm				4.4mb
		e	03	52.80		252kmX
BWA	55.76	175	eP	03	00.50	-0.4
COOL	56.12	203	eP	03	02.00	-1.5
	0.7s	11.00nm				4.4mb
CAN	56.70	174	iPd	03	06.30	-1.1
MRWA	56.73	208	eP	03	06.80	-0.9
	0.5s	7.00nm				4.3mb
BAL	57.62	207	eP	03	13.20	-0.7
	0.4s	12.00nm				4.7mb
SVW	57.66	30	iPc	03	13.58	-0.3
	0.6s	43.28nm				5.1mb
TTA	57.97	28	eP	03	15.11	-0.9
	1.3s	26.71nm				4.6mb
KLB	58.05	206	eP	03	16.00	-0.8
AUP	58.33	33	(P)	03	13.87	-4.7X
KDC	58.50	35	eP	03	18.30	-1.3
TOO	58.72	178	iPc	03	21.90	0.6
	0.6s	21.00nm				4.8mb
MUN	59.02	207	eP	03	22.60	-0.8
NWAO	59.43	205	eP	03	25.80	-0.4
IMA	59.81	25	eP	03	27.93	-0.7
	0.8s	13.37nm				4.5mb
SLKM	60.12	32	eP	03	28.77	-1.9
BRW	60.44	19	eP	03	32.40	-0.2
HYB	60.66	278	eP	03	34.50	-0.4
PMR	60.82	30	eP	03	33.60	-1.6
	0.5s	35.30nm				5.1mb
RKG	60.96	205	eP	03	36.80	0.3
FBA	61.95	27	eP	03	40.70	-2.0
	0.6s	24.34nm				5.0mb
TOA	62.28	30	eP	03	44.30	-0.7
KLU	62.33	31	ePc	03	44.36	-1.0
GBA	62.75	275	P	03	47.00	-1.7
BALM	64.02	31	ePc	03	55.13	-1.2
POO	64.69	281	eP	04	05.00	3.8X
ARU	69.44	324	eP	04	29.00	-1.0
MAIO	72.69	303	iPd	04	51.00	1.2
STW	76.42	43	P	05	11.34	0.8
YKA	76.73					



DPW 79.99 43 eP 05 30.06 0.2  
 NTYM 80.17 53 eP 05 31.42 0.5  
 NEW 80.53 42 iPd 05 32.83 0.2  
 0.5s 20.97nm 5.2mb  
 ORV 80.63 51 ePc 05 33.25 -0.1  
 COE 81.29 54 eP 05 37.61 0.8  
 OBN 81.67 326 iPc 05 38.00 -0.4  
 1.0s 46.00nm 5.3mb  
 CMB 81.98 52 ePc 05 40.68 0.3  
 0.6s 22.62nm 5.2mb  
 PHAM 82.75 54 eP 05 45.09 0.7  
 KVN 83.28 51 eP 05 47.50 0.3  
 BONR 83.54 52 eP 05 48.94 0.3  
 TNP 84.28 51 ePc 05 52.64 0.4  
 0.8s 11.99nm 4.8mb  
 LRM 84.42 43 iPc 05 53.00 0.2  
 e 06 55.80 262kmX  
 TPNV 85.43 52 eP 05 58.06 0.1  
 0.6s 13.27nm 5.0mb  
 HVU 85.92 47 eP 06 00.90 0.7  
 PEC 85.95 55 iPc 06 00.16 -0.1  
 0.9s 25.11nm 5.1mb  
 DUG 86.56 48 iPc 06 03.50 0.2  
 0.6s 12.64nm 5.0mb  
 ARUT 87.13 50 eP 06 06.63 0.5  
 pP 07 22.80 323km  
 DAU 87.54 47 eP 06 07.98 -0.2  
 BW06 87.63 45 eP 06 07.96 -0.5  
 MSU 87.73 49 ePc 06 09.39 0.4  
 pP 07 23.38 312km  
 GLA 88.07 55 iPc 06 11.15 0.6  
 SRU 88.62 48 iPc 06 13.08 -0.1  
 HFS 88.96 337 eP 06 12.10 -2.0  
 0.4s 5.70nm 4.9mb  
 NB2 89.18 339 P 06 14.20 -1.0  
 0.5s 1.70nm 4.2mb  
 PV09 89.87 48 eP 06 19.35 0.2  
 pP 07 35.16 319km  
 PV10 89.99 48 iPc 06 19.75 0.1  
 PV08 90.17 48 eP 06 20.69 0.1  
 TUC 91.47 54 eP 06 28.02 1.7  
 1.3s 10.46nm 4.6mb  
 GLD 91.94 46 eP 06 29.44 1.0  
 pP 07 44.30 314km  
 GEC2 96.79 329 P 06 49.10 -1.2  
 0.6s 0.81nm 4.1mb  
 LTX 98.26 54 (P) 06 59.34 2.0  
 LKO 136.52 312 PKP 12 20.23 -20.8X  
 0.4s 0.50nm  
 KIC 138.09 308 PKP 12 28.97 -15.0X  
 0.4s 0.50nm  
 LIC 138.40 308 PKP 12 27.45 -17.1X  
 0.5s 1.00nm  
 RTCB 149.81 116 iPKPc 13 09.00 5.6X  
 LPAZ 150.02 86 iPKPc 13 05.20 0.5  
 i 14 30.00  
 LPB 150.11 86 PKP 13 01.30 -3.3X  
 i 13 12.90  
 RTLL 150.12 116 iPKPc 13 09.00 5.2X  
 CCH 152.13 87 PKP 13 15.50 8.0X  
 MOCB 153.22 95 PKP 13 09.20 0.1  
 SIV 156.47 81 PKP 13 13.40 0.4  
 S.D. = 0.9 on 117 of 131 obs.  
 % JAN 23, 1994 17h 23m 35.42± 0.73s  
 40.667 N ± 6.0km 23.135 E ± 5.4km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 2.0 (THE).  
 THE 0.13 255 ePg 23 38.24 0.1  
 eSg 23 40.48  
 SOH 0.23 47 ePg 23 40.56 0.5  
 KNT 0.53 340 iPg 23 45.64 -0.3  
 eSg 23 53.88  
 SRS 0.57 37 ePg 23 46.52 -0.3  
 eSg 23 55.10  
 GRG 0.63 298 ePg 23 48.20 0.2  
 PAIG 0.85 150 ePg 23 52.08 -0.2  
 S.D. = 0.4 on 6 of 6 obs.  
 ? JAN 23, 1994 19h 34m 52.23± 1.35s  
 31.492 S ± 26.3km 68.872 W ± 42.4km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.06 85 iPd 35 06.50 -0.2  
 S 35 18.00  
 RTLL 0.38 65 iPd 35 07.50 0.0  
 S 35 19.50  
 RTCV 0.47 142 iPd 35 08.20 0.1  
 S 35 21.00  
 RTRS 1.41 339 iPd 35 17.80 0.1  
 S 35 38.00  
 S.D. = 0.3 on 4 of 4 obs.  
 ? JAN 23, 1994 20h 17m 54.82± 1.73s  
 31.307 S ± 28.2km 69.123 W ± 42.2km  
 DEPTH = 120.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)  
 RTCB 0.33 123 ePd 18 12.20 -0.3  
 S 18 25.00  
 RTLL 0.56 93 ePd 18 13.00 -0.5  
 S 18 27.00  
 RTCV 0.75 138 eP 18 15.00 0.1  
 S 18 31.00  
 CFA 0.81 112 ePc 18 15.90 0.5  
 S 18 31.20  
 RTRS 1.17 346 eP 18 19.00 0.2  
 S 18 36.50  
 S.D. = 0.5 on 5 of 5 obs.  
 & JAN 23, 1994 20h 29m 47.60s  
 40.309 N 124.471 W  
 DEPTH = 7.8km  
 NEAR COAST OF NORTHERN CALIF. (35)  
 <GM-P>. MD 2.9 (GM).  
 KMPM 0.29 68 ePc 29 54.07 0.5  
 FHC 0.62 37 eP 30 00.23 0.3  
 LGPM 1.39 64 eP 30 11.51 -1.9  
 WDC 1.50 79 eP 30 12.50 -2.3  
 LBFM 2.22 61 eP 30 24.35 -1.1  
 ORV 2.41 107 eP 30 25.81 -2.1  
 6 obs. associated  
 JAN 23, 1994 21h 12m 47.51± 0.60s  
 40.401 N ± 4.5km 19.680 E ± 5.9km  
 DEPTH = 10.0km (geophysicist)  
 ALBANIA (391)  
 MD 3.1 (ATH).  
 VLO 0.16 296 iPg 12 50.70 -0.4  
 iSg 12 52.70  
 SRN 0.58 155 ePg 12 59.70 0.5  
 iSg 13 08.20  
 KEK 0.69 172 ePb 13 00.90 -0.3  
 LSK 0.75 109 ePg 13 01.10 -1.1  
 KBN 0.87 75 ePg 13 04.00 -0.3  
 TIR 0.96 8 iPg 13 07.20 1.5  
 iSg 13 22.50  
 OHR 1.11 50 iPn 13 08.20 -0.1  
 i 13 26.00  
 i 13 28.00  
 LACI 1.23 1 ePn 13 09.50 -0.9  
 KZN 1.60 93 ePb 13 16.90 0.9  
 SKO 2.06 40 ePn 13 22.80 0.3  
 VLS 2.33 162 ePn 13 27.00 0.5  
 VAY 2.38 66 iPn 13 26.60 -0.5  
 S.D. = 0.8 on 12 of 12 obs.  
 % JAN 23, 1994 21h 22m 44.37± 0.56s  
 27.843 S ± 5.4km 26.660 E ± 5.8km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.3 (PRE).  
 BFS 0.95 7 eP 23 03.00 0.0  
 S 23 15.30  
 SEK 0.98 120 iPc 23 03.40 -0.1  
 S 23 15.70  
 PRY 1.16 39 eP 23 06.90 0.2  
 S 23 22.50  
 BLF 1.33 198 iPd 23 10.00 0.5  
 S 23 27.00  
 SWZ 1.36 299 eP 23 10.80 0.8  
 S 23 29.00  
 KSR 1.98 6 eP 23 19.00 -0.1  
 S 23 47.00  
 SLR 2.55 35 iPc 23 27.50 0.3  
 S 23 56.10  
 NWL 2.92 88 eP 23 33.30 0.8

S 24 02.30  
 BFT 3.71 55 eP 23 42.50 -1.3  
 S 24 30.00  
 PKA 3.88 241 eP 23 45.00 -1.1  
 S 24 32.80  
 GRM 5.45 181 eP 24 23.50 15.2X  
 S 25 19.00  
 POF 6.09 254 eP 24 46.50 29.2X  
 S 25 49.00  
 SUR 6.79 227 eP 23 49.00 -38.3X  
 S 25 16.00  
 CER 8.40 227 eP 25 16.50 26.8X  
 S 26 33.00  
 S.D. = 0.8 on 10 of 14 obs.  
 \* JAN 23, 1994 21h 32m 07.78± 0.50s  
 11.899 N ± 11.9km 43.713 W ± 9.2km  
 DEPTH = 10.0km (geophysicist)  
 4.5mb (6 obs.)  
 NORTHERN MID-ATLANTIC RIDGE (403)  
 LPAZ 36.98 221 P 39 19.30 -0.8  
 LPB 37.14 221 P 39 23.00 1.8  
 LKO 37.51 90 P 39 24.40 0.4  
 1.0s 8.00nm 4.4mb  
 LIC 38.59 95 P 39 32.59 -0.4  
 1.2s 24.00nm 4.8mb  
 KIC 38.84 95 P 39 34.85 -0.3  
 1.3s 51.50nm 5.1mb  
 MOCB 39.36 213 P 39 39.10 -0.7  
 UYO 51.09 304 iPc 41 13.60 0.8  
 MEO 54.56 304 iPd 41 38.40 -0.2  
 ACO 55.37 306 iPd 41 44.60 0.0  
 GRC1 58.55 39 eP 42 08.50 1.6  
 1.0s 6.00nm 4.6mb  
 GEC2 59.87 40 P 42 15.80 -0.3  
 0.8s 0.62nm 3.8mb  
 e 42 18.90  
 e 42 31.70  
 ZST 61.86 41 eP 42 29.30 -0.3  
 YKA 70.72 332 P 43 24.20 -1.5  
 0.9s 1.10nm 4.0mb  
 S.D. = 1.0 on 13 of 13 obs.  
 % JAN 23, 1994 21h 37m 33.80± 0.89s  
 40.610 N ± 8.9km 28.725 E ± 5.9km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).  
 YLV 0.50 95 ePg 37 44.10 0.4  
 ISK 0.52 29 iPg 37 44.80 0.6  
 iSg 37 51.80  
 IZI 0.63 115 ePg 37 46.70 0.2  
 eSg 37 54.90  
 EDC 0.71 248 iPg 37 48.00 0.0  
 eSg 37 58.00  
 HRT 0.75 73 ePg 37 48.50 -0.2  
 S.D. = 0.4 on 5 of 5 obs.  
 & JAN 23, 1994 21h 38m 47.72s  
 61.127 N 152.239 W  
 DEPTH = 117.1km  
 SOUTHERN ALASKA (2)  
 <AEIC>.  
 BKG 0.06 191 iP 39 03.13 0.7  
 eS 39 15.78  
 CKT 0.08 12 eP 39 03.27 0.8  
 eS 39 16.12  
 CKL 0.08 326 eP 39 03.60 1.1  
 CKN 0.10 16 eP 39 03.51 1.1  
 SPV 0.11 58 iP 39 03.24 0.8  
 eS 39 16.00  
 CP2 0.14 359 eP 39 03.41 0.7  
 CRP 0.15 16 eP 39 02.93 0.3  
 BGL 0.16 332 eP 39 03.65 1.1  
 CGLM 0.21 32 eP 39 03.42 0.7  
 NCG 0.28 8 iP 39 03.80 0.8  
 DFR 0.58 202 eP 39 05.29 -1.0  
 eS 39 19.24  
 NKA 0.62 128 eP 39 07.70 1.3  
 NCT 0.66 211 iP 39 06.08 -0.8  
 eS 39 20.62  
 REF 0.68 200 eP 39 06.37 -0.7  
 RDW 0.70 204 eP 39 06.58 -0.7  
 RS2 0.71 201 eP 39 06.83 -0.6



23d 21h

RSO	0.71	201	eP	39	06.93	-0.5
RED	0.76	200	eP	39	06.69	-0.9
SUA	0.80	64	iP	39	07.71	-0.3
			eS	39	23.05	
SKT	0.92	21	iP	39	08.18	-0.9
ILIM	1.11	199	eP	39	09.94	-1.1
INE	1.14	201	eP	39	10.17	-1.3
SLKM	1.17	121	eP	39	11.13	-0.5
PWA	1.25	64	P	39	12.10	-0.3
HOM	1.50	168	eP	39	14.51	-0.8
MPA	1.55	113	eP	39	15.39	-0.5
			S	39	36.12	
OPT	1.56	199	eP	39	15.44	-0.6
			S	39	35.93	
PLRM	1.57	71	eP	39	14.44	-1.7
PMR	1.57	71	eP	39	14.40	-1.7
			eS	39	35.97	
CUT	1.59	35	eP	39	15.61	-0.7
PDB	1.66	217	iP	39	16.20	-1.0
CNPM	1.68	162	eP	39	16.91	-0.7
SEW	1.72	126	eP	39	16.90	-1.0
GHO	1.72	66	eP	39	16.73	-1.3
			eS	39	39.88	
AUL	1.85	199	eP	39	19.40	-0.2
KNK	1.85	79	eP	39	18.23	-1.4
AUE	1.86	198	eP	39	18.99	-0.7
AUW	1.87	200	eP	39	19.09	-0.7
AUH	1.87	199	eP	39	19.93	0.0
PWL	1.92	96	iP	39	18.88	-1.7
SML	2.00	68	eP	39	19.50	-2.0
CFI	2.17	87	eP	39	21.96	-1.7
CDD	2.31	198	eP	39	24.42	-1.2
TRF	2.50	21	eP	39	26.37	-1.8
KTH	2.51	14	eP	39	26.37	-1.8
SYI	2.53	182	eP	39	27.12	-1.2
MTU	2.54	115	eP	39	26.96	-1.5
VZW	2.76	89	eP	39	29.23	-2.3
RND	2.78	33	eP	39	30.13	-1.6
FID	2.84	95	eP	39	29.28	-3.2
VLZ	2.87	87	eP	39	30.69	-2.1
			eS	40	05.81	
DHY	3.01	47	eP	39	32.87	-2.0
TOA	3.06	69	eP	39	32.45	-3.0
KLU	3.07	80	eP	39	33.64	-2.0
GLB	4.08	82	eP	39	46.73	-2.5
HDA	4.09	34	eP	39	47.15	-2.2
FBA	4.29	26	eP	39	49.19	-2.9
ILB	4.40	31	eP	39	50.91	-2.6
IL1	4.40	31	eP	39	51.08	-2.4
TGL	4.60	91	eP	39	53.93	-2.5
BALM	4.81	87	eP	39	57.09	-2.1
IM3	4.92	353	eP	39	57.77	-2.9
BC3	5.28	64	eP	40	03.73	-1.9
63 obs. associated						
* JAN 23, 1994 21h 56m 32.31± 0.97s						
40.593 N ±10.1km 28.706 E ± 6.6km						
DEPTH = 5.0km (geophysicist)						
TURKEY (366)						
ML 2.5 (ISK).						
YLV	0.51	93	iP	56	42.60	0.1
			eSg	56	49.60	
ISK	0.54	29	eP	56	43.80	0.6
			eSg	56	50.80	
IZI	0.64	113	eP	56	45.70	0.6
			eSg	56	54.60	
EDC	0.69	249	eP	56	46.00	-0.1
			eSg	56	56.00	
HRT	0.77	72	eP	56	46.50	-1.2
			eSg	56	58.00	
S.D. = 1.1 on 5 of 5 obs.						
* JAN 23, 1994 22h 51m 05.26± 0.51s						
2.643 N ± 7.8km 128.838 E ±19.5km						
DEPTH = 140.0km (geophysicist)						
4.7mb ( 4 obs.)						
HALMAHERA, INDONESIA (267)						
KNA	18.28	180	iPd	55	11.80	0.8
ASPA	26.61	170	iPd	56	32.20	-0.3
	0.6s	12.30nm			4.7mb	
			iPcP	59	51.10	
			iS	00	48.30	
CHTO	33.38	301	eP	57	32.00	-0.5
MAT	34.82	13	eP	57	44.00	-0.6
XAN	36.35	331	P	57	57.20	-0.3

STK	36.41	162	eP	57	57.60	-0.3
	0.3s	5.70nm			4.8mb	
TIY	38.01	339	eP	58	11.80	0.4
			S	04	15.00	
BJI	38.96	344	eP	58	19.00	-0.1
			eS	03	58.00	
			ess	04	38.00	
			e	05	52.00	
SNY	39.30	354	Pd	58	22.60	0.7
LZH	40.51	328	eP	58	33.00	0.8
	1.2s	20.00nm			4.7mb	
			pP	58	37.00	14kmX
HHC	41.11	340	P	58	37.60	0.6
	1.0s	11.00nm			4.5mb	
WMQ	54.82	324	P	00	22.00	-1.1
S.D. = 0.7 on 12 of 12 obs.						
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& JAN 23, 1994 23h 37m 22.95s						
34.297 N 118.424 W						
DEPTH = 6.7km						
SOUTHERN CALIFORNIA ( 43)						
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).						
SSK	0.61	98	eP	37	34.44	-0.8
			eS	37	43.66	
ABL	0.86	310	eP	37	37.91	-2.0
PEC	1.12	111	eP	37	42.96	-1.4
			eS	37	58.38	
ISA	1.36	358	eP	37	47.27	-1.2
			eS	38	06.27	
PLM	1.61	125	eP	37	49.95	-2.1
BCH	1.63	303	eP	37	50.63	-1.6
GSC	1.67	53	(P)	37	51.93	-0.9
			eS	38	14.96	
MTUM	3.05	358	ePg	38	18.27	5.5
TPNV	3.18	33	(Pn)	38	11.18	-3.4
MMPM	3.34	352	ePg	38	22.09	5.1
MEMM	3.39	353	ePg	38	24.34	7.0
BONR	3.65	2	ePg	38	29.48	8.1
12 obs. associated						
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? JAN 24, 1994 00h 01m 04.17± 2.73s						
22.907 S ±35.2km 66.259 W ±23.8km						
DEPTH = 243.2 ± 16.9 km						
3.6mb ( 1 obs.)						
JUJUY PROVINCE, ARGENTINA (128)						
MOCB	1.75	19	P	01	44.90	0.2
CCH	5.50	1	Pd	02	26.00	-0.8
			e	03	22.00	
LPB	6.57	344	iPc	02	41.40	0.9
LPZ	6.82	345	iPc	02	43.90	0.2
ARE	8.08	322	iPc	02	59.00	-0.6
			iS	04	25.00	
VAO2	18.15	95	eP	05	01.10	-0.1
YKA	93.34	340	P	13	52.20	0.2
	0.5s	0.30nm			3.6mb	
S.D. = 0.8 on 7 of 7 obs.						
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JAN 24, 1994 00h 01m 34.94± 0.55s						
34.107 N ± 7.2km 34.640 E ± 9.2km						
DEPTH = 10.0km (geophysicist)						
CYPRUS REGION (372)						
ML 3.4 (BHL).						
BHL	0.87	103	Pg	01	51.00	-0.7
			Sg	02	03.00	
FAM	1.03	329	eP	01	55.50	1.1
			eS	02	09.50	
CSS	1.38	309	eP	01	59.00	-1.2
			eS	02	16.00	
SHMJ	1.67	145	Pc	02	04.99	0.7
JARJ	2.16	149	Pc	02	11.93	0.4
SALJ	2.27	157	Pc	02	13.06	0.0
KFNJ	2.40	158	Pc	02	15.10	0.2
MASJ	2.54	159	Pc	02	16.69	-0.2
MKRJ	2.68	161	Pc	02	18.68	-0.3
MDSJ	2.82	151	Pc	02	20.60	-0.3
LISJ	2.95	166	Pc	02	22.74	0.2
QTFJ	3.30	133	Pc	02	27.94	0.2
S.D. = 0.7 on 12 of 12 obs.						
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JAN 24, 1994 00h 31m 57.03± 0.35s						
44.556 N ± 2.7km 7.302 E ± 3.6km						
DEPTH = 10.0km (geophysicist)						
NORTHERN ITALY (545)						
ML 2.3 (GEN).						

PZZ	0.15	251	P	32	00.41	-0.3
			S	32	02.38	
BHB	0.29	354	P	32	03.80	0.7
			S	32	08.10	
STV	0.31	177	P	32	03.98	0.4
			S	32	08.42	
ENR	0.34	166	P	32	04.02	-0.1
			S	32	08.42	
ROB	0.48	122	P	32	06.86	0.0
			S	32	13.68	
RRL	0.52	315	P	32	07.36	-0.2
			S	32	14.82	
AUTN	0.57	171	Pg	32	08.41	-0.3
			Sg	32	16.84	
RSP	0.60	357	P	32	08.83	-0.3
			S	32	17.57	
SAOF	0.60	162	Pg	32	08.95	-0.2
AURF	0.67	178	Pg	32	10.35	0.0
MVIF	0.67	189	Pg	32	10.37	-0.1
			Sg	32	19.67	
FIN	0.74	118	P	32	11.35	-0.2
IMI	0.77	147	P	32	12.40	0.3
			S	32	22.74	
CALN	0.86	200	Pg	32	14.06	0.4
PCP	0.89	90	P	32	13.96	-0.2
S.D. = 0.3 on 15 of 15 obs.						
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? JAN 24, 1994 00h 55m 29.09± 1.59s						
13.385 N ± 8.7km 120.739 E ±36.7km						
DEPTH = 33.0km (normal)						
4.6mb ( 2 obs.)						



KUMJ 4.27 32 eP 32 50.20 0.8  
 SHNJ 5.76 25 eP 33 09.60 -0.7  
 SSE 6.39 291 Pn 33 11.50 -7.7X  
 Z 16s 0.90um  
 Pg 33 35.50  
 Sn 34 20.50  
 TKSJ 7.13 44 eP 33 30.30 0.9  
 TIA 11.77 311 eP 34 30.70 -2.3X  
 N 10s 0.40um  
 E 10s 0.78um  
 BJI 14.81 322 eP 35 17.50 4.6X  
 1.2s 8.00nm  
 N 12s 0.35um  
 CN2 14.99 352 eP 35 20.00 4.8X  
 1.0s 16.00nm  
 Z 16s 0.83um 4.2mb  
 4.4MsZ  
 MDJ 15.69 4 eP 35 29.80 5.6X  
 XAN 17.15 292 eP 35 43.00 0.3  
 Z 12s 0.65um  
 N 10s 0.99um  
 E 10s 0.43um  
 HHC 18.02 316 eP 35 54.20 0.7  
 Z 14s 0.59um  
 N 15s 0.74um  
 E 15s 1.02um  
 BTO 18.85 313 eP 36 04.00 0.4  
 N 17s 1.49um  
 E 17s 1.14um  
 CD2 21.21 281 eP 36 27.00 -1.5  
 Z 11s 1.40um 4.6MsZ  
 eS 40 20.00  
 LZH 21.65 295 eP 36 40.00 6.9X  
 1.5s 16.00nm 4.2mb  
 GTA 25.56 302 eP 37 14.50 3.7X  
 1.0s 9.00nm 4.2mb  
 Z 14s 1.16um 4.6MsZ  
 N 14s 1.16um  
 pP 37 21.00 23kmX  
 sP 37 25.00  
 WMQ 35.41 306 P 38 42.00 4.0X  
 WRA 48.96 172 P 40 28.80 0.6  
 0.7s 1.20nm 4.0mb  
 WB2 48.97 172 eP 40 28.30 0.0  
 1.0s 4.40nm 4.4mb  
 YKA 76.12 25 P 43 28.40 -0.2  
 0.6s 0.40nm 3.5mb  
 S.D. = 1.0 on 11 of 19 obs.

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& JAN 24, 1994 02h 41m 02.67s  
 34.252 N 118.475 W  
 DEPTH = 13.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.6 (PAS), 3.8 (GS).

SSK 0.65 93 iPd 41 14.69 -0.8  
 ABL 0.86 314 eP 41 17.76 -1.3  
 PEC 1.15 108 iPd 41 22.73 -1.2  
 ISA 1.41 0 ePd 41 27.43 -0.6  
 PLM 1.61 123 eP 41 29.38 -1.7  
 eS 41 51.54  
 BCH 1.62 306 eP 41 29.96 -1.1  
 GSC 1.73 52 iPd 41 32.16 -0.5  
 PHAM 2.23 316 eP 41 38.25 -1.7  
 MTUM 3.10 359 (Pn) 41 51.63 -0.6  
 ePg 41 57.74  
 TPNV 3.24 33 ePn 41 53.60 -0.8  
 GLA 3.27 110 (Pn) 41 53.54 -1.1  
 MMPM 3.38 353 ePg 42 02.06 5.6  
 MRCM 3.41 360 ePg 42 04.34 7.5  
 MEMM 3.43 354 ePn 41 57.86 1.1  
 BONR 3.70 2 (Pn) 42 00.95 0.0  
 ePg 42 10.35  
 TNP 3.95 15 ePn 42 03.52 -1.0  
 ePg 42 15.93  
 ARN 3.97 322 eP 42 04.60 0.1  
 CMB 4.08 338 ePn 42 05.93 -0.2  
 KVN 4.80 3 ePg 42 30.14 13.6  
 ARUT 5.39 48 ePn 42 24.56 -0.3  
 ePg 42 40.95  
 ORV 5.82 336 (P) 42 28.97 -1.7  
 DUG 7.45 36 ePg 43 20.68 26.9  
 SRU 8.02 50 eP 43 02.25 0.5  
 FV09 8.64 58 ePn 43 11.33 0.7  
 FV10 8.66 59 (Pn) 43 10.27 -0.5  
 25 obs. associated

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& JAN 24, 1994 03h 42m 46.50s

34.301 N 118.584 W  
 DEPTH = 2.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.2 (GS).

SSK 0.74 97 eP 43 00.49 -0.9  
 eS 43 10.96  
 ABL 0.76 316 eP 43 00.89 -0.8  
 PEC 1.25 109 ePc 43 08.38 -2.0  
 eS 43 25.24  
 ISA 1.36 4 eP 43 10.82 -1.6  
 eS 43 30.49  
 BCH 1.52 306 eP 43 13.16 -1.6  
 eS 43 35.35  
 PLM 1.72 123 eP 43 14.26 -3.4  
 GSC 1.77 55 eP 43 16.94 -1.4  
 PHAM 2.14 316 (P) 43 21.18 -2.4  
 MTUM 3.05 0 ePg 43 41.16 4.5  
 TPNV 3.26 35 ePn 43 38.36 -1.3  
 MMPM 3.32 354 ePg 43 46.65 5.9  
 MEMM 3.37 355 (Pn) 43 40.70 -0.4  
 BONR 3.65 4 ePn 43 43.36 -2.1  
 ARUT 5.43 49 (Pn) 44 09.85 -0.7  
 14 obs. associated

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JAN 24, 1994 03h 43m 48.71± 0.28s  
 44.560 N ± 2.1km 7.327 E ± 3.3km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.9 (GEN).

PZZ 0.17 251 Pd 43 52.42 -0.3  
 S 43 54.39  
 BHB 0.28 351 P 43 55.59 0.9  
 S 43 59.39  
 STV 0.32 180 P 43 55.35 0.0  
 S 43 59.18  
 ENR 0.34 169 P 43 55.53 -0.3  
 S 43 59.44  
 ROB 0.47 124 P 43 58.67 0.4  
 S 44 05.39  
 RRL 0.53 313 P 43 59.37 -0.1  
 S 44 06.86  
 TOUF 0.55 186 Pg 43 59.99 0.1  
 AUTN 0.57 173 Pg 44 00.45 0.0  
 RSP 0.59 355 P 44 00.58 -0.2  
 S 44 08.81  
 SAOF 0.60 164 Pg 44 00.64 -0.2  
 AURF 0.67 180 Pg 44 02.18 0.0  
 MVIF 0.68 191 Pg 44 02.38 0.1  
 SBF 0.70 174 Pg 44 02.88 0.3  
 Sg 44 12.37  
 FIN 0.72 119 P 44 02.98 0.0  
 S 44 12.55  
 IMI 0.77 148 P 44 03.61 -0.1  
 S 44 13.60  
 CALN 0.87 201 Pg 44 05.95 0.5  
 Sg 44 18.00  
 PCP 0.87 91 P 44 05.98 0.5  
 S 44 17.45  
 LSD 0.91 352 P 44 06.17 -0.1  
 S 44 17.60  
 ORX 1.17 23 P 44 09.90 -0.7  
 S 44 23.45  
 PGF 2.35 148 Pn 44 27.12 -0.9  
 S.D. = 0.4 on 20 of 20 obs.

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JAN 24, 1994 03h 44m 23.49± 0.74s  
 31.177 S ± 7.2km 70.105 W ± 7.3km  
 DEPTH = 11.7 ± 4.3 km  
 5.0mb ( 6 obs.)  
 CHILE-ARGENTINA BORDER REGION (127)

RTRS 1.15 29 iPd 44 43.00 -1.8  
 RTCB 1.16 106 iPd 44 45.00 -0.1  
 ZON 1.27 107 iPd 44 47.00 0.0  
 RTCV 1.50 117 iPd 44 51.00 0.7  
 CFA 1.65 106 iPd 44 53.80 1.3  
 IHA 2.26 215 iPd 45 00.90 -0.3  
 iS 45 30.80  
 RTPR 3.21 75 iPd 45 17.20 2.4  
 MOCB 10.67 23 P 46 57.90 -1.7  
 CCH 14.20 16 P 47 54.50 7.7X  
 LPB 14.69 8 P 47 55.00 1.6  
 LR 52 40.00  
 ARE 14.70 355 eP 47 52.00 -1.4  
 LPAZ 14.93 7 iPd 47 57.30 0.6

LR 52 30.00  
 RSTA 19.71 76 eP 48 57.50 1.7  
 NNA 20.09 340 iPd 48 59.00 -0.9  
 1.5s 69.44nm 4.8mb  
 VAO2 22.37 75 eP 49 22.70 -0.5  
 NVL 58.27 157 (P) 54 19.00 -0.9  
 2.0s 50.00nm 5.2mb  
 GOGA 65.47 348 eP 55 05.96 -2.5X  
 LTX 68.13 329 eP 55 26.08 0.5  
 KDS 70.53 61 eP 55 48.00 7.5X  
 FVM 71.37 343 eP 55 41.89 -3.3X  
 LIC 72.33 71 P 55 49.74 -1.6  
 0.9s 10.50nm 4.9mb  
 TIC 72.57 71 P 55 52.10 -0.7  
 0.8s 6.50nm 4.8mb  
 KIC 72.64 71 P 55 52.40 -0.8  
 1.0s 19.00nm 5.1mb  
 LKO 73.81 68 P 55 59.31 -0.7  
 0.9s 18.50nm 5.1mb  
 TUC 73.95 325 eP 56 01.44 0.9  
 ALQ 74.13 330 eP 56 01.98 0.3  
 GOL 77.75 333 iPd 56 14.56 -7.6X  
 FV08 78.14 330 eP 56 26.67 2.3  
 FV10 78.14 330 iPd 56 23.43 -0.9  
 PEC 78.47 322 ePd 56 28.31 2.3  
 SRU 79.39 329 ePd 56 30.46 -0.6  
 MSU 79.65 328 ePd 56 34.94 2.4  
 RSSD 81.09 336 iPd 56 39.54 -0.5  
 DUG 81.30 328 eP 56 40.78 -0.3  
 LRM 85.71 332 eP 57 05.20 1.6  
 WB2 124.01 208 ePKP 03 21.80 -2.0  
 0.6s 2.20nm  
 WRA 124.02 208 PKP 03 23.00 -0.9  
 0.8s 1.50nm  
 POO 145.11 103 ePKP 04 09.50 6.4X  
 GBA 145.44 113 PKP 04 03.80 0.2  
 1.0s 5.00nm  
 BJI 169.79 332 ePKP 04 44.00 12.3X  
 0.8s 5.00nm  
 S.D. = 1.4 on 33 of 40 obs.

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& JAN 24, 1994 04h 15m 18.80s  
 34.345 N 118.552 W  
 DEPTH = 6.6km  
 4.3mb ( 7 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.6 (PAS), 4.7 (GS),  
 4.8 (BRK). Felt.

SSK 0.72 100 iPd 15 32.14 -1.2  
 ABL 0.75 313 iPd 15 32.39 -1.3  
 PEC 1.24 111 iPd 15 40.49 -1.7  
 ISA 1.32 3 ePd 15 42.28 -1.2  
 eS 16 01.44  
 BCH 1.51 304 iPd 15 45.00 -1.5  
 PLM 1.72 125 eP 15 46.52 -3.0  
 GSC 1.73 56 iPd 15 48.32 -1.2  
 PHAM 2.12 315 eP 15 53.04 -2.2  
 PKEM 2.14 324 eP 15 53.04 -2.3  
 PRI 2.49 317 iPd 15 58.50 -2.1  
 FRI 2.80 341 iPd 16 02.85 -2.1  
 MTUM 3.00 360 ePn 16 07.32 -0.6  
 ePg 16 12.37  
 TPNV 3.20 35 eP 16 09.64 -1.1  
 eS 17 02.55  
 MMPM 3.28 353 (Pn) 16 11.24 -0.8  
 MRCM 3.32 1 ePn 16 13.40 0.9  
 eS 17 02.93  
 MEMM 3.33 355 ePn 16 12.36 0.0  
 GLA 3.36 112 ePn 16 09.39 -3.5  
 SAO 3.38 316 eP 16 09.55 -3.5  
 BONR 3.61 3 ePn 16 16.39 -0.2  
 ARN 3.85 322 eP 16 17.19 -2.7  
 COE 3.86 320 eP 16 17.03 -2.9  
 TNP 3.88 16 eP 16 17.93 -2.5  
 MHC 3.90 321 eP 16 19.39 -1.3  
 CMB 3.97 339 eP 16 20.59 -0.9  
 BKS 4.62 321 eP 16 27.43 -3.2  
 KVN 4.71 4 ePn 16 29.84 -2.4  
 NTYM 5.22 322 ePn 16 36.20 -3.0  
 ARUT 5.38 49 ePn 16 40.25 -1.4  
 ePg 16 58.71  
 ORV 5.71 336 ePn 16 43.84 -2.3  
 MSU 6.61 49 ePn 16 58.04 -1.1  
 TUC 6.81 105 ePn 16 58.16 -3.6  
 DUG 7.42 36 ePn 17 09.06 -1.2  
 ePg 17 36.97



24d 04h

KMPM 7.51 325 (Pn) 17 09.98 -1.5  
 SRU 8.01 51 ePn 17 17.99 -0.6  
 EMUT 8.25 46 ePn 17 23.05 1.1  
 DAU 8.39 42 ePn 17 25.36 1.3  
 eSg 19 46.62  
 PV09 8.65 59 ePn 17 27.05 -0.6  
 PV10 8.66 60 ePn 17 26.62 -1.2  
 HVU 8.71 30 ePn 17 28.90 0.6  
 PV08 9.03 59 ePn 17 31.70 -1.2  
 PTI 9.79 28 (Pn) 17 43.65 0.5  
 ALQ 9.98 83 ePn 17 43.65 -2.3  
 HHAI 10.15 26 ePn 17 46.07 -2.0  
 BW06 10.97 37 eP 17 59.84 0.4  
 VGB 11.29 352 eP 18 04.92 1.3  
 MCMT 11.35 21 eP 18 07.30 2.6  
 GOL 11.81 59 eP 18 10.89 -0.1  
 LRM 12.37 20 eP 18 20.80 2.3  
 LON 12.64 350 (P) 18 21.73 -0.1  
 RMW 13.33 350 (P) 18 31.33 0.3  
 NEW 13.95 4 (P) 18 39.69 0.6  
 1.4s 10.77nm 4.5mb  
 RSSD 14.87 45 eP 18 50.44 -1.0  
 0.8s 7.35nm 4.3mb  
 ACO 15.98 76 iPd 19 09.30 3.6  
 WMOK 16.30 83 (P) 19 09.13 -0.7  
 1.1s 9.74nm 3.8mb  
 MEO 16.46 83 iPc 19 14.10 2.3  
 TUL 18.68 79 iPc 19 39.20 -0.3  
 MIAR 20.59 82 eP 19 58.86 -2.2  
 0.8s 12.08nm 4.3mb  
 YKA 28.28 4 P 21 11.80 -2.7  
 1.0s 1.70nm 3.8mb  
 MCWV 31.19 69 (P) 21 37.45 -3.3  
 0.8s 8.05nm 4.7mb  
 DAG 59.06 15 iPc 25 18.70 -2.8  
 0.5s 4.93nm 4.9mb  
 LPAZ 69.53 128 P 26 28.30 -2.9  
 LPB 69.73 128 P 26 29.80 -2.4  
 MOCB 74.75 130 P 27 00.30 -1.7  
 BRG 85.39 28 iP 27 57.40 -0.6  
 WRA 114.80 262 PKP 34 00.10 -2.3  
 0.7s 0.60nm  
 65 obs. associated

& JAN 24, 1994 04h 37m 18.09s  
 57.734 N 152.331 W  
 DEPTH = 16.7km  
 KODIAK ISLAND REGION (13)  
 <AEIC>. ML 2.7 (AEIC).

KDC 0.09 279 eP 37 21.06 -0.5  
 SYI 0.88 358 P 37 34.00 -0.5  
 S 37 44.80  
 CDD 1.38 331 P 37 40.00 -2.7  
 AUI 1.71 341 P 37 45.50 -1.8  
 AUE 1.72 342 P 37 46.00 -1.4  
 AUH 1.74 341 P 37 46.00 -1.8  
 AUW 1.75 340 P 37 46.00 -1.8  
 AUL 1.75 341 P 37 46.20 -1.7  
 XLV 1.76 10 P 37 46.50 -1.5  
 MCNL 1.80 325 P 37 44.70 -3.9  
 CNPM 1.89 17 P 37 47.40 -2.5  
 HOM 1.96 10 P 37 49.20 -1.8  
 OPT 1.98 347 P 37 49.50 -1.8  
 PDB 2.28 336 P 37 51.90 -3.6  
 INE 2.36 351 P 37 54.70 -2.2  
 ILIM 2.38 352 P 37 54.50 -2.5  
 RED 2.70 355 P 37 59.40 -2.3  
 RS2 2.75 356 P 38 00.00 -2.4  
 RSO 2.75 356 P 38 00.00 -2.4  
 RDW 2.77 355 P 38 00.20 -2.5  
 REF 2.77 356 P 38 00.30 -2.4  
 NCT 2.85 354 P 38 01.20 -2.6  
 DFR 2.87 357 P 38 01.50 -2.5  
 SLKM 2.99 20 P 38 01.20 -4.4  
 NKA 3.07 10 P 38 04.80 -1.9  
 MPA 3.16 28 P 38 03.20 -4.8  
 SPU 3.46 2 P 38 08.80 -3.6  
 CKN 3.50 1 P 38 10.10 -2.8  
 CRP 3.55 1 eP 38 09.81 -3.9  
 FWL 3.74 31 P 38 10.60 -5.8  
 SVW 3.78 335 eP 38 11.83 -5.1  
 SUA 3.83 11 P 38 13.50 -4.1  
 HIN 4.02 46 P 38 12.10 -8.2  
 CFI 4.17 32 P 38 15.80 -6.5  
 SKT 4.28 5 P 38 19.80 -4.2  
 CVA 4.41 47 P 38 17.60 -8.1

BALM 6.08 53 eP 38 39.47 -10.0  
 YKA 19.19 60 P 41 29.50 -13.7  
 0.5s 0.60nm  
 38 obs. associated

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 & JAN 24, 1994 05h 05m 43.54s  
 57.570 N 152.298 W  
 DEPTH = 29.4km  
 KODIAK ISLAND REGION (13)  
 <AEIC>. ML 2.6 (AEIC).

KDC 0.21 330 eP 05 48.54 -1.2  
 SYI 1.04 357 eP 06 01.66 -0.5  
 eS 06 13.10  
 CDD 1.54 333 eP 06 08.00 -1.3  
 AUE 1.88 343 eP 06 13.20 -1.0  
 AGU 1.89 342 eP 06 13.29 -1.2  
 AUH 1.90 342 eP 06 13.34 -1.2  
 AUW 1.91 342 eP 06 13.49 -1.1  
 XLV 1.91 9 eP 06 14.05 -0.7  
 MCNL 1.94 327 eP 06 12.20 -2.9  
 CNPM 2.04 15 eP 06 14.95 -1.6  
 HOM 2.12 9 eP 06 16.51 -1.2  
 OPT 2.15 347 eP 06 16.95 -1.1  
 BRLLK 2.32 18 eP 06 18.27 -2.3  
 PDB 2.43 337 eP 06 19.35 -2.8  
 INE 2.53 351 eP 06 22.14 -1.5  
 ILIM 2.54 352 eP 06 22.02 -1.7  
 RED 2.87 355 eP 06 26.81 -1.5  
 RS2 2.91 356 eP 06 27.62 -1.4  
 RDW 2.93 355 eP 06 27.83 -1.5  
 REF 2.94 356 eP 06 27.38 -2.0  
 NCT 3.02 354 eP 06 28.57 -1.9  
 DFR 3.04 356 eP 06 28.79 -2.0  
 SLKM 3.14 19 (P) 06 28.33 -3.8  
 MTU 3.42 43 eP 06 35.45 -0.8  
 BKG 3.51 0 eP 06 34.92 -2.6  
 SPU 3.63 2 eP 06 37.38 -1.7  
 CP2 3.71 0 eP 06 37.61 -2.7  
 CRP 3.71 1 eP 06 37.54 -2.8  
 CGLM 3.75 2 eP 06 38.19 -2.7  
 NCG 3.85 1 eP 06 40.35 -1.9  
 SVW 3.94 336 eP 06 38.87 -4.6  
 SUA 3.99 11 eP 06 41.10 -3.1  
 FID 4.37 41 eP 06 46.15 -3.5  
 GH0 4.55 21 eP 06 50.56 -1.7  
 TTA 5.69 343 (P) 07 04.24 -4.0  
 BALM 6.17 52 eP 07 06.89 -8.2  
 YKA 19.25 59 P 09 57.40 -10.7  
 0.5s 0.60nm  
 37 obs. associated

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 JAN 24, 1994 05h 18m 24.29± 0.28s  
 50.415 N ± 6.5km 90.163 E ± 5.1km  
 DEPTH = 33.0km (normal).  
 4.8mb (29 obs.)  
 RUSSIA-MONGOLIA BORDER REGION (333)

UER 2.73 64 iPnc 19 08.50 1.8  
 iS 19 43.50  
 NVS 6.12 319 iPn 19 50.20 -4.5X  
 WMQ 6.81 195 Pn 20 02.00 -2.5X  
 Pg 20 23.00  
 Sn 21 18.60  
 ZAK 8.39 85 eP 20 34.00 7.6X  
 e 22 04.00  
 GTA 12.94 145 eP 21 26.00 -2.5  
 1.5s 14.00nm 4.8mb  
 Z 12s 3.97um 4.1MsZ  
 PP 21 35.00  
 FRU 13.09 241 eP 21 37.00 6.6X  
 e 24 02.00  
 CIT 14.76 75 eP 21 51.50 -0.8  
 KSH 14.84 228 eP 21 51.50 -1.9  
 1.0s 10.00nm 4.1mb  
 Z 16s 1.81um 4.4MsZ  
 N 10s 2.36um  
 E 10s 2.54um  
 PP 22 00.00  
 S 24 37.50  
 SS 24 55.00  
 PcP 27 03.00  
 eScS 34 13.00  
 BOD 15.86 53 eP 22 03.50 -2.9X  
 BTO 16.98 118 eP 22 22.00 1.1  
 eS 25 20.00  
 LZH 17.40 140 Pd 22 27.00 0.8

1.5s 58.00nm 4.5mb  
 Z 10s 1.23um 4.3MsZ  
 pP 22 30.00  
 PP 22 42.00  
 HHC 17.71 114 P 22 29.20 -0.7  
 1.2s 29.00nm 4.3mb  
 Z 12s 1.21um 4.9MsZ  
 SVE 18.55 302 iP 22 38.00 -2.0  
 Z 13s 1.50um 4.6MsZ  
 E 13s 1.50um  
 ARU 19.63 300 eP 22 51.00 -1.6  
 (S) 26 19.00  
 TIY 20.33 120 Pd 22 59.40 -0.9  
 Z 14s 1.19um 4.4MsZ  
 LSA 20.70 178 P 23 05.40 0.8  
 1.0s 45.00nm 4.8mb  
 BJI 20.95 110 eP 23 10.50 19kmX  
 1.0s 44.00nm 4.8mb  
 Z 10s 1.92um 4.8MsZ  
 N 10s 0.74um  
 XAN 21.37 133 P 23 09.50 -1.4  
 1.0s 22.00nm 4.5mb  
 Z 12s 1.25um 4.5MsZ  
 N 10s 0.94um  
 E 10s 1.08um  
 pP 23 14.50 18kmX  
 sP 23 17.50  
 CD2 21.98 147 Pd 23 17.40 0.4  
 1.0s 24.00nm 4.6mb  
 Z 10s 1.61um 4.7MsZ  
 E 12s 1.70um  
 S 27 13.00  
 NDI 23.82 209 iPc 23 37.00 2.0  
 0.5s 42.25nm 5.2mb  
 TIA 24.05 116 eP 23 38.30 1.2  
 YAK 24.44 47 iPd 23 42.50 1.8  
 1.1s 60.00nm 5.1mb  
 e 28 42.00  
 e 28 56.00  
 SNY 24.53 98 Pc 23 42.80 1.1  
 SHL 24.84 176 iP 23 44.20 -0.9  
 MAIO 26.16 249 eP 23 58.00 0.7  
 KMI 27.06 154 eP 24 04.40 -1.3  
 0.6s 10.00nm 4.6mb  
 GYA 27.07 146 iPd 24 08.40 2.7  
 1.0s 45.00nm 5.1mb  
 OBN 32.08 299 (P) 24 50.00 0.1  
 POO 34.37 208 eP 25 15.00 4.8X  
 GBA 38.15 200 P 25 42.60 0.5  
 0.8s 5.00nm 4.4mb  
 HFS 42.24 314 eP 26 13.10 -2.4  
 0.9s 42.60nm 5.2mb  
 Z 15s 0.28um 4.3MsZ  
 LR 40 26.00  
 NB2 43.02 316 P 26 19.50 -2.4  
 0.5s 0.80nm 3.7mb X  
 SPC 43.60 297 eP 26 29.10 2.2  
 SRO 45.41 296 eP 26 42.20 1.0  
 i 26 44.30  
 ZST 45.90 297 eP 26 46.40 1.3  
 BRG 46.28 302 iP 26 49.50 1.5  
 PRU 46.40 300 Pd 26 50.50 1.4  
 CLL 46.56 303 iP 26 51.50 1.2  
 0.9s 21.00nm 5.1mb  
 KHC 47.39 300 eP 26 57.50 0.6  
 1.4s 25.70nm 5.0mb  
 e 27 24.50  
 ePP 28 48.00  
 GEC2 47.47 299 P 26 55.90 -1.8  
 e 26 58.90  
 e 27 06.80  
 MOX 47.66 302 eP 26 59.90 0.9  
 1.5s 37.00nm 5.2mb  
 WET 47.77 300 iPc 27 01.80 1.9  
 PTJ 47.80 295 eP 26 56.30 -3.9X  
 GRF 48.38 302 iPc 27 06.70 2.1  
 1.0s 25.00nm 5.2mb  
 LJU 48.54 296 eP 27 07.00 1.1  
 e 27 11.50  
 ePP 27 14.00 23kmX  
 BHG 48.55 299 eP 27 08.20 2.3  
 KBA 48.64 298 iPd 27 07.10 0.2  
 0.9s 32.70nm 5.4mb  
 i 27 08.90  
 VOY 48.92 296 eP 27 09.00 0.1  
 i 27 12.50



TRI 49.18 296 ePc 27 11.20 0.5  
 FUR 49.20 300 eP 27 13.20 2.3  
 WATA 49.50 299 iPc 27 12.30 -1.1  
 i 27 14.80  
 WTTA 49.50 299 iPd 27 13.50 0.0  
 0.7s 11.10nm 5.0mb  
 i 27 15.10  
 SQTa 49.77 299 iPd 27 15.30 -0.1  
 0.7s 8.50nm 4.9mb  
 i 27 17.00  
 OGA 50.07 299 iPc 27 19.50 1.6  
 ORX 52.51 299 P 27 36.44 0.2  
 PCP 52.85 297 P 27 37.91 -0.8  
 LSD 53.07 299 P 27 40.47 -0.1  
 RSP 53.20 299 P 27 41.11 -0.3  
 FIN 53.24 297 P 27 40.01 -1.6  
 ROB 53.38 298 P 27 43.12 0.5  
 BHB 53.39 298 P 27 41.84 -0.8  
 IMI 53.61 297 P 27 43.40 -0.9  
 RRL 53.61 299 P 27 44.17 -0.3  
 ENR 53.68 298 P 27 43.21 -1.6  
 PZZ 53.69 298 P 27 42.76 -2.2  
 FBA 56.61 26 eP 28 05.30 -0.5  
 0.5s 1.95nm 4.4mb  
 BALM 61.20 26 eP 28 36.11 -1.7  
 YKA 65.73 12 P 29 05.10 -2.2  
 0.7s 2.50nm 4.4mb  
 WRA 80.15 138 P 30 31.80 -0.7  
 0.7s 2.50nm 4.3mb  
 WB2 80.15 138 eP 30 29.30 -3.2X  
 0.6s 7.50nm 4.9mb  
 i 30 31.40  
 VGB 80.75 21 (P) 30 35.84 0.4  
 ASPA 83.28 140 eP 30 47.60 -1.1  
 0.7s 4.70nm 4.7mb  
 RSSD 85.04 10 eP 30 56.90 -0.8  
 0.8s 4.24nm 4.7mb  
 LKO 86.37 280 P 31 03.92 -0.6  
 0.6s 5.50nm 5.0mb  
 GOL 89.23 12 (P) 31 18.94 0.7  
 0.9s 4.97nm 4.8mb  
 MSU 89.29 17 eP 31 17.78 -0.8  
 S.D. = 1.4 on 68 of 76 obs.  
 % JAN 24, 1994 05h 21m 06.19± 0.53s  
 44.282 N ± 5.6km 7.471 E ± 4.2km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.9 (GEN).  
 ENR 0.07 213 P 21 08.54 -0.1  
 S 21 09.73  
 STV 0.11 250 P 21 09.00 -0.1  
 S 21 11.06  
 ROB 0.29 87 P 21 12.34 0.1  
 S 21 16.37  
 PZZ 0.35 310 P 21 13.80 0.4  
 S 21 18.52  
 IMI 0.48 141 P 21 16.00 0.1  
 S 21 22.45  
 FIN 0.54 98 P 21 16.64 -0.4  
 S 21 23.69  
 BHB 0.58 345 P 21 17.42 -0.5  
 S 21 24.88  
 PCP 0.81 71 P 21 22.41 0.4  
 S 21 32.16  
 S.D. = 0.4 on 8 of 8 obs.  
 & JAN 24, 1994 05h 22m 29.36s  
 34.304 N 118.414 W  
 DEPTH = 10.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.5 (PAS), 2.7 (GS).  
 SSK 0.60 99 eP 22 40.68 -1.0  
 ABL 0.86 310 eP 22 45.09 -1.0  
 PEC 1.12 111 eP 22 49.60 -0.8  
 eS 23 04.31  
 ISA 1.36 358 eP 22 52.66 -1.7  
 PLM 1.60 126 eP 22 56.41 -1.6  
 BCH 1.63 303 eP 22 58.38 0.1  
 GSC 1.66 53 eP 22 57.98 -0.7  
 TPNV 3.17 33 ePn 23 20.01 -0.4  
 MEMM 3.38 353 ePg 23 30.98 7.8  
 BONR 3.64 1 ePg 23 36.47 9.2  
 10 obs. associated

& JAN 24, 1994 05h 31m 49.18s  
 57.184 N 152.071 W  
 DEPTH = 20.2km  
 KODIAK ISLAND REGION (13)  
 <AEC>. ML 2.9 (AEC).  
 KDC 0.61 338 eP 31 59.29 -1.7  
 SYI 1.44 353 P 32 12.80 -1.4  
 CDD 1.94 335 P 32 19.00 -2.5  
 XLV 2.28 4 P 32 25.20 -1.2  
 AUE 2.29 343 P 32 24.70 -1.7  
 AGU 2.30 342 P 32 24.70 -2.0  
 AUH 2.30 342 P 32 25.10 -1.6  
 AUL 2.32 342 P 32 24.80 -2.1  
 MCNL 2.34 330 P 32 23.20 -4.0  
 CNPM 2.39 10 P 32 25.80 -2.1  
 HOM 2.49 5 P 32 27.70 -1.6  
 OPT 2.55 347 P 32 28.10 -2.1  
 PDB 2.84 338 P 32 30.40 -3.9  
 ILIM 2.94 351 P 32 33.20 -2.6  
 RS2 3.31 354 P 32 38.50 -2.6  
 REF 3.33 355 P 32 38.70 -2.7  
 DFR 3.43 355 P 32 40.00 -2.8  
 SLKM 3.47 15 P 32 39.90 -3.4  
 NKA 3.60 7 P 32 43.00 -2.0  
 BKG 3.90 359 P 32 46.00 -3.4  
 SPU 4.01 0 P 32 48.00 -2.9  
 CGLM 4.14 0 P 32 50.00 -2.8  
 PWL 4.16 26 P 32 49.20 -3.9  
 NCG 4.23 359 P 32 51.20 -3.0  
 CFI 4.58 27 P 32 55.70 -3.3  
 KNK 4.63 22 P 32 58.70 -1.0  
 BALM 6.32 48 eP 33 18.68 -5.0  
 27 obs. associated  
 ? JAN 24, 1994 05h 49m 22.79± 6.80s  
 56.442 N ± 55.2km 152.015 W ± 15.6km  
 DEPTH = 33.0km (normal)  
 KODIAK ISLAND REGION (13)  
 ML 3.6 (GS).  
 KDC 1.33 349 eP 49 44.76 -0.5  
 CDD 2.64 341 P 50 04.50 0.4  
 AUW 3.04 346 P 50 09.60 0.0  
 AUL 3.04 346 P 50 11.60 1.9  
 CNPM 3.12 7 P 50 11.30 0.5  
 HOM 3.23 3 P 50 13.60 1.3  
 OPT 3.28 349 P 50 13.30 0.2  
 PDB 3.55 342 P 50 15.90 -1.0  
 INE 3.67 352 P 50 18.70 -0.1  
 ILIM 3.68 353 P 50 18.70 -0.1  
 RDW 4.07 354 P 50 23.80 -0.7  
 REF 4.08 355 P 50 24.20 -0.3  
 DFR 4.18 355 P 50 25.30 -0.6  
 SLKM 4.19 12 P 50 25.60 -0.3  
 BKG 4.64 359 P 50 31.50 -1.0  
 SPU 4.75 360 P 50 33.50 -0.5  
 BGL 4.84 358 P 50 35.50 0.2  
 CRP 4.84 359 eP 50 36.02 0.7  
 CGLM 4.88 0 P 50 35.70 -0.1  
 BALM 6.82 44 eP 51 03.14 0.0  
 S.D. = 0.8 on 20 of 20 obs.  
 & JAN 24, 1994 05h 50m 24.32s  
 34.359 N 118.629 W  
 DEPTH = 12.2km  
 4.2mb (2 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.3 (PAS), 4.3 (GS),  
 4.4 (BRK).  
 ABL 0.69 315 iPc 50 36.77 -1.2  
 SSK 0.79 101 iPc 50 38.84 -0.8  
 PEC 1.30 111 iPd 50 46.74 -1.5  
 ISA 1.31 6 eP 50 47.74 -0.6  
 eS 51 05.57  
 BCH 1.45 305 eP 50 49.29 -1.2  
 GSC 1.77 57 iPc 50 54.20 -0.8  
 PLM 1.78 124 iPd 50 53.28 -2.0  
 PHAM 2.07 316 eP 50 57.65 -1.6  
 PKEM 2.09 325 eP 50 57.66 -1.8  
 PRI 2.44 317 eP 51 02.91 -1.7  
 FRI 2.77 342 iP 51 07.60 -1.6  
 iS 51 42.11  
 MTUM 2.99 1 ePn 51 12.28 -0.2  
 TPNV 3.23 36 ePn 51 14.82 -1.1  
 MMPM 3.26 354 ePn 51 16.37 -0.2

MRCM 3.31 2 ePn 51 17.10 0.0  
 MEMM 3.31 356 ePn 51 17.45 0.6  
 SAO 3.32 317 eP 51 14.40 -2.7  
 GLA 3.43 111 eP 51 16.53 -2.1  
 BONR 3.60 4 ePn 51 20.96 -0.3  
 ARN 3.80 323 eP 51 20.87 -3.1  
 COE 3.81 320 ePn 51 21.11 -2.9  
 MHC 3.85 321 eP 51 21.74 -3.0  
 TNP 3.89 17 ePn 51 24.65 -0.6  
 CMB 3.93 339 eP 51 24.62 -1.2  
 BKS 4.57 321 eP 51 32.06 -2.7  
 KVN 4.70 5 eP 51 46.46 9.6  
 eS 52 52.57  
 NTYM 5.17 322 ePn 51 40.49 -2.8  
 ARUT 5.42 49 ePn 51 45.97 -1.0  
 ORV 5.67 337 eP 51 48.33 -2.1  
 MSU 6.65 50 ePn 52 03.29 -1.2  
 TUC 6.88 105 eP 52 04.96 -2.5  
 DUG 7.44 37 ePn 52 16.33 0.9  
 KMPM 7.46 326 (P) 52 13.92 -1.7  
 SRU 8.05 52 ePn 52 25.10 1.1  
 EMUT 8.28 47 ePn 52 28.47 1.2  
 DAU 8.42 42 (P) 52 28.65 -0.6  
 PV09 8.69 59 ePn 52 33.01 -0.1  
 PV10 8.71 60 ePn 52 32.61 -0.6  
 HVU 8.73 30 (Pn) 52 37.71 4.4  
 PV08 9.07 59 eP 52 38.75 0.4  
 BW06 11.00 37 eP 53 05.57 0.9  
 MCMT 11.36 21 eP 53 12.90 3.3  
 LRM 12.38 21 eP 53 25.90 2.5  
 RMW 13.30 351 eP 53 35.63 0.2  
 RSSD 14.91 45 eP 53 58.30 1.6  
 1.3s 9.26nm 4.1mb  
 ACO 16.03 76 iPd 54 15.20 4.0  
 MEO 16.52 83 iPd 54 10.20 -7.1  
 TUL 18.74 79 iPd 54 46.90 1.9  
 MIAR 20.65 82 eP 55 04.30 -2.0  
 1.8s 32.90nm 4.4mb  
 49 obs. associated  
 & JAN 24, 1994 05h 54m 21.05s  
 34.363 N 118.627 W  
 DEPTH = 10.9km  
 4.1mb (2 obs.)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 4.2 (PAS), 4.4 (GS),  
 4.4 (BRK).  
 ABL 0.69 315 iPc 54 33.31 -1.5  
 SSK 0.79 101 ePc 54 35.71 -0.7  
 PEC 1.30 111 iPd 54 43.43 -1.7  
 BCH 1.45 305 ePc 54 46.05 -1.3  
 GSC 1.77 57 eP 54 51.13 -0.7  
 PLM 1.78 124 eP 54 50.15 -2.0  
 PHAM 2.07 316 eP 54 54.35 -1.8  
 PKEM 2.08 325 eP 54 55.84 -0.5  
 PRI 2.44 317 ePd 54 59.45 -2.0  
 FRI 2.77 342 iP 55 04.31 -1.8  
 eS 55 37.77  
 MTUM 2.98 1 ePn 55 08.59 -0.8  
 TPNV 3.23 36 ePn 55 11.36 -1.4  
 eS 56 05.86  
 MMPM 3.26 354 ePn 55 13.20 -0.2  
 MRCM 3.30 2 ePn 55 12.49 -1.5  
 MEMM 3.31 356 ePn 55 14.13 0.4  
 SAO 3.32 317 ePn 55 11.48 -2.5  
 GLA 3.43 111 ePn 55 15.53 0.0  
 BONR 3.59 4 ePn 55 17.86 -0.3  
 ePg 55 26.92  
 ARN 3.80 322 eP 55 18.14 -2.7  
 COE 3.80 320 ePn 55 18.12 -2.7  
 TNP 3.88 17 ePn 55 22.41 0.3  
 CMB 3.93 339 eP 55 21.69 -1.0  
 BKS 4.56 321 eP 55 29.31 -2.3  
 KVN 4.70 5 ePg 55 45.01 11.3  
 NTYM 5.17 322 eP 55 37.02 -3.1  
 ARUT 5.41 49 ePn 55 42.73 -1.1  
 ORV 5.67 337 eP 55 45.48 -1.8  
 MSU 6.65 50 (Pn) 56 01.33 0.0  
 TUC 6.88 105 (P) 56 03.64 -0.7  
 DUG 7.44 37 ePg 56 39.54 27.3  
 SRU 8.05 52 ePg 56 51.22 30.4  
 LTIX 13.67 107 (P) 57 38.15 0.9  
 RSSD 14.90 45 (P) 57 54.83 1.3  
 1.4s 10.73nm 4.1mb  
 MEO 16.52 83 iPd 58 17.40 3.2  
 MIAR 20.65 82 eP 59 00.64 -2.6



24d 05h

1.3s 14.13nm 4.2mb	CLLP 1.57 201 P 43 16.70 0.1	LPB 2.89 27 iPd 57 33.80 1.7
35 obs. associated	MGP 1.86 214 P 43 20.80 0.0	LR 16 04.00
& JAN 24, 1994 05h 59m 22.65s	S.D. = 0.4 on 7 of 7 obs.	LPBZ 3.09 25 iPc 57 34.70 -0.4
34.347 N 118.622 W	& JAN 24, 1994 06h 59m 39.76s	e 10 26.00
DEPTH = 11.4km	34.354 N 118.626 W	LR 16 02.00
SOUTHERN CALIFORNIA (43)	DEPTH = 12.2km	ARE 3.27 324 iPc 57 38.00 0.9
<PAS-P>. ML 2.7 (PAS), 2.8 (GS).	SOUTHERN CALIFORNIA (43)	i(S) 58 11.00
PEC 1.29 110 eP 59 46.70 0.2	<PAS-P>. MD 2.5 (PAS). ML 2.7 (GS).	CCH 3.61 62 Pd 57 41.40 -0.4
eS 00 05.00	ABL 0.70 315 eP 59 52.58 -0.9	PT03 7.92 309 eP 58 39.60 -0.7
ISA 1.32 5 eP 59 49.31 2.4	SSK 0.79 100 eP 59 55.34 0.4	eS 59 58.70
PLM 1.77 124 eP 59 53.79 0.3	S 00 05.42	PT06 8.42 308 eP 58 46.20 -0.9
eS 00 18.79	PEC 1.30 110 eP 00 02.47 -1.2	eS 00 06.50
3 obs. associated	S 00 20.54	NNA 10.03 314 iPc 59 07.30 -1.4
& JAN 24, 1994 06h 13m 10.25s	ISA 1.31 5 eP 00 03.61 -0.2	0.4s 29.66nm 5.5mb X
34.356 N 118.613 W	BCH 1.46 305 eP 00 05.90 -0.1	e(S) 01 05.50
DEPTH = 11.9km	GSC 1.77 57 eP 00 12.43 2.0	CFA 12.49 175 e(P) 59 42.10 1.1
SOUTHERN CALIFORNIA (43)	PLM 1.78 124 eP 00 11.35 0.7	RSTA 19.74 110 eP 01 08.40 -0.8
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).	7 obs. associated	CACB 21.46 101 ePc 01 26.40 -0.4
ABL 0.70 315 eP 13 22.76 -1.4	* JAN 24, 1994 07h 02m 17.88± 0.62s	e 01 28.80
SSK 0.78 101 eP 13 24.71 -0.6	49.262 S ±11.1km 30.442 E ±21.4km	VAO2 21.76 105 eP 01 28.90 -0.8
PEC 1.29 111 eP 13 32.57 -1.5	DEPTH = 10.0km (geophysicist)	SDV 27.85 358 eP 02 26.50 -0.5
eS 13 50.27	4.7mb (11 obs.)	TOV 28.72 359 eP 02 35.30 0.6
ISA 1.31 5 eP 13 33.47 -0.9	SOUTH OF AFRICA (430)	UYO 58.09 336 iPd 06 30.20 0.7
BCH 1.47 305 ePn 13 35.69 -0.9	CER 17.92 328 eP 06 17.00 -11.7X	FVM 60.12 341 eP 06 43.56 0.1
GSC 1.76 57 eP 13 39.41 -1.4	1.2s 140.00nm	0.4s 14.19nm 5.4mb
eS 14 07.85	HVD 19.01 347 eP 06 46.00 3.8X	eP 07 11.38 114kmX
PLM 1.77 124 eP 13 40.84 -0.2	1.0s 70.00nm 4.8mb	LIC 68.26 75 Pc 07 36.70 -0.1
TPNV 3.22 36 ePn 14 00.92 -0.9	SYO 20.30 171 ePd 06 57.70 1.6	KIC 68.57 75 P 07 38.30 -0.5
MEMM 3.31 356 ePg 14 11.03 8.1	BLF 20.39 349 eP 06 58.00 0.5	LKO 69.09 71 Pc 07 41.47 -0.5
9 obs. associated	0.4s 14.00nm 4.7mb	0.4s 4.00nm 4.6mb
& JAN 24, 1994 06h 27m 38.98s	SEK 21.02 353 eP 07 06.00 1.9	NVL 69.24 159 (P) 07 22.00 -19.9X
34.278 N 118.482 W	0.8s 26.00nm 4.7mb	YKA 88.78 341 P 09 29.30 1.8
DEPTH = 11.5km	POF 21.41 334 iPc 07 14.00 6.2X	0.6s 2.10nm 4.4mb
SOUTHERN CALIFORNIA (43)	0.4s 7.00nm 4.4mb	ASPA 131.75 209 iPKPc 15 50.80 3.1X
<PAS-P>. ML 2.6 (PAS), 2.6 (GS).	NVL 23.28 196 (P) 07 26.00 0.0	0.6s 5.60nm
SSK 0.66 96 eP 27 51.33 -0.7	1.0s 46.00nm 5.0mb	WB2 134.70 212 ePKP 15 55.70 2.3X
eS 28 00.24	BFT 23.54 359 eP 07 32.00 2.8X	0.4s 6.50nm
ABL 0.84 313 eP 27 53.19 -2.0	SLR 23.55 355 eP 07 29.00 -0.2	WRA 134.70 212 PKP 15 52.80 -0.6
PEC 1.16 109 eP 27 59.20 -1.4	0.8s 53.00nm 5.2mb	0.6s 3.50nm
eS 28 15.69	LIC 63.32 320 P 12 47.80 -1.4	GBA 147.81 95 PKP 16 18.00 1.4
ISA 1.38 0 eP 28 03.56 -0.6	KIC 63.32 320 P 12 47.00 -2.2	MAT 150.15 311 (PKP) 16 28.00 8.3X
BCH 1.60 305 eP 28 06.66 -0.6	TIC 63.69 320 P 12 47.50 -4.2X	CHTO 169.04 90 ePKP 16 40.50 -0.4
PLM 1.63 124 eP 28 06.03 -1.8	LKO 66.54 321 P 13 11.63 1.6	eSg 49 38.50
GSC 1.72 53 eP 28 07.83 -1.2	0.3s 9.50nm 5.5mb	KMI 170.63 49 ePKP 16 24.60 -17.3X
7 obs. associated	STK 78.70 126 eP 14 21.50 -0.2	1.0s 10.00nm pp 16 30.80
& JAN 24, 1994 06h 33m 45.08s	0.8s 2.60nm 4.3mb	LOE 171.47 100 ePKP 16 35.00 -7.1X
34.334 N 118.469 W	ASPA 80.69 115 iPd 14 32.00 -0.6	S.D. = 1.0 on 22 of 28 obs.
DEPTH = 4.6km	1.0s 6.30nm 4.6mb	* JAN 24, 1994 08h 31m 05.64± 1.65s
SOUTHERN CALIFORNIA (43)	WRA 83.79 113 P 14 48.50 -0.2	39.361 N ±25.7km 33.431 E ± 6.9km
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).	0.8s 1.40nm 4.2mb	DEPTH = 5.0km (geophysicist)
SSK 0.65 101 eP 33 57.17 -1.0	WB2 83.80 113 iPc 14 47.90 -0.8	TURKEY (366)
ABL 0.81 310 ePc 33 59.78 -1.6	0.8s 3.30nm 4.6mb	ML 3.6 (ISK).
PEC 1.17 112 eP 34 06.04 -1.5	S.D. = 1.4 on 12 of 17 obs.	BNN 1.96 104 iPn 31 39.70 -0.4
ISA 1.33 360 eP 34 09.08 -1.1	& JAN 24, 1994 07h 04m 37.43s	KAS 2.02 7 eP 31 55.50 14.6X
BCH 1.58 303 eP 34 12.68 -1.2	34.302 N 118.493 W	ALT 2.60 264 ePn 31 49.30 0.2
PLM 1.66 126 eP 34 12.92 -2.2	DEPTH = 9.2km	BCK 2.93 231 ePn 31 54.00 0.2
eS 34 36.00	SOUTHERN CALIFORNIA (43)	GAZ 3.69 125 ePn 32 05.00 0.4
GSC 1.68 54 eP 34 14.57 -0.8	<PAS-P>. ML 2.6 (PAS), 2.7 (GS).	ELL 3.81 228 ePn 32 06.00 -0.4
PHAM 2.18 314 (Pn) 34 20.87 -1.7	SSK 0.67 98 eP 04 49.70 -1.2	S.D. = 0.5 on 5 of 6 obs.
MTUM 3.01 359 (Pn) 34 35.02 0.4	eS 04 59.58	* JAN 24, 1994 08h 35m 37.73± 0.87s
MMPM 3.30 352 ePg 34 44.42 5.6	ABL 0.81 313 eP 04 52.10 -1.3	39.632 N ± 7.0km 29.442 E ± 8.4km
MEMM 3.35 354 (Pn) 34 39.64 0.5	PEC 1.18 110 eP 04 58.09 -1.4	DEPTH = 10.0km (geophysicist)
TNP 3.87 15 ePg 34 59.37 12.5	eS 05 14.03	TURKEY (366)
12 obs. associated	ISA 1.36 1 eP 05 00.58 -2.0	ML 2.5 (ISK).
? JAN 24, 1994 06h 42m 48.70± 7.69s	PLM 1.66 124 eP 05 03.97 -2.9	DST 0.63 268 iPg 35 50.30 -0.1
19.554 N ±56.5km 65.988 W ±22.4km	GSC 1.71 54 eP 05 06.11 -1.5	iSg 36 00.80
DEPTH = 10.0km (geophysicist)	MTUM 3.05 359 ePg 05 32.64 5.8	IZI 0.70 2 ePg 35 51.40 -0.3
PUERTO RICO REGION (90)	MMPM 3.33 353 ePg 05 37.47 6.5	ALT 0.77 138 ePg 35 53.00 0.1
LPR 1.24 175 P 43 11.50 -0.4	MEMM 3.38 354 ePg 05 38.74 7.4	YLV 0.94 357 ePn 35 56.20 0.6
S 43 25.50	BONR 3.65 2 ePg 05 44.13 8.6	EYL 1.08 30 ePn 35 57.90 -0.3
APR 1.30 213 P 43 13.30 0.5	TNP 3.91 15 ePg 05 48.96 9.8	S.D. = 0.5 on 5 of 5 obs.
S 43 25.70	11 obs. associated	* JAN 24, 1994 09h 13m 34.58± 1.28s
SJG 1.44 186 iP 43 15.10 0.2	JAN 24, 1994 07h 56m 46.30± 0.79s	39.685 N ±16.7km 20.437 E ±21.4km
S 43 27.40	19.118 S ± 8.0km 69.472 W ± 6.5km	DEPTH = 10.0km (geophysicist)
LRS 1.49 213 P 43 15.10 -0.5	DEPTH = 117.7 ± 7.6 km	GREECE-ALBANIA BORDER REGION (392)
S 43 28.10	4.7mb (3 obs.)	ML 2.7 (THE).
CPD 1.51 177 P 43 16.00 0.2	NORTHERN CHILE (123)	IGT 0.17 208 ePg 13 38.50 0.0
	Felt (IV) at Tacna and (II) at	eSg 13 41.30
	Arequipa, Peru.	FNA 1.31 33 ePb 13 59.50 0.6
		eSb 14 17.62



OHR 1.45 11 ePn 14 12.50 11.6X  
 LIT 1.63 75 ePb 14 04.30 0.8  
 GRG 1.97 49 ePn 14 08.60 0.3  
 THE 2.16 63 ePn 14 10.58 -0.4  
 VAY 2.31 44 ePn 14 10.00 -3.2X  
 KNT 2.39 51 ePn 14 13.14 -1.2  
 SKO 2.41 18 ePn 14 33.00 18.4X  
 S.D. = 1.0 on 6 of 9 obs.

& JAN 24, 1994 09h 24m 23.70s  
 34.351 N 118.453 W  
 DEPTH = 5.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.5 (PAS), 2.7 (GS).

SSK 0.64 102 eP 24 35.73 -0.9  
 ABL 0.81 308 ePd 24 38.33 -1.6  
 PEC 1.17 113 eP 24 44.49 -1.5  
 ISA 1.31 359 eP 24 47.07 -1.4  
 BCH 1.58 302 eP 24 51.45 -1.1  
 GSC 1.65 55 eP 24 53.30 -0.3  
 PLM 1.66 126 (P) 24 52.34 -1.4  
 eS 25 14.31

MTUM 3.00 156 ePg 25 19.02 6.1  
 TPNV 3.15 34 (Pn) 25 14.58 -0.5  
 9 obs. associated

% JAN 24, 1994 09h 55m 54.07± 0.78s  
 40.670 N ± 5.9km 22.969 E ± 7.5km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 1.6 (THE).

THE 0.04 185 ePg 55 54.78 -0.6  
 eSg 55 55.98  
 SOH 0.33 63 ePg 56 00.30 -0.4  
 KNT 0.49 354 ePg 56 04.18 0.2  
 eSg 56 12.02

GRG 0.52 304 iPg 56 04.42 0.0  
 eSg 56 12.20  
 PAIG 0.92 144 ePg 56 12.66 0.6  
 S.D. = 0.7 on 5 of 5 obs.

& JAN 24, 1994 09h 57m 21.73s  
 57.309 N 152.215 W  
 DEPTH = 21.1km  
 3.1mb (1 obs.)  
 KODIAK ISLAND REGION (13)  
 <AEIC>. ML 3.1 (AEIC).

KDC 0.46 341 ePc 57 30.45 -0.7  
 SYI 1.31 356 eP 57 43.16 -1.6  
 S 58 00.25

CDD 1.79 336 eP 57 49.91 -1.9  
 S 58 11.79  
 AUI 2.13 343 eP 57 54.97 -1.7  
 AUE 2.14 344 eP 57 55.87 -1.0  
 AUH 2.16 343 eP 57 55.83 -1.4  
 XLV 2.17 7 eP 57 55.90 -1.3  
 AUW 2.17 343 eP 57 54.60 -2.7  
 AUL 2.18 343 eP 57 55.94 -1.4  
 MCNL 2.19 330 eP 57 54.15 -3.4  
 CNPM 2.28 13 eP 57 56.84 -2.0  
 HOM 2.38 7 eP 57 58.69 -1.4  
 OPT 2.41 348 eP 57 58.90 -1.8  
 PDB 2.69 338 eP 58 01.23 -3.5  
 INE 2.80 351 eP 58 04.03 -2.3  
 ILIM 2.81 352 eP 58 04.02 -2.3

RED 3.13 355 eP 58 08.67 -2.4  
 SEW 3.15 26 eP 58 08.63 -2.5  
 RSO 3.18 355 eP 58 09.58 -2.2  
 RS2 3.18 355 eP 58 09.58 -2.2  
 RDW 3.20 355 eP 58 09.66 -2.4  
 REF 3.20 356 eP 58 09.69 -2.4  
 NCT 3.28 354 eP 58 10.66 -2.5  
 DFR 3.30 356 eP 58 10.89 -2.5  
 SLKM 3.37 17 eP 58 11.27 -3.1  
 NKA 3.48 8 eP 58 14.42 -1.4  
 MPA 3.52 24 eP 58 13.09 -3.3  
 BKG 3.77 360 eP 58 17.07 -3.0  
 SPU 3.89 1 eP 58 18.90 -2.7  
 CKT 3.90 0 eP 58 19.16 -2.8  
 CKN 3.93 0 eP 58 20.06 -2.2  
 BGL 3.97 359 eP 58 21.11 -1.7  
 CRP 3.97 0 eP 58 22.37 -0.6

CGLM 4.01 1 eP 58 20.88 -2.6  
 PWL 4.08 28 eP 58 20.09 -4.4  
 NCG 4.11 0 eP 58 22.03 -2.8  
 SVW 4.19 337 (P) 58 19.55 -6.5  
 SUA 4.24 10 eP 58 23.00 -3.7  
 HIN 4.29 41 eP 58 23.93 -3.4  
 CFI 4.51 29 eP 58 26.33 -4.0  
 KNK 4.54 23 eP 58 27.31 -3.7  
 FID 4.55 38 eP 58 26.84 -4.2  
 PMR 4.58 19 (P) 58 21.64 -9.8  
 CVA 4.66 43 P 58 27.10 -5.5  
 TTA 5.95 343 eP 58 43.88 -7.0  
 BALM 6.30 50 (P) 58 47.68 -8.2  
 FBA 7.91 14 (P) 59 08.69 -9.6  
 YKA 19.35 59 P 01 39.60 -8.7  
 0.9s 1.10nm 3.1mb  
 48 obs. associated

\* JAN 24, 1994 09h 58m 49.56± 1.96s  
 57.702 N ± 18.5km 151.734 W ± 10.1km  
 DEPTH = 33.0km (normal)  
 3.5mb (1 obs.)  
 KODIAK ISLAND REGION (13)  
 ML 3.4 (GS).

KDC 0.41 277 ePc 58 59.35 0.6  
 SLKM 2.92 15 (P) 59 35.85 1.1  
 CP2 3.58 356 (P) 59 44.42 0.1  
 CRP 3.58 357 (P) 59 41.95 -2.3  
 SVW 3.95 331 (P) 59 48.68 -0.7  
 PMR 4.12 18 (P) 59 52.86 1.1  
 TTA 5.66 340 eP 00 14.14 0.6  
 BALM 5.85 51 eP 00 17.39 1.1  
 FBA 7.47 13 (P) 00 39.06 0.2  
 YKA 18.92 60 P 03 08.10 -1.7  
 0.6s 1.80nm 3.5mb  
 S.D. = 1.4 on 10 of 10 obs.

& JAN 24, 1994 10h 11m 55.84s  
 61.711 N 149.754 W  
 DEPTH = 42.4km  
 SOUTHERN ALASKA (2)  
 <AEIC>. ML 2.6 (AEIC).

BC3 1.67 112 eP 12 53.11 -1.5  
 BGL 1.67 112 eP 12 18.06 -1.5  
 BKG 1.67 112 eP 12 18.09 -1.5  
 CCB 1.67 112 eP 12 43.24 -1.5  
 CDD 1.67 112 eP 12 45.38 -1.5  
 CFI 1.67 112 iP 12 13.97 -1.5  
 CGLM 1.67 112 eP 12 15.34 -1.5  
 CKL 1.67 112 eP 12 18.02 -1.5  
 CKN 1.67 112 eP 12 17.25 -1.5  
 CKT 1.67 112 eP 12 16.93 -1.5  
 CNPM 1.67 112 eP 12 31.87 -1.5  
 CP2 1.67 112 eP 12 16.99 -1.5  
 CRP 1.67 112 eP 12 16.10 -1.5  
 CUT 1.67 112 iP 12 09.14 -1.5  
 CVA 1.67 112 eP 12 31.81 -1.5  
 DHY 1.67 112 eP 12 23.70 -1.5  
 FBA 1.67 112 eP 12 44.21 -1.5  
 FID 1.67 112 eP 12 23.37 -1.5  
 GH0 1.67 112 eP 12 04.99 -1.5  
 eS 12 12.97

GLB 1.67 112 eP 12 37.28 -1.5  
 HIN 1.67 112 eP 12 26.57 -1.5  
 HUR 1.67 112 eP 12 17.10 -1.5  
 eS 12 34.03

IL1 1.67 112 eP 12 44.69 -1.5  
 ILB 1.67 112 eP 12 45.98 -1.5  
 ILIM 1.67 112 eP 12 29.14 -1.5  
 IM3 1.67 112 eP 13 02.62 -1.5  
 INE 1.67 112 eP 12 32.20 -1.5  
 KLU 1.67 112 eP 12 24.03 -1.5  
 KNK 1.67 112 iP 12 08.60 -1.5  
 MCK 1.67 112 eP 12 27.46 -1.5  
 MLY 1.67 112 eP 12 45.43 -1.5  
 MPA 1.67 112 eP 12 15.76 -1.5  
 NCG 1.67 112 eP 12 15.74 -1.5  
 eS 12 31.38

NCT 1.67 112 eP 12 25.30 -1.5  
 NKA 1.67 112 eP 12 17.39 -1.5  
 OPT 1.67 112 eP 12 35.95 -1.5  
 PAX 1.67 112 eP 12 33.62 -1.5  
 PLRM 1.67 112 iP 12 04.00 -1.5  
 eS 12 11.23  
 PMR 1.67 112 eP 12 03.61 -1.5

PWA 1.67 112 P 12 03.00 -1.5  
 PWL 1.67 112 iP 12 13.87 -1.5  
 eS 12 29.03  
 REF 1.67 112 eP 12 25.98 -1.5  
 RS2 1.67 112 eP 12 26.37 -1.5  
 SEW 1.67 112 eP 12 22.35 -1.5  
 SKT 1.67 112 eP 12 10.95 -1.5  
 SLKM 1.67 112 eP 12 15.41 -1.5  
 SML 1.67 112 iP 12 08.28 -1.5  
 eS 12 19.10  
 SPU 1.67 112 eP 12 16.17 -1.5  
 eS 12 32.53  
 SUA 1.67 112 eP 12 07.05 -1.5  
 TGL 1.67 112 eP 12 46.95 -1.5  
 TOA 1.67 112 P 12 23.60 -1.5  
 TRF 1.67 112 eP 12 23.75 -1.5  
 TZL 1.67 112 eP 12 28.39 -1.5  
 VLZ 1.67 112 eP 12 22.26 -1.5  
 VZW 1.67 112 eP 12 21.73 -1.5  
 BALM 3.63 97 eP 12 49.20 -1.9  
 56 obs. associated

JAN 24, 1994 10h 11m 57.68± 0.56s  
 43.521 N ± 6.7km 16.490 E ± 6.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 MD 3.1 (TRI). ML 3.0 (TTG).

HVAR 0.34 185 iPg 12 04.80 0.0  
 iSg 12 13.10  
 BRY 1.62 112 iPg 12 25.03 -1.5  
 iSg 12 48.29  
 HCY 1.82 125 iPnd 12 29.35 0.0  
 iSn 12 53.37

NKY 1.97 110 iPnd 12 31.24 -0.3  
 iSn 12 58.44

BDV 2.12 125 iPnd 12 33.67 0.1  
 iSn 13 01.24

PLE 2.12 94 iPnd 12 34.34 0.5  
 iSn 13 02.91

VBY 2.17 336 ePn 12 33.40 -0.9  
 iSn 13 02.40

TTG 2.31 117 iPnd 12 36.77 0.5  
 iSn 13 06.49

RIY 2.36 321 e(Pn) 12 38.40 1.3  
 PTJ 2.41 351 ePn 12 35.00 -2.8X  
 iSn 13 06.60

ULC 2.56 127 iPnd 12 39.58 -0.3  
 iSn 13 11.27

IVA 2.58 103 iPnc 12 40.74 0.5  
 iSn 13 13.70

PVY 2.72 109 iPnd 12 42.82 0.6  
 iSn 13 16.97

TRI 2.93 319 e(Pn) 12 50.90 5.8X  
 e 13 01.20  
 e 13 25.70  
 e(Sg) 13 31.20

VOY 3.12 325 ePn 12 47.40 -0.5  
 eSn 13 27.20

OHR 4.00 126 e(Pn) 13 23.00 22.6X  
 S.D. = 0.8 on 13 of 16 obs.

% JAN 24, 1994 10h 42m 49.10± 0.92s  
 39.618 N ± 7.4km 29.411 E ± 8.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.61 269 ePg 43 01.20 -0.2  
 eSg 43 12.20

IZI 0.72 4 ePg 43 02.80 -0.5  
 eSg 43 13.80

ALT 0.78 136 ePg 43 04.50 0.1  
 eSg 43 16.50

YLV 0.95 358 ePn 43 08.10 0.9  
 EYL 1.11 31 ePn 43 09.60 -0.3  
 S.D. = 0.8 on 5 of 5 obs.

& JAN 24, 1994 10h 48m 27.76s  
 34.351 N 118.562 W  
 DEPTH = 14.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.5 (GS).  
 Double event.

SSK 0.73 101 eP 48 41.08 -0.8  
 ABL 0.74 313 iPc 48 40.91 -1.1



24d 10h

S 48 51.78  
 PEC 1.25 111 eP 48 49.26 -1.3  
 S 49 06.93  
 ISA 1.31 3 eP 48 50.62 -1.0  
 BCH 1.50 304 eP 48 53.59 -0.8  
 GSC 1.73 56 ePd 48 56.95 -0.7  
 PLM 1.73 125 eP 48 56.47 -1.2  
 PHAM 2.11 315 eP 49 01.68 -1.4  
 MTUM 3.00 360 (P) 49 18.51 2.7  
 TPNV 3.20 35 (P) 49 16.64 -2.1  
 MMPM 3.27 354 (P) 49 20.90 1.0  
 MEMM 3.32 355 (P) 49 19.89 -0.4  
 GLA 3.37 112 (P) 49 21.92 0.9  
 BONR 3.60 3 (P) 49 24.70 0.1  
 ARN 3.84 322 (P) 49 27.90 0.2  
 COE 3.85 320 (P) 49 27.46 -0.3  
 TNP 3.88 16 (P) 49 27.28 -1.1  
 CMB 3.96 339 eP 49 28.32 -1.1  
 ARUT 5.38 49 (P) 49 50.01 0.3  
 19 obs. associated

? JAN 24, 1994 11h 48m 52.99± 8.66s  
 39.150 N ± 52.2km 29.238 E ± 63.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

ALT 0.69 98 ePg 49 06.50 -0.1  
 IZI 1.20 9 ePg 49 14.80 -0.6  
 eSg 49 29.00  
 YLV 1.42 4 ePn 49 19.00 0.1  
 EYL 1.58 26 ePn 49 21.80 0.6  
 S.D. = 0.9 on 4 of 4 obs.

? JAN 24, 1994 11h 53m 43.20± 0.96s  
 39.629 N ± 8.3km 29.413 E ± 8.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.61 268 ePg 53 55.60 0.1  
 eSg 54 05.60  
 IZI 0.71 4 ePg 53 56.80 -0.4  
 ALT 0.79 136 ePg 53 58.50 -0.1  
 EYL 1.10 31 ePn 54 04.30 0.4  
 S.D. = 0.6 on 4 of 4 obs.

? JAN 24, 1994 12h 23m 27.24± 2.96s  
 39.640 N ± 14.3km 29.386 E ± 35.2km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

IZI 0.70 5 ePg 23 39.80 -1.3  
 eSg 23 50.00  
 ALT 0.81 136 ePg 23 43.00 0.0  
 YLV 0.93 359 ePn 23 46.00 1.0  
 EYL 1.10 32 ePn 23 48.20 0.3  
 S.D. = 1.7 on 4 of 4 obs.

? JAN 24, 1994 12h 24m 02.94± 5.09s  
 36.469 N ± 45.7km 2.835 W ± 9.5km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 3.1 (MDD).

EGUA 0.69 302 iPc 24 16.29 -0.3  
 eS 24 25.30  
 ENIJ 0.71 45 iPc 24 16.85 -0.1  
 eS 24 25.90  
 ECOG 1.00 324 iPc 24 21.57 -0.4  
 eS 24 31.50  
 ELOJ 1.26 303 eP 24 26.83 0.5  
 eS 24 41.50  
 EHUE 1.36 8 eP 24 28.29 0.3  
 eS 24 43.50  
 ELUQ 1.58 314 eP 24 34.00 2.9X  
 eS 24 52.40  
 EBAN 1.85 336 eP 24 37.27 2.2X  
 eS 24 57.20  
 EVIA 2.18 7 eP 24 43.80 3.9X  
 eS 25 06.70  
 EHOR 2.35 306 eP 24 47.00 4.8X  
 eS 25 12.70  
 S.D. = 0.5 on 5 of 9 obs.

& JAN 24, 1994 12h 39m 10.70s

34.278 N 118.463 W  
 DEPTH = 7.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.0 (GS).  
 SSK 0.64 96 iPd 39 22.70 -0.9  
 ABL 0.85 313 eP 39 24.89 -2.6  
 PEC 1.15 109 iPc 39 30.92 -1.5  
 eS 39 46.17  
 ISA 1.38 360 eP 39 34.59 -1.8  
 BCH 1.61 305 eP 39 38.23 -1.5  
 GSC 1.70 53 iPc 39 39.64 -1.4  
 MTUM 3.07 359 ePg 40 06.33 5.7  
 TPNV 3.22 33 ePn 40 01.12 -1.7  
 GLA 3.27 111 ePn 40 03.03 -0.4  
 BONR 3.67 2 ePg 40 17.35 8.0  
 ARUT 5.37 48 ePn 40 32.04 -1.3  
 MSU 6.60 48 (P) 40 48.90 -1.9  
 12 obs. associated

? JAN 24, 1994 13h 06m 39.45± 5.61s  
 39.455 N ± 46.8km 28.917 E ± 11.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.27 304 iPg 06 45.10 -0.1  
 iSg 06 51.60  
 IZI 0.98 26 ePn 06 57.20 -0.9  
 YLV 1.16 17 ePn 07 02.00 0.7  
 EYL 1.46 40 ePn 07 06.20 0.2  
 S.D. = 1.2 on 4 of 4 obs.

? JAN 24, 1994 13h 46m 12.83± 0.77s  
 39.646 N ± 6.5km 29.472 E ± 7.1km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.65 267 ePg 46 25.60 -0.3  
 eSg 46 35.60  
 IZI 0.69 0 iPg 46 26.20 -0.3  
 eSg 46 36.20  
 ALT 0.77 140 ePg 46 28.00 0.1  
 YLV 0.92 355 ePn 46 30.90 0.4  
 EYL 1.06 30 ePn 46 32.70 -0.2  
 EDC 1.42 300 ePn 46 39.00 0.3  
 S.D. = 0.4 on 6 of 6 obs.

& JAN 24, 1994 13h 47m 12.33s  
 34.381 N 116.458 W  
 DEPTH = 2.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

PEC 0.76 230 iPd 47 26.47 -1.0  
 eS 47 36.64  
 GSC 0.96 343 iPc 47 30.44 -1.0  
 SSK 1.04 261 eP 47 31.60 -1.1  
 eS 47 45.71  
 PLM 1.08 198 iPd 47 32.34 -1.1  
 eS 47 47.47  
 GLA 1.90 134 ePn 47 42.93 -3.1  
 ISA 2.09 308 ePn 47 47.50 -1.4  
 TPNV 2.57 4 ePn 47 54.25 -1.5  
 BCH 3.09 286 ePn 48 02.14 -1.0  
 MTUM 3.42 331 ePg 48 16.01 8.0  
 ARUT 4.19 35 ePn 48 17.07 -1.7  
 10 obs. associated

? JAN 24, 1994 13h 50m 28.67± 2.85s  
 41.083 N ± 26.6km 28.753 E ± 10.2km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

ISK 0.23 94 iPg 50 33.20 -0.2  
 eSg 50 36.70  
 HRT 0.74 110 ePg 50 43.00 -0.5  
 IZI 0.92 143 ePg 50 46.70 -0.2  
 eSg 51 00.70  
 EDC 1.00 223 ePn 50 48.00 -0.1  
 EYL 1.18 115 ePn 50 52.20 0.9  
 S.D. = 0.7 on 5 of 5 obs.

? JAN 24, 1994 14h 06m 19.74± 0.62s  
 37.266 N ± 5.9km 3.196 W ± 5.0km

DEPTH = 10.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.6 (MDD).

ECOG 0.30 272 iPc 06 26.06 0.1  
 eS 06 30.20  
 EGUA 0.52 214 eP 06 30.60 0.3  
 eS 06 37.90  
 EHUE 0.73 41 eP 06 34.20 0.1  
 eS 06 42.50  
 ENIJ 0.84 110 eP 06 35.80 -0.2  
 eS 06 48.80  
 ELUQ 0.90 289 eP 06 36.52 -0.5  
 eS 06 48.10  
 EBAN 1.01 333 eP 06 39.09 0.2  
 eS 06 51.50  
 EVIA 1.48 22 eP 06 46.54 0.1  
 eS 07 04.80  
 S.D. = 0.3 on 7 of 7 obs.

? JAN 24, 1994 14h 21m 44.23± 0.94s  
 39.651 N ± 7.5km 29.468 E ± 9.2km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

DST 0.65 266 iPg 21 57.00 -0.2  
 eSg 22 08.60  
 IZI 0.68 0 iPg 21 57.20 -0.6  
 eSg 22 08.20  
 ALT 0.78 140 ePg 21 59.60 0.2  
 YLV 0.92 355 ePn 22 03.00 1.2  
 EYL 1.06 30 ePn 22 03.70 -0.5  
 S.D. = 1.0 on 5 of 5 obs.

? JAN 24, 1994 14h 39m 44.44± 1.08s  
 40.385 N ± 10.7km 28.892 E ± 6.2km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

YLV 0.41 64 iPg 39 52.90 0.2  
 eSg 39 58.00  
 IZI 0.45 96 iPg 39 54.20 0.8  
 iSg 39 59.70  
 ISK 0.69 11 ePg 39 59.00 0.7  
 HRT 0.73 53 ePg 39 58.00 -1.1  
 EDC 0.79 268 iPg 40 00.00 -0.2  
 eSg 40 11.00  
 EYL 0.98 79 iPg 40 03.20 -0.4  
 eSg 40 16.70  
 S.D. = 0.9 on 6 of 6 obs.

JAN 24, 1994 14h 56m 45.96± 1.27s  
 2.845 S ± 7.7km 141.901 E ± 8.2km  
 DEPTH = 33.0 ± 11.8 km  
 4.9mb (15 obs.)  
 NEAR N COAST OF NEW GUINEA, PNG. (200)

WWKK 1.89 114 e(P) 57 10.60 -5.9X  
 OKTD 2.56 194 eP 57 27.90 1.8  
 MNDI 3.73 152 eP 57 44.00 1.2  
 MDG 4.55 122 eP 57 53.30 -1.0  
 LAT 6.34 127 eP 58 19.50 -0.1  
 PMG 8.35 142 eP 58 40.00 -7.8X  
 MTN 14.57 226 eP 00 10.00 -1.7  
 QIS 17.75 187 eP 00 51.60 -0.7  
 KNA 18.21 224 eP 00 57.50 -0.5  
 WB2 18.52 203 eP 00 58.30 -3.6X  
 i 01 01.50  
 ASPA 22.10 200 iPc 01 38.40 -1.8X  
 0.7s 15.40nm 4.5mb  
 eS 05 35.00  
 WARB 27.44 211 eP 02 30.20 -0.8  
 0.8s 47.00nm 5.2mb  
 ARMA 28.93 162 eP 02 45.50 1.0  
 0.9s 8.00nm 4.4mb  
 DZM 30.55 131 iPc 02 59.10 0.1  
 FORT 30.71 204 eP 02 58.50 -1.7  
 ADE 32.10 185 e(P) 03 10.70 -1.7  
 CNB 33.04 169 eP 03 20.30 -0.3  
 0.7s 12.00nm 4.9mb  
 COOL 34.09 213 eP 03 30.50 0.7  
 TOO 34.72 175 eP 03 36.70 1.7  
 1.0s 29.00nm 5.2mb  
 MRWA 35.97 221 eP 03 43.50 -2.3X  
 0.7s 13.00nm 5.0mb



24d 15h

GYA 44.81 313 P 05 00.20 1.2  
1.2s 16.00nm 4.8mb  
KMI 47.06 309 Pc 05 17.80 0.9  
1.0s 10.00nm 4.8mb  
pP 05 22.80 17kmX  
XAN 48.07 323 P 05 23.70 -0.8  
CN2 48.73 344 eP 05 29.00 -0.4  
BJI 48.76 334 eP 05 24.00 -5.6X  
2.0s 32.00nm 5.0mb  
CD2 49.46 316 Pc 05 35.60 0.3  
1.1s 25.00nm 5.2mb  
LZH 52.55 321 eP 05 58.50 -0.3  
1.8s 41.00nm 5.1mb  
GTA 57.11 322 Pd 06 31.00 -0.9  
1.0s 16.00nm 5.0mb  
sP 06 40.50  
LSA 58.30 308 eP 06 41.00 0.2  
1.0s 9.10nm 4.8mb  
WMQ 67.12 320 P 07 38.60 -0.1  
1.0s 15.00nm 5.0mb  
pP 07 43.60 16kmX  
IMA 82.48 22 eP 08 46.50 -19.9X  
1.1s 4.40nm  
MAIO 85.55 307 eP 09 23.00 0.4  
YKA 98.74 27 P 10 21.10 -2.1  
1.0s 0.80nm 4.2mb  
MOCB 143.94 133 PKP 16 31.90 10.7X  
LPB 144.66 124 PKP 16 23.00 0.5  
LPAZ 144.75 124 iPKPc 16 21.10 -1.8  
CCH 145.81 127 PKP 16 23.60 -0.7  
KIC 146.57 277 PKP 16 27.07 1.8  
1.1s 32.50nm  
TIC 146.83 278 PKP 16 26.83 1.2  
1.0s 14.50nm  
LIC 146.87 277 PKP 16 27.01 1.3  
1.2s 19.50nm  
LKO 147.02 283 PKP 16 27.05 1.1  
0.7s 5.50nm  
S.D. = 1.2 on 33 of 41 obs.

& JAN 24, 1994 15h 33m 07.11s  
58.092 N 151.723 W  
DEPTH = 11.4km  
KODIAK ISLAND REGION (13)  
<AEIC>. ML 2.8 (AEIC).

KDC 0.54 230 eP 33 17.14 -0.8  
SYI 0.63 326 eP 33 17.06 -2.5  
CDD 1.31 311 eP 33 29.25 -2.0  
eS 33 46.52  
XLV 1.37 0 P 33 30.50 -1.5  
CNFM 1.46 10 eP 33 31.33 -2.0  
eS 33 51.03  
AUI 1.53 325 eP 33 31.88 -2.4  
AUE 1.53 327 P 33 33.20 -1.2  
AGU 1.55 326 eP 33 32.32 -2.4  
AUL 1.57 326 eP 33 33.18 -1.7  
HOM 1.57 1 eP 33 32.99 -1.9  
AUW 1.57 325 eP 33 32.37 -2.6  
OPT 1.75 334 eP 33 35.98 -1.6  
eS 33 59.27  
ILIM 2.09 343 eP 33 41.01 -1.5  
PDB 2.13 324 P 33 42.00 -1.0  
SEW 2.33 29 eP 33 43.62 -2.3  
RS2 2.44 348 eP 33 45.87 -1.7  
REF 2.46 349 eP 33 45.36 -2.5  
RDW 2.46 347 eP 33 45.94 -2.0  
SLKM 2.54 17 eP 33 46.35 -2.6  
NCT 2.55 346 eP 33 47.33 -1.8  
DFR 2.56 349 eP 33 47.07 -2.1  
NKA 2.67 5 eP 33 50.31 -0.4  
MPA 2.69 26 eP 33 48.56 -2.5  
BKG 3.00 355 eP 33 52.59 -2.9  
SPU 3.10 357 eP 33 54.32 -2.6  
CP2 3.19 355 eP 33 56.18 -2.2  
CRP 3.19 356 eP 33 55.32 -3.0  
PWL 3.27 30 eP 33 56.42 -2.8  
SUA 3.42 8 eP 33 58.68 -2.8  
PWA 3.69 14 P 34 03.00 -2.2  
CFI 3.69 31 eP 34 01.77 -3.5  
PMR 3.75 19 eP 34 06.79 0.8  
FID 3.78 43 eP 34 01.52 -5.0  
SKT 3.90 1 eP 34 05.30 -2.9  
VLZ 4.10 40 eP 34 08.07 -2.8  
BALM 5.61 54 eP 34 29.40 -3.1  
FBA 7.08 14 eP 34 48.46 -4.6  
37 obs. associated

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? JAN 24, 1994 15h 51m 23.90± 7.09s  
38.697 N ±92.2km 26.558 W ±33.2km  
DEPTH = 10.0km (geophysicist)  
AZORES ISLANDS (405)  
Felt (III) on Terceira Island at  
Angra do Heroismo, Terra Cha,  
Ribeirinha and Santa Barbara.

ADH 0.53 266 iP 51 34.65 0.0  
iS 51 40.15  
FAC 1.17 142 iP 51 45.75 0.1  
i(S) 52 00.50  
CML 1.22 139 eP 51 46.50 -0.1  
i(S) 52 01.75  
LFA 1.25 137 iP 51 47.25 0.0  
iS 52 02.75  
SDCA 1.33 132 iP 51 48.50 0.0  
iS 52 04.50  
S.D. = 0.1 on 5 of 5 obs.

% JAN 24, 1994 15h 57m 45.09± 0.96s  
44.998 N ± 7.0km 8.184 E ±10.3km  
DEPTH = 33.0km (normal)  
NORTHERN ITALY (545)  
ML 2.6 (GEN).

PCP 0.52 150 P 57 57.69 1.6  
S 58 01.08  
ORX 0.65 347 P 57 57.71 -0.2  
S 58 02.22  
BHB 0.67 257 P 57 58.93 0.8  
RSP 0.67 283 P 57 58.29 0.0  
S 58 09.41  
ROB 0.74 198 P 57 59.11 0.0  
S 58 10.78  
FIN 0.79 179 P 57 58.38 -1.4  
LSD 0.86 303 P 58 00.67 -0.4  
S 58 13.98  
PZZ 0.92 238 P 58 02.27 0.5  
ENR 0.94 216 P 58 02.38 0.3  
IMI 1.11 191 P 58 03.23 -1.2  
S.D. = 1.0 on 10 of 10 obs.

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JAN 24, 1994 16h 11m 24.19± 0.22s  
1.005 N ± 3.5km 127.785 E ± 6.5km  
DEPTH = 24.5km ( 7 depth phases)  
5.1mb ( 24 obs.) 4.6MsZ ( 9 obs.)  
HALMAHERA, INDONESIA (267)  
Mw 5.4 (HRV).  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 20C  
Centroid Location:  
Origin Time 16:11:27.5 0.5  
Lat 1.09N 0.06 Lon 127.45E 0.08  
Dep 15.0 FIX Half-duration 1.1  
Moment Tensor; Scale 10\*\*17 Nm  
Mrr=-0.31 0.05 Mtt= 0.69 0.05  
Mff=-0.38 0.07 Mrt= 1.19 0.22  
Mrf=-0.15 0.23 Mtf=-0.74 0.06  
Principal Axes:  
T Val= 1.71 Plg=30 Azm= 22  
N -0.49 30 272  
P -1.22 45 146  
Best Double Couple: Mo=1.5\*10\*\*17  
NP1: Strike=163 Dip=32 Slip= -16  
NP2: 267 82 -121

DAV 6.43 340 eP+ 13 04.00 4.1X  
CTB 7.12 330 iPd 13 19.00 9.5X  
BIP 7.33 348 eP 13 13.00 0.5  
KKM 12.58 294 ePd 14 35.50 10.8X  
MTN 14.16 167 eP 14 44.00 -1.4  
KNA 16.68 177 eP 15 18.00 0.0  
PJG 21.03 53 eP 16 08.70 0.0  
GUA 21.04 53 eP 16 08.20 -0.6  
WB2 21.79 163 iPc 16 16.20 -0.2  
0.5s 84.10nm 5.4mb  
i 16 18.70 9kmX  
eS 20 16.30  
PMG 21.89 119 eP 16 16.00 -1.4  
QIS 24.36 152 eP 16 43.00 1.4  
ASPA 25.23 167 iPd 16 50.10 0.1  
0.6s 68.60nm 5.5mb  
iS 21 24.90  
QZH 25.40 340 eP 16 52.10 0.6

Z 24s 2.02um 4.6MsZ  
eS 21 20.00  
sS 21 31.00  
WARB 27.05 182 eP 17 07.80 1.0  
SNG 27.77 283 eP 17 28.50 15.1X  
LOE 30.37 304 eP 17 36.00 -0.7  
FORT 31.61 180 eP 17 47.00 -0.4  
NJ2 32.01 346 eP 17 54.50 3.6X  
Z 20s 0.30um 4.0MsZ  
WHN 32.03 338 P 17 52.00 0.9  
1.4s 68.00nm 5.4mb  
sP 18 04.00  
MRWA 32.10 200 eP 17 51.00 -0.8  
0.8s 21.00nm 5.1mb  
COOL 32.34 191 eP 17 52.50 -1.3  
GYA 32.45 323 P 18 00.00 5.0X  
Z 20s 0.73um 4.4MsZ  
BAL 33.16 198 eP 18 01.50 0.5  
CHTO 33.36 304 eP 18 03.10 0.2  
KLB 33.79 195 eP 18 06.00 -0.4  
KMI 34.06 317 Pc 18 09.00 -0.1  
1.0s 30.00nm 5.2mb  
Z 20s 1.20um 4.6MsZ  
eS 23 32.00  
S 23 38.00  
sS 23 54.00  
MUN 34.59 197 eP 18 12.50 -0.8  
NWA0 35.19 196 eP 18 16.00 -2.5X  
STK 35.23 159 iPc 18 18.70 -0.1  
1.3s 15.00nm 4.8mb  
TIA 36.40 345 Pd 18 27.80 -0.9  
MAT 36.65 14 iPc 18 26.80 -4.0X  
eS 24 06.00  
ADE 37.22 165 eP 18 36.60 1.0  
XAN 37.31 334 P 18 35.60 -0.8  
1.2s 180.00nm 5.8mb  
Z 24s 0.85um 4.5MsZ  
S 24 20.00  
sS 24 36.00  
SS 26 51.00  
CD2 37.46 325 Pc 18 37.90 0.2  
1.1s 30.00nm 5.0mb  
S 24 25.00  
DL2 38.14 352 eP 18 44.00 0.8  
ARMA 38.63 146 iPd 18 48.60 1.0  
1.0s 20.00nm 4.8mb  
TIY 39.17 341 Pd 18 52.50 0.5  
Z 22s 1.04um 4.6MsZ  
N 11s 0.34um  
BWA 40.21 153 eP 19 01.60 1.0  
i 19 09.20 26km  
BJI 40.26 346 eP 19 00.00 -0.9  
1.0s 30.00nm 5.0mb  
Z 20s 0.72um 4.5MsZ  
N 14s 0.40um  
eS 25 08.00  
eSS 28 04.00  
SNY 40.81 355 Pd 19 04.20 -1.1  
1.0s 25.00nm 4.9mb  
Z 20s 0.73um 4.5MsZ  
CAN 41.22 153 eP 19 09.90 1.1  
i 19 17.50 26km  
LZH 41.37 330 Pd 19 11.00 0.7  
1.8s 150.00nm 5.4mb  
Z 25s 0.54um 4.3MsZ  
E 10s 0.26um  
pP 19 17.00 20km  
sP 19 21.50  
eS 25 23.00  
CNB 41.38 153 eP 19 08.20 -2.0  
1.2s 35.00nm 5.0mb  
TOO 41.73 159 eP 19 14.80 1.8  
1.0s 80.00nm 5.4mb  
SHL 42.35 308 iP 19 19.00 0.5  
eS 25 26.00  
BTO 42.58 340 eP 19 20.00 -0.1  
N 18s 0.75um  
E 20s 1.09um  
CN2 42.66 358 eP 19 19.30 -1.2  
1.0s 8.40nm 4.4mb  
MDJ 43.45 2 eP 19 25.60 -1.3  
1.1s 25.00nm 4.9mb  
LSA 45.04 313 P 19 42.00 1.5  
1.4s 45.00nm 5.2mb  
pP 19 51.50 32km  
sP 19 59.50  
eS 26 13.00



24d 16h

esS 26 32.50  
GTA 45.96 330 eP 19 47.00 -0.3  
1.2s 24.00nm 5.0mb  
Z 20s 0.86um 4.7msz  
pp 19 53.50 22km  
GBA 51.36 287 Pd 20 29.00 -0.3  
1.0s 16.01nm 4.9mb  
NDI 55.51 305 iP 20 59.00 -0.9  
WMQ 55.55 326 iPc 21 00.00 0.0  
1.0s 35.00nm 5.3mb  
Z 20s 0.69um 4.7msz  
pp 21 06.30 21km  
KSH 60.68 316 P 21 37.00 0.9  
Z 20s 1.23um 5.0msz  
N 12s 0.49um  
E 12s 0.46um  
pp 21 45.00 26km  
sP 21 51.00  
MAIO 72.00 308 iPc 22 48.00 -0.3  
SDN 78.84 34 eP 23 21.52 -5.1X  
0.8s 54.39nm 5.6mb  
TTA 82.84 27 eP 23 48.70 0.9  
IMA 84.43 24 eP 23 57.40 1.5  
0.8s 4.90nm 4.8mb  
SLKM 85.18 29 eP 23 57.23 -2.3X  
PWA 85.47 28 eP 24 01.70 0.8  
0.8s 27.50nm 5.5mb  
FBA 86.72 25 eP 24 07.90 0.8  
BALM 89.06 29 eP 24 18.12 -0.5  
OBN 89.86 325 (P) 24 25.00 2.7X  
YKA 101.52 25 Pd iff 25 14.00 -1.2  
0.9s 0.70nm 4.2mb  
S.D. = 0.9 on 53 of 64 obs.

\* JAN 24, 1994 16h 17m 36.11± 2.48s  
1.206 N ±11.5km 128.055 E ±23.3km  
DEPTH = 74.6 ± 25.2 km  
4.8mb ( 9 obs.) 4.4msz ( 1 obs.)  
HALMAHERA, INDONESIA (267)

BIP 7.20 346 eP 19 21.00 0.1  
WB2 21.91 164 eP 22 23.30 -1.4  
1.0s 28.20nm 4.6mb  
eS 26 16.10  
QIS 24.41 153 eP 22 49.20 0.2  
ASPA 25.37 167 eP 22 59.30 1.2  
1.2s 44.00nm 4.8mb  
iS 27 28.10  
STK 35.32 160 eP 24 25.00 -1.1  
1.0s 5.70nm 4.5mb  
MAT 36.39 14 eP 24 33.00 -2.1  
XAN 37.25 333 P 24 42.50 0.1  
1.0s 14.00nm 4.8mb  
ARMA 38.64 146 iPc 24 55.10 0.9  
0.7s 5.00nm 4.6mb  
TIY 39.07 340 eP 24 58.30 0.6  
BJI 40.14 346 eP 25 06.50 0.2  
1.5s 28.00nm 5.0mb  
Z 20s 0.54um 4.4msz  
LZH 41.33 330 Pc 25 17.50 1.1  
1.5s 58.00nm 5.2mb  
TOO 41.82 159 eP 25 21.00 0.8  
1.0s 20.00nm 4.9mb  
GTA 45.93 329 eP 25 54.00 0.6  
1.0s 8.00nm 4.6mb  
GBA 51.56 286 P 26 35.00 -2.1  
WMQ 55.54 325 P 27 06.50 0.4  
MAIO 72.09 308 eP 28 55.00 0.3  
S.D. = 1.2 on 16 of 16 obs.

? JAN 24, 1994 16h 25m 18.57± 3.08s  
32.023 S ±39.4km 68.185 W ±14.9km  
DEPTH = 110.0km (geophysicist)  
MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.42 354 iPc 25 35.40 0.2  
S 25 47.90  
RTLL 0.73 341 iPd 25 37.50 0.0  
RTCB 0.75 315 iPd 25 37.50 -0.2  
S 25 50.00  
RTRS 2.15 329 iPc 25 54.00 0.1  
S 26 20.00  
RTPR 2.24 40 iPc 25 55.00 -0.1  
S 26 23.00  
S.D. = 0.2 on 5 of 5 obs.

& JAN 24, 1994 16h 25m 48.59s

34.303 N 118.403 W  
DEPTH = 6.0km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 2.5 (PAS), 2.7 (GS).

SSK 0.60 99 eP 25 59.66 -0.9  
eS 26 08.68  
PEC 1.11 111 eP 26 08.53 -1.3  
ISA 1.36 358 eP 26 12.80 -1.3  
PLM 1.59 126 eP 26 15.92 -1.7  
BCH 1.64 303 eP 26 18.38 0.2  
GSC 1.65 52 eP 26 17.23 -1.1  
TPNV 3.17 33 ePn 26 39.95 -0.2  
7 obs. associated

\* JAN 24, 1994 16h 34m 40.80± 0.94s  
49.182 N ± 7.7km 6.951 E ± 9.3km  
DEPTH = 10.0km (geophysicist)  
GERMANY (543)  
ML 2.0 (UCC).

RUP 0.53 8 ePg 34 51.50 0.1  
WLF 0.71 313 iPd 34 54.23 -0.5  
iS 35 03.53  
ABH 0.80 29 ePg 34 56.40 0.0  
FEL 1.49 151 ePg 35 07.60 -0.1  
ENN 1.72 338 iPg 35 13.90 3.0X  
0.6s 8.30nm  
eSg 35 36.00  
DOU 1.78 302 P 35 12.40 0.5  
iS 35 33.00  
S.D. = 0.6 on 5 of 6 obs.

? JAN 24, 1994 16h 41m 43.69± 3.98s  
2.096 S ±41.2km 142.080 E ±13.3km  
DEPTH = 33.0km (normal)  
4.2mb ( 2 obs.)  
NEAR N COAST OF NEW GUINEA, PNG. (200)

WWKK 2.16 135 e(P) 42 17.20 -0.9  
OKTD 3.32 194 eP 42 34.00 -0.7  
MNDI 4.33 159 eP 42 50.00 0.9  
MDG 4.84 130 eP 42 59.10 3.0X  
PMG 8.85 145 eP 43 48.00 -4.3X  
MTN 15.22 225 eP 45 17.00 -0.9  
KNA 18.87 223 eP 46 04.00 0.1  
WB2 19.28 203 eP 46 05.00 -3.7X  
0.6s 8.60nm 4.2mb  
i 46 10.00  
eS 49 30.90  
ASPA 22.86 200 eP 46 47.10 1.7  
0.5s 5.10nm 4.3mb  
eS 50 51.40  
WARB 28.17 210 eP 47 35.20 -0.1  
LPB 144.92 123 PKP 01 34.00 13.4X  
LPZ 145.01 123 PKP 01 26.20 5.1X  
LR 21 12.00  
CCH 146.11 126 PKP 01 34.10 11.6X  
RSTA 151.31 159 (PKP) 01 45.00 15.0X  
S.D. = 1.2 on 7 of 14 obs.

\* JAN 24, 1994 16h 56m 40.21± 0.79s  
12.395 N ±14.8km 142.650 E ±14.8km  
DEPTH = 33.0km (normal)  
5.0mb ( 6 obs.)  
SOUTH OF MARIANA ISLANDS (210)

GUMO 2.47 61 eP 57 19.40 0.4  
eS 57 44.20  
PJG 2.47 61 eP 57 19.40 0.4  
GUA 2.48 62 eP 57 19.70 0.5  
eS 57 44.50  
WB2 33.16 194 iPd 03 15.90 0.0  
0.7s 7.40nm 4.7mb  
iPcP 03 36.40  
BJI 36.09 324 eP 04 01.00 20.1X  
1.3s 12.00nm  
ASPA 36.85 193 iPc 03 47.80 0.4  
0.4s 39.30nm 5.6mb  
WARB 41.39 202 iPc 04 27.10 2.0  
0.6s 25.00nm 5.1mb  
DZM 41.45 146 iPc 04 24.70 -1.1  
ARMA 43.43 169 eP 04 41.10 -0.8  
STK 44.03 181 eP 04 45.80 -0.8  
0.5s 3.40nm 4.4mb  
COOL 47.74 205 eP 05 16.20 0.1  
MRWA 48.72 211 iPd 05 24.20 0.5

0.4s 6.00nm 5.0mb  
BAL 49.50 210 eP 05 29.50 -0.2  
TOO 49.77 177 iPd 05 32.20 0.5  
0.7s 17.00nm 5.2mb  
KLB 49.83 208 eP 05 32.00 -0.2  
MUN 50.87 209 eP 05 40.00 -0.1  
YKA 84.90 27 P 09 11.30 -1.6  
0.7s 0.50nm 3.8mb X  
LPZ 149.95 101 PKP 16 28.30 2.9X  
LPB 149.96 102 ePKP 16 27.00 1.8X  
S.D. = 0.9 on 16 of 19 obs.

JAN 24, 1994 17h 21m 31.07± 0.29s  
1.078 N ± 5.7km 127.891 E ±10.8km  
DEPTH = 23.7km ( 8 depth phases)  
4.9mb ( 19 obs.)  
HALMAHERA, INDONESIA (267)

DAV 6.40 339 eP 23 07.90 1.5  
CTB 7.11 329 eP 23 21.00 4.7X  
BIP 7.29 347 eP 23 18.40 -0.4  
MAP 9.97 337 eP 23 56.00 -0.1  
MTN 14.20 167 eP 24 51.50 -1.4  
WWKK 16.40 107 eP 25 24.60 3.1X  
KNA 16.74 177 eP 25 24.50 -1.3  
LAT 20.57 112 eP 26 10.80 -0.1  
WB2 21.83 163 iPc 26 22.90 -0.9  
1.0s 62.70nm 5.0mb  
iPp 26 40.40 80kmX  
eS 30 20.10  
PMG 21.83 119 eP 26 25.00 1.2  
QIS 24.37 153 eP 26 49.50 0.8  
ASPA 25.28 167 iPc 26 57.70 0.3  
0.9s 53.00nm 5.2mb  
iS 31 31.00  
WARB 27.13 182 eP 27 15.50 1.1  
NJ2 31.97 345 eP 27 53.00 -4.5X  
WHN 32.00 338 eP 27 58.50 0.7  
pP 28 06.50 28km  
GYA 32.46 323 P 28 03.20 1.1  
CHTO 33.41 304 eP 28 14.00 3.7X  
KMI 34.08 317 Pd 28 18.20 1.9  
1.2s 40.00nm 5.2mb  
STK 35.26 160 eP 28 25.40 -0.6  
0.7s 9.50nm 4.8mb  
TIA 36.36 345 Pd 28 34.00 -1.3  
MAT 36.56 14 iPd 28 33.30 -3.7X  
ADE 37.26 165 iPc 28 43.80 0.9  
XAN 37.29 334 P 28 42.50 -0.7  
1.0s 40.00nm 5.2mb  
pP 28 52.30 33km  
CD2 37.46 325 eP 28 44.90 0.2  
0.7s 17.00nm 5.0mb  
DL2 38.08 352 eP 28 52.10 2.4  
ARMA 38.63 146 iPc 28 54.80 0.2  
0.9s 16.00nm 4.8mb  
TIY 39.14 340 Pc 28 58.00 -0.7  
Z 26s 0.57um 4.3mszX  
BJI 40.22 346 eP 29 06.50 -1.0  
1.0s 28.00nm 4.9mb  
Z 16s 0.29um 4.2mszX  
pP 29 12.50 20km  
BWA 40.23 153 eP 29 07.80 0.1  
i 29 16.80 30km  
i 29 26.20  
SNY 40.75 355 iPd 29 11.00 -0.8  
1.0s 50.00nm 5.2mb  
CAN 41.24 153 eP 29 14.90 -1.1  
i 29 21.30 22km  
LZH 41.36 330 Pc 29 17.80 0.6  
1.4s 100.00nm 5.4mb  
Z 20s 0.25um 4.1msz  
pP 29 23.50 19km  
sP 29 27.50  
TOO 41.76 159 iPd 29 22.00 1.7  
0.9s 37.00nm 5.1mb  
HHC 42.26 342 eP 29 23.00 -1.4  
1.2s 23.00nm 4.8mb  
SHL 42.39 308 iP 29 25.50 -0.3  
CN2 42.59 357 eP 29 25.00 -1.9  
0.8s 9.40nm 4.6mb  
Z 20s 0.62um 4.5msz  
MDJ 43.38 2 Pd 29 32.50 -0.8  
1.0s 21.00nm 4.9mb  
LSA 45.06 313 P 29 49.20 1.4  
1.0s 18.00nm 5.0mb  
GTA 45.95 330 Pc 29 54.00 -0.2



1.0s 16.00nm 4.9mb  
 GBA 51.44 287 P 29 59.50 18km  
 0.6s 5.00nm 4.6mb  
 WMQ 55.55 325 iPd 31 06.00 -1.0  
 1.0s 14.00nm 4.9mb  
 POO 55.74 292 eP 31 08.00 -0.7  
 KSH 60.70 316 P 31 43.80 0.6  
 MAIO 72.04 308 eP 32 55.00 -0.5  
 YKA 101.41 25 Pd 35 20.30 -1.4X  
 0.6s 0.40nm 4.2mb  
 TUL 125.17 43 iPKPd 40 19.80 -12.0X  
 LPB 158.00 135 ePKP 41 30.00 1.4  
 LPAZ 158.14 135 PKP 41 29.10 0.1  
 i 42 03.60

S.D. = 1.1 on 41 of 48 obs.

& JAN 24, 1994 17h 52m 51.39s  
 34.370 N 118.651 W  
 DEPTH = 12.8km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.3 (GS).

ABL 0.67 316 eP 53 03.47 -1.2  
 SSK 0.81 101 ePc 53 06.35 -0.6  
 ISA 1.30 6 ePc 53 14.53 -0.7  
 S 53 31.82  
 PEC 1.33 111 eP 53 14.14 -1.5  
 BCH 1.43 305 eP 53 16.31 -0.8  
 GSC 1.78 58 ePc 53 21.15 -1.0  
 PLM 1.80 124 eP 53 21.19 -1.4  
 PHAM 2.05 316 (P) 53 23.21 -2.7  
 TPNV 3.23 37 eP 53 42.92 0.0  
 MEMM 3.30 356 eP 53 45.93 2.2  
 BONR 3.59 4 (P) 53 49.40 1.2  
 ARN 3.78 323 (P) 53 51.17 0.5  
 TNP 3.88 17 ePg 54 02.89 10.7  
 ARUT 5.43 50 (P) 54 15.46 1.4  
 14 obs. associated

& JAN 24, 1994 18h 05m 59.93s  
 34.368 N 118.654 W  
 DEPTH = 13.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.4 (GS).

ABL 0.67 316 eP 06 11.57 -1.6  
 SSK 0.81 101 eP 06 14.63 -0.9  
 eS 06 26.11  
 ISA 1.30 6 ePd 06 22.75 -1.0  
 PEC 1.33 111 ePc 06 22.65 -1.5  
 eS 06 41.31  
 BCH 1.43 305 eP 06 24.87 -0.8  
 GSC 1.78 58 eP 06 29.51 -1.2  
 PLM 1.80 124 eP 06 29.28 -1.8  
 PHAM 2.05 316 (P) 06 32.78 -1.7  
 MTUM 2.98 1 (Pn) 06 47.81 -0.1  
 TPNV 3.23 37 ePn 06 50.32 -1.2  
 ePg 07 00.96  
 MMPM 3.25 355 ePn 06 52.37 0.5  
 MRCM 3.30 2 ePg 07 00.02 7.5  
 MEMM 3.30 356 (Pn) 06 53.09 0.9  
 GLA 3.45 111 ePn 06 54.34 -0.1  
 BONR 3.59 4 ePg 07 05.75 9.1  
 ARN 3.78 323 eP 06 59.31 0.1  
 TNP 3.88 17 ePg 07 11.58 10.8  
 ARUT 5.43 50 (Pn) 07 22.46 -0.2  
 18 obs. associated

& JAN 24, 1994 18h 16m 29.71s  
 34.358 N 118.562 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.5 (GS).

ABL 0.73 312 eP 16 43.34 -1.0  
 SSK 0.73 101 eP 16 43.73 -0.6  
 eS 16 55.47  
 PEC 1.25 111 ePc 16 52.29 -1.6  
 eS 17 10.07  
 ISA 1.30 3 eP 16 53.39 -1.4  
 BCH 1.50 304 eP 16 56.34 -1.7  
 GSC 1.73 56 eP 17 00.07 -1.2  
 PLM 1.73 125 eP 16 59.49 -2.0  
 eS 17 22.63  
 PHAM 2.11 315 eP 17 05.74 -1.0

MTUM 2.99 360 ePn 17 19.32 -0.1  
 TPNV 3.20 35 ePn 17 20.74 -1.6  
 MMPM 3.27 353 (Pn) 17 23.59 0.1  
 MRCM 3.31 1 ePg 17 32.74 8.7  
 MEMM 3.32 355 (Pn) 17 23.44 -0.4  
 BONR 3.60 3 ePg 17 36.25 8.1  
 CMB 3.95 339 (P) 17 31.44 -1.6  
 ARUT 5.38 49 ePn 17 53.78 0.4  
 DUG 7.41 37 ePg 18 49.68 27.8  
 17 obs. associated

? JAN 24, 1994 18h 22m 42.11± 0.99s  
 6.416 S ±12.5km 146.355 E ±12.7km  
 DEPTH = 60.2 ± 20.2 km  
 3.5mb (1 obs.)  
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY 0.42 294 eP 22 53.60 0.1  
 eS 23 03.20  
 LAT 0.69 111 iPd 22 56.50 0.2  
 MDG 1.29 334 eP 23 04.10 -0.1  
 PMG 3.08 165 eP 23 29.00 -0.3  
 WB2 17.80 220 eP 26 47.50 0.2  
 0.4s 1.60nm 3.5mb  
 S.D. = 0.4 on 5 of 5 obs.

JAN 24, 1994 18h 43m 35.12± 0.38s  
 51.744 N ± 3.7km 153.179 E ± 2.4km  
 DEPTH = 387.4 ± 4.4 km  
 4.9mb (56 obs.)  
 NORTHWEST OF KURIL ISLANDS (220)

SKR 2.13 119 iPnc 44 28.70 -2.4  
 iS 45 12.00  
 PET 3.59 67 iPnd- 44 43.00 0.1  
 YSS 8.30 239 iPnc 45 36.80 2.8X  
 eS 47 12.00  
 KUSJ 10.37 217 eP 45 54.10 -4.2X  
 eS 47 41.30  
 ASAJ 10.39 227 eP 46 00.50 2.0  
 HOOJ 11.53 220 eP 46 08.30 -3.7X  
 eS 48 09.90  
 MRRJ 12.43 226 eP 46 21.10 -1.4  
 eS 48 35.20  
 OFUJ 15.00 217 eP 46 49.10 -1.0  
 eS 49 25.70  
 YAMJ 16.41 219 eP 47 06.00 1.1  
 eS 49 59.20  
 MDJ 17.22 255 eP 47 12.30 -0.7  
 NIIJ 17.63 220 P 47 19.10 1.9  
 KAKJ 18.09 216 eP 47 22.60 0.9  
 MAT 18.55 221 (P) 47 26.00 -0.4  
 (S) 50 35.00  
 IIDJ 19.59 220 P 47 37.40 0.9  
 WKYJ 21.63 223 P 47 56.70 0.5  
 YONJ 21.76 228 P 47 59.40 2.0  
 SNY 22.42 255 Pd 48 03.60 0.2  
 1.0s 42.00nm 4.8mb  
 TKSJ 22.50 225 P 48 04.70 0.4  
 BOD 23.04 301 iPd 48 10.10 1.1  
 0.7s 61.00nm 5.1mb  
 SHNJ 23.75 231 P 48 16.60 0.9  
 CIT 24.24 286 eP 48 21.00 0.9  
 ANM 24.81 43 iPc 48 25.64 0.5  
 KUMJ 25.18 229 P 48 29.60 0.9  
 DL2 25.41 252 eP 48 29.50 -1.1  
 KAGJ 26.28 227 P 48 38.30 -0.3  
 SDN 27.36 64 eP 48 45.94 -2.0  
 0.6s 52.05nm 5.1mb  
 BJI 27.99 260 eP 48 54.00 0.4  
 0.8s 8.00nm 4.1mb  
 TTA 28.81 47 iPc 49 00.73 0.0  
 0.8s 48.69nm 4.9mb  
 SVW 29.09 51 iPc 49 03.46 0.3  
 0.9s 71.99nm 5.0mb  
 e 49 15.17  
 BRW 29.53 30 eP 49 06.75 -0.1  
 IRK 29.63 291 iPd 49 09.00 1.1  
 1.2s 75.00nm 4.9mb  
 IMA 29.86 41 iPc 49 10.00 0.1  
 0.6s 64.65nm 5.1mb  
 TIA 29.87 253 Pd 49 09.20 -0.9  
 HHC 30.35 266 P 49 14.80 0.4  
 0.8s 18.00nm 4.5mb  
 AUP 30.40 54 eP 49 15.94 1.4  
 CP2 30.70 50 iPc 49 17.99 0.6  
 CRP 30.74 50 eP 49 17.05 -0.6

KDC 31.18 57 ePc 49 19.85 -1.4  
 0.4s 22.03nm 4.8mb  
 BTO 31.46 266 eP 49 23.50 -0.4  
 TIY 31.72 260 Pc 49 26.40 0.2  
 0.8s 20.00nm 4.5mb  
 SLKM 31.79 52 ePc 49 25.70 -0.8  
 NJ2 31.83 245 Pc 49 26.00 -1.0  
 0.8s 37.00nm 4.8mb  
 PMR 32.14 49 eP 49 28.49 -0.9  
 0.4s 54.83nm 5.2mb  
 FBA 32.34 43 ePc 49 31.62 0.5  
 TOA 33.43 48 eP 49 43.60 3.1X  
 KLU 33.67 49 iPc 49 42.66 0.2  
 BALM 35.46 49 iPc 49 58.20 0.7  
 XAN 36.28 258 P 50 04.00 -0.6  
 0.9s 7.60nm 4.0mb  
 LZH 38.05 265 iPd 50 20.20 0.9  
 1.2s 130.00nm 5.1mb  
 pP 51 37.50 403kmX  
 PcP 52 25.00  
 GTA 38.49 273 eP 50 23.50 0.6  
 1.0s 61.00nm 4.9mb  
 ScP 55 35.00  
 SIT 40.20 53 eP 50 38.10 1.7  
 0.9s 21.93nm 4.5mb  
 NVS 40.34 303 iPd 50 38.00 0.4  
 1.5s 174.00nm 5.1mb  
 eS 56 16.00  
 CD2 41.59 260 Pc 50 48.00 -0.1  
 1.0s 39.00nm 4.7mb  
 GYA 43.06 252 Pd 50 59.20 -0.8  
 1.0s 40.00nm 4.7mb  
 PcP 52 41.20  
 WMQ 43.35 286 P 51 03.40 1.3  
 0.8s 100.00nm 5.2mb  
 GQP 45.09 224 iP 51 16.00 0.1  
 KMI 46.40 255 Pc 51 25.80 -0.5  
 1.0s 20.00nm 4.4mb  
 YKA 46.96 39 P 51 30.10 0.2  
 0.5s 53.20nm 5.1mb  
 LSA 50.22 269 Pd 51 56.10 0.4  
 0.6s 6.00nm 4.1mb  
 MCW 50.98 58 P 52 00.13 -0.3  
 ARU 51.43 315 iPd 52 04.00 0.4  
 0.8s 100.00nm 5.2mb  
 FRU 51.59 293 iP 52 06.00 1.0  
 1.5s 110.00nm 5.0mb  
 GMW 51.69 59 ePc 52 05.81 0.1  
 JCW 51.75 58 P 52 05.87 -0.3  
 BMW 52.12 60 eP 52 08.65 -0.3  
 RMW 52.27 59 eP 52 10.20 0.1  
 FMW 52.67 59 P 52 12.64 -0.5  
 SHL 52.71 265 iP 52 12.60 -1.0  
 0.8s 48.51nm 4.9mb  
 LON 52.71 59 eP 52 12.69 -0.6  
 SHW 52.83 60 eP 52 14.60 0.3  
 LOE 52.93 249 iPc 52 15.00 0.0  
 WTV 53.10 58 P 52 14.83 -1.2  
 EBG 53.27 59 P 52 17.11 -0.2  
 SAW 53.38 57 P 52 17.21 -0.9  
 RNO 53.46 63 P 52 19.24 0.5  
 CHTO 53.47 253 ePd 52 18.10 -0.8  
 1.0s 38.50nm 4.7mb  
 SSOR 53.56 62 P 52 19.63 0.2  
 DPW 53.90 56 iPc 52 21.45 -0.4  
 WAH2 53.90 58 P 52 21.26 -0.5  
 VBEM 53.90 61 P 52 21.75 -0.3  
 VGB 54.05 60 ePc 52 22.97 0.0  
 NEW 54.21 55 ePd 52 23.63 -0.4  
 0.6s 18.49nm 4.6mb  
 CROR 54.28 61 P 52 24.50 -0.1  
 JBO 54.59 60 P 52 26.42 -0.4  
 VIPM 54.79 61 P 52 28.23 -0.2  
 FHC 55.34 66 (P) 52 33.07 0.9  
 KMPM 55.52 67 ePc 52 34.63 1.2  
 LGPM 55.93 66 ePc 52 37.13 0.8  
 LBFM 56.17 65 eP 52 38.83 0.7  
 ORV 57.59 66 ePc 52 47.40 -0.4  
 HRY 57.92 54 iPc 52 50.59 0.5  
 HBMT 58.15 55 iPc 52 51.95 0.0  
 LRM 58.22 55 iPc 52 52.39 0.1  
 SXM 58.62 54 iPc 52 55.24 0.2  
 MCMT 58.69 56 iPc 52 55.32 -0.2  
 i 53 23.59  
 BGMT 58.83 55 iPc 52 56.87 0.4  
 ARN 59.08 68 eP 52 57.98 0.0  
 MEMT 59.12 54 iPc 52 58.69 0.3



24d 18h

CMB 59.26 66 ePc 52 59.31 0.0  
 0.9s 31.26nm 4.7mb  
 LTMT 59.28 56 ePc 52 59.52 -0.1  
 TPMT 59.37 56 ePc 53 00.77 0.6  
 KVN 59.85 64 iPc 53 03.96 0.5  
 HHAI 60.00 57 ePc 53 04.74 0.5  
 PTI 60.30 58 iPc 53 07.44 1.1  
 MMPM 60.33 66 (P) 53 07.21 0.4  
 MEMM 60.34 66 eP 53 07.07 0.7  
 BONR 60.50 65 ePc 53 08.34 0.5  
 HVU 60.85 59 ePc 53 10.31 0.3  
 TNP 61.02 64 ePc 53 11.30 0.1  
 0.7s 29.40nm 4.9mb  
 OBN 61.25 324 iPc 53 11.00 -1.1  
 BW06 61.83 56 iPc 53 16.58 0.1  
 0.8s 88.79nm 5.3mb  
 DUG 61.95 60 eP 53 17.33 0.1  
 1.0s 52.57nm 5.0mb  
 ISA 62.02 67 ePc 53 16.79 -0.8  
 0.9s 25.80nm 4.8mb  
 TPNV 62.37 65 ePc 53 20.21 0.2  
 0.6s 26.55nm 5.0mb  
 DAU 62.63 59 iPc 53 22.37 0.5  
 GSC 63.23 66 iPc 53 25.59 0.1  
 EMUT 63.30 59 ePc 53 26.25 0.2  
 ARUT 63.33 62 eP 53 26.47 0.3  
 MSU 63.50 61 iPc 53 28.04 0.7  
 SSK 63.50 68 eP 53 27.63 0.3  
 NB2 63.52 340 P 53 25.90 -1.0  
 0.6s 4.50nm 4.3mb  
 RSSD 63.62 52 iPc 53 28.00 -0.1  
 0.8s 103.52nm 5.5mb  
 HFS 63.80 339 eP 53 26.90 -1.7  
 0.4s 10.20nm 4.8mb  
 SRU 63.96 59 ePc 53 30.48 0.3  
 ASH 64.01 299 eP 53 30.40 0.1  
 PV09 65.15 59 eP 53 38.11 0.1  
 PV10 65.29 59 ePc 53 39.27 0.5  
 PV08 65.35 59 iPc 53 39.27 0.0  
 GLA 65.99 67 ePc 53 43.33 0.4  
 GOL 66.23 56 eP 53 44.98 0.3  
 1.0s 17.81nm 4.8mb  
 GLD 66.27 56 eP 53 45.31 0.5  
 1.1s 32.51nm 5.0mb  
 MTN 67.11 203 iPd 53 49.80 -0.1  
 0.5s 45.00nm 5.5mb  
 POO 69.10 274 eP 54 01.00 -1.3  
 ALQ 69.23 60 ePc 54 03.40 0.4  
 0.7s 15.69nm 4.8mb  
 GBA 70.61 267 P 54 09.90 -1.3  
 ACO 71.68 54 iPc 54 16.60 -0.7  
 CLL 71.94 335 iPd 54 17.90 -0.6  
 0.9s 15.00nm 4.6mb  
 BRG 72.09 334 iP 54 18.90 -0.4  
 PRU 72.72 333 eP 54 23.20 0.2  
 WB2 73.26 198 iPc 54 25.60 -0.8  
 0.6s 30.70nm 5.1mb  
 WRA 73.26 198 P 54 25.90 -0.5  
 0.6s 9.70nm 4.6mb  
 WMOK 73.40 55 ePc 54 27.24 0.0  
 0.6s 35.32nm 5.2mb  
 KHC 73.77 334 eP 54 29.50 0.4  
 0.9s 6.00nm 4.2mb  
 TUL 73.97 52 iPd 54 30.20 -0.2  
 GEC2 73.99 333 P 54 30.10 -0.4  
 0.5s 2.76nm 4.2mb  
 TNS 74.09 337 ePc 54 31.10 0.1  
 FVM 74.84 47 ePc 54 34.99 -0.3  
 0.5s 4.73nm 4.5mb  
 LTX 75.04 62 ePc 54 36.71 0.0  
 KBA 75.70 333 iPd 54 40.80 0.6  
 0.6s 15.80nm 4.9mb  
 ELC 75.95 47 iPd 54 41.57 0.1  
 WATA 75.95 334 iPd 54 41.80 0.3  
 YSNY 76.00 37 eP 54 41.18 -0.5  
 0.7s 25.73nm 5.1mb  
 WTTA 76.00 334 iPd 54 42.30 0.5  
 MIAR 76.14 51 ePc 54 42.68 0.1  
 0.6s 19.42nm 5.0mb  
 VOY 76.49 332 eP 54 44.00 -0.4  
 ASPA 76.97 198 iPd 54 47.30 0.2  
 0.4s 48.70nm 5.6mb  
 CVL 79.92 39 eP 55 03.49 0.7

MYNC 80.06 44 ePc 55 03.72 0.0  
 0.6s 11.19nm 4.8mb  
 WARB 81.02 204 eP 55 09.20 0.6  
 CEH 81.48 40 ePc 55 11.01 0.1  
 0.7s 38.19nm 5.3mb  
 PRM 81.67 44 (P) 55 12.34 0.4  
 ARMA 81.82 181 iPc 55 13.30 0.6  
 0.5s 3.00nm 4.3mb  
 JSC 81.97 43 eP 55 13.40 -0.1  
 LHS 81.99 42 ePc 55 13.59 0.0  
 COOL 86.96 207 eP 55 37.00 -0.9  
 MRWA 86.98 212 eP 55 37.40 -0.7  
 BAL 88.03 211 eP 55 42.00 -1.1  
 KLB 88.62 210 eP 55 44.50 -1.3  
 LKO 116.27 337 PKPd 01 33.22 -1.3  
 0.5s 4.50nm  
 TIC 118.91 335 PKPd 01 38.47 -1.1  
 0.4s 8.00nm  
 KIC 119.11 335 PKPd 01 38.93 -1.0  
 0.3s 6.50nm  
 LIC 119.31 335 PKPd 01 39.31 -1.0  
 0.3s 7.50nm  
 CER 142.13 281 ePKP 02 07.00 -15.8X  
 0.5s 8.11nm  
 SYO 145.14 215 ePKPd 02 26.20 -0.5  
 S.D. = 0.7 on 169 of 174 obs.  
 -----  
 % JAN 24, 1994 18h 43m 48.52± 0.80s  
 26.805 S ± 6.5km 26.792 E ± 8.1km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.2 (PRE).  
 BFS 0.09 184 eP 43 51.00 0.3  
 S 43 51.90  
 PRY 0.62 102 eP 43 59.90 -1.1  
 S 44 07.40  
 KSR 0.94 6 iPc 44 07.00 -0.1  
 S 44 20.00  
 SEK 1.68 154 eP 44 18.90 0.0  
 S 44 36.80  
 SLR 1.71 52 iPd 44 20.00 0.7  
 S 44 41.00  
 BLF 2.36 193 iPc 44 28.00 -0.6  
 S 44 56.50  
 NWL 2.96 109 eP 44 39.00 1.8  
 S 45 16.20  
 BFT 3.13 70 eP 44 38.50 -1.1  
 S 45 11.50  
 GRM 6.49 182 eP 45 45.00 17.9X  
 S 46 52.00  
 POF 6.57 245 eP 45 53.50 25.4X  
 S 47 07.50  
 CER 9.21 223 eP 46 05.00 -0.1  
 S 47 50.50  
 S.D. = 1.1 on 9 of 11 obs.  
 -----  
 & JAN 24, 1994 19h 16m 46.85s  
 34.295 N 118.496 W  
 DEPTH = 9.4km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. MD 2.6 (PAS). ML 2.7  
 (GS).  
 SSK 0.67 97 eP 16 59.33 -1.0  
 PEC 1.18 110 eP 17 07.79 -1.1  
 eS 17 24.00  
 ISA 1.37 1 eP 17 11.08 -1.0  
 PLM 1.65 124 (P) 17 12.92 -3.3  
 GSC 1.72 54 eP 17 15.90 -1.2  
 TPNV 3.22 34 ePg 17 47.57 8.9  
 BONR 3.66 2 ePg 17 53.73 8.7  
 7 obs. associated  
 -----  
 ? JAN 24, 1994 19h 44m 46.96± 7.77s  
 31.572 S ± 49.6km 69.420 W ± 94.2km  
 DEPTH = 120.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)  
 ZON 0.63 88 eP 45 06.30 0.2  
 eS 45 20.80  
 RTCV 0.81 111 e(P) 45 07.00 -0.5  
 CFA 1.01 92 e(P) 45 10.00 0.6  
 S 45 31.80  
 RTPR 2.80 64 eP 45 31.00 -0.3  
 S 46 15.00  
 S.D. = 0.8 on 4 of 4 obs.

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 JAN 24, 1994 19h 54m 37.77± 0.13s  
 44.977 N ± 3.2km 149.791 E ± 2.1km  
 DEPTH = 50.1km (14 depth phases)  
 5.4mb (85 obs.)  
 KURIL ISLANDS (221)  
 Mw 5.7 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 32S, 61C  
 Centroid Location:  
 Origin Time 19:54:40.6 0.2  
 Lat 45.02N 0.02 Lon 149.90E 0.03  
 Dep 37.6 1.7 Half-duration 1.6  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 2.65 0.05 Mtt=-0.75 0.07  
 Mff=-1.90 0.08 Mrt= 0.97 0.13  
 Mrf= 2.04 0.14 Mtf=-1.64 0.07  
 Principal Axes:  
 T Val= 3.46 Plg=70 Azm=285  
 N 0.37 6 31  
 P -3.83 19 124  
 Best Double Couple: Mo=3.7\*10\*\*17  
 NP1: Strike=224 Dip=26 Slip= 103  
 NP2: 29 64 83  
 KUR 1.39 281 iPnc+ 55 01.00 -0.1  
 is 55 18.00  
 KUSJ 4.12 245 eP 55 37.40 -2.3  
 eS 56 26.20  
 ASAJ 5.18 263 eP 55 56.70 2.0  
 YSS 5.33 295 iPnd- 55 57.00 0.1  
 Z 16s 44.70um  
 N 16s 12.20um  
 E 16s 31.00um  
 eS 56 55.00  
 YSS 5.33 295 P 56 01.00 4.1X  
 HOOJ 5.38 243 eP 55 57.50 0.0  
 eS 56 59.20  
 SAP 6.39 256 eP 56 13.00 1.3  
 eS 57 28.00  
 MRRJ 6.81 251 eP 56 16.90 -0.7  
 eS 57 36.30  
 SKR 7.10 34 ePn 56 18.80 -2.8  
 Z 16s 18.10um  
 N 16s 12.20um  
 E 16s 20.50um  
 is 57 39.30  
 OFUJ 8.44 229 P 56 35.90 -4.2X  
 eS 58 05.40  
 PET 9.92 33 ePn 57 02.00 1.6  
 Z 18s 13.00um  
 N 18s 6.80um  
 E 18s 11.40um  
 eS 58 51.00  
 YAMJ 9.98 230 P 56 57.90 -3.3X  
 eS 58 45.30  
 NIIJ 11.22 230 P 57 14.90 -3.2X  
 eS 59 17.20  
 KAKJ 11.40 223 P 57 16.30 -4.3X  
 S 59 13.60  
 CHJJ 12.12 226 P 57 26.20 -4.0X  
 S 59 34.60  
 MAT 12.16 230 iPd 57 27.10 -3.7X  
 eS 59 38.00  
 MTMJ 12.35 231 P 57 30.30 -3.1X  
 VLA 13.01 268 ePn 57 41.00 -1.0  
 Z 14s 2.00um  
 N 16s 3.00um  
 E 18s 5.00um  
 IIDJ 13.11 228 P 57 41.30 -2.1  
 TSRJ 14.13 233 P 57 55.20 -1.5  
 MDJ 14.35 276 eP 58 01.00 1.5  
 Z 17s 14.20um  
 N 16s 3.41um  
 E 14s 6.69um  
 sP 58 13.00  
 S 00 37.00  
 WKYJ 15.31 230 P 58 09.50 -2.6  
 TKSJ 16.35 233 P 58 23.00 -2.3  
 CN2 17.43 275 Pc 58 39.30 0.6  
 0.8s 61.00nm 4.8mb  
 Z 18s 6.87um 4.2MsZ  
 N 15s 5.49um  
 E 15s 0.60um  
 esP 58 52.00  
 SHNJ 17.99 239 P 58 45.60 0.0



KUMJ SNY	19.26	236 P	59	01.70	0.8		Z	20s	2.86um	5.0Msz				i	08	35.00		
	19.28	270 iPc	59	00.00	-1.0		N	20s	3.05um				e	12	24.00			
	0.8s	77.00nm			5.0mb				S	06	12.00		KMI	42.62	258 Pc	02	30.00	-1.0
	Z	26s	8.67um		4.9MszX				SS	06	36.00			1.0s	50.00nm		5.2mb	
	N	14s	2.96um				SDN	32.82	54 P	01	20.00	11.8X		Z	20s	3.00um		5.2Msz
KAGJ YAK	E	17s	2.81um				Z	19s	1.56um	4.7Msz			N	17s	1.70um			
		S	02	32.00		XAN	33.05	265 P	01	09.70	-0.8		E	17s	2.50um			
		SS	02	48.50			0.8s	48.00nm		5.4mb				pP		02	45.00	58km
		SS	02	48.50			Z	16s	3.39um	5.1MszX				PP		04	11.00	
		SS	03	25.00			N	14s	0.75um					PcS		08	16.00	
DL2	E	17s	2.81um				E	15s	2.11um					S	08	44.00		
		S	02	32.00				pP	01	20.00	37kmX			SS	09	10.00		
		SS	02	48.50				sP	01	23.00			DAV	43.22	216 eP	02	27.00	-8.6X
		SS	03	25.00				S	06	24.00			WMQ	43.41	291 P	02	37.20	0.2
		SS	03	25.00				SS	06	40.00				0.8s	10.00nm		4.6mb	
CIT	E	18s	5.50um					SS	08	24.00			Z	18s	7.02um		5.6Msz	
		i	59	38.00	123kmX			SS	11	33.00				S	09	01.00		
		eS	02	57.00			TTA	35.28	40 ePc	01	29.33	-0.1		SS	12	12.00		
		iSS	03	25.00				1.0s	34.94nm		5.2mb		CTB	43.71	218 ePc	02	41.00	1.4
		i	10	36.00			SVW	35.36	43 eP	01	30.46	0.4	SIT	46.28	47 P	03	10.00	10.3X
BJI	E	15s	2.66um					0.8s	30.29nm	5.3mb			Z	20s	1.23um		4.8Msz	
		pP	59	35.00	32kmX		LZH	35.62	272 iPc	01	33.20	0.5	LSA	48.04	272 P	03	15.40	0.9
		S	03	18.00				1.6s	430.00nm	6.1mb				0.8s	6.70nm		4.7mb	
		S	03	18.00			Z	24s	4.17um	5.1MszX			Z	28s	6.26um		5.4MszX	
		S	03	18.00			E	14s	2.05um					PcP	04	42.00		
BOD	E	16s	16.05um					pP	01	45.50	45km			PP	05	08.50		
		eS	04	18.00				sP	01	50.00				S	10	08.00		
		eS	04	18.00				PP	02	56.00				SS	10	27.50		
		eS	04	18.00				PcP	04	02.50			LOE	48.52	251 eP	03	18.00	0.3
		eS	04	18.00				S	07	03.00			HON	48.69	101 P	03	30.00	11.1X
TIA	E	15s	2.52um					SS	07	22.00			Z	19s	1.55um		5.0Msz	
		eScS	10	55.00				ScP	07	39.00			CHTO	49.44	255 ePc	03	25.00	0.3
		eP	59	58.50	-2.6X			SS	09	24.00				1.0s	48.00nm		5.5mb	
		Pc	00	08.80														



24d 20h

NDI	58.46	280	iPc	04	30.00	-0.9	RSSD	69.74	48	iPc	05	43.82	-0.7	1.0s	76.00nm	5.6mb	EYL	79.11	318	iP	06	39.00	0.6		
			iS	12	29.00			1.1s	35.25nm			5.2mb					UZD	79.18	328	eP	06	38.20	-0.3		
ASR	58.78	54	P	04	32.58	-0.5		pP	05	56.99		46km					WMOK	79.28	51	iPc	06	39.16	-0.2		
WTV	58.85	52	P	04	32.64	-0.8	ASPA	69.83	196	iPc	05	45.20	0.2	0.8s	19.10nm	5.1mb									
EBG	58.94	53	P	04	34.06	-0.1		0.7s	39.20nm			5.4mb		Z	21s	0.99um	5.1Msz	SSR	79.39	325	ePc	06	38.00	-1.7	
SSOR	59.00	56	P	04	35.02	0.4		ipP	05	58.90		48km						IZI	79.61	318	eP	06	41.50	0.4	
SAW	59.16	52	P	04	34.65	-0.9	PV09	70.75	55	ePc	05	50.86	-0.1					ENN	79.62	338	iPc	06	41.10	0.3	
VGB	59.61	55	ePc	04	38.79	0.1		pP	06	06.72		57km							1.0s	93.00nm		5.7mb			
DPW	59.73	51	ePc	04	38.79	-0.7	MTA	70.77	310	iPc+	05	51.00	0.5	MEM	79.74	338	iPc	06	41.42		0.0				
CROR	59.79	55	P	04	40.13	0.1		1.0s	230.00nm			6.1mb			1.0s	30.40nm	5.2mb	DLF	80.03	346	eP	06	43.20	0.3	
NEW	60.10	50	ePd	04	41.38	-0.6	PV10	70.89	55	iPc	05	51.89	0.2						1.0s	232.00nm		6.1mb			
	1.0s	20.61nm			5.2mb			pP	06	06.51		52km						BHG	80.23	332	eP	06	44.60	0.4	
Z	20s	0.97um			4.9Msz		PV08	70.98	54	eP	05	52.07	-0.3						1.1s	81.00nm		5.6mb			
JBO	60.19	54	P	04	42.44	-0.2	GOL	72.06	52	eP	05	58.88	0.1	SNF	80.29	338	iPc	06	44.45		0.1				
VIPM	60.28	55	P	04	43.57	0.1		0.6s	6.93nm			4.8mb		EDC	80.36	319	eP	06	45.00		0.0				
LGPM	61.04	60	(P)	04	48.74	0.1	GLD	72.11	51	eP	05	59.38	0.5	FUR	80.37	333	iPc	06	45.30		0.4				
WDC	61.42	60	eP	04	51.17	0.2		Z	20s	1.32um		5.2Msz			1.3s	126.00nm	5.7mb								
	1.1s	24.38nm			5.2mb		TAB	72.42	306	iP+	06	02.00	1.3	Z	20s	1.80um	5.4Msz	LTX	80.39	58	iPc	06	45.39	-0.1	
Z	19s	0.95um			5.0Msz		WARB	73.90	202	eP	06	10.20	1.1						pP	07	01.16	56km			
ORV	62.67	60	eP	04	58.72	-0.6	TUC	73.96	60	eP	06	10.84	1.2	WLF	80.56	337	Pd	06	47.00		1.2				
LEM	63.95	228	iPd	05	09.70	1.5		Z	20s	0.64um		4.9Msz		DOU	80.59	338	Pd	06	46.20		0.2				
LRM	64.12	50	eP	05	09.00	-0.1	KIS	74.68	323	iP+	06	13.00	-0.5	KBA	80.64	331	iPc	06	46.40		-0.2				
CMB	64.28	61	eP	05	09.97	-0.1		E	20s	5.00um					1.0s	89.00nm	5.6mb								
	1.2s	15.00nm			4.9mb		ALQ	74.75	56	iPc	06	14.77	0.4						i	07	04.00	64kmX			
Z	19s	0.52um			4.7Msz			0.8s	9.00nm			4.8mb							i	08	03.90				
GDH	64.79	9	iPc	05	11.30	-1.5		Z	21s	0.73um		4.9Msz		LANF	80.70	336	P	06	46.78		0.1				
	1.1s	73.42nm			5.6mb			e	06	23.71		29kmX		PTJ	80.74	329	eP	06	46.20		-0.8				
	e	30	25.00				ARMA	75.05	178	eP	06	17.50	1.7	ALN	80.76	320	iPc	06	47.54		0.5				
ASH	65.34	300	eP	05	16.50	-0.3		0.7s	12.00nm			4.9mb		ZAG	80.80	329	iPc	06	47.00		-0.2				
MEMM	65.41	61	(P)	05	18.81	1.6		e	06	32.70		54km		ECB	80.96	346	eP	06	48.40		0.5				
OBN	65.43	324	iPc	05	17.10	0.0	UZH	76.08	327	iPd	06	22.00	0.6	WATA	81.00	333	iPc	06	48.70		0.3				
	Z	20s	2.40um		5.4Msz			1.2s	60.00nm			5.4mb		WTTA	81.04	333	iPc	06	49.10		0.4				
N	18s	2.60um						Z	19s	4.50um		5.8Msz			1.1s	110.00nm	5.7mb	ECP	81.07	345	eP	06	48.90	0.5	
	e	05	50.00		136kmX			N	19s	2.50um								LJU	81.12	330	eP	06	48.50	-0.4	
BONR	65.62	60	eP	05	19.03	0.0		E	19s	2.50um									e	06	50.50	6kmX			
MAIO	65.65	298	iPc+	05	19.00	0.0		i	06	27.50		18kmX		FVM	81.19	44	ePc	06	48.96		-0.4				
	eS	14	06.00				SPC	76.40	329	eP	06	24.20	0.8		0.8s	27.30nm	5.3mb								
PTI	66.02	53	ePc	05	22.16	0.8	OKC	76.62	330	Pc	06	25.50	1.1	SQTA	81.22	333	iPc	06	49.90		0.4				
WB2	66.12	196	eP	05	20.50	-1.3	KAS	76.74	316	iPc	06	26.60	1.3		1.1s	71.30nm	5.5mb	WLS	81.35	336	P	06	50.07	0.0	
	0.6s	50.30nm			5.7mb		STK	76.86	187	eP	06	26.60	0.8	CDF	81.37	336	P	06	50.29		0.0				
WRA	66.12	196	P	05	17.50	-4.3X		1.1s	8.20nm			4.7mb		BHL	81.39	310	P	06	51.00		0.4				
	0.7s	46.60nm			5.6mb		EDI	76.92	345	ePc	06	25.20	-0.7	LIBD	81.51	335	P	06	51.06		0.2				
TNP	66.21	59	ePc	05	22.52	-0.1	CLL	77.07	334	iPc	06	26.70	-0.2	ECH	81.58	336	P	06	51.17		-0.1				
	0.8s	16.90nm			5.1mb			1.3s	130.00nm			5.8mb		SLE	81.59	335	ePc	06	51.30		0.0				
HVU	66.49	54	eP	05	24.32	0.0		Z	17s	2.00um		5.5MszX		OGA	81.59	333	iPc	06	52.00		0.4				
ISA	66.96	62	P	05	40.00	12.7X		i	06	41.50		52km			1.0s	54.00nm	5.5mb	PLE	81.60	326	iPc	06	52.24	0.7	
Z	20s	0.65um			4.8Msz		BRG	77.15	333	iPc	06	25.60	-1.7	FEL	81.63	335	P	06	51.72		0.0				
POO	67.29	274	iPc	05	28.00	-1.5		1.3s	44.00nm			5.3mb		SRS	81.68	322	iPc	06	51.74		-0.1				
	1.0s	40.00nm			5.4mb			Z	21s	3.80um		5.7Msz		TRI	81.68	331	ePc	06	50.90		-0.9				
DUG	67.49	55	ePc	05	30.65	0.0		N	21s	1.40um				RIY	81.78	330	iPc	06	51.50		-0.8				
	1.1s	26.91nm			5.2mb			E	21s	1.30um				IVA	81.79	325	iPc	06	53.06		0.6				
Z	21s	0.71um			4.9Msz									ZLA	81.87	335	ePc	06	53.10		0.3				
TPNV	67.52	60	eP	05	30.85	-0.1		WIT	77.47	345	P	06	29.00	0.0	SKO	81.90	324	iPc	06	53.60		0.6			
	0.9s	20.80nm			5.2mb		ACO	77.57	338	eP	06	30.00	0.4		1.1s	130.00nm	5.9mb								
BW06	67.66	51	iPc	05	31.32	-0.5		77.64	50	iPc	06	30.20	-0.1		Z	18s	1.53um	5.4Msz							
	0.8s	17.43nm			5.1mb		PRU	77.72	332	iPc	06	30.50	0.0						i	06	59.40	18kmX			
GBA	68.05	267	P	05	33.40	-0.8		0.8s	38.80nm			5.5mb		MOF	81.92	336	P	06	53.03		-0.1				
	0.7s	24.00nm			5.3mb		MOX	78.08	334	iPc	06	32.30	-0.2	VITF	81.92	336	P	06	53.14		0.1				
GSC	68.24	62	eP	05	34.99	-0.3		1.4s	64.00nm			5.5mb		QTFJ	81.94	307	Pd	06	54.76		1.3				
DAU	68.25	54	eP	05	35.69	0.1		Z	21s	1.50um		5.3Msz		KNT	81.94	322	iPc	06	53.62		0.4				
UPP	68.43	336	iP	05	35.10	-0.8		SRO	78.26	329	iP	06	34.20	0.8	PVY	81.99	325	iPc	06	53.68		0.1			
ARUT	68.68	58	eP	05	37.79	-0.4		WTS	78.27	338	eP	06	33.50	0.1	SOH	82.02	322	iPc	06	53.42		-0.3			
BAK	68.81	306	iPd	05	41.00	2.4			1.0s	83.30nm		5.7mb		BSF	82.03	336	P	06	53.37		-0.4				
PEC	68.92	63	eP	05	39.23	-0.3		HOF	78.29	334	iPc	06	33.80	0.1	OSS	82.04	333	ePc	06	54.40		0.5			
	0.9s	11.21nm			4.8mb			1.2s	51.00nm			5.4mb		UYO	82.06	49	iPc	06	53.80		-0.2				
MSU	68.96	56	eP	05	40.13	0.2		ZST	78.37	330	iP	06	34.20	0.1		OUR	82.14	321	iPc	06	54.46		0.2		
NB2	69.12	340	P	05	39.00	-1.3		KHC	78.78	332	iPc	06	37.00	0.6		BBS	82.15	335	P	06	54.35		0.1		
	0.4s	4.50nm			4.8mb			1.0s	71.00nm			5.6mb		SHMJ	82.22	309	Pc	06	56.49		1.7				
GRO	69.17	311	eP	05	41.00	0.2		Z	18s	1.80um		5.4Msz		LLS	82.23	334	ePc	06	55.50		0.6				
	1.0s	110.00nm			5.7mb			N	18s	1.20um				MIAR	82.24	48	iPc	06	55.20		0.3				
Z	20s	3.00um			5.5Msz			E	18s	0.80um					1.0s										



TGG	82.41	325	iPc	06	55.48	-0.1	Z	20s	0.71um	5.4Msz	SSK	0.73	101	eP	22	48.55	-0.5	
CIN	82.43	317	iPc	06	56.00	0.2			LR	00	34.00	ABL	0.74	313	ePc	22	48.21	-1.1
LOMF	82.46	336	P	06	56.10	0.2			ePKP	13	42.00	PEC	1.25	111	eP	22	56.90	-0.8
JARJ	82.48	309	Pc	06	57.45	1.1			PKP	14	05.20			eS		23	14.41	
RSNY	82.57	30	(P)	06	57.42	1.0			ePKP	14	15.81	ISA	1.31	3	eP	22	57.85	-1.0
	1.6s	39.83nm				5.2mb			ePKP	14	14.50	BCH	1.51	304	eP	23	00.80	-0.8
PAIG	82.61	321	iPc	06	56.30	-0.4			e	14	20.60	PLM	1.73	125	eP	23	03.38	-1.4
HCY	82.70	326	iPc	06	56.42	-0.7			i	14	24.20	GSC	1.73	56	eP	23	04.08	-0.7
BDV	82.71	326	iPc	06	56.42	-0.8			i	14	29.90	TPNV	3.21	35	ePn	23	26.83	0.9
MDSJ	82.77	308	Pc	06	59.45	1.6			e	15	02.80	MEMM	3.33	355	ePg	23	38.60	11.2
SALJ	82.80	309	Pd	06	59.06	1.1			i	15	15.80				9 obs. associated			
ULC	82.81	325	iPc	06	57.24	-0.5												
YSNY	82.83	34	ePc	06	57.80	-0.1												
	1.1s	40.54nm				5.4mb												
Z	20s	0.78um				5.1Msz												
OHR	82.88	324	iP	06	56.00	-2.2												
	0.9s	80.00nm				5.7mb												
FNA	82.91	323	iPc	06	57.94	-0.4												
TMA	82.95	334	iPc	06	58.70	0.1												
LIT	82.99	322	iPc	06	58.50	-0.2												
MASJ	82.99	308	Pd	06	59.97	1.0												
MKRJ	83.17	308	Pc	07	00.04	0.2												
MMK	83.29	334	ePc	07	01.10	0.7												
DIX	83.43	335	ePc	07	01.90	0.7												
LISJ	83.50	308	Pd	07	02.65	1.3												
EMS	83.58	335	ePc	07	02.40	0.5												
ORX	83.66	334	P	07	01.05	-1.1												
LBNH	83.74	29	P	07	10.00	7.5X												
Z	19s	1.06um				5.2Msz												
AGG	83.95	322	iPc	07	02.42	-1.2												
RSL	84.02	335	P	07	04.39	0.3												
BINY	84.05	32	P	07	10.00	5.9X												
Z	19s	1.01um				5.2Msz												
LSD	84.07	335	P	07	04.94	0.5												
RSP	84.31	334	P	07	05.35													



24d 23h

WLHM 1.90 7 P 04 55.54 2.5  
 TPNV 3.29 35 ePg 05 27.56 14.7  
 BONR 3.69 4 ePg 05 27.18 8.6  
 28 obs. associated

& JAN 24, 1994 23h 14m 33.05s  
 49.268 N 122.357 W  
 DEPTH = 5.1km  
 BRITISH COLUMBIA, CANADA (23)  
 <PGC-P>. ML 2.8 (PGC). Felt  
 mildly in the lower Fraser  
 Valley from Mission to Port  
 Coquitlam and Langley.

HNB 0.15 273 iPc 14 36.02 0.0  
 eS 14 38.15  
 VDB 0.29 145 Pc 14 38.47 -0.5  
 eS 14 42.65  
 BIB 0.64 283 Pc 14 44.07 -1.7  
 eS 14 52.08  
 MCW 0.67 208 eP 14 44.46 -1.9  
 WPB 0.68 305 eP 14 44.83 -1.8  
 eS 14 53.55  
 SNB 0.73 228 eP 14 45.98 -1.6  
 PGC 0.95 230 eP 14 49.12 -2.4  
 VGZ 1.07 217 eP 14 50.92 -2.7  
 NAB 1.08 268 eP 14 51.51 -2.3  
 eS 15 05.61  
 PFB 1.54 244 eP 14 58.68 -2.5  
 eS 15 18.02  
 MGB 1.56 261 eP 14 58.98 -2.6  
 ALB 1.62 271 eP 14 59.73 -2.6  
 GMW 1.75 190 eP 15 01.80 -2.4  
 RMW 1.85 168 eP 15 03.95 -1.8  
 BTB 2.08 277 eP 15 07.05 -2.1  
 OZB 2.08 263 eP 15 07.13 -2.0  
 LON 2.55 172 eP 15 14.72 -1.0  
 DPW 3.09 115 ePnc 15 22.30 -1.2  
 ePg 15 28.11  
 SLEB 3.31 53 ePn 15 25.00 -1.8  
 ePg 15 33.70  
 Lg 16 16.50  
 NEW 3.61 104 ePn 15 28.12 -2.7  
 ePg 15 37.00  
 eSn 16 16.47

20 obs. associated

\* JAN 25, 1994 00h 05m 42.24± 0.51s  
 1.059 N ± 7.3km 127.410 E ± 11.0km  
 DEPTH = 32.8km (2 depth phases)  
 4.8mb (12 obs.)

HALMAHERA, INDONESIA (267)

MNI 2.60 278 ePd 06 22.70 -0.2  
 DAV 6.26 343 ePd 07 18.20 3.4X  
 CTB 6.89 332 ePd 07 31.00 7.4X  
 BIP 7.21 351 eP 07 29.00 0.9  
 BAG 16.67 337 ePc 09 39.40 4.1X  
 WB2 21.95 162 iPc 10 34.60 -0.5  
 0.8s 42.50nm 4.9mb  
 ASPA 25.37 166 iPd 11 09.30 1.0X  
 1.0s 49.40nm 5.1mb  
 Z 21s 0.20um 3.6Msz  
 NJ2 31.87 346 eP 12 06.80 0.2  
 CHTO 33.02 304 eP 12 17.10 0.2  
 STK 35.41 159 eP 12 37.00 -0.3  
 1.0s 16.00nm 4.9mb  
 i 12 40.50 12kmX  
 TIA 36.25 346 eP 12 43.60 -0.8  
 MAT 36.69 15 (P) 12 43.00 -5.1X  
 XAN 37.10 334 P 12 50.80 -0.7  
 1.0s 9.80nm 4.6mb  
 pP 13 03.90 49kmX  
 sP 13 08.60

ADE 37.37 165 e(P) 12 55.20 1.4  
 TIY 39.00 341 Pd 13 07.80 0.3  
 BJI 40.12 347 eP 13 15.50 -1.2  
 1.4s 17.00nm 4.6mb  
 BWA 40.43 153 eP 13 24.30 5.0X  
 e 15 00.00 529kmX  
 SNY 40.73 356 Pc 13 20.10 -1.5  
 1.4s 40.00nm 5.0mb  
 LZH 41.14 331 Pd 13 26.00 0.7  
 1.5s 48.00nm 5.0mb  
 Z 18s 0.25um 4.1Msz  
 pP 13 36.00 34km  
 sP 13 42.50

CAN 41.44 153 eP 13 31.80 4.2X  
 e 15 17.00  
 HHC 42.13 342 P 13 34.20 0.9  
 BTO 42.40 340 eP 13 38.70 3.2X  
 CN2 42.59 358 P 13 37.80 0.9  
 1.0s 8.40nm 4.4mb  
 MDJ 43.41 2 eP 13 42.10 -1.4  
 1.2s 81.00nm 5.4mb  
 LSA 44.72 313 P 13 56.40 1.4  
 0.8s 6.70nm 4.6mb  
 GTA 45.73 330 eP 14 03.00 0.6  
 1.5s 13.00nm 4.6mb  
 pP 14 12.50 32km  
 GBA 50.99 287 P 14 43.00 -0.4  
 NDI 55.17 305 iP 15 14.00 -0.3  
 WMQ 55.29 326 P 15 15.40 0.3  
 1.2s 38.00nm 5.3mb  
 POO 55.30 292 eP 15 13.50 -1.9  
 KSH 60.38 316 eP 15 52.00 1.1  
 TAB 82.32 308 eP 18 07.00 4.4X  
 YKA 101.63 25 ePdiffer 19 39.30 6.8X  
 0.4s 0.10nm 3.8mb X  
 S.D. = 1.0 on 23 of 33 obs.

% JAN 25, 1994 00h 29m 14.40± 2.42s  
 39.072 N ± 10.4km 30.318 E ± 21.0km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

ALT 0.16 264 iPg 29 17.70 -0.1  
 iSg 29 20.50  
 KHL 0.97 220 iPg 29 33.40 0.0  
 iSg 29 46.40  
 DST 1.41 293 ePn 29 41.10 0.2  
 IZI 1.42 333 ePn 29 40.20 -0.8  
 YLV 1.66 334 ePn 29 45.00 0.6  
 S.D. = 0.7 on 5 of 5 obs.

% JAN 25, 1994 00h 29m 51.16± 3.16s  
 15.818 N ± 13.3km 60.457 W ± 30.3km  
 DEPTH = 33.0km (normal)  
 LEEWARD ISLANDS (92)  
 ML 1.4 (FDF).

DEG 0.76 310 eP 30 05.58 0.1  
 S 30 17.01  
 MGG 0.83 277 eP 30 06.80 0.3  
 DOG 1.14 281 eP 30 10.76 -0.1  
 PAG 1.20 280 eP 30 11.30 -0.4  
 S 30 28.15  
 FDF 1.27 212 iPd 30 12.99 0.3  
 MVM 1.33 199 eP 30 13.37 -0.2  
 BIM 1.42 205 eP 30 14.90 -0.1  
 S 30 32.90

S.D. = 0.3 on 7 of 7 obs.

? JAN 25, 1994 01h 31m 10.41± 0.80s  
 1.379 N ± 18.6km 127.634 E ± 50.7km  
 DEPTH = 33.0km (normal)  
 4.5mb (6 obs.)

HALMAHERA, INDONESIA (267)

WB2 22.19 163 iPc 36 04.20 -1.4  
 0.8s 11.10nm 4.4mb  
 ASPA 25.63 167 iPc 36 40.30 1.5  
 1.8s 16.20nm 4.3mb  
 XAN 36.91 334 P 38 18.10 0.0  
 BJI 39.87 346 eP 38 42.50 -0.2  
 1.0s 11.00nm 4.6mb  
 LZH 40.98 330 eP 38 53.00 0.9  
 1.4s 18.00nm 4.6mb  
 pP 38 59.50 22kmX  
 MDJ 43.09 2 eP 39 09.20 0.2  
 1.2s 27.00nm 4.9mb  
 WMQ 55.16 326 P 40 41.20 -1.0  
 1.0s 6.10nm 4.6mb  
 S.D. = 1.2 on 7 of 7 obs.

& JAN 25, 1994 02h 06m 35.84s  
 34.301 N 118.441 W  
 DEPTH = 7.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.9 (GS).

TWL 0.13 260 P 06 38.40 -0.3  
 LEOC 0.35 19 P 06 42.20 -0.8

PYR 0.36 317 P 06 43.04 -0.2  
 LRRC 0.41 57 P 06 43.54 -0.6  
 FOXC 0.46 22 P 06 44.63 -0.6  
 STTC 0.49 358 P 06 45.27 -0.4  
 ECF 0.56 286 P 06 46.88 -0.2  
 LJB 0.57 59 P 06 46.22 -1.1  
 SSK 0.63 98 eP 06 47.51 -0.9  
 LOK 0.68 308 P 06 48.34 -1.3  
 SS2 0.79 97 P 06 50.47 -1.0  
 CIW 0.84 186 P 06 51.50 -0.7  
 BMTc 0.84 351 P 06 51.06 -1.4  
 ABL 0.85 311 ePn 06 50.34 -2.2  
 HYS 0.91 52 P 06 52.41 -1.2  
 SME 1.02 118 P 06 54.25 -1.1  
 DTP 1.08 27 P 06 55.88 -0.6  
 CFT 1.13 103 P 06 56.97 -0.4  
 PEC 1.14 111 eP 06 56.27 -1.1  
 eS 07 11.82  
 BTL 1.19 92 P 06 58.47 0.0  
 WBSM 1.26 11 P 06 59.22 -0.4  
 SIL 1.34 88 P 07 00.40 -0.5  
 ISA 1.36 359 eP 06 59.85 -1.3  
 WWPM 1.46 11 P 07 02.54 -0.1  
 BCH 1.62 304 eP 07 04.15 -0.7  
 PLM 1.62 125 eP 07 02.92 -2.1  
 GSC 1.68 53 ePn 07 04.76 -1.0  
 TPNV 3.19 33 ePn 07 27.02 -0.4  
 MMPM 3.34 352 ePg 07 34.94 5.2  
 MEMM 3.38 353 ePg 07 37.34 7.3  
 BONR 3.65 2 ePg 07 41.85 7.7  
 31 obs. associated

JAN 25, 1994 02h 07m 25.02± 0.36s  
 1.430 N ± 6.1km 127.825 E ± 9.5km  
 DEPTH = 33.0km (normal)  
 4.8mb (12 obs.) 4.3Msz (1 obs.)  
 HALMAHERA, INDONESIA (267)

MNI 2.98 270 ePd 08 11.40 0.3  
 eS 08 50.50  
 DAV 6.05 338 ePd 09 04.00 9.4X  
 CTB 6.78 328 ePc 09 05.00 0.2  
 eS 10 37.00  
 BIP 6.93 347 eP 09 11.00 4.1X  
 BAG 16.51 335 eP 11 17.00 1.0  
 WB2 22.18 164 iPd 12 18.90 -1.2  
 0.8s 38.80nm 4.9mb  
 eS 16 24.90

ASPA 25.64 167 iPd 12 53.80 0.3  
 0.8s 43.20nm 5.1mb  
 Z 18s 0.80um 4.3Msz  
 iPP 13 14.30 93kmX

SSE 30.17 349 Pc 13 34.00 -0.4  
 S 18 31.00  
 STK 35.61 160 eP 14 21.30 -0.4  
 0.8s 6.60nm 4.6mb

XAN 36.95 333 P 14 33.00 0.0  
 1.0s 8.90nm 4.6mb  
 pP 14 42.00 30kmX  
 sP 14 46.30

CD2 37.14 325 eP 14 35.00 0.3  
 S 20 23.00  
 TIY 38.79 340 eP 14 48.20 -0.3  
 Z 30s 0.94um 4.4MszX  
 S 20 48.00

BJI 39.86 346 eP 14 56.50 -0.8  
 1.2s 24.00nm 4.8mb  
 Z 24s 0.64um 4.4MszX  
 SNY 40.40 355 eP 15 01.60 0.0  
 1.0s 15.00nm 4.7mb

BWA 40.57 153 iPc 15 04.60 1.4  
 i 15 07.20  
 LZH 41.03 330 eP 15 07.50 0.4  
 2.0s 56.00nm 4.9mb

Z 25s 0.75um 4.5MszX  
 pP 15 17.00 32kmX  
 sP 15 20.00

CAN 41.58 154 eP 15 12.40 0.9  
 i 15 14.60  
 HHC 41.91 341 P 15 16.00 1.8  
 1.0s 9.00nm 4.5mb

BTO 42.20 340 eP 15 16.00 -0.6  
 MDJ 43.03 2 eP 15 23.40 0.2  
 1.0s 31.00nm 5.0mb

LSA 44.78 312 P 15 38.80 0.6  
 GTA 45.62 329 eP 15 44.20 -0.1  
 1.5s 14.00nm 4.7mb



WMQ 55.22 325 P 15 50.50 21kmX  
 1.0s 28.00nm 5.2mb  
 pP 17 05.60 28kmX  
 sP 17 10.00  
 KSH 60.41 316 P 17 32.70 -1.2  
 MAIO 71.77 308 eP 18 45.00 -1.5  
 TTA 82.45 27 eP 19 46.10 0.8  
 IMA 84.03 24 eP 19 52.00 -1.5  
 0.8s 5.40nm 4.8mb  
 PMR 85.43 28 eP 20 00.40 0.1  
 S.D. = 0.9 on 26 of 28 obs.

\* JAN 25, 1994 02h 16m 31.09±1.77s  
 36.261 N ±13.9km 21.732 E ±12.8km  
 DEPTH = 73.8 ± 31.4 km  
 SOUTHERN GREECE (368)  
 MD 3.7 (ATH).

VLI 1.07 64 ePn 16 51.20 0.2  
 VLS 2.12 335 ePn 17 05.00 0.0  
 VAM 2.18 112 ePn 17 05.90 0.0  
 ATH 2.33 42 ePn 17 07.00 -0.9  
 AGG 2.80 10 ePn 17 14.12 -0.3  
 NPS 3.31 106 ePg 17 31.00 9.4X  
 IGT 3.45 342 iPd 17 22.80 -0.7  
 LIT 3.88 9 ePn 17 31.20 1.6  
 KZN 4.04 0 ePn 17 32.20 0.3  
 eSn 18 18.00  
 FNA 4.52 357 ePn 17 38.68 0.0  
 GRG 4.72 6 ePn 17 40.96 -0.4  
 SOH 4.73 15 ePn 17 41.76 0.3  
 KNT 4.98 10 ePnd 17 44.88 -0.1  
 SRS 5.06 16 ePnd 17 45.72 -0.4  
 S.D. = 0.7 on 13 of 14 obs.

& JAN 25, 1994 02h 26m 14.91s  
 34.285 N 118.475 W  
 DEPTH = 3.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. MD 2.6 (PAS). ML 2.7 (GS).

TWL 0.10 266 P 26 16.86 -0.1  
 LEOC 0.37 22 P 26 21.69 -0.7  
 LHU 0.39 8 P 26 22.12 -0.6  
 LRRC 0.44 57 P 26 23.11 -0.6  
 QAL 0.50 337 P 26 24.19 -0.8  
 PEM 0.52 103 P 26 24.73 -0.5  
 LJB 0.60 59 P 26 25.73 -1.2  
 SSK 0.65 96 eP 26 27.10 -0.8  
 eS 26 27.01  
 LOK 0.67 311 P 26 27.17 -1.2  
 VPD 0.75 128 P 26 29.81 -0.2  
 ABL 0.84 313 eP 26 29.52 -2.1  
 BMT 0.85 353 P 26 30.26 -1.8  
 CALC 0.92 28 P 26 32.59 -0.7  
 HYS 0.94 52 P 26 31.95 -1.7  
 DTP 1.11 28 P 26 35.40 -1.0  
 PEC 1.16 109 eP 26 35.52 -1.7  
 eS 26 51.16  
 BTL 1.22 91 P 26 37.88 -0.6  
 SIL 1.37 87 P 26 40.09 -0.8  
 ISA 1.38 0 eP 26 38.86 -2.1  
 POB 1.42 114 P 26 39.50 -2.2  
 XMS 1.54 36 P 26 45.30 1.9  
 RMR 1.58 92 P 26 44.27 0.3  
 BCH 1.60 305 ePn 26 43.01 -1.3  
 PLM 1.63 124 eP 26 42.37 -2.5  
 GSC 1.71 53 eP 26 44.08 -1.7  
 RCWM 1.79 22 P 26 47.88 0.8  
 COY 2.02 116 P 26 52.74 2.4  
 TPNV 3.22 34 ePn 27 05.16 -2.3  
 BONR 3.67 2 ePg 27 21.04 7.0  
 29 obs. associated

& JAN 25, 1994 02h 39m 53.91s  
 34.230 N 118.601 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. MD 2.5 (PAS). ML 2.7 (GS).

TPRS 0.14 175 P 39 56.99 0.3  
 PYR 0.36 341 P 40 01.42 0.4  
 MWC 0.45 91 P 40 02.00 -0.9

ECF 0.46 299 P 40 04.05 0.9  
 LHU 0.47 20 P 40 02.96 -0.3  
 LEOC 0.47 31 P 40 02.86 -0.4  
 QAL 0.53 350 P 40 04.21 -0.2  
 LRRC 0.56 58 P 40 04.71 -0.4  
 STTC 0.57 12 P 40 05.19 -0.1  
 LOK 0.64 321 P 40 06.55 -0.1  
 TPO 0.72 25 P 40 07.53 -0.7  
 RYS 0.74 304 P 40 08.52 -0.3  
 SSK 0.75 91 iPC 40 08.09 -0.9  
 CIW 0.76 177 P 40 09.07 -0.1  
 ABL 0.80 321 ePn 40 08.64 -1.3  
 CIS 0.84 169 P 40 10.69 0.1  
 SNDC 0.94 15 P 40 12.81 0.1  
 CSP 1.03 86 P 40 13.10 -1.3  
 SME 1.11 111 P 40 14.81 -0.9  
 PKM 1.20 304 P 40 16.69 -0.7  
 PEC 1.24 105 eP 40 16.25 -1.7  
 eS 40 34.80  
 BLKC 1.43 53 P 40 21.21 0.2  
 BCH 1.55 308 eP 40 21.52 -1.4  
 XMS 1.65 38 P 40 25.01 0.7  
 PLM 1.69 121 eP 40 23.66 -1.4  
 GSC 1.82 54 eP 40 27.56 0.7  
 TPNV 3.32 35 ePn 40 46.73 -1.6  
 MEMM 3.44 356 ePg 40 57.25 7.4  
 BONR 3.73 4 ePg 41 03.73 9.5  
 29 obs. associated

\* JAN 25, 1994 02h 44m 39.83±1.75s  
 42.627 N ±13.8km 100.141 W ±13.5km  
 DEPTH = 5.0km (geophysicist)  
 NEBRASKA (463)  
 mbLg 3.3 (GS). Felt (V) at  
 Springview and Valentine; (IV)  
 at Sparks and Wood Lake; (III)  
 at Johnstown. Also felt at  
 Ainsworth. Felt (III) at Colome,  
 Dallas and Wewela, South Dakota.  
 Also felt at Keyapaha, South  
 Dakota.

RSSD 3.21 299 ePn 45 31.82 -0.3  
 eSn 46 13.55  
 GOL 4.91 235 ePn 45 56.23 -0.1  
 eSg 47 15.94  
 ACO 5.97 172 iPd 46 12.00 1.0  
 BW06 6.94 274 ePn 46 25.39 0.5  
 eSg 48 16.73  
 SIO 7.49 155 iPC 46 37.80 5.5X  
 TUL 7.51 152 iPd 46 53.50 20.9X  
 PV08 7.63 241 ePn 46 34.92 0.2  
 MEO 7.93 171 iPd 46 38.90 0.4  
 WMOK 7.95 172 ePn 46 37.50 -1.3  
 PV09 7.99 242 (Pn) 46 39.73 0.1  
 PV10 8.00 241 (Pn) 46 39.23 -0.5  
 ePg 47 13.11  
 eSg 48 58.59  
 ALQ 9.12 215 ePg 47 32.07 36.9X  
 UYO 9.55 150 iPd 46 59.00 -2.0X  
 MIAR 9.56 145 ePn 46 59.17 -2.0X  
 OXF 11.66 130 (Pn) 47 25.00 -4.9X  
 S.D. = 0.8 on 9 of 15 obs.

\* JAN 25, 1994 02h 47m 16.24±1.71s  
 35.850 N ±13.2km 21.867 E ±12.0km  
 DEPTH = 33.0km (normal)  
 CENTRAL MEDITERRANEAN SEA (400)  
 ML 3.7 (ATH). 3.4 (THE).

VLI 1.22 45 iPd 47 37.80 0.7  
 VAM 1.95 102 eP 47 47.50 -0.2  
 VLS 2.54 337 eP 47 56.50 0.5  
 ATH 2.59 34 eP 47 50.00 -6.6X  
 AGG 3.19 7 ePn 48 05.90 0.7  
 eSn 48 44.90  
 IGT 3.87 342 ePn 48 14.92 0.0  
 eSn 49 00.84  
 LIT 4.27 6 ePn 48 20.70 0.1  
 PAIG 4.32 19 ePn 48 20.96 -0.2  
 KZN 4.45 359 eP 48 19.50 -3.7X  
 THE 4.85 10 ePn 48 29.10 0.3  
 FNA 4.94 356 ePn 48 29.56 -0.6  
 SOH 5.10 13 iPn 48 32.28 -0.1  
 GRG 5.12 5 ePn 48 32.24 -0.4  
 KNT 5.37 8 ePn 48 36.04 0.0  
 eSn 49 37.70

SRS 5.43 14 ePn 48 36.20 -0.8  
 S.D. = 0.5 on 13 of 15 obs.  
 ? JAN 25, 1994 03h 07m 57.66±3.59s  
 62.262 N ±27.3km 5.447 E ±27.7km  
 DEPTH = 10.0km (geophysicist)  
 SOUTHERN NORWAY (535)  
 MD 2.6 (BER).

MOL 1.03 72 eP 08 17.13 0.1  
 eS 08 32.53  
 SUE 1.25 195 eP 08 21.05 0.1  
 eS 08 39.22  
 EGD 2.00 183 eP 08 31.25 -0.6  
 eS 08 55.75  
 ODD1 2.43 166 eP 08 38.60 0.6  
 NRAO 3.30 115 Pn 08 50.08 -0.3  
 Pg 08 59.96  
 Lg 09 46.96  
 S.D. = 0.6 on 5 of 5 obs.

& JAN 25, 1994 03h 09m 31.56s  
 34.351 N 118.490 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS). 3.0 (GS).

TWL 0.11 230 P 09 33.56 -0.3  
 LHU 0.33 11 P 09 37.97 -0.1  
 MWC 0.38 109 P 09 39.27 0.1  
 STTC 0.44 3 P 09 40.45 0.2  
 JNH 0.45 78 P 09 40.24 -0.4  
 ECF 0.51 282 P 09 42.75 1.0  
 THC 0.57 346 P 09 42.54 -0.5  
 LJB 0.58 66 P 09 42.40 -0.8  
 DBM 0.64 10 P 09 43.77 -0.5  
 SSK 0.67 102 eP 09 44.36 -0.7  
 RYS 0.77 293 P 09 46.99 0.1  
 ABL 0.78 310 iPd 09 46.27 -0.9  
 BMT 0.79 354 P 09 46.14 -1.1  
 CALC 0.87 31 P 09 47.93 -1.1  
 HYS 0.92 56 P 09 48.50 -1.3  
 CSP 0.94 93 P 09 49.27 -1.0  
 LPC 1.02 279 P 09 51.52 -0.4  
 DTP 1.06 30 P 09 52.54 0.1  
 WJPM 1.06 0 P 09 51.04 -1.4  
 SME 1.08 111 P 09 51.12 -1.7  
 TMB 1.13 319 P 09 53.93 0.2  
 PEC 1.19 112 ePc 09 53.09 -1.7  
 WBSM 1.22 14 P 09 55.02 -0.3  
 BTL 1.23 94 P 09 55.29 -0.3  
 ISA 1.31 1 eP 09 55.24 -1.5  
 CRGC 1.35 312 P 09 56.79 -0.7  
 WWPM 1.42 13 P 09 58.04 -0.6  
 POB 1.46 117 P 09 57.41 -1.9  
 XMS 1.50 38 P 09 58.68 -1.1  
 SCCM 1.51 293 P 09 59.56 -0.4  
 WSHM 1.52 32 P 09 58.65 -1.5  
 BCH 1.55 303 ePn 09 59.86 -0.8  
 TOW 1.57 22 P 10 00.51 -0.3  
 GSC 1.68 55 ePd 10 01.36 -1.1  
 PLM 1.68 126 eP 10 00.38 -2.1  
 RCWM 1.74 23 P 10 02.27 -1.0  
 WLHM 1.80 5 P 10 06.69 2.3  
 PHAM 2.15 314 eP 10 08.72 -0.5  
 MTUM 3.00 359 ePg 10 27.11 5.7  
 TPNV 3.17 34 ePn 10 22.85 -1.0  
 MMPM 3.28 353 (Pn) 10 25.90 0.3  
 MEMM 3.33 354 ePg 10 32.47 6.6  
 BONR 3.60 2 ePn 10 28.10 -2.0  
 43 obs. associated

\* JAN 25, 1994 03h 40m 42.84±0.56s  
 37.279 N ±4.9km 4.185 W ±4.9km  
 DEPTH = 5.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.6 (MDD).

ELOJ 0.13 169 iPd 40 44.80 -0.9  
 eS 40 47.50  
 ELUQ 0.29 347 eP 40 48.38 -0.3  
 eS 40 53.40  
 ECOG 0.49 90 eP 40 52.56 -0.2  
 eS 41 01.40  
 EGUA 0.67 132 eP 40 56.84 0.7  
 eS 41 05.20  
 EPRU 0.89 250 eP 41 00.75 0.3



25d 03h

EBAN 0.94 20 eP 41 01.08 -0.1  
 eS 41 13.60  
 EHOR 1.00 303 eP 41 02.54 0.2  
 eS 41 15.10  
 EHUE 1.37 67 eP 41 08.98 0.3  
 eS 41 28.40  
 S.D. = 0.6 on 8 of 8 obs.

\* JAN 25, 1994 04h 11m 49.81± 0.83s  
 32.741 S ±12.9km 70.247 W ± 9.1km  
 DEPTH = 109.1 ± 7.0 km

CHILE-ARGENTINA BORDER REGION (127)

IHA 1.21 256 eP 12 13.30 -0.2  
 i(S) 12 28.20  
 RTCV 1.69 59 iPC 12 20.00 0.6  
 RTCB 1.75 45 iPD 12 20.70 0.5  
 ZON 1.79 49 iP+ 12 20.60 0.0  
 eS 12 43.10  
 CFA 2.04 57 iPD 12 24.00 0.1  
 S 12 49.00  
 RTLL 2.06 47 iPD 12 24.00 -0.1  
 RTPR 4.01 54 iPC 12 48.90 -1.3  
 LPB 16.25 7 P 15 34.00 0.6  
 i 15 58.20  
 LPAZ 16.49 7 P 15 36.20 -0.4  
 LIC 72.95 71 P 23 09.50 0.2  
 KIC 73.26 71 P 23 11.20 0.1  
 S.D. = 0.6 on 11 of 11 obs.

? JAN 25, 1994 04h 17m 05.09± 5.10s  
 8.049 S ±37.8km 128.102 E ±19.8km  
 DEPTH = 140.0 ± 34.1 km  
 4.6mb ( 2 obs.)

TIMOR SEA (290)

MTN 5.62 148 eP 18 27.30 -0.3  
 eS 19 21.00  
 KNA 7.68 175 eP 18 56.20 0.7  
 0.2s 50.00nm 5.7mb X  
 eS 20 22.60  
 WB2 13.28 154 iPD 20 05.90 -3.5X  
 iS 22 29.10  
 MBL 15.28 211 eP 20 34.40 -0.3  
 eS 23 22.20  
 ASPA 16.49 161 iPD 20 49.80 0.0  
 0.5s 36.10nm 4.9mb  
 eS 23 51.20  
 WARB 18.09 184 eP 21 08.50 -0.4  
 0.3s 5.00nm 4.3mb  
 eS 24 30.50  
 MRWA 23.94 207 eP 22 07.80 0.3  
 YKA 109.51 26 ePKP 35 10.10 -10.0X  
 0.4s 0.30nm  
 LPAZ 150.97 146 PKP 36 38.50 0.1  
 S.D. = 0.5 on 7 of 9 obs.

% JAN 25, 1994 04h 40m 30.65± 0.63s  
 26.339 S ± 6.2km 27.743 E ± 6.1km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)

PRY 0.64 202 eP 40 43.50 0.1  
 S 40 50.30  
 SLR 0.77 39 eP 40 46.00 -0.2  
 S 40 56.00  
 KSR 0.90 302 eP 40 48.70 0.3  
 S 40 58.50  
 BFS 1.02 237 eP 40 49.90 -0.7  
 S 41 12.80  
 SEK 1.98 183 eP 41 06.00 0.7  
 S 41 30.20  
 BFT 2.17 73 eP 41 08.50 0.4  
 S 41 40.00  
 NWL 2.40 125 eP 41 10.90 -0.5  
 S.D. = 0.6 on 7 of 7 obs.

JAN 25, 1994 05h 41m 19.22± 0.16s  
 1.543 S ± 3.2km 78.009 W ± 3.3km  
 DEPTH = 168.1km ( 45 depth phases)  
 5.2mb ( 62 obs.)

ECUADOR (107)

Mw 5.4 (HRV). mb 5.3 (BRK).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 10S, 13C  
 Centroid Location:

Origin Time 05:41:20.3 0.7  
 Lat 1.72S 0.07 Lon 77.79W 0.07  
 Dep 154.3 3.0 Half-duration 1.5  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr=-0.82 0.09 Mtt=-0.46 0.14  
 Mff= 1.28 0.12 Mrt= 0.75 0.10  
 Mrf=-0.73 0.09 Mtf=-0.64 0.12  
 Principal Axes:  
 T Val= 1.82 Plg=20 Azm= 68  
 N -0.40 28 327  
 P -1.42 55 188  
 Best Double Couple:Mo=1.6\*10\*\*17  
 NP1:Strike=195 Dip=35 Slip= -36  
 NP2: 316 70 -120

VC1 0.98 336 P 41 45.84 -0.7  
 GGP 1.48 337 P 41 50.02 -1.0  
 COTA 1.89 350 P 41 55.02 -0.2  
 JAMA 2.83 309 P 41 59.14 -6.7X  
 NNA 10.44 174 iPD 43 44.00 -1.8  
 0.4s 93.22nm 5.7mb  
 eS 45 28.80  
 UPA 10.56 352 eP 43 47.76 0.4  
 eS 45 47.24  
 DVD 10.86 336 ePD 43 54.04 2.9X  
 eS 45 55.64  
 ECO 10.96 351 iPD 43 52.93 0.3  
 eS 45 58.06  
 SDV 12.70 35 eP 44 13.20 -2.1  
 TOV 13.91 36 ePC 44 28.60 -2.0  
 ePP 44 29.90  
 CANV 15.48 36 iP 44 50.80 0.7  
 MORO 15.66 38 iPC 44 53.40 1.1  
 OLLA 16.01 44 iPD 44 56.80 0.1  
 ARE 16.15 157 iPC 45 00.50 1.8  
 CAR 16.28 42 iPD 45 00.00 0.1  
 GUAN 16.79 47 iP 45 05.90 -0.4  
 LPAZ 17.59 147 iPC 45 13.40 -2.9X  
 i 48 16.50  
 LPB 17.81 147 PC 45 17.90 -0.5  
 1.0s 364.00nm 5.7mb  
 i 48 24.00  
 CCH 19.60 144 P 45 36.50 -0.6  
 TRN 20.49 53 eP 45 44.49 -1.1  
 OXX 26.14 316 (P) 46 42.00 2.1  
 ACX 28.27 311 (P) 47 15.50 16.5X  
 PPM 28.81 316 (P) 47 06.50 2.1  
 UNM 29.37 316 (P) 47 10.50 1.4  
 CRX 29.77 315 (P) 47 15.50 2.9X  
 RTLL 30.97 164 ePD 47 22.00 -0.7  
 RTCB 31.03 165 ePD 47 23.00 -0.3  
 MRX 31.04 314 (P) 47 25.00 1.7  
 BDFB 32.73 117 eP 47 37.24 -1.0  
 0.5s 14.50nm 4.9mb  
 HBF 34.36 356 (P) 47 52.65 0.8  
 GOGA 35.15 352 ePC 47 58.64 0.1  
 0.8s 17.70nm 4.8mb  
 PRM 35.67 354 eP 48 02.81 -0.2  
 ePP 48 38.54 163km  
 JSC 35.76 355 eP 48 02.70 -1.0  
 ePP 48 39.63 169km  
 RSTA 36.21 132 eP 48 06.00 -1.7  
 MYNC 36.87 352 ePC 48 12.70 -0.4  
 1.3s 25.22nm 4.8mb  
 CEH 37.25 359 eP 48 15.14 -1.1  
 0.8s 15.07nm 4.7mb  
 ePP 48 51.25 164km  
 OXF 37.43 344 eP 48 16.37 -1.3  
 0.7s 222.18nm 6.0mb  
 UYO 38.74 338 iPC 48 28.60 -0.1  
 NAV 38.75 356 eP 48 29.01 0.2  
 e 48 58.65  
 e 49 24.63  
 ePCP 50 36.81  
 MIAR 38.76 339 ePC 48 28.26 -0.6  
 1.1s 11.34nm 4.5mb  
 iPP 49 05.05 170km  
 iPCP 50 36.96  
 LTX 39.31 323 eP 48 34.06 0.5  
 CVL 39.33 359 ePD 48 34.33 0.9  
 ePP 49 09.59 161km  
 ePCP 50 38.78  
 LST 39.41 345 iPC 48 33.78 -0.4  
 ePP 49 10.70 170km  
 CBN 39.55 1 eP 48 26.00 -9.3X  
 ELC 40.01 346 eP 48 37.04 -2.0  
 ePCP 50 39.94

TUL 40.79 338 iPC 48 45.80 0.3  
 MEO 40.96 334 iPC 48 46.70 -0.3  
 FVM 40.97 345 eP 48 45.61 -1.4  
 0.6s 85.67nm 5.5mb  
 ePP 49 22.00 166km  
 WMOK 41.01 334 ePD 48 46.98 -0.4  
 1.0s 74.83nm 5.2mb  
 ePP 49 23.78 168km  
 iPCP 50 44.87  
 iSCP 54 18.79  
 ACO 42.82 335 iPD 49 02.30 0.2  
 BINY 43.58 2 ePC 49 08.88 0.7  
 0.6s 24.97nm 5.0mb  
 ePP 49 45.58 166km  
 ePCP 50 52.20  
 YSNY 43.82 359 ePC 49 10.18 0.1  
 0.7s 29.32nm 5.0mb  
 iPCP 50 53.44  
 ALQ 45.02 326 ePD 49 20.48 0.5  
 0.8s 87.45nm 5.4mb  
 iPP 49 58.67 173km  
 TUC 45.77 320 ePD 49 27.22 1.4  
 0.8s 41.97nm 5.0mb  
 pP 50 05.59 173km  
 i 51 02.17  
 LBNH 45.90 6 eP 49 27.02 0.5  
 0.8s 21.08nm 4.7mb  
 ePP 50 03.95 166km  
 RSNY 45.99 3 eP 49 27.22 0.0  
 0.6s 9.31nm 4.5mb  
 GLD 48.06 332 ePD 49 44.19 0.5  
 1.6s 126.05nm 5.3mb  
 iPP 50 21.97 169km  
 GOL 48.09 332 eP 49 44.13 0.1  
 0.7s 2.92nm 4.0mb X  
 ePP 50 22.78 173km  
 ePCP 51 09.06  
 GLA 48.88 318 ePD 49 50.43 0.4  
 ePP 50 28.31 168km  
 PV08 48.89 328 ePC 49 50.82 0.5  
 pP 50 28.34 167km  
 iPCP 51 12.75  
 PV10 48.95 328 ePD 49 49.97 -0.7  
 ePP 50 26.76 163km  
 ePCP 51 12.12  
 PV09 49.09 328 eP 49 51.45 -0.3  
 SRU 50.28 327 eP 49 59.97 -0.7  
 iPP 50 39.03 173km  
 iPCP 51 16.51  
 PLM 50.44 317 eP 50 02.36 0.4  
 iPP 50 40.32 168km  
 MSU 50.78 325 eP 50 04.66 0.1  
 ePP 50 43.28 171km  
 iPCP 51 19.66  
 PEC 50.95 317 eP 50 05.69 0.0  
 1.3s 118.94nm 5.4mb  
 ePP 50 44.25 170km  
 ARUT 51.02 324 eP 50 06.72 0.4  
 ePP 50 44.93 169km  
 RSSD 51.07 336 eP 50 06.21 -0.4  
 0.8s 32.96nm 5.0mb  
 ePP 50 42.74 160km  
 SSK 51.50 317 eP 50 10.40 0.4  
 ePP 50 48.43 167km  
 GSC 51.55 319 ePD 50 10.73 0.5  
 iPP 50 49.57 171km  
 DAU 51.61 328 eP 50 10.55 -0.3  
 ePP 50 48.96 169km  
 ePCP 51 21.45  
 TPNV 52.19 321 eP 50 15.94 0.8  
 0.9s 39.82nm 5.1mb  
 e 50 23.87  
 DUG 52.30 326 ePD 50 15.83 0.0  
 1.3s 104.36nm 5.4mb  
 iPP 50 54.35 169km  
 BW06 52.47 331 ePD 50 16.06 -1.1  
 1.6s 77.62nm 5.2mb  
 ePP 50 53.36 163km  
 ePCP 51 24.62  
 ISA 52.86 318 ePD 50 20.14 0.3  
 1.6s 122.15nm 5.4mb  
 ePP 50 58.41 168km  
 ePCP 51 18.87  
 e 51 26.89  
 ABL 52.90 317 eP 50 20.18 -0.2  
 ePP 50 59.47 173km  
 ePCP 51 18.49



HVU	53.38	328	e	51	27.01		VAH	1.6s	335.80nm	5.9mb		BRG	92.42	39	iP	54	13.90			
			eP	50	22.94	-0.8		69.94	254	iPd	52	14.80		1.2s	30.00nm		54	14.00	2.1	
			e	51	02.22	172km		1.3s	223.80nm	5.8mb									5.3mb	
BCH	53.67	317	eP	50	26.18	0.3	PMO	70.18	255	iPd	52	16.40	0.4		eSg	10	32.40			
MTUM	53.91	320	eP	50	27.97	0.2		1.3s	166.10nm	5.7mb		VOY	92.42	44	eP	54	12.50	0.3		
			eP	51	07.17	172km	TVO	71.68	252	iPd	52	25.40	0.3		e	54	18.50			
PTI	53.95	329	eP	50	27.40	-0.5		1.4s	184.70nm	5.6mb		PRU	92.82	40	eP	54	15.40	1.7		
			eP	51	06.37	171km	PPN	71.83	252	iPd	52	26.00	0.1	LJU	92.87	44	iP	54	14.80	0.7
BONR	54.10	321	ePd	50	29.51	0.2		1.0s	76.00nm	5.4mb		ZST	94.56	42	eP	54	21.80	0.0		
PHAM	54.24	318	eP	50	30.73	0.7	PPT	71.97	252	iPd	52	27.10	0.4	OHR	97.65	49	eP	54	37.20	1.1
HHA1	54.26	329	ePd	50	29.51	-0.6		1.4s	204.80nm	5.7mb		STK	129.88	225	ePKP	00	10.20	-0.6		
			eP	51	08.48	170km	PAE	71.98	252	iPd	52	27.20	0.4		1.0s	13.60nm				
MEMM	54.33	320	eP	50	31.73	1.2		1.2s	316.60nm	5.9mb		MDJ	130.65	334	ePKP	00	11.50	-0.4		
MMFM	54.36	320	ePc	50	31.61	0.4	AFR	72.16	252	iPd	52	28.10	0.3	WMQ	136.02	15	PKP	00	22.00	-0.3
			pP	51	09.97	167km		0.8s	142.90nm	5.8mb		BJI	139.57	343	ePKP	00	29.00	0.2		
SAO	55.46	318	ePd	50	38.08	-0.7	LKO	72.94	80	Pc	52	30.80	-1.7	HHC	139.93	349	PKP	00	30.60	1.0
CMB	55.48	320	ePd	50	38.75	-0.2		0.8s	63.00nm	5.4mb		ASPA	140.12	229	iPKPc	00	22.10	-8.2X		
	1.4s	40.00nm			5.0mb		LIC	73.26	83	P	52	32.96	-1.4		0.9s	15.20nm				
			i	50	48.25			0.4s	7.50nm	4.7mb				i			00	29.80		
			ePP	51	16.90		TIC	73.30	83	P	52	33.24	-1.3	BTO	140.45	350	ePKP	00	25.00	-5.5X
			isP	51	36.50		KIC	73.55	83	P	52	34.80	-1.3	WB2	141.75	234	iPKPd	00	26.80	-6.5X
			iPcPc	51	56.60			0.5s	51.00nm	5.5mb				0.7s	23.60nm					
			ePP	52	33.50		PAB	78.43	49	eP	53	03.50	0.4	WRA	141.76	234	PKP	00	39.50	6.2X
ARN	55.84	318	eP	50	41.91	0.4			eS	02	52.00			1.0s	1.90nm					
MHC	55.91	318	ePd	50	42.14	0.0	BALM	79.20	333	eP	53	07.27	0.4	GTA	142.26	3	ePKP	00	29.30	-4.5X
	1.3s	100.00nm			5.5mb		KLU	80.97	333	ePc	53	16.22	0.1	TIY	142.75	346	ePKP	00	30.50	-4.1X
			ePc	51	20.79	168km	TOA	81.30	334	ePc	53	18.90	1.1	TIA	142.76	340	ePKP	00	31.70	-2.9X
			eS	51	41.44		PMR	82.46	333	ePd	53	23.70	0.0	WARB	143.57	219	iPKPd	00	32.60	-3.7X
LRM	56.12	332	eP	50	43.10	-0.6		1.3s	53.30nm	5.1mb			0.6s	54.00nm						
			e	51	22.70		EKA	82.68	34	P	53	24.00	-1.0	KLB	143.81	203	ePKP	00	33.50	-3.0X
BKS	56.60	319	ePd	50	46.51	-0.3		1.1s	31.90nm	5.0mb		MUN	144.04	201	iPKPc	00	34.80	-2.1		
ORV	57.06	321	ePd	50	50.28	0.2	FBA	82.93	336	eP	53	25.54	-0.6		0.9s	153.00nm				
	1.2s	290.00nm			6.0mb			0.8s	19.82nm	5.0mb		NDI	144.12	39	iPKPc	00	36.50	-0.6		
			ePc	51	28.78	166km	SALF	83.11	47	P	53	29.45	1.8	BAL	145.09	203	ePKP	00	37.40	-1.3
			eS	51	49.23		LESF	83.22	47	P	53	28.97	0.9	SSE	145.45	330	iPKPd	00	39.00	-0.3
MIN	57.58	321	ePd	50	52.96	-0.9	PAND	83.34	47	P	53	30.36	1.4	LZH	145.59	357	iPKPd	00	39.80	0.2
	1.4s	60.00nm			5.3mb		TRGS	83.65	47	P	53	31.74	1.3	NJ2	145.74	334	PKPc	00	39.00	-0.7
			eP	51	30.56	161km	CRP	83.77	332	ePd	53	29.28	-1.3	XAN	147.03	349	PKP	00	41.70	-0.2
			e	51	51.91				eP	54	11.43	169km	POO	147.65	57	ePKP	00	42.50	-0.7	
WDC	58.30	321	ePd	50	56.25	-2.4	CP2	83.81	332	eP	53	30.88	0.0	MEEK	147.72	209	ePKP	00	45.20	2.0
	1.0s	30.00nm			5.1mb		DAG	84.74	11	iPd	53	34.90	-0.1	MTN	147.74	243	ePKP	00	42.00	-1.4
LBFM	58.34	322	ePd	50	58.59	-0.6		0.8s	13.43nm	4.8mb		KNA	148.45	236	ePKP	00	47.50	3.0X		
			eP	51	39.30	176km	SVW	85.37	332	P	53	37.60	-0.9		0.8s	149.00nm				
LGFM	58.67	321	eP	50	58.54	-2.8		1.2s	39.80nm	5.1mb		WHN	148.87	339	PKPc	00	45.50	0.7		
YBH	59.06	322	ePd	51	02.16	-1.9	IMA	85.61	337	eP	53	38.97	-0.8	LSA	150.16	19	PKP	00	49.10	1.7
	1.1s	50.00nm			5.3mb			0.7s	10.44nm	4.8mb				sPKP	01	35.00				
			eP	51	40.76	165km	TTA	85.91	333	eP	53	41.00	-0.2		PP	04	26.50			
LNOR	59.09	328	P	51	03.28	-0.8	SNF	86.27	39	Pc	53	44.10	1.1	CD2	150.74	357	ePKP	00	48.90	1.2
KMPM	59.21	320	eP	51	05.27	0.2	DOU	86.42	40	P	53	44.90	1.1	MBL	151.47	217	ePKP	00	54.00	5.0X
VIPM	59.49	326	P	51	06.97	0.0		1.0s	75.00nm	5.5mb			0.9s	87.00nm						
JBO	59.65	327	P	51	07.80	-0.1	ENN	87.34	39	ePd	53	49.00	0.9	HYB	152.08	54	ePKPc	00	50.60	0.6
CROR	59.99	326	P	51	10.56	0.3		1.0s	75.00nm	5.6mb		GBA	152.91	63	PKP	00	51.90	0.8		
NEW	60.11	331	ePc	51	09.82	-1.1	WLF	87.38	40	iPd	53	49.48	1.1		0.8s	6.00nm				
	1.0s	47.75nm			5.3mb			1.1s	30.70nm	5.1mb		AAI	153.30	259	e(PKP)	00	45.00	-6.8X		
			eP	51	50.02	172km	EMS	87.58	44	ePd	53	50.10	0.4	KOD	154.15	70	ePKP	00	55.00	1.7
VGB	60.20	327	eP	51	11.86	0.2	DIX	87.92	44	eP	53	52.30	0.9	GYA	154.82	350	iPKPc	00	54.60	1.0
VBEM	60.37	326	P	51	13.16	0.2	WIT	87.99	37	eP	53	53.50	2.3		S.D. = 0.9	on 200 of 218 obs.				
DPW	60.37	330	eP	51	12.58	-0.2	WTS	88.01	38	eP	53	52.00	0.7							
			eP	51	52.25	169km		0.9s	68.90nm	5.6mb										
SSOR	60.74	325	P	51	14.76	-0.7	MMK	88.30	44	ePc	53	54.30	1.1		JAN	25, 1994	06h 47m	47.57 ± 0.48s		
SAW	60.87	329	P	51	15.88	-0.3	ZLA	88.69	43	ePd	53	55.10	0.3		36.070 N ± 5.6km	29.048 E ± 3.9km				
RNO	60.93	324	P	51	16.56	-0.1	SLE	88.77	42	ePd	53	55.50	0.3		DEPTH = 33.0km (normal)					
EBG	60.96	328	P	51	17.41	0.6	TMA	88.93	44	iPd	53	55.90	-0.3		4.1mb ( 6 obs.)					
ASR	61.04	327	P	51	17.01	-0.4	LLS	89.06	43	ePd	53	57.30	0.5	TURKEY					(366)	
WTV	61.15	329	P	51	17.82	-0.3	OSS	89.84	43	ePd	54	00.80	0.4		ML 4.0 (ISK), 4.1 (THE).					
SHW	61.42	327	eP	51	20.17	0.2	SQTA	90.59	43	iPd	54	04.00	0.3	KSL	0.44	83	iPbd	47	55.90	-1.3
LON	61.53	327	eP	51	19.86	-0.8		0.8s	21.00nm	5.2mb		CIN	1.71	333	iPd	48	15.00	-0.5		
FMW	61.57	327	P	51	20.89	-0.2	GRF	90.67	40	eP	54	04.40	0.5	BCK	1.86	41	iPn	48	19.50	1.8
KMOR	61.79	325	P	51	22.12	-0.3		1.3s	33.00nm	5.2mb					eSg	48	44.50			
RMW	61.97	328	eP	51	23.18	-0.3	WATA	90.84	43	iPd	54	05.10	0.2	KHL	2.28	9	iPn	48	22.70	-1.0
			iP	52	01.53	162km	WTTA	90.88	43	iPd	54	05.50	0.4	IZM	2.73	329	ePn	48	29.60	-0.4
BMW	62.14	326	eP	51	23.76	-0.9		0.9s	17.60nm	5.2mb		NPS	2.91	255	ePn	48	32.10	-0.5		
			eP	52	01.06	157kmX	MOX	90.94	40	iPc	54	06.60	1.5	PPCY	2.94	113	eP	48	34.00	1.0
JCW	62.49	328	P	51	25.93	-1.0		1.7s	25.00nm	5.0mb		ALT	3.10	15	ePn	48	35.50	0.2		
GMW	62.55	327	ePd	51	26.40	-0.9	NB2	90.96	29	P	54	03.80	-1.2	DST	3.54	355	iPn	48	41.40	-0.3
			eP	52	04.61	161km		0.8s	1.40nm	4.1mb X		CSS	3.66	106	eP	48	44.00	0.7		
MCW	63.26	328	eP	51	31.67	-0.3	CLL	91.83	39	iPd	54	10.10	1.0	PRK	3.86	326	ePn	48	45.40	-0.6
			eP	52	07.97	152kmX		1.5s	26.00nm	5.1mb		VAM	4.00	262	ePn	48	49.10	1.0		
			e	52	32.18		KBA	92.04	43	iPd	54	10.50	0.0	FAM	4.18	103	eP	48	51.50	0.9
STW	63.38	328	P	51																



25d 06h

BHL 5.84 110 P 49 09.00 -5.2X  
 AGG 6.10 301 ePn 49 18.56 0.8  
 KAS 6.45 33 eP 49 27.00 4.2X  
 SOH 6.52 318 ePn 49 23.04 -0.6  
 LIT 6.55 310 ePn 49 24.40 0.2  
 THE 6.60 315 iPn 49 25.62 0.8  
 SRS 6.61 321 ePn 49 24.60 -0.3  
 KNT 7.00 318 ePn 49 30.88 0.5  
 KZN 7.12 309 ePn 49 32.80 0.6  
 GRG 7.14 315 ePn 49 33.52 1.2  
 FNA 7.64 310 ePn 49 40.15 0.7  
 IGT 7.72 299 ePn 49 40.20 -0.2  
 OHR 8.19 310 iP 49 47.00 -0.1  
 KBA 16.06 318 i(P) 51 34.00 1.4  
 1.3s 20.20nm 4.1mb  
 GEC2 17.02 323 P 51 45.50 0.9  
 0.8s 2.80nm 3.4mb  
 WTTA 17.11 316 iP 51 48.70 2.8  
 KHC 17.28 324 eP 51 48.50 0.7  
 1.1s 6.30nm 3.7mb  
 PRU 17.45 327 eP 51 50.10 0.3  
 BRG 18.36 328 e(P) 52 15.40 14.3X  
 1.2s 17.00nm  
 GRB4 18.49 322 eP 52 00.70 -2.0  
 CLL 19.08 328 e(P) 52 09.00 -0.9  
 MOX 19.24 325 eP 52 09.50 -2.2  
 1.6s 26.00nm 4.2mb  
 KIC 42.80 234 P 55 42.40 -1.6  
 LZH 58.95 66 eP 57 45.50 -0.7  
 1.4s 18.00nm 5.0mb  
 YKA 77.52 344 eP 59 38.70 -2.4  
 0.8s 1.70nm 4.1mb  
 S.D. = 1.1 on 43 of 46 obs.  
 -----  
 JAN 25, 1994 07h 12m 44.88± 0.22s  
 10.601 N ± 5.2km 41.715 W ± 3.2km  
 DEPTH = 29.5km ( 12 depth phases)  
 5.3mb ( 61 obs.) 5.9Msz ( 55 obs.)  
 NORTHERN MID-ATLANTIC RIDGE (403)  
 Mw 6.3 (HRV). Mo=4.3\*10\*\*18 Nm  
 (PPT).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 54S, \*\*C  
 Centroid Location:  
 Origin Time 07:12:51.0 0.1  
 Lat 10.84N 0.01 Lon 41.52W 0.01  
 Dep 15.0 FIX Half-duration 3.3  
 Moment Tensor; Scale 10\*\*18 Nm  
 Mrr=-0.11 0.02 Mtt=-0.09 0.03  
 Mff=-0.02 0.03 Mrt=0.32 0.08  
 Mrf=-0.16 0.08 Mtf=-2.65 0.02  
 Principal Axes:  
 T Val= 2.64 Plg= 8 Azm= 45  
 N 0.07 82 243  
 P -2.72 2 136  
 Best Double Couple:Mo=2.7\*10\*\*18  
 NP1:Strike=181 Dip=83 Slip= 4  
 NP2: 90 86 173  
 SLB 19.16 282 eP 17 18.51 9.6X  
 SVB 19.30 280 eP 17 13.72 3.2X  
 TRN 19.35 272 eP 17 10.91 -0.2  
 FDF 19.40 284 eP 17 12.50 0.8  
 S 20 50.00  
 MBO 24.46 79 iPd 18 03.80 1.2  
 CAR 24.79 272 iPd 18 00.00 -5.9X  
 BDF 26.81 193 eP 18 23.20 -1.5  
 i 18 52.10 137kmX  
 i 19 22.40  
 i 25 19.30  
 i 25 30.30  
 BDFB 26.81 194 eP 18 26.53 1.8  
 1.3s 125.11nm 5.4mb  
 TOV 27.64 271 eP 18 36.00 3.7X  
 SDV 28.55 269 eP 18 35.60 -5.1X  
 BMG 31.18 266 iPd 19 10.00 6.0X  
 BOG 32.59 262 eP 19 19.00 2.3  
 eS 24 32.00  
 VA02 33.95 188 (P) 19 33.00 5.0X  
 LKO 35.57 88 P 19 40.13 -1.9  
 0.7s 39.50nm 5.5mb  
 RSTA 35.76 191 eP 19 45.60 2.3  
 TIC 36.48 93 P 19 48.86 -0.8

LIC 0.5s 25.50nm 5.4mb  
 36.53 94 P 19 48.32 -1.8  
 0.8s 65.00nm 5.5mb  
 PSO 36.59 258 eP 19 49.00 -2.0  
 KIC 36.79 94 eP 19 50.52 -1.8  
 0.9s 39.50nm 5.3mb  
 CCH 36.82 221 P 19 52.50 -0.2  
 LPAZ 37.38 225 Pc 19 56.20 -1.6  
 0.7s 19.10nm 5.1mb  
 Z 33s 26.40um 5.8MszX  
 PP 21 11.60  
 PPP 21 32.80  
 S 25 52.30  
 LQ 28 53.90  
 LR 31 03.00  
 LPB 37.52 224 eP 19 57.20 -1.6  
 1.0s 180.00nm 5.9mb  
 Z 24s 33.33um 6.1MszX  
 S 25 50.00  
 LR 30 50.00  
 ARE 39.88 228 eP 20 19.00 0.6  
 e 21 50.00 495kmX  
 e 26 20.00  
 TSY 40.76 47 iP 20 41.50 16.5X  
 CPS 41.24 47 iP 20 44.00 15.0X  
 EVAL 41.32 44 P 20 32.13 2.5X  
 CRNY 41.46 323 eP 20 31.58 0.9  
 NNA 41.49 238 eP 20 32.00 0.7  
 1.1s 25.32nm 4.9mb  
 LSCT 41.50 324 (P) 20 30.02 -1.0  
 0.8s 15.85nm 4.8mb  
 Z 21s 8.71um 5.6Msz  
 PP 22 06.98  
 S 26 33.75  
 SS 29 51.79  
 EJIF 41.63 46 eP 20 33.95 1.7  
 HBF 41.88 308 eP 20 35.10 0.8  
 EPRU 42.05 45 P 20 37.90 2.2  
 SGS 42.09 308 (P) 20 37.35 1.4  
 CBN 42.11 317 eP 20 38.00 2.0  
 CEH 42.18 313 eP 20 35.60 -1.1  
 0.9s 34.52nm 5.1mb  
 Z 22s 13.05um 5.8Msz  
 S 26 32.22  
 SS 30 19.89  
 LBNH 42.46 328 (P) 20 41.53 2.6X  
 1.0s 24.87nm 4.9mb  
 Z 21s 3.66um 5.2Msz  
 S 27 09.26  
 LBNH 42.46 328 (P) 20 37.87 -1.0  
 1.0s 24.87nm 4.9mb  
 Z 21s 3.66um 5.2Msz  
 EHOR 42.46 44 eP 20 39.92 0.9  
 EZAM 42.67 37 P 20 47.79 7.1X  
 CVL 42.73 316 eP 20 42.52 1.3  
 LHS 42.83 310 eP 20 42.34 0.3  
 ELOJ 42.89 46 eP 20 45.82 3.2X  
 ELUQ 43.01 45 P 20 46.56 3.0X  
 EPLA 43.08 41 P 20 45.00 1.0  
 JSC 43.09 309 eP 20 43.86 -0.3  
 EGUA 43.16 46 P 20 49.31 4.6X  
 STS 43.21 36 P 20 52.02 7.0X  
 ECG 43.37 46 eP 20 49.03 2.5X  
 BINY 43.45 323 (P) 20 45.49 -1.5  
 1.2s 69.54nm 5.3mb  
 Z 21s 5.81um 5.5Msz  
 S 27 24.07  
 SS 30 39.34  
 BLA 43.73 314 (P) 20 50.52 1.1  
 1.3s 46.97nm 5.1mb  
 ERUA 43.74 37 P 20 53.13 3.8X  
 PRM 43.86 309 eP 20 49.94 -0.5  
 PAB 43.94 43 eP 20 53.20 2.1  
 iS 27 25.00  
 NAV 44.04 314 eP 20 53.52 1.6  
 RSNY 44.06 326 (P) 20 53.64 1.7  
 1.6s 73.39nm 5.2mb  
 ENIJ 44.20 47 P 20 54.50 1.4  
 EMON 44.25 36 P 21 07.38 13.9X  
 GOGA 44.47 307 eP 20 54.77 -0.6  
 0.9s 27.54nm 5.1mb  
 Z 21s 12.61um 5.8Msz  
 S 27 20.38  
 MCWV 44.50 317 (P) 20 55.84 0.3  
 1.5s 51.53nm 5.2mb  
 Z 20s 7.38um 5.6Msz  
 S 27 24.35

SS 31 07.58  
 GUD 44.63 41 P 20 57.36 0.6  
 YSNY 45.15 321 eP 21 03.25 2.5X  
 0.9s 28.34nm 5.2mb  
 Z 22s 7.47um 5.6Msz  
 ScP 26 42.43  
 S 27 44.88  
 SS 31 04.88  
 MYNC 45.58 309 eP 21 03.28 -1.0  
 1.1s 56.76nm 5.4mb  
 Z 20s 11.74um 5.8Msz  
 S 27 48.60  
 ETOR 46.10 42 eP 21 10.02 1.7  
 ECHE 46.25 44 eP 21 10.05 0.6  
 ECRI 46.71 40 P 21 14.68 1.6  
 LPA 47.80 198 eP- 21 28.00 6.4X  
 Z 19s 40.28um 6.4Msz  
 ePP 23 11.00  
 eS 28 16.00  
 eScS 31 10.00  
 eSS 31 43.00  
 EGRA 47.91 41 P 21 28.57 6.1X  
 VAL 48.50 26 eP 21 33.50 6.7X  
 S 28 30.00  
 OXF 49.49 307 eP 21 32.62 -2.2  
 0.5s 493.20nm 6.8mb X  
 Z 21s 5.69um 5.5Msz  
 S 28 47.09  
 ELC 50.22 310 eP 21 38.98 -1.3  
 ECB 50.31 27 eP 21 47.10 6.3X  
 LST 50.35 309 eP 21 39.60 -1.7  
 ECP 50.37 28 eP 21 47.60 6.4X  
 DLF 51.06 26 eP 21 52.20 5.8X  
 FVM 51.34 311 eP 21 46.84 -2.0  
 0.5s 26.01nm 5.4mb  
 Z 18s 14.82um 6.0Msz  
 S 29 14.37  
 SLM 51.42 311 P 22 00.00 10.6X  
 Z 21s 10.76um 5.8Msz  
 MIAR 52.82 305 eP 21 55.53 -4.5X  
 1.2s 34.94nm 5.2mb  
 Z 21s 6.82um 5.7Msz  
 e 22 25.98 130kmX  
 e 22 45.62  
 e 24 21.00  
 S 29 26.19  
 SS 33 14.72  
 CALN 53.34 43 P 22 04.29 0.4  
 UYO 53.44 305 iPd 22 00.00 -4.6X  
 REV 53.65 43 P 22 06.78 0.7  
 OXX 53.66 283 (P) 22 06.50 -0.2  
 TOUF 53.68 42 P 22 06.87 0.4  
 AURF 53.68 43 P 22 06.65 0.3  
 RRL 53.74 41 P 22 07.94 1.0  
 SBF 53.75 43 P 22 06.78 0.0  
 PZZ 53.78 42 P 22 07.81 0.7  
 AUTN 53.79 43 P 22 08.00 0.7  
 STV 53.82 42 P 22 07.91 0.6  
 SAOF 53.87 43 P 22 07.93 0.3  
 ENR 53.88 42 P 22 07.32 -0.5  
 EKA 53.89 26 P 22 17.00 9.4X  
 1.0s 23.80nm 5.2mb  
 BHB 54.02 42 P 22 09.32 0.6  
 IMI 54.07 43 P 22 07.49 -1.7  
 RSP 54.14 41 P 22 09.64 -0.1  
 LSD 54.20 41 P 22 11.43 1.1  
 ROB 54.20 42 P 22 08.67 -1.5  
 EDI 54.27 26 eP 22 12.00 1.7  
 2.0s 200.00nm 5.8mb  
 Z 20s 16.00um 6.1Msz  
 N 20s 12.00um  
 E 20s 10.00um  
 i 22 56.00 195kmX  
 iS 29 52.80  
 FIN 54.39 43 P 22 09.92 -1.6  
 DIX 54.62 40 ePd 22 15.10 1.7  
 VVO 54.73 306 iPd 22 13.20 -0.9  
 PCP 54.74 42 P 22 12.99 -1.1  
 DOU 54.75 35 P 22 09.80 -4.1X  
 ec 22 19.70 32km  
 S 29 58.00  
 SNF 54.78 34 P 22 15.10 0.9  
 LOMF 54.79 39 P 22 13.89 -0.5  
 ORX 54.80 41 P 22 13.99 -0.6  
 TUL 54.90 307 iPc 22 14.60 -0.8  
 MMK 54.96 40 ePd 22 17.70 1.8  
 BSF 54.97 38 P 22 14.67 -1.2



MOF	55.19	38	P	22	16.19	-1.2				e	23	24.50		AGG	63.27	52	iP	23	13.82	0.5
SIO	55.27	306	iPd	22	16.80	-1.2				ePcP	23	49.00		ALQ	63.33	304	eP	23	09.16	-4.9X
ECH	55.36	38	P	22	18.01	-0.5				e	24	33.00			0.8s	10.60nm			5.0mb	
WLF	55.42	36	P	22	24.00	5.2X				S	31	00.00		Z	20s	9.13um			6.0Msz	
			ic	22	33.00	29km	HVAR	59.73	46	eP	22	47.10	-2.3				e	23	25.61	61kmX
PPM	55.46	286	(P)	22	24.00	3.8X	BCAO	59.97	91	iPd	22	51.10	-0.4				e	24	06.31	
CPF	55.52	38	P	22	18.01	-1.7				1.6s	217.00nm	6.0mb				S	31	47.19		
TMA	55.56	41	ePd	22	20.50	0.3				i	23	02.70	40kmX				SS	35	58.59	
WLS	55.57	38	P	22	19.50	-0.5				eP	23	29.20		NRAO	63.37	26	P	23	10.80	-2.7X
FEL	55.74	38	P	22	20.43	-0.9	CLL	60.08	36	eP	22	51.00	-0.6	NREO	63.37	26	P	23	12.50	-1.0
MEM	55.79	35	Pd	22	27.20	5.8X				1.4s	21.00nm	5.1mb				PP	25	34.90		
			S	30	13.80		Z	18s	17.50um			6.2Msz				S	31	58.80		
ENN	55.81	35	eP	22	21.00	-0.6				ePcP	23	38.00					SS	36	01.10	
	0.9s	47.80nm				5.5mb				eS	31	04.00		NB2	63.38	26	P	23	11.90	-1.7
UNM	55.99	286	(P)	22	25.50	1.8	ZAG	60.13	43	e(P)	22	50.00	-2.0		0.7s	1.30nm			4.2mb X	
DBN	56.06	33	e(P)	22	30.00	6.6X	PTJ	60.13	43	eP	22	49.70	-2.5X	VLI	63.45	54	eP	23	14.20	-0.3
Z	20s	7.00um				5.7Msz	MUD	60.24	30	iP	23	07.00	14.4X	LIT	63.55	50	eP	23	14.94	-0.2
			eS	30	20.00					1.3s	159.00nm		GRG	63.61	50	eP	23	15.62	0.1	
LANF	56.08	37	P	22	22.30	-1.4	BRG	60.48	37	iP	23	00.80	6.5X	SPC	63.82	40	eP	23	23.50	6.5X
OCO	56.15	306	iPd	22	22.50	-1.9				1.8s	100.00nm	5.6mb	KNT	64.02	49	eP	23	16.62	-1.6	
CRX	56.45	286	(P)	22	28.00	0.8	Z	20s	20.00um			6.3Msz	HFS	64.05	27	eP	23	14.20	-3.8X	
OSS	56.59	40	ePd	22	28.40	0.8				i	23	08.60	26km		0.9s	33.00nm			5.4mb	
BNS	56.61	35	ePd	22	33.80	6.4X				i	23	42.60		Z	17s	6.36um			5.9MszX	
Z	21s	22.60um				6.2Msz				eS	31	17.00				LR	40	50.00		
			i	25	53.80		LTX	60.48	298	eP	22	49.08	-5.8X	ATH	64.21	53	eP	23	24.20	4.7X
WTS	56.89	34	eP	22	30.00	0.7				e	29	06.46		SOH	64.31	50	eP	23	25.54	5.4X
	0.8s	52.30nm				5.6mb	PRU	60.52	38	eP	22	54.80	0.2	VAM	64.33	56	eP	23	28.00	7.7X
MEO	56.90	305	iPd	22	26.60	-3.2X				e	22	59.90	17kmX	SRS	64.53	49	eP	23	22.98	1.5
TNS	57.00	36	ePd	22	31.10	0.8				i	23	04.00		OUR	64.71	50	eP	23	23.34	0.7
			ePPc	22	35.70					PcP	23	42.00		UZH	65.01	41	eP	23	24.00	-0.4
			ePcPd	23	18.10					S	31	14.90					e	23	54.00	122kmX
WMOK	57.05	305	eP	22	25.27	-5.6X				ScS	32	58.50					e	25	43.00	
	0.8s	52.30nm				5.6mb	HCY	61.03	47	iPd	22	58.40	0.2				eS	32	02.00	
Z	21s	15.24um				6.1Msz	SOP	61.05	41	e(P)	23	02.50	4.3X				iPS	32	34.00	
			e	22	40.78	58kmX	VKA	61.07	40	e(P)	22	58.00	-0.4	NPS	65.47	56	eP	23	38.00	10.3X
WIT	57.21	33	eP	22	41.00	9.4X	Z	21s	1175.00nm			6.3mb X	PV10	65.74	307	eP	23	26.43	-3.2X	
OGA	57.22	41	iPd	22	32.70	0.6				i	23	12.60	53kmX	UPP	65.74	28	iP	23	36.50	7.6X
AKU	57.36	11	iP	22	43.60	11.1X				i	23	25.20					iS	32	18.00	
	1.9s	336.84nm								LR	44	40.00		PV09	65.82	307	eP	23	26.86	-3.4X
SQTA	57.47	40	iPc	22	32.60	-1.1	BRY	61.16	47	iPd	22	59.40	0.1	RDO	65.99	50	eP	23	31.00	0.2
	0.8s	40.10nm				5.5mb	BDV	61.23	47	iPd	22	59.65	0.0	PRK	66.34	52	eP	23	46.10	13.0X
ACO	57.72	307	iPc	22	28.30	-7.2X	KEK	61.44	51	eP	23	13.40	12.3X	LVV	66.37	40	eP	23	35.00	1.9
WATA	57.74	40	iPc	22	35.20	-0.5	NKY	61.47	47	iPd	23	01.55	0.2	Z	17s	8.00um			6.0MszX	
WTTA	57.76	40	iPc	22	35.40	-0.4	ULC	61.47	48	iPd	23	01.52	0.3	N	19s	7.00um				
	0.8s	35.40nm				5.5mb	COP	61.53	31	iP+	23	03.00	1.7	E	19s	8.20um				
			i	22	44.20	29km	Z	18s	6.87um			5.9Msz				e	25	55.00	740kmX	
FUR	57.86	39	ePc	22	36.60	0.3				iS	31	20.00					ePPP	27	41.00	
Z	19s	12.50um				6.0Msz	ZST	61.55	41	eP	23	01.70	0.1	WIN	66.37	120	eP	23	32.00	-1.8
			eS	30	41.40					e	23	06.70			0.9s	66.00nm			5.7mb	
GRF	58.41	37	eP	22	40.20	0.1				ipP	23	12.30	35km	Z	20s	60.60um			6.8Msz	
Z	17s	1.10um				5.0MszX				ePcP	23	42.80		BW06	66.63	312	eP	23	32.24	-3.0X
			eS	30	48.70		TTG	61.57	47	iPd	23	02.55	0.6		1.6s	80.54nm			5.6mb	
TRI	58.61	43	eP	22	40.70	-0.9	SRN	61.63	50	eP	23	04.30	2.0	TUC	66.76	301	eP	23	32.14	-3.9X
KBA	58.78	41	iPc	22	41.60	-1.4	LACI	61.74	48	eP	23	01.00	-2.0		0.8s	11.56nm			5.0mb	
	1.0s	66.40nm				5.7mb	TIR	61.80	49	eP	23	07.50	4.0X	Z	20s	1.18um			5.1Msz	
VOY	58.80	42	eP	22	42.00	-1.0	IGT	61.82	51	eP	23	14.74	11.1X				e	23	48.48	60kmX
			epP	22	55.50	49kmX	PLE	61.86	46	iPd	23	04.38	0.4	SRU	66.96	308	eP	23	35.33	-2.1
			e(PcP)	23	25.00		UZD	62.07	43	e(P)	23	04.00	-1.2	DAG	67.27	6	iPd	23	36.60	-1.8
RIY	58.92	43	eP	22	43.40	-0.3	FVY	62.12	47	iPd	23	06.33	0.5		0.6s	24.67nm			5.5mb	
MOX	59.02	37	ePc	22	44.40	0.1	IYA	62.13	47	iPd	23	06.32	0.6	DAU	67.64	309	(P)	23	41.59	-0.2
Z	19s	21.00um				6.3Msz	LSK	62.13	50	eP	23	06.30	0.5	EDC	67.66	51	eP	23	45.00	3.5X
			eS	30	45.00		SRO	62.22	41	eP	23	04.90	-1.3	MSU	68.20	307	eP	23	44.91	-0.4
WET	59.21	39	eP	22	45.40	-0.3	OHR	62.45	49	iP	23	05.50	-2.4	PTI	68.70	312	(P)	23	47.56	-0.6
LJU	59.23	42	eP	22	46.50	0.6				1.6s	280.00nm	6.1mb	KSL	68.75	55	eP	23	59.50	11.2X	
			epP	22	51.50	16kmX				i	23	24.50	73kmX	KHL	68.80	53	eP	23	48.00	-0.8
			e	22	58.00		OKC	62.68	39	P	23	10.70	1.5	DUG	68.81	309	eP	23	45.68	-3.2X
			ePcP	23	28.00					e	23	16.30	18kmX		0.9s	7.99nm			4.8mb	
			eS	30	52.00					e	23	22.40		Z	21s	7.88um			5.9Msz	
			e	32	16.00					e	23	56.50					e	24	01.98	59kmX
			eSS	34	20.00					e	24	41.00					S	32	56.06	
VBY	59.55	43	iP	22	48.00	-0.1	RSSD	62.89	314	eP	23	07.43	-3.5X	IZI	68.89	51	eP	23	48.10	-1.2
GEC2	59.61	39	P	22	47.10	-1.5				0.8s	13.27nm	5.1mb	HVU	68.90	311	eP	23	48.43	-1.0	
	0.7s	6.45nm				4.9mb	GLD	62.97	309	eP	23	09.26	-2.2	ELL	69.03	55	eP	23	59.50	9.2X
			e	23	06.20	74kmX				1.3s	37.14nm	5.4mb	LRM	69.05	315	eP	23	50.60	0.2	
			e	23	09.80		Z	19s	10.45um			6.0Msz	KIS	69.09	44	iP+	24	06.00	15.8X	
			e	23	24.90					SP	31	51.27					i	24	17.00	36km
KMR	59.61	40	iP-	22	50.00	1.5	KZN	63.04	50	eP	23	17.10	5.3X				e	26	24.00	
KHC	59.63	39	eP	22	48.00	-0.7	GOL	63.07	309	(P)	23	09.42	-2.9X	ARUT	69.16	306	(P)	23	48.38	-2.7X
	1.1s	27.20nm				5.3mb				1.1s	26.79nm	5.3mb	NUR	69.28	29	eP	23	49.00	-2.1	
Z	16s	10.00um				6.0MszX				SP	31	51.48		Z	20s	12.00um			6.1Msz	
N	16s	3.60um								SS	35	45.65					eS	33	02.00	
E	16s	6.80um					SKO	63.07	48	eP	23	12.00	0.1				LR	48	20.00	



25d 07h

MNK	69.32	36	eP	23 53.00	1.5	MIN	75.54	309	ePd	24 34.71	5.9X	GRM	78.19	127	eP	24 43.00	-0.5		
			eS	33 00.00		Z	21s		6.00um		5.9MsZ		1.0s	120.00nm		5.9mb			
			eSSS	40 36.00					eS	34 15.71		BFT	78.53	119	eP	24 39.00	-6.8X		
EYL	69.42	51	eP	23 53.00	0.4				iSKS	34 24.71			0.7s	16.00nm		5.1mb			
HLW	70.16	62	eP	24 00.00	2.9X				eSP	34 52.71		NAI	78.95	93	eP	24 52.00	3.7X		
			ePP	26 37.00					iPS	34 55.71				PPP	29 58.00				
			eS	33 12.00					eSS	39 30.71				S	34 56.00				
			eScS	33 50.00					eLQ	44 37.71		PYA	78.98	47	eP	24 51.00	3.4X		
GLA	70.18	301	eP	23 56.90	-0.4				eLR	47 50.71		Z	20s		5.00um		5.8MsZ		
TPNV	71.37	305	eP	24 05.16	0.6	SAO	75.54	305	ePd	24 33.99	5.3X	N	20s		3.00um				
	1.0s			18.81nm		Z	21s		7.00um		5.9MsZ	E	20s		5.00um				
	Z	20s		7.37um					eS	34 20.99				iS	34 49.00				
POF	71.45	126	eP	24 11.50	6.6X				iSKS	34 25.99		MTA	80.45	49	eP	24 56.00	0.5		
	1.0s			40.00nm					eSP	34 55.99				ePS	35 12.00				
GSC	71.82	304	eP	24 06.69	-0.5				iPS	34 59.99		N	17s		1.50um				
PUL	71.87	30	eP	24 16.00	9.2X				eSS	39 25.99		E	17s		1.50um				
			e	24 20.00	13kmX				eSSS	42 07.99				eS	35 03.00				
			e	24 29.00					eLQ	44 26.99				ePS	35 41.00				
			eS	33 30.00		RMW	75.58	316	(P)	24 40.43	11.6X	GRO	80.93	48	eP	24 54.00	-4.1X		
			eSS	38 02.00		MHC	75.67	306	eP	24 34.19	4.6X	Z	20s		9.50um		6.1MsZ		
PLM	71.88	302	eP	24 08.36	0.6	Z	21s		6.00um		5.9MsZ	N	18s		11.00um				
PEC	72.12	302	eP	24 08.47	-0.5				ePP	27 10.19		E	18s		6.00um				
	1.4s			102.40nm					eS	34 16.19				i	28 08.00				
TNP	72.15	307	eP	24 09.31	0.0				iSKS	34 20.19		SIT	83.15	327	P	25 20.00	10.7X		
	0.9s			25.14nm					eSP	34 54.19		Z	20s		3.07um		5.7MsZ		
KAS	72.19	50	eP	24 14.00	4.8X				iPS	35 07.19		BALM	85.91	331	eP	25 24.53	1.3		
NEW	72.45	317	eP	24 10.59	0.0				iSS	39 29.19		ARU	86.90	33	eP	25 30.00	1.9		
	1.1s			21.38nm					eSSS	42 38.19				e	25 33.00	9kmX			
Z	19s			6.23um					eLQ	44 22.19				e	28 51.00				
SSK	72.56	303	eP	24 13.86	2.1				eLR	48 55.19				eS	36 03.00				
SIM	72.57	46	eP	24 10.00	-1.3				eLR	48 55.19				ePS	37 05.00				
			eS	33 40.00		LBFM	75.72	310	eP	24 29.19	-0.7			e	41 50.00				
			ePS	34 12.00		SHW	75.88	315	(P)	24 32.02	1.4	FBA	87.18	336	eP	25 29.62	0.3		
YKA	72.77	332	eP	24 15.00	2.9X	KSR	75.89	120	eP	24 30.50	-0.6		1.0s		24.62nm		5.4mb		
	1.0s			19.50nm					1.0s		60.00nm				e	25 47.77	65kmX		
BONR	73.01	306	eP	24 14.45	0.0	BKS	76.12	306	ePd	24 37.37	5.4X	TOA	87.37	333	eP	25 35.30	5.0X		
DPW	73.15	317	eP	24 14.17	-0.6	Z	21s		4.00um		5.7MsZ		1.1s		54.70nm		5.7mb		
MRCM	73.17	306	(P)	24 17.32	2.0				eS	34 21.37		KLU	87.44	332	eP	25 32.14	1.4		
ISA	73.17	304	eP	24 16.03	0.9				eSKS	34 22.37		SVE	87.88	33	ePc	25 37.00	4.2X		
	1.0s			31.93nm					eSP	34 56.37		Z	18s		14.00um		6.4MsZ		
Z	20s			7.10um					iPS	34 59.37		N	17s		1.50um				
MTUM	73.22	306	(P)	24 13.43	-2.1				eSS	39 22.37		E	17s		9.00um				
MEMM	73.52	306	eP	24 19.00	2.1				eSSS	42 41.37				e	29 06.00				
MMPM	73.59	306	(P)	24 18.96	1.1				eLQ	44 26.37				eS	36 00.00				
BHL	73.72	58	P	24 29.00	10.6X				iLR	49 06.37				ePS	37 16.00				
			S	33 52.00		WDC	76.24	309	eP	24 41.21	8.6X			eSS	42 05.00				
BCH	74.50	304	eP	24 24.23	1.3				eS	34 15.21		NVL	88.79	165	iPc	25 39.00	2.2		
LBTB	74.50	120	eP	24 23.28	0.2				eSKS	34 22.21				eS	36 29.00				
	0.9s			19.00nm					eSP	34 57.21		PMR	88.87	333	e(P)	25 44.40	7.0X		
CMB	74.65	307	ePd	24 32.31	8.7X	GMW	76.24	316	eP	24 34.93	2.5X	Z	20s		4.00um		5.8MsZ		
Z	21s			6.00um		MCW	76.26	318	eP	24 32.35	-0.2	IMA	89.03	338	eP	25 36.60	-1.7		
			eS	34 02.31		YBH	76.33	310	ePd	24 42.52	9.4X	SLKM	89.75	332	(P)	25 41.10	-0.5		
			iSKS	34 09.31		Z	20s		5.00um		5.8MsZ	CRP	90.34	333	(P)	25 47.89	3.3X		
			eSP	34 39.31					ePPd	27 16.52		ASH	91.37	51	eP	25 56.20	6.7X		
			iPS	34 41.31					eS	34 16.52			N	17s		3.53um			
			eSS	39 20.31					iS	34 24.52		E	17s		2.89um				
			eSSS	42 17.31					eSP	35 04.52				i	29 29.00				
			eLQ	44 24.31					iSS	39 39.52				i	36 26.60				
			eLR	48 20.31					eSSS	42 36.52		MAIO	92.67	52	eP	26 02.00	6.3X		
OBN	74.69	36	eP	24 23.70	0.3				eLQ	44 20.52				eS	36 12.00				
	1.4s			42.00nm		BLF	76.40	123	eP	24 39.00	5.2X	SDN	96.92	330	P	26 20.00	5.4X		
			i	24 34.00	33km				1.0s		56.00nm		Z	20s		0.79um	5.2MsZ		
			e	27 09.50					1.0s		56.00nm		WMQ	109.01	36	ePd	27 12.00	3.0X	
			eS	33 56.00		LGPM	76.45	310	eP	24 33.11	-0.8		Z	24s		9.41um	6.3MsZ		
			ePS	34 48.00		BMW	76.56	315	(P)	24 43.58	9.2X		E	18s		5.98um			
			iSS	38 48.00		SOC	76.58	48	eP	24 34.00	-0.4			PP	31 44.00				
ANN	74.83	46	eP	24 13.00	-11.4X				Z	18s		3.60um		HON	109.87	297	PKP	31 30.00	14.3X
Z	18s			6.50um					N	18s		2.00um		Z	19s		1.07um	5.4MsZ	
N	18s			5.50um					E	18s		3.00um		ZAK	112.03	23	ePKP	31 00.50	-18.4X
E	18s			4.00um											2.0s		18.00nm		
			e	27 13.00					e	24 45.00	36km			Z	17s		3.80um	6.1MsZ	
			eS	33 53.00					e	34 14.00				N	19s		6.69um		
			ePS	34 36.00		MBC	76.83	346	P	24 35.40	0.2			E	18s		3.50um		
VGB	74.86	314	eP	24 26.19	1.5				PPP	29 21.50					e	32 09.00			
MOS	75.31	35	eP	24 28.00	1.1				S	34 19.90					e	38 05.00			
			e	27 19.00					S	34 23.70					ePS	41 37.00			
			eS	34 02.00					PS	34 31.80					ePPS	42 51.00			
			e	34 34.00					SKSac	34 39.40					eSS	47 36.00			
ORV	75.48	308	ePd	24 34.39	6.1X				SKSac	34 40.00		PET	114.28	347	ePKP	31 28.00	4.8X		
Z	19s			5.00um					ScS	34 48.60		Z	20s		2.70um		5.8MsZ		
			eS	34 14.39					ScS	34 49.70				e	42 00.00				
			iSKS	34 17.39					PS	35 02.40				eSS	48 08.00				
			eSP	34 43.39					SPP	35 12.50		GTA	118.73	33	ePKP	31 39.00	6.6X		
			iPS	34 46.39					SS	39 03.70		Z	24s		10.50um		6.4MsZ		
			eSS	38 50.39		SLR	77.03	120	eP	24 38.00	0.6	N	18s						



Z 18s	6.26um	6.3MsZ	SEK	0.76 114 eP	24 43.50	-0.6	SCY	0.20 182 P	41 17.63	-0.5
SHL 122.27	51 ePKP	31 29.50 -10.1X	BFS	1.12 358 eP	24 50.10	0.0	MWC	0.33 105 P	41 20.36	-0.3
BTO 122.74	25 ePKP	31 38.00 -1.9	BLF	1.23 207 iPc	24 52.40	0.4	LRRC	0.41 58 P	41 21.46	-0.6
N 17s	2.13um		PRY	1.23 28 eP	25 07.10	0.0	QAL	0.49 333 P	41 22.87	-0.9
E 18s	3.35um		KSR	2.14 2 eP	25 04.50	-1.2	PEM	0.50 106 P	41 23.29	-0.6
HHC 123.17	24 PKP	31 45.50 4.8X	SLR	2.62 30 eP	25 14.00	1.6	ECF	0.55 286 P	41 24.78	-0.2
Z 20s	11.20um	6.5MsZ	NWL	2.78 85 eP	25 06.80	-8.0X	SSK	0.63 99 eP	41 25.60	-0.9
N 18s	4.89um		HVD	2.83 204 eP	24 54.00	-21.5X	SBB	0.64 53 P	41 25.36	-1.2
E 18s	4.63um		KSD	3.37 139 eP	25 31.90	8.7X	BMTC	0.83 351 P	41 28.86	-1.5
CN2 124.61	11 ePKP	31 43.30 0.0	BFT	3.69 52 eP	25 36.50	8.7X	ABL	0.84 310 eP	41 28.79	-1.7
Z 22s	3.06um	5.9MsZ	PKA	3.93 244 eP	26 23.30	-0.1	CIW	0.85 186 P	41 29.62	-0.8
N 20s	3.36um		S.D. = 1.1 on 7 of 11 obs.				CIS	0.90 178 P	41 30.35	-1.1
E 20s	3.02um		JAN 25, 1994 08h 38m 16.94± 0.45s				SME	1.03 118 P	41 32.25	-1.3
BJI 125.60	21 ePKP	31 48.00 2.7X	42.622 N ± 3.7km 19.885 E ± 3.7km				DTP	1.07 27 P	41 34.64	0.2
Z 24s	6.12um	6.2MsZ	DEPTH = 5.0km (geophysicist)				PEC	1.14 111 eP	41 34.44	-1.1
N 19s	3.66um		NORTHWESTERN BALKAN REGION (383)				BTL	1.19 92 P	41 36.34	-0.3
SNY 126.11	14 ePKP	31 46.60 0.3	ML 2.7 (TTG), 2.6 (TIR).				BLKC	1.27 52 P	41 37.36	-0.4
Z 39s	4.40um	5.8MsZ	PVY	0.07 112 iPg	38 18.99	0.2	ISA	1.35 359 eP	41 37.66	-1.4
CD2 127.07	38 ePKP	31 52.20 3.7X	IVA	0.25 2 iPg	38 22.32	0.3	WORM	1.39 7 P	41 39.86	0.1
Z 24s	9.16um	6.4MsZ	TTG	0.50 248 iPg	38 26.60	-0.4	SRTC	1.49 22 P	41 41.97	0.9
N 20s	6.19um		SDA	0.64 207 ePg	38 30.00	0.3	WSHM	1.53 30 P	41 41.70	0.0
XAN 127.57	31 PKP	31 50.00 0.6	NKY	0.68 287 iPg	38 30.37	-0.2	BCH	1.61 303 eP	41 42.80	0.0
Z 20s	5.15um	6.2MsZ	PLE	0.79 333 iPg	38 32.07	-0.8	PLM	1.63 125 eP	41 40.62	-2.5
N 18s	2.97um		ULC	0.81 216 iPg	38 32.43	-0.7	CLC	1.66 25 P	41 44.40	0.9
E 10s	3.49um		BDV	0.85 247 iPg	38 33.63	-0.2	RCWM	1.76 22 P	41 46.29	1.2
TIA 129.35	22 ePKP	31 52.40 -0.3	LACI	0.99 188 eP	38 36.30	0.1	COY	2.01 117 P	41 50.36	1.8
Z 30s	1.29um	5.4MsZ	BRY	1.03 286 iPg	38 36.63	-0.3	MTUM	3.04 358 ePg	42 09.02	5.6
N 12s	0.43um		HCY	1.04 261 iPg	38 37.14	0.1	TPNV	3.18 34 eP	42 05.01	-0.4
E 13s	0.44um		TIR	1.27 181 eP	38 41.50	0.5	MMPM	3.33 352 ePg	42 13.14	5.5
GYA 132.03	39 PKP	32 00.20 2.0	SKO	1.32 119 eP	39 01.00	19.1X	MEMM	3.37 353 ePg	42 15.03	7.1
Z 24s	6.62um	6.3MsZ	OHR	1.66 155 iP	38 46.50	-0.3	BONR	3.64 2 ePg	42 19.50	7.4
N 22s	4.94um		KBN	2.11 161 eP	38 56.00	2.6X	TNP	3.89 14 ePg	42 27.26	11.7
E 22s	2.14um		VAY	2.39 122 eP	38 57.00	-0.3	DLF	74.73 35 eP	52 50.00	-5.9
CVP 147.51	30 ePKP	32 14.00 -12.0X	HVAR	2.59 284 eP	39 01.90	1.8	PAB	84.58 45 iPc	54 02.50	13.3
BAG 147.95	33 ePKP	32 32.00 5.1X	S.D. = 0.7 on 15 of 17 obs.				34 obs. associated			
LEM 149.46	85 ePKP	32 34.50 5.1X	& JAN 25, 1994 08h 40m 22.97s							
DZM 150.73	244 iPKP	32 37.30 6.3X	34.358 N 118.534 W							
MRWA 152.13	135 ePKP	32 40.00 7.2X	DEPTH = 3.3km							
TOO 152.37	192 ePKP	32 41.00 8.1X	SOUTHERN CALIFORNIA (43)							
CNB 153.41	201 ePKP	32 41.00 6.5X	<PAS-P>. ML 2.6 (PAS), 2.6 (GS).							
CAN 153.53	200 ePKP	32 43.10 8.5X	SSK	0.71 102 eP	40 36.45	-0.8				
ARMA 156.70	210 iPKP	32 35.50 -3.6X	ABL	0.75 311 eP	40 47.38	-1.1				
STK 158.60	188 ePKP	32 43.10 1.9	PEC	1.23 112 eP	40 44.62	-1.9				
WRA 169.96	158 PKP	32 52.30 0.9	ISA	1.30 2 eP	40 46.18	-1.6				
WB2 169.97	158 iPKP	32 51.60 0.2	BCH	1.52 303 eP	40 50.47	-0.7				
WB5 170.03	158 ePKP	32 50.20 -1.2	GSC	1.71 56 eP	40 52.31	-1.5				
S.D. = 1.2 on 209 of 330 obs.			PLM	1.71 125 eP	40 52.61	-1.4				
? JAN 25, 1994 07h 15m 42.91± 8.23s			TPNV	3.18 35 eP	41 13.77	-1.3				
31.335 S ± 107.7km 70.083 W ± 36.4km			8 obs. associated							
DEPTH = 10.0km (geophysicist)			& JAN 25, 1994 08h 41m 13.85s							
CHILE-ARGENTINA BORDER REGION (127)			34.310 N 118.444 W							
ZON 1.22 100 eP	16 05.30	-0.3	DEPTH = 7.0km							
RTCV 1.42 112 iPd	16 22.30	0.2	SOUTHERN CALIFORNIA (43)							
CFA 1.60 100 ePd	16 11.50	0.2	<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
IHA 2.14 218 eP	16 19.10	0.0	SSK	0.71 102 eP	40 36.45	-0.8				
S.D. = 0.4 on 4 of 4 obs.			ABL	0.75 311 eP	40 47.38	-1.1				
% JAN 25, 1994 07h 24m 28.64± 0.73s			PEC	1.23 112 eP	40 44.62	-1.9				
28.017 S ± 6.6km 26.831 E ± 8.9km			ISA	1.30 2 eP	40 46.18	-1.6				
DEPTH = 5.0km (geophysicist)			BCH	1.52 303 eP	40 50.47	-0.7				
REPUBLIC OF SOUTH AFRICA (584)			GSC	1.71 56 eP	40 52.31	-1.5				
ML 3.2 (PRE).			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				
			PEC	1.23 112 eP	40 44.62	-1.9				
			ISA	1.30 2 eP	40 46.18	-1.6				
			BCH	1.52 303 eP	40 50.47	-0.7				
			GSC	1.71 56 eP	40 52.31	-1.5				
			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				
			PEC	1.23 112 eP	40 44.62	-1.9				
			ISA	1.30 2 eP	40 46.18	-1.6				
			BCH	1.52 303 eP	40 50.47	-0.7				
			GSC	1.71 56 eP	40 52.31	-1.5				
			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				
			PEC	1.23 112 eP	40 44.62	-1.9				
			ISA	1.30 2 eP	40 46.18	-1.6				
			BCH	1.52 303 eP	40 50.47	-0.7				
			GSC	1.71 56 eP	40 52.31	-1.5				
			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				
			PEC	1.23 112 eP	40 44.62	-1.9				
			ISA	1.30 2 eP	40 46.18	-1.6				
			BCH	1.52 303 eP	40 50.47	-0.7				
			GSC	1.71 56 eP	40 52.31	-1.5				
			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				
			PEC	1.23 112 eP	40 44.62	-1.9				
			ISA	1.30 2 eP	40 46.18	-1.6				
			BCH	1.52 303 eP	40 50.47	-0.7				
			GSC	1.71 56 eP	40 52.31	-1.5				
			PLM	1.71 125 eP	40 52.61	-1.4				
			TPNV	3.18 35 eP	41 13.77	-1.3				
			8 obs. associated							
			& JAN 25, 1994 08h 41m 13.85s							
			34.310 N 118.444 W							
			DEPTH = 7.0km							
			SOUTHERN CALIFORNIA (43)							
			<PAS-P>. ML 2.9 (PAS), 3.0 (GS).							
			SSK	0.71 102 eP	40 36.45	-0.8				
			ABL	0.75 311 eP	40 47.38	-1.1				



RIY	76.75	335	eP	53	13.00	-0.4
KOD	76.81	269	eP	53	14.00	-0.6
TMA	77.30	339	eP	53	17.20	0.6
ALN	77.39	325	eP	53	17.20	0.2
MMK	77.54	340	ePd	53	19.20	1.1
DIX	77.62	340	ePd	53	19.60	1.0
EMS	77.73	340	eP	53	20.30	1.3
ORX	77.93	340	P	53	20.11	0.0
SRS	78.01	327	eP	53	20.48	0.1
VAY	78.15	328	iP	53	21.50	0.4
	1.3s	100.00nm			5.4mb	
KNT	78.19	328	eP	53	21.80	0.4
LSD	78.27	340	P	53	23.82	1.7
SOH	78.35	327	iP	53	20.80	-1.5
GRG	78.53	328	eP	53	23.36	0.1
RSP	78.54	340	P	53	24.82	1.4
BHB	78.84	340	P	53	24.73	-0.2
PCP	78.86	339	P	53	24.73	-0.3
RRL	78.86	340	P	53	26.19	0.9
OHR	78.89	329	iP	53	24.50	-0.8
	0.8s	60.00nm			5.4mb	
PAIG	79.05	327	eP	53	25.24	-0.8
PZZ	79.19	340	P	53	26.79	-0.2
ROB	79.24	339	P	53	26.61	-0.5
FIN	79.25	339	P	53	26.93	-0.2
ENR	79.40	340	P	53	27.25	-0.8
STV	79.40	340	P	53	27.11	-0.9
IMI	79.60	339	P	53	28.76	-0.3
CIN	79.62	322	iPd	53	29.00	-0.2
ASPA	80.11	203	iPc	53	32.10	0.2
	0.7s	19.70nm			5.0mb	
		i		54	07.90	143km
KIC	118.55	342	PKP	00	08.90	-0.2
LIC	118.73	342	PKP	00	09.00	-0.4
LPB	127.98	63	ePKP	00	11.00	-16.6X
		i		00	27.00	
SLR	134.16	288	ePKP	00	39.50	0.7
	1.0s	40.00nm				
KSR	135.04	289	ePKP	00	39.50	-1.0
BLF	137.94	287	ePKP	00	47.50	1.6
POF	141.63	293	ePKP	00	55.00	2.7
CER	145.02	289	iPKPd	00	46.90	-11.1X
	1.5s	420.00nm				
S.D. = 0.9 on 151 of 159 obs.						
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& JAN 25, 1994 08h 41m 47.89s						
34.369 N 118.549 W						
DEPTH = 4.0km						
SOUTHERN CALIFORNIA (43)						
<PAS->. ML 2.7 (PAS), 2.7 (GS).						
TWL	0.10	203	P	41	49.77	-0.2
SCY	0.27	163	P	41	53.15	-0.3
TPRS	0.28	186	P	41	53.27	-0.3
LHU	0.32	21	P	41	54.22	-0.2
LEOC	0.33	38	P	41	54.30	-0.3
QAL	0.40	340	P	41	55.97	0.0
STTC	0.42	10	P	41	56.54	0.1
MWC	0.43	109	P	41	56.34	-0.2
FOXC	0.45	36	P	41	56.90	0.0
LRRC	0.46	70	P	41	56.68	-0.4
JNH	0.50	81	P	41	57.22	-0.6
LOK	0.57	309	P	41	59.29	0.0
PJM	0.60	109	P	41	59.38	-0.5
LEB	0.62	69	P	41	59.36	-0.9
DBM	0.63	14	P	42	00.13	-0.3
SSK	0.73	102	eP	42	01.54	-0.9
ABL	0.73	311	eP	42	02.45	-0.1
		eS		42	15.40	
GAV	0.93	112	P	4		



ELOJ 0.39 286 eS 41 19.00  
 EP 41 19.30 -0.3  
 EBAN 1.13 356 eS 41 25.80  
 EP 41 34.00 0.8  
 ES 41 50.00

S.D. = 1.0 on 4 of 4 obs.

? JAN 25, 1994 09h 45m 32.01± 5.13s  
 41.027 N ±15.2km 28.937 E ±38.4km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

ISK 0.10 67 iPg 45 34.50 -0.2  
 ISg 45 38.00  
 YLV 0.57 144 ePg 45 43.00 -0.6  
 HRT 0.59 110 iPg 45 43.30 -0.7  
 ESg 45 53.30  
 IZI 0.80 149 iPn 45 48.00 0.4  
 EYL 1.03 116 ePn 45 52.50 0.9

S.D. = 0.9 on 5 of 5 obs.

JAN 25, 1994 10h 15m 43.94± 0.62s  
 38.369 N ± 5.3km 21.953 E ± 5.5km  
 DEPTH = 5.0km (geophysicist)

GREECE (364)

ML 3.4 (THE), 3.3 (ATH).

AGG 0.72 24 ePg 15 58.36 0.1  
 ESg 16 11.20  
 VLS 1.09 260 iPnc 16 00.90 -4.0X  
 eSn 16 17.40  
 ATH 1.45 105 ePb 16 15.10 4.3X  
 IGT 1.72 313 ePb 16 14.36 -0.3  
 eSb 16 35.76  
 VLI 1.82 154 ePn 16 16.40 0.2  
 KZN 1.94 356 ePn 16 18.80 0.9  
 PAIG 2.06 40 ePn 16 18.84 -0.7  
 eSn 16 47.68

LSK 2.07 330 iPn 16 21.70 1.9X  
 SRN 2.14 315 ePn 16 20.90 0.1  
 KEK 2.15 309 ePn 16 20.50 -0.4  
 KBN 2.43 339 iPnd 16 30.00 5.1X  
 FNA 2.45 350 ePn 16 25.05 -0.3  
 GRG 2.61 7 ePn 16 27.68 0.2  
 SOH 2.68 23 iPn 16 28.68 0.2  
 OHR 2.88 342 iPn 16 31.70 0.3  
 KNT 2.88 14 ePn 16 31.16 -0.2  
 VAY 2.99 9 iPn 16 32.70 -0.1  
 SRS 3.02 24 ePn 16 33.28 0.0  
 TIR 3.38 332 ePn 16 40.80 2.4X

S.D. = 0.4 on 14 of 19 obs.

& JAN 25, 1994 10h 21m 58.12s  
 34.304 N 118.554 W  
 DEPTH = 10.1km

SOUTHERN CALIFORNIA (43)

<PAS> ML 3.2 (PAS), 3.4 (GS).

SCY 0.21 157 P 22 02.37 -0.4  
 LEOC 0.39 32 P 22 05.27 -0.8  
 QAL 0.46 343 P 22 06.73 -0.9  
 FOXC 0.50 32 P 22 07.77 -0.6  
 PEM 0.58 103 P 22 08.92 -1.0  
 FTC 0.63 334 P 22 09.78 -1.1  
 TPO 0.63 25 P 22 09.88 -1.0  
 SSK 0.72 97 iPd 22 11.20 -1.2  
 RYS 0.74 297 P 22 12.00 -0.8  
 ABL 0.77 315 iPc 22 11.89 -1.5  
 PLEC 0.79 328 P 22 12.97 -0.5  
 BMTC 0.83 358 P 22 13.07 -1.2  
 ARVC 0.85 345 P 22 13.69 -0.8  
 SNDC 0.86 14 P 22 13.97 -0.8  
 TEJ 0.93 353 P 22 14.78 -1.1  
 MARC 0.95 317 P 22 15.39 -0.8  
 LPC 0.98 282 P 22 15.61 -1.2  
 SME 1.10 115 P 22 17.73 -1.1  
 WJPM 1.11 3 P 22 18.17 -0.8  
 DTP 1.12 31 P 22 18.50 -0.7  
 TMB 1.12 314 P 22 18.78 -0.5  
 WHVM 1.20 1 P 22 19.86 -0.7  
 PEC 1.23 109 eP 22 19.34 -1.6  
 eS 22 36.47

WBSM 1.28 15 P 22 21.32 -0.6  
 BTL 1.28 92 P 22 21.54 -0.6  
 CRGC 1.34 315 P 22 22.40 -0.5  
 ISA 1.36 3 iPc 22 22.13 -1.0

WHFM 1.40 7 P 22 22.82 -0.9  
 SCCM 1.48 296 P 22 24.63 -0.2  
 WWPM 1.48 15 P 22 23.82 -1.0  
 BCH 1.54 305 eP 22 23.96 -1.7  
 ES 22 46.53  
 XMS 1.57 39 P 22 25.12 -0.9  
 WSHM 1.59 33 P 22 24.85 -1.5  
 WCHM 1.62 14 P 22 25.84 -1.3  
 NMC 1.62 19 P 22 25.48 -1.5  
 TOW 1.64 23 P 22 29.10 2.0  
 RMR 1.64 93 P 22 27.64 0.4  
 PLM 1.70 123 eP 22 27.34 -0.8  
 VPEN 1.75 20 P 22 30.72 1.9  
 GSC 1.75 55 ePn 22 27.70 -1.1  
 RCWM 1.80 24 P 22 28.44 -1.1  
 WLHM 1.85 6 P 22 29.79 -0.7  
 CPM 1.96 94 P 22 34.36 2.6  
 PHAM 2.15 316 eP 22 32.97 -1.5  
 PHBM 2.31 328 P 22 37.88 1.1  
 MTUM 3.04 360 ePn 22 46.87 -0.5  
 TPNV 3.24 35 ePn 22 48.86 -1.3  
 ePg 22 58.13

MMPM 3.32 353 (Pn) 22 51.39 -0.1  
 ePg 22 56.73  
 GLA 3.35 111 (Pn) 22 52.57 1.0  
 MEMM 3.37 355 ePn 22 52.34 0.5  
 ePg 22 59.02

BONR 3.65 3 ePn 22 56.77 0.7  
 ePg 23 05.33  
 ARN 3.88 322 (P) 22 57.70 -1.5  
 TNP 3.92 16 ePg 23 11.46 11.6  
 ARUT 5.41 49 (Pn) 23 21.40 0.5  
 MSU 6.64 49 (Pn) 23 38.32 0.0

55 obs. associated

& JAN 25, 1994 10h 23m 49.35± 0.59s  
 42.621 N ± 4.9km 19.848 E ± 4.5km  
 DEPTH = 5.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 1.7 (TTG).

PVY 0.10 106 iPgd 23 51.66 0.1  
 ISg 23 52.97  
 IVA 0.25 8 iPgc 23 54.71 0.2  
 ISg 23 58.60  
 TTG 0.47 246 iPgd 23 59.16 0.3  
 ISg 24 06.60  
 NKY 0.66 287 iPgd 24 02.57 0.1  
 ISg 24 12.56  
 PLE 0.78 335 iPgd 24 04.66 -0.4  
 ISg 24 16.50  
 ULC 0.79 214 iPgc 24 04.91 -0.3  
 ISg 24 16.74

BDV 0.83 246 iPgc 24 05.75 -0.1  
 ISg 24 18.24  
 BRY 1.00 287 iPgd 24 08.88 0.0  
 ISg 24 24.07  
 HCY 1.01 261 ePg 24 09.12 0.1  
 ISg 24 24.47

S.D. = 0.3 on 9 of 9 obs.

? JAN 25, 1994 10h 28m 03.98± 0.93s  
 39.643 N ± 7.8km 29.516 E ± 9.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

DST 0.69 267 ePg 28 17.70 0.1  
 eSg 28 28.70  
 IZI 0.69 357 iPg 28 17.50 -0.3  
 ISg 28 28.00  
 ALT 0.75 142 ePg 28 18.60 -0.1  
 EYL 1.05 28 ePn 28 24.00 0.2

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

? JAN 25, 1994 10h 30m 13.64± 4.68s  
 41.299 N ±39.0km 28.647 E ±11.9km  
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

ML 2.7 (ISK).

ISK 0.39 127 ePg 30 21.00 -0.5  
 HRT 0.91 121 ePg 30 31.00 -0.5  
 EDC 1.12 212 ePg 30 35.00 -0.1  
 IZI 1.15 147 ePg 30 36.00 0.4  
 eSg 30 49.00  
 EYL 1.36 122 ePn 30 40.00 0.7

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

? JAN 25, 1994 10h 39m 36.48± 1.00s  
 40.174 N ±10.4km 29.172 E ± 9.9km  
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

ML 2.5 (ISK).

IZI 0.28 55 iPg 39 42.00 -0.2  
 ISg 39 46.00  
 YLV 0.42 21 ePg 39 45.20 0.2  
 eSg 39 51.20  
 DST 0.71 217 ePn 39 50.70 0.1  
 EDC 1.02 280 ePn 39 56.00 -0.2

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

JAN 25, 1994 11h 18m 31.81± 1.39s  
 1.202 N ± 6.0km 127.549 E ±10.3km  
 DEPTH = 40.3 ± 13.3 km  
 4.9mb (11 obs.)

HALMAHERA, INDONESIA (267)

MNI 2.72 275 ePd 19 14.00 -0.1  
 eS 19 51.00  
 DAV 6.17 341 eP 20 02.10 -0.8  
 CTB 6.83 331 ePc 20 13.00 0.9  
 BIP 7.10 350 eP 20 18.50 2.6X  
 WB2 22.05 163 iPd 23 23.70 -1.2  
 0.8s 38.00nm 4.9mb  
 QIS 24.64 152 eP 23 52.00 1.9  
 ASPA 25.48 166 iPd 23 58.00 -0.1  
 0.7s 26.90nm 4.9mb  
 Z 19s 0.20um 3.7MsZ

WYJY 33.70 12 P 25 09.60 -1.8  
 YONJ 34.26 9 P 25 16.10 -0.1  
 STK 35.49 159 eP 25 26.00 -0.8  
 1.1s 2.60nm 4.1mb  
 TIA 36.15 346 eP 25 33.40 1.1  
 CHJJ 36.26 16 P 25 33.20 0.0  
 MAT 36.52 14 eP 25 34.00 -1.4  
 XAN 37.03 334 P 25 38.50 -1.2  
 1.5s 25.00nm 4.9mb  
 CD2 37.16 325 eP 25 41.10 0.2  
 NIIJ 37.39 15 P 25 42.50 -0.1  
 TIY 38.91 341 P 25 55.50 0.0  
 ARMA 38.92 146 iPd 25 56.50 0.7  
 0.8s 19.00nm 4.9mb  
 BJI 40.02 346 eP 26 04.00 -0.6  
 1.4s 24.00nm 4.8mb  
 SNY 40.60 355 eP 26 09.80 0.5  
 LZH 41.09 330 P 26 14.50 0.9  
 1.8s 74.00nm 5.1mb  
 Z 16s 0.29um 4.2MsZ

pP 26 19.20 16kmX  
 HHC 42.04 342 P 26 22.00 0.7  
 0.8s 11.00nm 4.6mb  
 SHL 42.05 308 eP 26 23.00 1.3  
 BTO 42.32 340 eP 26 24.00 0.4  
 MDJ 43.27 2 eP 26 32.50 1.4  
 1.0s 19.00nm 4.8mb

KUSJ 44.45 18 eP 26 41.10 0.4  
 GTA 45.67 330 eP 26 50.70 0.0  
 PcP 28 27.50  
 HYB 50.77 292 eP 27 28.50 -2.0  
 WMQ 55.25 326 P 28 03.60 0.1  
 1.5s 18.00nm 4.9mb  
 KSH 60.38 316 P 28 40.50 0.9  
 1.3s 40.00nm 5.4mb  
 MAIO 71.69 308 eP 29 51.00 -1.0

S.D. = 1.0 on 30 of 31 obs.

& JAN 25, 1994 11h 50m 09.18s  
 63.278 N 151.261 W

DEPTH = 11.9km

CENTRAL ALASKA (1)

<AEIC> ML 2.8 (AEIC), 3.0 (PMR).

TRF 0.47 68 iP 50 18.36 -0.6  
 eS 50 24.66  
 HUR 0.80 111 eP 50 23.95 -0.6  
 CUT 0.99 152 iP 50 27.86 0.1  
 eS 50 40.96  
 RND 1.09 82 eP 50 28.97 -0.6  
 MCK 1.14 65 eP 50 30.18 -0.2  
 eS 50 46.31



25d 11h

BWN 1.20 41 eP 50 31.79 0.4  
 SKT 1.31 186 eP 50 33.57 0.4  
 NEA 1.62 36 eP 50 38.03 0.4  
 PWA 1.76 158 P 50 40.70 1.1  
 DHY 1.77 95 eP 50 40.13 0.1  
 MLY 1.77 7 eP 50 39.46 -0.5  
 SUA 1.84 172 eP 50 42.38 1.5  
 WRH 1.85 48 eP 50 42.12 1.2  
 GH0 1.86 143 eP 50 41.66 0.5  
 NCG 1.93 193 eP 50 42.70 0.5  
 PLRM 1.96 149 eP 50 42.68 0.1  
 PMR 1.96 149 eP 50 42.26 -0.3  
 SML 2.00 136 eP 50 43.69 0.4  
 CGLM 2.01 190 eP 50 44.07 0.7  
 CCB 2.05 46 eP 50 42.29 -1.6  
 CRP 2.06 192 P 50 45.20 1.0  
 CP2 2.07 193 eP 50 44.70 0.3  
 BGL 2.09 195 eP 50 45.73 1.2  
 CKN 2.11 192 eP 50 45.77 1.0  
 CKT 2.13 192 eP 50 46.19 1.1  
 SPU 2.14 190 eP 50 45.80 0.6  
 MDM 2.15 37 eP 50 46.85 1.5  
 TTA 2.19 263 eP 50 48.26 2.3  
 PMS 2.19 158 eP 50 47.10 1.1  
 HDA 2.22 57 eP 50 46.50 0.2  
 FBA 2.23 42 eP 50 44.75 -1.7  
 BKG 2.27 192 eP 50 48.08 1.0  
 KNK 2.28 144 eP 50 48.12 0.8  
 GLM 2.41 43 eP 50 49.03 -0.1  
 ILB 2.44 50 eP 50 51.70 2.3  
 IL1 2.44 50 eP 50 47.68 -1.8  
 DDM 2.47 76 eP 50 51.16 1.2  
 TOA 2.63 114 P 50 52.40 0.2  
 PAX 2.65 94 P 50 53.00 0.5  
 CFI 2.66 141 eP 50 53.13 0.5  
 DFR 2.78 195 eP 50 53.59 -0.8  
 FWL 2.79 149 eP 50 55.18 0.7  
 SLKM 2.82 169 eP 50 55.85 0.9  
 NCT 2.84 197 eP 50 53.16 -2.1  
 REF 2.88 194 P 50 59.00 3.1  
 RDW 2.90 195 P 50 58.40 2.2  
 IM3 2.92 340 eP 50 55.77 -0.5  
 SVW 2.99 225 eP 50 59.52 2.3  
 IMA 2.99 341 eP 50 55.86 -1.5  
 KLU 3.07 123 eP 50 59.41 1.1  
 BM3 5.00 31 eP 51 23.49 -2.3  
 51 obs. associated

& JAN 25, 1994 11h 55m 56.38s  
 58.058 N 151.776 W  
 DEPTH = 25.0km  
 KODIAK ISLAND REGION (13)  
 <AEIC>. ML 3.4 (AEIC).

KDC 0.49 231 iPc 56 05.46 -1.0  
 CDD 1.31 313 eP 56 17.54 -1.7  
 XLV 1.40 1 eP 56 18.70 -1.8  
 CNPM 1.50 11 eP 56 19.71 -2.2  
 AUI 1.54 327 eP 56 21.22 -1.3  
 AUE 1.55 328 eP 56 21.23 -1.3  
 AUP 1.56 327 eP 56 21.40 -1.5  
 AGU 1.57 327 eP 56 21.77 -1.2  
 AUH 1.57 327 eP 56 21.84 -1.2  
 AUL 1.59 328 eP 56 22.17 -1.0  
 AUW 1.59 327 eP 56 21.74 -1.4  
 HOM 1.61 2 eP 56 22.45 -1.0  
 OPT 1.77 335 eP 56 24.33 -1.5  
 INE 2.12 342 eP 56 29.15 -1.8  
 ILIM 2.12 344 eP 56 29.24 -1.7  
 PDB 2.14 325 eP 56 30.27 -0.9  
 SEW 2.38 29 eP 56 31.56 -2.9  
 RED 2.42 348 eP 56 33.31 -1.9

RSO 2.46 349 eP 56 33.91 -2.1  
 RS2 2.46 349 eP 56 33.92 -2.1  
 REF 2.48 349 eP 56 34.08 -2.2  
 RDW 2.49 348 eP 56 34.25 -2.1  
 NCT 2.58 347 eP 56 35.51 -2.0  
 SLKM 2.58 17 eP 56 34.51 -3.0  
 DFR 2.58 350 eP 56 35.22 -2.4  
 NKA 2.71 6 eP 56 38.31 -0.9  
 MPA 2.74 26 eP 56 36.74 -2.8  
 BKG 3.03 356 eP 56 41.31 -2.6  
 SPU 3.14 358 eP 56 42.64 -2.7  
 CKT 3.16 356 eP 56 43.34 -2.4  
 CKN 3.18 356 eP 56 44.24 -1.8  
 CP2 3.23 356 eP 56 43.84 -2.9  
 CRP 3.23 357 P 56 44.20 -2.5  
 BGL 3.23 355 eP 56 44.94 -1.8  
 CGLM 3.26 358 eP 56 43.67 -3.5  
 FWL 3.31 31 eP 56 44.17 -3.6  
 NCG 3.36 357 eP 56 46.70 -1.9  
 SUA 3.46 8 eP 56 46.52 -3.5  
 HIN 3.58 47 eP 56 48.54 -3.2  
 SVW 3.63 329 ePn 56 50.29 -2.1  
 PWA 3.73 14 P 56 51.20 -2.5  
 CFI 3.74 31 P 56 50.70 -3.1  
 KNK 3.76 25 eP 56 50.31 -3.9  
 PLRM 3.79 20 P 56 51.70 -2.8  
 PMR 3.79 20 ePn 56 52.21 -2.3  
 SKT 3.94 2 eP 56 53.75 -2.9  
 CVA 3.97 49 P 56 54.20 -2.9  
 GH0 3.99 20 P 56 54.00 -3.5  
 SML 4.14 23 P 56 56.40 -3.2  
 VLZ 4.14 40 eP 56 56.12 -3.4  
 KLU 4.54 38 ePn 57 01.70 -3.6  
 51 obs. associated

& JAN 25, 1994 12h 09m 00.11s  
 34.317 N 118.516 W  
 DEPTH = 1.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS), 3.1 (GS).

FTC 0.63 331 P 09 12.50 -0.3  
 SSK 0.69 99 eP 09 13.24 -0.7  
 RYS 0.76 295 P 09 15.85 0.5  
 ABL 0.79 313 eP 09 15.36 -0.5  
 PLEC 0.79 325 P 09 16.05 0.1  
 BMTC 0.82 355 P 09 15.52 -1.0  
 ARVC 0.85 342 P 09 16.18 -0.9  
 MARC 0.96 315 P 09 18.80 -0.4  
 LPC 1.01 281 P 09 19.75 -0.3  
 WJPM 1.09 2 P 09 20.62 -0.8  
 TMB 1.14 313 P 09 22.42 0.2  
 PEC 1.20 110 eP 09 21.75 -1.5  
 ISA 1.34 1 eP 09 23.77 -2.0  
 CRGC 1.36 313 P 09 26.68 0.7  
 SCCM 1.50 295 P 09 28.35 0.2  
 BCH 1.55 304 eP 09 28.68 -0.3  
 WSHM 1.56 32 P 09 29.44 0.5  
 TOW 1.61 22 P 09 31.62 1.9  
 PLM 1.68 124 eP 09 29.30 -1.5  
 GSC 1.72 55 eP 09 30.47 -0.8  
 MTUM 3.03 359 (Pn) 09 49.98 -0.2  
 TPNV 3.21 34 ePn 09 51.54 -1.2  
 MMPM 3.31 353 (Pn) 09 53.62 -0.7  
 GLA 3.32 111 (Pn) 09 53.96 -0.3  
 MEMM 3.36 354 ePn 09 54.21 -0.5  
 BONR 3.63 3 (Pn) 09 58.07 -0.8  
 ARUT 5.38 48 (Pn) 10 22.07 -1.4  
 27 obs. associated

? JAN 25, 1994 12h 36m 53.06± 1.25s  
 39.154 N ± 8.5km 27.456 E ± 17.9km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

IZM 0.77 191 ePg 37 08.00 -0.1  
 DST 1.01 63 ePn 37 12.20 -0.1  
 EDC 1.23 15 ePn 37 16.00 0.0  
 CIN 1.63 162 ePn 37 22.00 0.1  
 iSg 37 46.00

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

% JAN 25, 1994 12h 41m 42.65± 0.78s  
 26.387 S ± 7.0km 27.538 E ± 8.2km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.1 (PRE).

PRY 0.54 186 eP 41 52.20 -1.3  
 KSR 0.78 312 eP 41 59.60 -0.3  
 BFS 0.85 233 iPd 42 00.30 0.7  
 SLR 0.93 46 eP 42 00.50 -0.5  
 SEK 1.93 178 iPc 42 17.40 0.8  
 BFT 2.36 73 eP 42 23.50 0.6  
 S.D. = 1.1 on 6 of 6 obs.

% JAN 25, 1994 13h 11m 23.38± 1.03s  
 26.308 S ± 11.9km 27.653 E ± 13.4km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.3 (PRE).

PRY 0.64 195 eP 11 35.30 -0.9  
 SLR 0.80 45 eP 11 38.90 -0.7  
 BFS 0.97 233 eP 11 42.90 0.4  
 SEK 2.01 181 eP 11 54.10 0.6  
 BFT 2.24 74 eP 12 02.50 0.6  
 BLF 3.08 205 eP 12 13.50 -0.2  
 S.D. = 0.9 on 6 of 6 obs.

? JAN 25, 1994 13h 25m 20.02± 2.84s  
 39.907 N ± 14.9km 27.911 E ± 20.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.6 (ISK).

EDC 0.44 355 ePg 25 29.00 0.0  
 DST 0.63 118 ePg 25 32.70 0.0  
 IZI 1.27 70 ePn 25 43.80 0.1  
 YLV 1.30 59 ePn 25 44.00 -0.1  
 S.D. = 0.2 on 4 of 4 obs.

JAN 25, 1994 14h 14m 54.29± 0.52s  
 40.777 N ± 4.7km 23.157 E ± 4.4km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.3 (THE), 2.0 (SKO).

SOH 0.16 73 ePg 14 58.46 0.5  
 THE 0.21 225 ePg 14 59.14 0.4  
 KNT 0.43 333 ePg 15 03.10 0.0  
 SRS 0.47 44 ePg 15 03.74 -0.2  
 GRG 0.60 288 ePg 15 06.30 -0.1  
 VAY 0.70 321 iPg 15 08.00 -0.1  
 0.2s 30.00nm  
 OUR 0.77 125 ePg 15 09.10 -0.2  
 PAIG 0.94 155 ePg 15 11.82 -0.4  
 S.D. = 0.4 on 8 of 8 obs.

? JAN 25, 1994 14h 59m 27.73± 0.88s  
 40.693 N ± 6.7km 23.044 E ± 8.3km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 1.0 (THE).

THE 0.09 224 ePg 59 29.80 0.1  
 SOH 0.27 61 ePg 59 33.30 0.1  
 KNT 0.48 347 ePg 59 37.28 -0.1



PAIG 0.91 147 ePg 59 45.40 -0.1  
S.D. = 0.2 on 4 of 4 obs.

? JAN 25, 1994 15h 17m 53.70± 0.91s  
39.693 N ± 7.8km 29.413 E ± 8.7km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.6 (ISK).

DST 0.61 262 ePg 18 06.10 0.0  
eSg 18 16.60  
IZI 0.64 4 ePg 18 06.60 -0.1  
ALT 0.84 139 ePg 18 09.90 0.0  
EYL 1.04 33 ePn 18 13.50 0.1  
S.D. = 0.1 on 4 of 4 obs.

& JAN 25, 1994 16h 21m 25.22s  
34.270 N 118.411 W  
DEPTH = 10.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.5 (PAS), 2.7 (GS).

SSK 0.60 95 iPc 21 36.45 -1.0  
eS 21 44.55  
ABL 0.88 311 eP 21 40.86 -1.5  
PEC 1.10 110 eP 21 44.80 -1.2  
eS 21 59.68  
PLM 1.58 125 eP 21 51.86 -1.7  
BCH 1.65 304 eP 21 53.40 -1.1  
GSC 1.68 52 eP 21 54.11 -0.7  
TPNV 3.20 33 ePn 22 15.23 -1.5  
MMPM 3.37 352 ePg 22 25.93 6.7  
MEMM 3.42 353 ePg 22 27.36 7.8  
9 obs. associated

% JAN 25, 1994 16h 22m 32.73± 0.65s  
40.374 N ± 5.8km 28.793 E ± 5.4km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.1 (ISK).

IZI 0.52 94 iPg 22 42.40 -0.9  
EDC 0.71 268 iPg 22 46.00 -0.7  
ISK 0.72 16 iPg 22 47.70 0.8  
ISg 22 57.70  
DST 0.78 189 iPg 22 48.60 0.7  
HRT 0.80 56 iPg 22 48.00 -0.3  
EYL 1.06 79 iPn 22 52.70 -0.1  
GPA 1.16 94 iPn 22 55.10 0.6  
ALT 1.66 142 iPn 23 01.90 -0.3  
KHL 2.12 164 ePn 23 09.00 0.2  
S.D. = 0.7 on 9 of 9 obs.

? JAN 25, 1994 16h 25m 19.27± 1.03s  
15.886 N ± 9.6km 120.922 E ± 22.5km  
DEPTH = 63.4 ± 16.9 km  
4.4mb (1 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BCP 0.61 330 eP 25 32.50 -0.5  
eS 25 42.00  
QVP 1.26 176 eP 25 42.00 0.9  
eS 25 59.00  
SZP 1.72 345 eP 25 52.00 4.6X  
TGY 1.77 180 ePd 25 52.00 3.7X  
CVP 2.00 25 eP 25 52.00 0.6  
eS 26 15.00  
PGP 2.37 179 eP 25 59.00 2.4X  
PIP 2.44 353 iPd 26 02.00 4.4X  
GQP 2.46 143 ePc 26 57.00 -0.8  
eS 26 27.00  
WB2 37.97 159 eP 32 32.70 -0.1  
0.7s 3.30nm 4.4mb  
S.D. = 1.4 on 5 of 9 obs.

& JAN 25, 1994 16h 35m 27.72s  
63.252 N 150.954 W  
DEPTH = 14.8km  
CENTRAL ALASKA (1)  
<AEIC>. ML 2.6 (AEIC), 2.8 (PMR).

TRF 0.36 56 iP 35 34.99 -0.4  
eS 35 41.31  
HUR 0.66 114 eP 35 40.61 0.2  
eS 35 50.55  
CUT 0.91 159 iP 35 44.88 0.3

RND 0.96 80 eP 35 45.71 0.1  
eS 35 59.10  
MCK 1.03 61 eP 35 46.93 0.2  
eS 36 01.38  
BWN 1.14 35 eP 35 49.05 0.5  
SKT 1.30 192 eP 35 50.80 -0.5  
eS 36 07.73  
NEA 1.57 31 eP 35 55.74 0.7  
DHY 1.63 95 eP 35 57.11 0.9  
PWA 1.68 162 P 35 56.70 0.0  
GHO 1.76 147 eP 35 57.78 -0.1  
WRH 1.76 45 eP 35 58.35 0.5  
MLY 1.79 3 eP 35 57.47 -0.8  
SUA 1.80 177 eP 35 59.09 0.6  
eS 36 24.07  
PLRM 1.87 152 eP 35 59.69 0.3  
PMR 1.87 152 eP 35 59.06 -0.3  
SML 1.89 139 eP 35 59.42 -0.4  
NCG 1.94 197 eP 35 59.89 -0.6  
CCB 1.97 43 eP 36 00.74 -0.2  
CGLM 2.01 195 eP 36 01.70 0.1  
CRP 2.07 196 eP 36 01.73 -0.8  
CP2 2.08 197 eP 36 02.31 -0.4  
BGL 2.11 199 eP 36 03.01 0.1  
CKN 2.12 196 eP 36 03.04 0.0  
PMS 2.12 161 eP 36 03.80 0.7  
CKT 2.14 196 eP 36 03.48 0.0  
SPU 2.14 194 eP 36 03.13 -0.3  
FBA 2.16 39 eP 36 05.00 1.4  
KNK 2.18 147 eP 36 04.71 0.7  
BKG 2.27 196 eP 36 04.94 -0.4  
TTA 2.32 264 eP 36 06.21 0.2  
GLM 2.34 40 eP 36 05.66 -0.6  
DDM 2.34 74 eP 36 06.88 0.6  
IL1 2.35 48 eP 36 08.35 2.0  
ILB 2.35 48 eP 36 08.38 2.0  
TOA 2.49 115 P 36 09.00 0.6  
PAX 2.51 94 eP 36 09.47 0.8  
NKA 2.52 183 P 36 14.10 5.4  
CFI 2.56 143 eP 36 10.57 1.3  
PWL 2.70 152 eP 36 12.46 1.1  
SLKM 2.78 172 eP 36 12.28 -0.2  
DFR 2.79 198 eP 36 12.88 0.1  
NCT 2.86 200 eP 36 12.87 -0.8  
MPA 2.87 164 eP 36 14.33 0.6  
REF 2.89 197 eP 36 14.75 0.5  
RS2 2.93 198 P 36 18.20 3.5  
KLU 2.94 125 eP 36 15.88 1.2  
IM3 3.00 338 eP 36 13.33 -2.1  
IMA 3.06 339 eP 36 14.15 -2.4  
SVW 3.07 228 (P) 36 17.96 1.4  
FID 3.28 138 eP 36 19.71 0.1  
GLB 3.79 115 eP 36 27.98 1.1  
BALM 4.61 115 eP 36 37.86 -0.7  
53 obs. associated

% JAN 25, 1994 16h 43m 02.09± 0.76s  
43.091 N ± 11.2km 0.618 W ± 5.0km  
DEPTH = 5.0km (geophysicist)

PYRENEES (378)  
ML 1.0 (STR).

ESCF 0.03 111 Pg 43 03.24 -0.2  
Sg 43 03.89  
ATE 0.06 265 Pg 43 03.53 -0.2  
Sg 43 04.83  
OGE 0.13 54 Pg 43 05.00 0.2  
ISSF 0.14 244 Pg 43 05.43 0.3  
Sg 43 08.89  
MADF 0.16 291 Pg 43 05.30 -0.1  
S.D. = 0.3 on 5 of 5 obs.

& JAN 25, 1994 17h 17m 29.61s  
34.316 N 118.505 W  
DEPTH = 1.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.6 (GS).

TPRS 0.24 197 P 17 34.20 -0.1  
CJV 0.37 54 P 17 36.63 -0.3  
JNH 0.47 74 P 17 38.74 -0.3  
PEM 0.55 106 P 17 40.31 -0.2  
LJB 0.61 63 P 17 40.93 -0.8  
FTC 0.64 330 P 17 41.90 -0.5  
DBM 0.67 10 P 17 42.30 -0.7  
SSK 0.68 99 iPc 17 42.70 -0.5  
RYS 0.77 295 P 17 45.20 0.2

ABL 0.80 312 eP 17 44.36 -1.2  
BMT 0.82 355 P 17 44.70 -1.3  
SNDC 0.84 11 P 17 46.97 0.5  
CIW 0.85 183 P 17 45.52 -1.0  
ARVC 0.85 342 P 17 45.64 -1.0  
CIS 0.91 175 P 17 46.62 -1.2  
MAR 0.97 315 P 17 48.04 -0.8  
LPC 1.02 281 P 17 48.88 -0.8  
WJPM 1.09 1 P 17 49.97 -1.0  
DTP 1.09 30 P 17 49.86 -1.1  
TMB 1.15 312 P 17 51.72 -0.2  
PEC 1.19 110 iPc 17 51.06 -1.6  
eS 18 07.65  
BTL 1.24 92 P 17 53.09 -0.6  
ISA 1.34 1 eP 17 53.46 -1.8  
CRGC 1.36 313 P 17 55.45 -0.2  
WORM 1.39 9 P 17 56.29 0.2  
RAY 1.43 101 P 17 56.18 -0.7  
POB 1.46 115 P 17 55.34 -1.7  
SCCM 1.51 295 P 17 57.59 -0.2  
WSHM 1.55 32 P 17 58.12 -0.3  
BCH 1.56 304 eP 17 57.69 -0.9  
NMC 1.60 18 P 18 00.61 1.5  
RMR 1.60 93 P 17 59.41 0.2  
TOW 1.61 22 P 18 01.35 2.2  
YEG 1.64 313 P 17 59.50 -0.1  
PLM 1.67 125 eP 17 58.01 -2.2  
eS 18 21.40  
GSC 1.71 54 eP 17 59.83 -0.9  
eS 18 23.33  
RCWM 1.78 23 P 18 03.40 1.7  
CPM 1.92 94 P 18 05.44 1.7  
LAQC 1.97 110 P 18 04.84 0.4  
PHAM 2.17 315 eP 18 07.70 0.4  
BRGC 2.25 120 P 18 09.92 1.4  
MTUM 3.03 359 ePn 18 19.61 -0.1  
TPNV 3.21 34 ePn 18 20.83 -1.3  
MMPM 3.31 353 (Pn) 18 24.26 0.3  
ePg 18 30.77  
eS 19 12.06  
GLA 3.32 111 (Pn) 18 24.39 0.7  
MRCM 3.35 360 ePg 18 31.70 7.4  
MEMM 3.36 354 (Pn) 18 24.56 0.3  
ePg 18 32.09  
BONR 3.64 3 (Pn) 18 27.37 -1.0  
ARUT 5.37 48 ePn 18 51.55 -1.4  
MSU 6.60 49 ePg 19 33.13 22.7  
DUG 7.42 36 ePg 19 49.32 27.6  
51 obs. associated

JAN 25, 1994 17h 18m 54.07± 0.90s  
45.655 N ± 11.0km 15.640 E ± 6.1km  
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)  
ML 2.9 (ZAG), MD 3.2 (LJU), 2.7 (TRI). Felt in northern Croatia.

ZAG 0.29 56 iPg 19 00.30 0.2  
iSg 19 05.50  
VBY 0.31 241 iPgd 19 00.50 0.0  
iSg 19 06.00  
PTJ 0.33 42 iPgd 19 00.80 -0.2  
iSg 19 06.30  
CEY 0.85 276 ePg 19 11.00 0.4  
0.6s 120.00nm  
eSg 19 22.70  
LJU 0.87 297 iPg 19 10.40 -0.3  
0.8s 220.00nm  
iSg 19 22.30  
RIY 0.94 251 iPg 19 11.50 -0.4  
iSg 19 25.80  
VOY 1.28 288 ePn 19 17.80 0.0  
e 19 18.20  
eSn 19 35.00  
TRI 1.32 273 ePg 19 18.70 0.3  
eSg 19 36.50  
KBA 2.13 313 iPgc 19 33.50 3.1X  
i 19 34.20  
i 19 37.20  
iSg 20 01.50  
HVAR 2.54 167 ePn 19 50.60 14.6X  
iSn 20 23.60  
ZST 2.73 21 eP 20 20.80 42.0X  
KHC 3.75 339 eP 20 26.00 32.8X  
e 20 38.00  
e 20 57.50  
S.D. = 0.4 on 8 of 12 obs.



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 ? JAN 25, 1994 17h 40m 25.86± 3.88s  
 36.489 N ±32.9km 2.832 W ±10.5km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 3.0 (MDD).

EGUA 0.68 300 iPgc 40 38.50 -0.9  
 eSg 40 47.50  
 ENIJ 0.70 46 iPgc 40 39.12 -0.5  
 eSg 40 48.60  
 ECOG 0.98 323 iPgc 40 43.67 -0.9  
 EHUE 1.34 8 ePn 40 50.92 0.4  
 eSn 41 06.70  
 EBAN 1.84 336 eP 40 58.80 1.1  
 eS 41 19.80  
 EVIA 2.16 7 iPnd 41 05.03 2.5X  
 eSn 41 30.00  
 EHOR 2.34 305 ePn 41 05.93 0.9  
 eSn 41 33.40  
 PAB 3.28 339 eP 41 29.00 10.6X  
 S.D. = 1.2 on 6 of 8 obs.

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 ? JAN 25, 1994 17h 54m 52.52± 2.44s  
 31.248 S ±35.5km 68.795 W ±39.9km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.24 181 iPd 55 07.50 0.1  
 (S) 55 17.50  
 RTLL 0.29 106 iPd 55 07.20 -0.1  
 (S) 55 18.00  
 RTCV 0.65 160 iPd 55 09.80 0.0  
 S 55 22.50  
 RTPR 2.18 65 eP 55 28.00 0.0  
 S 55 54.00  
 S.D. = 0.2 on 4 of 4 obs.

-----  
 ? JAN 25, 1994 17h 54m 55.66± 4.23s  
 36.476 N ±69.0km 71.403 E ±30.0km  
 DEPTH = 33.0km (normal)  
 4.1mb ( 4 obs.)  
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)

MAIO 9.61 272 iPc 57 15.00 0.2  
 eS 58 53.00  
 HFS 43.29 322 eP 02 55.20 -0.3  
 0.3s 2.20nm 4.3mb  
 NB2 44.60 323 P 03 06.20 0.0  
 0.4s 0.70nm 3.9mb  
 MBC 67.35 3 eP 05 50.00 1.0  
 0.6s 1.00nm 4.1mb  
 YKA 81.25 3 eP 07 08.60 -0.7  
 0.5s 1.20nm 4.2mb  
 S.D. = 0.9 on 5 of 5 obs.

-----  
 & JAN 25, 1994 18h 08m 42.53s  
 34.317 N 118.510 W  
 DEPTH = 1.3km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.7 (PAS), 2.9 (GS).

TWL 0.08 241 P 08 43.86 -0.3  
 LEOC 0.36 28 P 08 49.30 -0.4  
 LHU 0.36 13 P 08 49.43 -0.3  
 LRRC 0.45 62 P 08 51.22 -0.3  
 STTC 0.47 5 P 08 52.00 0.0  
 ECF 0.50 286 P 08 53.77 1.2  
 LOK 0.63 310 P 08 55.10 0.0  
 DBM 0.67 11 P 08 55.27 -0.7  
 SSK 0.68 99 eP 08 55.65 -0.6  
 eS 09 06.23  
 ABL 0.79 312 eP 08 57.58 -0.8  
 eS 09 09.09  
 BMTC 0.82 355 P 08 57.63 -1.3  
 SNDC 0.84 12 P 08 58.63 -0.7  
 CIW 0.85 182 P 08 58.34 -1.2  
 HYS 0.95 55 P 09 00.15 -1.2  
 CSP 0.95 91 P 09 00.58 -1.0  
 SME 1.08 117 P 09 02.17 -1.5  
 DTP 1.09 30 P 09 03.76 -0.2  
 PEC 1.20 110 eP 09 03.94 -1.7  
 eS 09 20.38  
 BTL 1.25 92 P 09 06.50 -0.2  
 BLKC 1.31 54 P 09 07.93 0.3  
 ISA 1.34 1 eP 09 07.04 -1.2  
 POB 1.46 115 P 09 08.44 -1.7

WSHM 1.56 32 P 09 11.72 0.3  
 BCH 1.56 304 eP 09 09.97 -1.6  
 PLM 1.68 125 eP 09 10.82 -2.4  
 GSC 1.71 55 eP 09 14.51 0.8  
 eS 09 39.17  
 RCWM 1.78 23 P 09 16.21 1.6  
 27 obs. associated

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 ? JAN 25, 1994 18h 30m 07.59± 0.44s  
 44.535 N ± 3.7km 7.296 E ± 4.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.2 (GEN).

PZZ 0.14 258 P 30 11.16 0.1  
 S 30 13.22  
 STV 0.29 176 P 30 13.68 0.0  
 S 30 17.75  
 BHB 0.31 356 P 30 14.36 0.4  
 S 30 18.76  
 ENR 0.32 164 P 30 14.27 0.0  
 S 30 18.76  
 ROB 0.48 120 P 30 17.43 0.1  
 S 30 24.07  
 RRL 0.53 317 P 30 18.30 -0.1  
 S 30 25.53  
 RSP 0.62 357 P 30 19.72 -0.4  
 S 30 27.54  
 FIN 0.73 116 P 30 21.73 -0.2  
 S 30 31.04  
 IMI 0.76 145 P 30 22.44 0.0  
 S 30 32.27  
 PCP 0.89 89 P 30 24.85 0.1  
 S 30 36.60  
 S.D. = 0.2 on 10 of 10 obs.

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 & JAN 25, 1994 18h 42m 43.77s  
 34.318 N 118.434 W  
 DEPTH = 6.4km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 3.3 (PAS), 3.5 (GS).

SCY 0.21 185 P 42 47.63 -0.5  
 LHU 0.35 3 P 42 50.27 -0.7  
 LRRC 0.39 58 P 42 51.29 -0.5  
 STTC 0.47 357 P 42 52.95 -0.3  
 LJB 0.56 60 P 42 53.91 -1.0  
 SSK 0.62 100 eP 42 55.36 -0.9  
 SBB 0.62 54 P 42 55.18 -1.1  
 FTC 0.67 326 P 42 56.31 -0.9  
 ELMC 0.69 72 P 42 56.52 -1.1  
 RYS 0.82 293 P 42 59.00 -1.2  
 BMTC 0.83 351 P 42 58.80 -1.4  
 SNDC 0.83 7 P 42 59.52 -0.7  
 ABL 0.84 310 ePc 42 58.70 -1.8  
 CIW 0.86 187 P 42 58.97 -1.6  
 ARVC 0.87 338 P 42 59.79 -1.0  
 HYS 0.90 52 P 43 00.14 -1.2  
 CIS 0.91 178 P 43 00.45 -1.1  
 TEJ 0.93 347 P 43 01.11 -0.8  
 MARC 1.01 313 P 43 02.13 -1.1  
 LPC 1.07 280 P 43 03.07 -1.3  
 WJPM 1.09 358 P 43 03.73 -0.9  
 HOD 1.11 62 P 43 03.91 -1.1  
 PEC 1.14 112 eP 43 03.97 -1.5  
 eS 43 19.50  
 BTL 1.19 93 P 43 05.82 -0.6  
 TMB 1.19 311 P 43 05.49 -0.8  
 ISA 1.34 359 eP 43 07.73 -1.2  
 WHFM 1.38 3 P 43 09.40 -0.1  
 WORM 1.38 6 P 43 09.75 0.1  
 CRGC 1.41 311 P 43 09.38 -0.6  
 WASM 1.42 356 P 43 10.69 0.4  
 WWPM 1.44 11 P 43 08.30 -2.2  
 XMS 1.49 36 P 43 10.44 -0.7  
 WSHM 1.52 30 P 43 10.46 -1.1  
 RMR 1.54 93 P 43 12.17 0.2  
 NMC 1.58 16 P 43 12.81 0.4  
 TOW 1.59 20 P 43 11.69 -0.8  
 WCHM 1.59 11 P 43 12.31 -0.4  
 BCH 1.61 303 eP 43 11.38 -1.5  
 PLM 1.62 126 eP 43 11.14 -2.0  
 GSC 1.66 53 eP 43 11.83 -1.8  
 VPEN 1.70 17 P 43 15.10 0.8  
 RCWM 1.75 21 P 43 14.07 -0.8  
 CSSM 1.79 18 P 43 17.54 2.1  
 WLHM 1.83 3 P 43 18.12 1.8

CPM 1.86 94 P 43 18.92 2.4  
 BRGC 2.20 121 P 43 24.01 2.6  
 PHAM 2.21 314 eP 43 20.28 -1.2  
 CBKC 2.31 127 P 43 24.93 2.1  
 MTUM 3.03 358 ePn 43 32.54 -0.8  
 ePg 43 38.33

TPNV 3.17 34 ePn 43 34.90 -0.4  
 GLA 3.26 112 ePn 43 41.00 4.5  
 MMPM 3.32 352 ePn 43 37.24 -0.3  
 ePg 43 43.05  
 MRCM 3.35 359 (Pn) 43 34.89 -3.0  
 ePg 43 44.62  
 MEMM 3.37 353 ePn 43 35.68 -2.2  
 ePg 43 43.23  
 BONR 3.63 2 (Pn) 43 41.19 -0.7  
 ePg 43 50.34  
 TNP 3.88 14 ePn 43 45.88 0.4  
 ePg 43 56.52  
 ARN 3.94 321 (P) 43 44.26 -1.8  
 CMB 4.03 338 ePn 43 47.20 -0.2  
 KVN 4.73 3 (Pn) 43 56.44 -1.1  
 ePg 44 10.00  
 ARUT 5.32 48 ePn 44 05.95 0.1  
 ePg 44 22.21  
 MSU 6.56 49 (Pn) 44 22.90 -0.4  
 ePg 44 44.87  
 DUG 7.38 36 ePg 45 02.50 27.8  
 SRU 7.95 51 (Pn) 44 42.13 -0.6  
 63 obs. associated

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 ? JAN 25, 1994 18h 55m 15.43± 2.96s  
 36.654 N ±26.9km 2.893 W ± 7.4km  
 DEPTH = 5.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 2.4 (MDD).

EGUA 0.57 289 iPgc 55 26.87 0.0  
 eSg 55 35.20  
 ENIJ 0.64 60 ePg 55 28.13 0.0  
 eSg 55 35.70  
 ECOG 0.82 319 ePg 55 31.84 -0.1  
 eSg 55 42.20  
 EHUE 1.18 12 ePn 55 38.09 0.1  
 eSn 55 53.70  
 EBAN 1.67 335 eP 55 48.50 3.1X  
 eS 56 08.60  
 EVIA 2.01 9 ePn 55 53.41 3.0X  
 eSn 56 19.10  
 S.D. = 0.1 on 4 of 6 obs.

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 & JAN 25, 1994 19h 03m 04.83s  
 37.549 N 118.851 W  
 DEPTH = 10.4km  
 CALIFORNIA-NEVADA BORDER REGION ( 40)  
 <GM-P>. MD 3.0 (GM). ML 3.4  
 (BRK).

CLKR 0.05 27 P 03 06.88 -0.4  
 MEMM 0.14 329 iPd 03 08.20 0.1  
 MMPM 0.15 293 iPc 03 08.30 -0.3  
 ORC 0.18 61 P 03 08.81 -0.2  
 MRCM 0.30 66 iPc 03 10.92 -0.3  
 MTUM 0.30 130 eP 03 10.86 -0.3  
 BHPR 0.38 131 P 03 12.53 -0.2  
 CWCR 0.44 97 P 03 13.46 -0.4  
 BONR 0.59 47 eP 03 15.42 -1.6  
 FRI 0.88 231 iP 03 21.24 -0.5  
 eS 03 32.39  
 CMB 1.31 292 ePc 03 28.54 -0.5  
 eS 03 45.76  
 TNP 1.40 67 eP 03 31.08 0.6  
 WLHM 1.46 163 P 03 31.75 0.3  
 MRFM 1.49 298 P 03 31.90 0.2  
 KVN 1.61 21 eP 03 34.74 1.2  
 BRMM 1.73 246 P 03 36.56 1.5  
 BAVM 1.73 274 P 03 39.93 4.8  
 BMSM 1.79 241 P 03 37.38 1.4  
 RCWM 1.87 148 P 03 39.32 2.2  
 ISA 1.91 171 eP 03 37.63 -0.1  
 PRI 2.02 227 iP 03 41.17 1.7  
 LTR 2.07 252 P 03 41.43 1.4  
 HJSM 2.09 250 P 03 42.45 2.2  
 BHRM 2.10 248 P 03 42.40 2.0  
 CSTL 2.10 273 P 03 42.88 2.4  
 ARN 2.14 265 eP 03 41.76 0.7  
 WJPM 2.15 172 P 03 44.00 2.7  
 TPNV 2.16 105 eP 03 41.50 0.0



BVYM 2.20 249 P 03 43.29 1.4  
 SAO 2.22 250 iP 03 43.26 1.1  
 CBO 2.30 260 P 03 44.75 1.4  
 JRRM 2.35 259 P 03 45.04 1.0  
 32 obs. associated

\* JAN 25, 1994 19h 03m 59.61± 0.98s  
 9.819 N ±12.3km 69.867 W ± 9.6km  
 DEPTH = 18.3 ± 6.7 km  
 3.9mb ( 1 obs.)

VENEZUELA (101)

Felt strongly at Quibor.  
 Felt at El Tocuyo, Guarico  
 and Sanare.

TOV 0.08 114 iPgD 04 03.00 -0.3  
 iSg 04 05.00  
 SDV 1.20 219 iPnc 04 22.20 0.6  
 iSn 04 39.00  
 CEOS 1.70 117 iP 04 28.30 -0.4  
 iS 04 49.50  
 MORO 1.85 55 iPd 04 31.70 0.8  
 GUAC 2.58 82 eP 04 42.30 0.8  
 OLLA 3.02 86 eP 04 47.40 -0.2  
 iS 05 29.60  
 LLAV 3.08 78 eP 04 48.90 0.5  
 GUAN 4.16 88 eP 05 02.80 -1.0  
 YKA 61.63 338 eP 14 17.40 -0.9  
 0.6s 0.60nm 3.9mb  
 S.D. = 0.9 on 9 of 9 obs.

? JAN 25, 1994 19h 07m 48.30± 1.23s  
 9.809 N ±15.6km 69.880 W ±15.1km  
 DEPTH = 10.0km (geophysicist)  
 VENEZUELA (101)

TOV 0.09 104 iPgD 07 51.20 0.3  
 iSg 07 53.10  
 SDV 1.18 219 iPnd 08 10.40 -0.1  
 iSn 08 26.80  
 CANV 1.60 40 eP 08 17.50 0.7  
 iS 08 45.40  
 MORO 1.87 55 eP 08 19.70 -1.0  
 eS 08 45.20  
 S.D. = 1.3 on 4 of 4 obs.

\* JAN 25, 1994 19h 21m 26.05± 0.68s  
 40.771 N ±12.0km 73.085 E ±12.0km  
 DEPTH = 33.0km (normal)  
 4.0mb ( 6 obs.)

KYRGYZSTAN (716)

MAIO 11.54 252 eP 24 12.00 0.4  
 eS 26 12.00  
 HYB 23.75 167 eP 26 36.50 0.3  
 GBA 27.33 171 P 27 09.00 -0.8  
 HFS 40.82 319 eP 29 05.00 -0.7  
 0.4s 0.90nm 3.8mb  
 GEC2 41.94 302 P 29 22.10 7.0X  
 0.7s 1.93nm 3.9mb  
 e 29 24.60  
 e 29 28.60  
 NB2 42.05 320 P 29 21.20 5.4X  
 0.6s 2.70nm 4.2mb  
 YKA 76.90 4 eP 33 16.50 0.4  
 0.9s 0.40nm 3.4mb  
 WRA 82.93 124 P 33 49.50 0.5  
 0.5s 0.70nm 4.0mb  
 WB2 82.94 124 eP 33 49.00 0.0  
 0.4s 2.60nm 4.7mb  
 S.D. = 0.7 on 7 of 9 obs.

\* JAN 25, 1994 20h 34m 04.99± 0.95s  
 49.172 N ± 7.8km 6.952 E ± 9.6km  
 DEPTH = 10.0km (geophysicist)  
 GERMANY (543)

ML 1.9 (UCC).

RUP 0.53 8 ePg 34 15.70 -0.1  
 WLF 0.72 314 iPc 34 18.47 -0.6  
 iS 34 28.11  
 ABH 0.81 28 ePg 34 20.90 0.2  
 FEL 1.48 151 ePg 34 31.60 -0.1  
 DOU 1.79 302 P 34 36.80 0.7  
 iS 34 57.10  
 S.D. = 0.7 on 5 of 5 obs.

JAN 25, 1994 21h 27m 35.71± 1.06s  
 5.054 N ± 8.4km 82.648 W ±13.6km  
 DEPTH = 10.0km (geophysicist)  
 4.2mb ( 1 obs.)

SOUTH OF PANAMA ( 83)  
 MD 4.5 (UPA).

DVD 3.37 3 eP 28 29.58 0.2  
 eS 29 11.04  
 BRU 3.73 1 iPd 28 35.65 0.6  
 eS 29 21.39  
 UPA 4.98 38 eP 28 52.61 0.3  
 eS 29 51.44  
 ECO 5.19 34 eP 28 56.17 0.9  
 eS 29 56.79  
 SDV 12.52 72 eP 30 36.80 -0.2  
 TOV 13.58 69 eP 30 49.80 -1.3  
 LPB 25.83 146 P 33 09.70 0.2  
 MOCB 31.01 148 P 33 57.30 0.9  
 YKA 61.97 344 eP 37 56.40 -1.6  
 0.8s 1.30nm 4.2mb  
 MBC 73.97 351 eP 39 16.50 3.8X  
 S.D. = 1.0 on 9 of 10 obs.

JAN 25, 1994 21h 31m 48.40± 0.17s  
 36.421 N ± 4.2km 71.111 E ± 2.7km  
 DEPTH = 223.1km ( 5 depth phases)  
 4.9mb ( 65 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

KSH 4.90 50 iPd 33 02.80 0.0  
 S 33 58.80  
 FRU 6.95 22 iPnd 33 28.00 -0.9  
 NDI 9.28 145 iPd 33 58.00 -0.9  
 0.5s 359.15nm 5.8mb  
 eS 35 32.00  
 MAIO 9.37 273 eP 34 01.00 0.7  
 0.8s 12.08nm 4.2mb  
 eS 35 46.00  
 ASH 10.30 282 eP 34 11.00 -1.0  
 0.5s 75.00nm 5.2mb  
 S 36 02.40  
 WMQ 14.67 55 iPd 35 05.00 -1.8  
 1.0s 62.00nm 5.0mb  
 E 10s 0.48um  
 S 37 48.00  
 BOM 17.52 175 iPd 35 40.00 -0.1  
 eS 39 03.00  
 POO 17.98 172 iPd 35 45.20 0.2  
 1.0s 115.00nm 5.3mb  
 iS 39 12.00  
 LSA 18.07 106 iPd 35 47.60 1.3  
 0.8s 27.00nm 4.8mb  
 TAB 19.79 282 eP 36 05.00 1.5  
 e 36 08.00 12kmX  
 HYB 20.04 159 ePd 36 06.60 0.6  
 1.0s 75.00nm 5.2mb  
 eS 39 40.50  
 GRO 20.66 297 iPd 36 14.00 2.2  
 1.0s 330.00nm 5.8mb  
 i 39 54.00  
 SHL 20.79 116 iP 36 13.50 0.0  
 1.0s 70.00nm 5.1mb  
 iS 39 52.50  
 MTA 21.06 293 eP 36 18.00 2.2  
 SVE 21.58 344 iPd 36 23.00 2.3  
 1.2s 50.00nm 4.9mb  
 Z 11s 0.50um 4.2MszX  
 e 36 55.00  
 eS 40 09.00  
 ARU 21.70 341 eP 36 24.00 2.1  
 1.1s 100.00nm 5.3mb  
 e 37 00.00  
 eS 40 10.00  
 e 40 19.00  
 eSS 40 57.00

PYA 22.65 298 iP 36 31.30 0.0  
 1.0s 100.00nm 5.3mb  
 GTA 22.80 74 iPc 36 34.40 1.5  
 1.0s 6.00nm 4.1mb  
 pP 37 14.50 215km  
 GBA 23.42 164 P 36 40.00 1.2  
 S 41 11.00  
 LZH 26.33 81 Pc 37 06.00 0.3  
 1.6s 44.00nm 4.9mb  
 PcP 40 25.00  
 KOD 26.70 166 eP 37 11.00 1.7

ZAK 26.98 49 iPc 37 11.50 0.4  
 1.3s 22.00nm 4.7mb  
 e 37 58.00 238kmX  
 CD2 27.64 92 eP 37 18.00 0.6  
 1.0s 48.00nm 5.1mb  
 BHL 29.00 276 P 37 30.00 0.5  
 KMI 29.29 104 eP 37 32.40 0.1  
 0.6s 10.00nm 4.7mb  
 ORN 30.03 319 eP 37 38.00 -0.2  
 i 38 28.00 252kmX  
 i 44 22.00  
 BTO 30.56 70 P 37 44.00 0.9  
 XAN 30.85 83 P 37 45.20 -0.5  
 0.7s 46.00nm 5.3mb  
 BDT 31.20 120 eP 37 48.00 -0.7  
 0.7s 46.00nm 5.3mb  
 HHC 31.71 69 P 37 53.20 0.1  
 1.2s 40.00nm 4.9mb  
 GYA 31.76 98 iPc 37 53.80 0.0  
 1.0s 29.00nm 4.9mb  
 PcP 40 38.00  
 TIY 32.81 75 Pc 38 03.00 0.3  
 0.8s 39.00nm 5.1mb  
 ELL 32.91 283 eP 38 12.50 8.9X  
 LOE 33.02 117 eP 38 04.00 -0.6  
 NST 33.06 121 iPc 38 06.00 1.1  
 CIT 33.66 49 eP 38 09.80 0.0  
 MNK 34.67 314 eP 38 18.00 -0.2  
 NNT 34.99 125 eP 38 23.60 2.3  
 PUL 35.03 325 ePd 38 22.00 0.9  
 1.3s 140.00nm 5.4mb  
 e 39 40.00 404kmX  
 BJI 35.30 70 eP 38 24.00 0.4  
 0.8s 19.00nm 4.7mb  
 BOD 35.45 39 iPc 38 22.60 -2.2  
 0.9s 18.00nm 4.7mb  
 WHN 36.31 86 Pc 38 33.00 0.8  
 UZH 37.37 305 ePc 38 42.20 1.2  
 1.0s 32.00nm 4.9mb  
 e 40 14.50 496kmX  
 e 40 59.00  
 VAY 37.72 293 iP 38 44.30 0.4  
 BZS 37.93 300 eP 38 41.00 -4.7X  
 GZH 38.70 98 iPd 38 53.60 1.3  
 SPC 38.73 306 eP 38 54.60 2.1  
 PSZ 38.99 304 eP 38 55.60 1.1  
 OHR 39.07 293 eP 38 55.00 -0.2  
 NJ2 39.40 82 Pd 38 59.00 1.1  
 1.0s 98.00nm 5.3mb  
 SRO 40.06 303 iP 39 04.50 1.4  
 OKC 40.09 307 P 39 04.60 1.2  
 SNY 40.54 66 iPc 39 06.90 -0.2  
 0.6s 38.00nm 5.1mb  
 ZST 40.85 304 eP 39 10.70 1.1  
 e 40 49.50 553kmX  
 UPP 41.19 322 iP 39 12.60 0.4  
 CN2 41.56 62 Pd 39 15.50 0.0  
 0.8s 9.40nm 4.3mb  
 SSE 41.60 82 Pc 39 17.00 1.1  
 1.0s 47.00nm 4.9mb  
 HVAR 41.90 297 iPd 39 27.90 9.6X  
 PRU 42.41 307 iPc 39 23.20 0.9  
 0.8s 26.40nm 4.8mb  
 BRG 42.74 308 iPc 39 26.00 1.0  
 1.0s 60.00nm 5.0mb  
 LJU 42.81 301 (P) 39 27.00 1.3  
 GEC2 43.05 305 P 39 27.90 0.2  
 0.9s 6.72nm 4.1mb  
 e 39 31.10 11kmX  
 KHC 43.10 306 Pc 39 29.00 1.0  
 1.1s 12.50nm 4.3mb  
 e 39 50.50 90kmX  
 e 40 41.50  
 e 41 03.50  
 e 41 12.00  
 e 42 09.00  
 HFS 43.18 322 eP 39 28.00 -0.5  
 0.6s 57.50nm 5.2mb  
 VOY 43.25 301 eP 39 29.20 -0.2  
 CLL 43.31 309 iPc 39 29.30 -0.3  
 1.3s 31.00nm 4.6mb  
 e 40 18.00 229km  
 TRI 43.39 301 ePd 39 30.70 0.4  
 KBA 43.49 303 iPc 39 31.50 0.2  
 0.7s 11.50nm 4.4mb  
 BHG 43.72 304 iPd 39 33.60 0.6  
 1.0s 42.00nm 4.8mb



25d 21h

YAK	43.99 0.8s	35 iPc 57.00nm e eS	39 34.10 40 20.00 45 47.00	-0.8 5.1mb 214km	LIC	0.7s 75.18 0.5s	9.00nm 267 Pc 14.50nm	4.6mb -1.3 4.9mb	ENR	0.97 258 P	Sg	07 08.99	
HOF	44.10 308 iPd	39 37.10	1.2		SVW	75.63 21 eP	43 10.47	0.5	STV	1.03 260 P	S	06 54.61	-0.6
MOX	44.23 308 iPc	39 37.80	0.8		PMR	77.01 18 ePc	43 17.00	-0.5	AUTN	1.04 246 Pg	Pg	06 56.81	0.3
NB2	1.4s 44.50 323 P	44.00nm 39 38.80	4.7mb -0.2		TOA	77.30 17 eP	43 19.90	0.6	SBF	1.10 239 Pg	Pg	06 58.02	0.6
GRF	0.6s 44.58 307 iPc	12.90nm 39 41.30	4.5mb 1.6		MRWA	77.73 141 eP	43 21.00	-0.9	BHB	1.13 292 P	Sg	06 57.39	-0.6
WTTA	0.9s 44.61 303 iPc	42.00nm 39 39.70	4.8mb -0.6		KLU	77.89 17 eP	43 22.51	0.0	TOUF	1.15 249 Pg	Pg	06 58.72	0.3
WATA	0.9s 44.64 303 iPc	31.90nm 39 39.50	4.7mb -0.9		BALM	79.12 16 eP	43 28.90	-0.3	AURF	1.15 242 Pg	Pg	06 59.02	0.6
FUR	1.5s 44.73 305 iPc	71.00nm 39 41.70	4.8mb 0.8		MUN	80.08 142 eP	43 33.50	-1.0	PZZ	1.17 274 P	Sg	07 15.18	
SQTA	0.7s 44.91 303 iPc	15.50nm 39 41.90	4.5mb -0.6		YKA	81.32 3 eP	43 40.70	0.2	REVf	1.20 236 Pg	Pg	06 58.18	-0.6
OGA	45.09 303 eP	39 43.50	-0.5		COOL	81.75 138 eP	43 42.70	-0.5	SARO	1.22 101 P	S	07 12.42	
OSS	45.72 303 iPc	39 48.70	-0.2		WRA	81.87 122 P	43 44.30	0.2	MVIF	1.26 246 Pg	Pg	07 00.82	1.6
VDL	46.21 303 eP	39 52.50	-0.4		WB2	81.88 122 eP	43 42.90	-1.2	RSP	1.28 305 P	Sg	07 17.65	
TNS	46.29 308 ePd	39 54.00	0.7		ASPA	84.13 125 eP	43 54.80	-0.7	ORX	1.32 336 P	S	06 59.25	-0.3
LLS	46.46 303 ePc	39 54.20	-0.7		RAB	85.29 99 iPd	44 13.00	11.5X	MVIF	1.26 246 Pg	Pg	07 01.12	0.8
SLE	46.64 305 ePc	39 55.60	-0.4		ULM	92.94 352 eP	44 39.50	2.5X	RSP	1.28 305 P	Sg	07 18.02	-0.8
TMA	46.69 302 iPc	39 55.70	-0.9		LPB	138.84 288 PKP	50 49.10	-1.5	ORX	1.32 336 P	S	07 14.78	
PCP	47.24 300 P	40 03.23	2.5X		MOCB	139.55 280 PKP	50 42.30	-9.5X	ORX	1.32 336 P	S	07 00.33	-0.9
MMK	47.32 302 ePc	40 01.50	-0.1		S.D. = 1.0 on 136 of 145 obs.				RRL	1.48 290 P	S	07 16.06	
ORX	47.39 302 P	40 00.21	-1.8		? JAN 25, 1994 21h 37m 35.71± 4.15s 31.320 S ±24.0km 68.641 W ±18.1km DEPTH = 101.1 ± 41.8 km				RRL	1.48 290 P	S	07 03.46	-0.4
FIN	47.55 300 P	40 01.95	-1.2		SAN JUAN PROVINCE, ARGENTINA (137)				CALN	1.49 244 Pg	Pg	07 04.21	0.2
DIX	47.69 302 ePc	40 04.30	-0.1		RTLl	0.15 94 iPd	37 50.50	0.1	LSD	1.52 313 P	Pg	07 03.69	-0.8
ROB	47.77 300 P	40 04.56	-0.2		RTCB	0.21 219 iPd	37 50.50	-0.2	TMA	1.68 3 eP	eP	07 06.80	0.1
IMI	47.84 299 P	40 05.07	-0.3		RTCV	0.55 171 iPd	37 52.30	0.1	MMK	1.71 342 iPc	iPc	07 07.40	0.2
WLF	47.84 307 iPc	40 05.95	0.8		RTRS	1.35 328 iPd	38 00.50	0.0	PGF	1.89 174 Pg	Pg	07 08.05	-1.6
RSP	48.00 301 P	40 03.83	-2.8X		RTPR	2.09 62 eP	38 10.00	0.0	VDL	2.12 14 ePc	ePc	07 14.40	1.3
LSD	48.00 302 P	40 07.03	0.2		S.D. = 0.2 on 5 of 5 obs.				OSS	2.46 23 ePd	ePd	07 19.20	1.2
EMS	48.02 303 iPc	40 06.60	-0.3		? JAN 25, 1994 21h 38m 15.50± 3.32s 6.271 S ±19.5km 129.484 E ±20.5km DEPTH = 95.7 ± 32.7 km				S.D. = 0.8 on 27 of 27 obs.				
BHB	48.06 301 P	40 05.25	-1.8		5.1mb ( 1 obs.)				& JAN 25, 1994 22h 23m 23.56s 34.369 N 118.721 W DEPTH = 9.9km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 2.9 (PAS), 2.8 (GS).				
ENR	48.10 300 P	40 06.67	-0.7		BANDA SEA (280)				ABL	0.63 320 eP	eP	23 35.09	-1.3
STV	48.16 300 P	40 06.94	-0.9		MTN	6.73 166 eP	39 54.00	0.5	SSK	0.87 100 eP	eS	23 44.53	
PZZ	48.25 300 P	40 06.62	-2.0		KNA	9.45 184 eP	40 29.70	-0.9	ISA	1.31 9 eP	eP	23 45.95	-1.8
RRL	48.37 301 P	40 09.18	-0.5		WB2	14.39 161 eP	41 32.30	-3.6X	PEC	1.38 110 eP	eP	23 46.86	-2.0
DOU	48.76 308 P	40 06.00	-6.3X		QIS	17.27 146 iPc	42 12.80	0.7	BCH	1.39 306 eP	eP	23 48.10	-0.9
SNF	48.88 309 P	40 14.20	1.0		MBL	17.51 211 eP	42 16.00	1.0	GSC	1.83 59 eP	eS	24 05.71	
KSI	49.51 137 ePc	40 18.50	0.2		ASPA	17.81 167 iPc	42 17.60	-1.2	PLM	1.85 123 eP	eS	23 54.90	-0.5
TKSJ	50.67 73 P	40 26.80	-0.2		0.4s 49.70nm 5.1mb				PLM	1.85 123 eP	eP	24 20.60	
WKYJ	51.77 72 P	40 35.00	-0.3		WARB	19.99 187 eP	42 42.00	-0.8	PHAM	2.01 317 (P)	(P)	23 53.12	-2.6
EKA	52.41 316 P	40 38.00	-1.6		PORT	24.42 183 eP	43 27.20	0.8	MTUM	2.98 2 (P)	(P)	23 56.20	-1.7
MAT	52.90 68 eP	40 42.00	-1.5		CHTO	39.08 310 eP	45 34.90	-0.2	TPNV	3.27 37 (Pn)	(Pn)	24 09.75	-2.2
YAMJ	53.67 66 eP	40 48.10	-1.1		MOCB	148.88 152 PKP	57 58.60	7.7X	MEMM	3.30 357 (Pn)	(Pn)	24 14.55	-1.5
OFUJ	54.54 64 eP	40 54.00	-1.4		LPB	151.44 143 PKP	58 06.00	11.2X	GLA	3.50 111 (P)	(P)	24 14.53	-1.7
DAG	54.86 344 iPd	40 56.80	-0.4		S.D. = 1.1 on 8 of 11 obs.				BONR	3.59 5 ePg	ePg	24 21.66	2.5
GUD	57.34 299 iPd	41 14.93	-0.5		JAN 25, 1994 22h 06m 36.33± 0.38s 44.429 N ± 3.4km 8.738 E ± 3.1km DEPTH = 5.0km (geophysicist)				13 obs. associated			24 28.99	8.2
BCAO	57.72 249 iPc	41 16.90	-1.3		NORTHERN ITALY (545) ML 3.1 (GEN).				% JAN 25, 1994 22h 46m 17.25± 0.96s 9.661 N ±10.2km 69.793 W ±11.3km DEPTH = 10.0km (geophysicist)				
PAB	57.90 298 iPd	41 18.40	-0.9		PCP	0.18 309 Pd	06 40.30	0.3	VENEZUELA (101)				
ECOG	58.23 295 eP	41 19.62	-2.0		FIN	0.44 240 P	06 45.16	0.0	TOV	0.13 0 iPgd	iPg	46 19.20	-1.2
ELUQ	58.63 296 iPc	41 23.15	-1.1		ROB	0.64 258 P	06 48.50	-0.6	SDV	1.13 227 iPnd	iPnd	46 21.50	
EPRU	59.57 295 iPd	41 29.20	-1.5		BORS	0.80 103 P	06 51.97	-0.4	CEOS	1.57 113 eP	eS	46 38.90	0.3
BIT	60.49 294 iP	41 37.00	0.1		IMI	0.80 230 P	06 52.06	-0.4	CANV	1.67 35 iPd	iS	46 59.00	
TSY	60.79 294 iP	41 39.00	0.1		SAOF	0.96 243 Pq	06 55.66	0.6	MORO	1.89 50 eP	eP	46 44.60	-0.7
MBC	67.41 3 ePc	42 22.20	1.1		JAN 25, 1994 22h 55m 08.55± 2.55s 36.638 N ±23.0km 2.919 W ± 7.9km DEPTH = 10.0km (geophysicist)				STRAIT OF GIBRALTAR (385) mbLg 2.6 (MDD).				
RES	68.78 356 eP	42 29.50	0.0		% JAN 25, 1994 22h 55m 08.55± 2.55s 36.638 N ±23.0km 2.919 W ± 7.9km DEPTH = 10.0km (geophysicist)				EGUA	0.55 291 ePg	ePg	55 20.13	0.3
IMA	72.17 18 iPc	42 49.20	-1.0		S.D. = 1.3 on 5 of 5 obs.				ENIJ	0.66 60 iPgc	iSg	55 28.90	
LKO	73.72 270 Pc	42 58.12	-1.7						55 21.54 -0.2				
TTA	74.07 20 eP	43 00.99	-0.2						55 30.00				
FBA	74.52 16 iPc	43 03.22	-0.4										
KIC	74.87 267 Pc	43 05.24	-1.2										
TIC	74.93 267 iPc	43 05.46	-1.3										
FRB	75.17 343 ePc	43 07.00	-0.2										



ECOG 0.82 321 ePg 55 23.86 -0.7  
 eSg 55 34.50  
 EHUE 1.20 12 ePg 55 31.42 0.4  
 eSg 55 46.10  
 EBAN 1.67 336 eP 55 38.20 0.2  
 eS 55 56.80  
 S.D. = 0.6 on 5 of 5 obs.

\* JAN 26, 1994 00h 11m 12.10± 1.91s  
 43.749 N ± 8.4km 8.583 E ± 12.0km  
 DEPTH = 5.0km (geophysicist)

CORSICA (380)

ML 2.4 (LDG), 2.3 (GEN).

IMI 0.53 288 P 11 22.85 0.2  
 S 11 28.27  
 FIN 0.53 330 P 11 22.70 -0.1  
 ROB 0.75 317 P 11 26.28 -0.8  
 S 11 34.03  
 SAOF 0.78 288 Pg 11 27.64 -0.1  
 PCP 0.79 358 P 11 28.84 0.8  
 S 11 37.01  
 SBF 0.84 278 Pg 11 29.10 0.3  
 Sg 11 38.90  
 AUTN 0.87 287 Pg 11 28.99 -0.5  
 Sg 11 39.28  
 REVF 0.88 270 Pg 11 30.84 1.3  
 Sg 11 41.93  
 AURF 0.92 279 Pg 11 30.86 0.7  
 ENR 0.97 300 P 11 31.05 0.1  
 TOUF 1.00 286 Pg 11 31.88 0.2  
 STV 1.03 299 P 11 31.70 -0.5  
 S 11 42.55  
 MVIF 1.05 279 Pg 11 33.20 0.8  
 PZZ 1.31 306 P 11 36.71 -0.1  
 S 11 51.33  
 FRF 1.42 263 Pg 11 37.80 -0.8  
 Sg 11 54.30  
 BHB 1.45 320 P 11 38.51 -0.5  
 LMR 1.56 255 Pg 11 39.50 -1.1  
 Sg 11 57.90  
 LPG 2.18 324 Pg 11 54.70 4.9X  
 LPL 2.21 324 Pg 11 55.50 5.4X  
 S.D. = 0.7 on 17 of 19 obs.

? JAN 26, 1994 01h 11m 36.58± 0.64s  
 1.213 N ± 13.9km 127.695 E ± 33.0km  
 DEPTH = 15.4km ( 2 depth phases)  
 4.6mb ( 10 obs.)

HALMAHERA, INDONESIA (267)

WB2 22.01 163 iPe 16 32.80 0.6  
 0.7s 12.10nm 4.4mb  
 ASPA 25.46 167 iPe 17 07.50 1.9  
 1.3s 20.90nm 4.6mb  
 STK 35.45 159 eP 18 32.10 -2.2  
 1.0s 8.20nm 4.6mb  
 XAN 37.08 334 P 18 48.00 -0.1  
 1.0s 8.90nm 4.5mb  
 pP 18 52.00 13km  
 TIY 38.95 341 eP 19 03.40 -0.3  
 BJ1 40.04 346 eP 19 12.00 -0.7  
 1.2s 13.00nm 4.5mb  
 LZH 41.15 330 Pc 19 22.80 0.8  
 1.8s 44.00nm 4.9mb  
 pP 19 28.00 18km  
 CN2 42.45 358 eP 19 34.80 2.4  
 MDJ 43.25 2 eP 19 38.90 0.0  
 1.0s 29.00nm 5.0mb  
 GTA 45.74 330 P 19 59.00 -0.2  
 1.5s 14.00nm 4.7mb  
 WMQ 55.33 326 P 21 11.50 -0.6  
 1.0s 8.40nm 4.7mb  
 pP 21 21.00 31kmX  
 MAIO 71.80 308 iPe 23 00.40 -0.4  
 YKA 101.37 25 Pdiff 25 26.90 -1.3  
 0.7s 0.30nm 4.0mb  
 S.D. = 1.3 on 13 of 13 obs.

% JAN 26, 1994 02h 02m 35.20± 0.72s  
 44.538 N ± 6.3km 7.292 E ± 7.1km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.0 (GEN).

PZZ 0.14 257 P 02 38.59 -0.1  
 S 02 40.47

BHB 0.30 356 P 02 41.61 0.1  
 S 02 45.96  
 ENR 0.32 164 P 02 41.98 0.0  
 S 02 46.42  
 ROB 0.48 120 P 02 45.00 0.0  
 FIN 0.73 116 P 02 49.48 -0.2  
 S 02 59.00  
 IMI 0.76 145 P 02 50.26 0.2  
 S.D. = 0.1 on 6 of 6 obs.

& JAN 26, 1994 02h 17m 29.36s

34.268 N 118.638 W

DEPTH = 24.5km

SOUTHERN CALIFORNIA ( 43)

<PAS-P>. ML 3.0 (PAS), 3.1 (GS).

FTC 0.64 341 P 17 41.04 -0.8  
 RYS 0.70 303 P 17 42.61 -0.4  
 ABL 0.75 321 eP 17 42.73 -1.2  
 SSK 0.78 94 eP 17 43.95 -0.5  
 eS 17 56.50  
 BMT 0.87 2 P 17 44.75 -1.0  
 ARVC 0.87 350 P 17 45.16 -0.6  
 LPC 0.92 285 P 17 46.18 -0.4  
 MARC 0.93 322 P 17 46.43 -0.3  
 WJPM 1.15 6 P 17 49.90 -0.1  
 PEC 1.28 107 eP 17 50.69 -1.1  
 eS 18 08.40  
 ISA 1.40 6 eP 17 52.78 -0.7  
 BCH 1.50 308 eP 17 55.18 0.1  
 WSHM 1.66 34 P 17 56.58 -0.7  
 TOW 1.70 25 P 17 57.88 0.1  
 PLM 1.74 121 eP 17 58.14 -0.4  
 GSC 1.83 55 eP 17 59.17 -0.6  
 MTUM 3.08 1 (Pn) 18 19.47 1.8  
 TPNV 3.31 35 ePn 18 20.22 -0.7  
 ePn 18 30.88  
 MEMM 3.40 356 (Pn) 18 23.70 1.7  
 BONR 3.69 4 ePn 18 37.61 11.1  
 TNP 3.98 16 ePg 18 42.88 12.5  
 MSU 6.72 49 (Pn) 19 10.27 1.1  
 22 obs. associated

JAN 26, 1994 02h 26m 00.70± 0.48s

5.314 N ± 6.9km 37.411 E ± 8.0km

DEPTH = 10.0km (geophysicist)

4.9mb ( 20 obs.) 4.7MsZ ( 2 obs.)

ETHIOPIA (558)

AAE 3.93 20 Pn 27 04.70 2.0  
 NAI 6.57 185 Pn 28 00.50 20.5X  
 Z 20s 0.64um  
 Pg 28 05.50  
 Sn 28 57.00  
 Sg 29 05.00  
 NAI 6.57 185 iPe 27 40.50 0.5  
 1.5s 277.78nm 6.0mb X  
 VAY 38.23 342 eP 33 23.00 0.4  
 OHR 38.62 340 eP 33 22.50 -3.5X  
 KIC 41.94 274 Pc 33 54.01 0.4  
 0.7s 12.00nm 4.7mb  
 TIC 42.21 274 Pc 33 56.39 0.5  
 0.8s 17.50nm 4.9mb  
 LIC 42.23 273 Pc 33 56.27 0.3  
 0.7s 9.00nm 4.6mb  
 LKO 42.82 278 P 34 00.82 -0.1  
 0.9s 11.50nm 4.6mb  
 PSZ 45.02 343 ePc 34 18.90 0.6  
 SRO 45.40 342 eP 34 21.70 0.5  
 SPC 46.08 344 eP 34 28.80 2.0  
 ZST 46.12 341 eP 34 26.80 -0.1  
 KBA 46.48 337 iPe 34 30.40 0.4  
 0.9s 12.50nm 5.0mb  
 i 34 35.30  
 BHG 47.19 338 iPe 34 35.20 -0.2  
 0.9s 33.00nm 5.4mb  
 OGA 47.24 335 iPe 34 35.50 -0.5  
 WTTA 47.31 336 iPe 34 36.60 0.1  
 1.0s 20.40nm 5.2mb  
 i 34 48.30  
 WATA 47.39 336 iPe 34 36.60 -0.5  
 SQTa 47.44 336 iPe 34 37.50 0.0  
 0.9s 13.30nm 5.0mb  
 GEC2 47.83 339 P 34 40.00 -0.5  
 0.9s 7.07nm 4.8mb  
 e 34 46.10  
 KHC 48.11 339 P 34 42.50 -0.2

1.0s 16.10nm 5.1mb  
 e 35 03.00  
 e 35 37.50  
 FUR 48.18 337 iPe 34 43.30 0.1  
 0.8s 38.00nm 5.5mb  
 KSH 48.63 40 eP 34 46.50 -0.4  
 1.0s 9.90nm 4.8mb  
 Z 20s 1.23um 4.9MsZ  
 N 12s 1.15um  
 E 12s 1.16um  
 GRF 49.44 338 eP 34 52.20 -0.6  
 0.9s 39.00nm 5.4mb  
 BRG 49.47 341 eP 34 52.60 -0.4  
 1.2s 15.00nm 4.9mb  
 MOX 50.08 339 eP 34 56.50 -1.2  
 1.2s 14.00nm 4.8mb  
 CLL 50.15 340 eP 34 58.00 -0.2  
 SHL 55.80 63 eP 35 39.50 -1.4  
 eS 42 34.00  
 WMQ 58.40 41 P 35 58.40 -0.5  
 1.2s 7.50nm 4.6mb  
 pP 36 04.00 18kmX  
 NB2 58.99 345 P 36 00.60 -2.1  
 0.7s 1.50nm 4.2mb  
 EKA 59.49 334 P 36 06.00 -0.2  
 1.1s 12.50nm 5.0mb  
 LZH 67.89 53 eP 37 02.00 0.0  
 2.0s 37.00nm 5.2mb  
 Z 20s 0.35um 4.6MsZ  
 HHC 74.56 49 P 37 43.20 1.3  
 1.0s 9.00nm 4.8mb  
 MBL 84.86 112 eP 39 14.20 36.7X  
 0.8s 25.00nm  
 CN2 84.94 47 eP 38 41.60 4.1X  
 ASPA 98.04 113 eP 39 58.10 18.9X  
 0.8s 7.10nm  
 S.D. = 0.9 on 31 of 36 obs.

? JAN 26, 1994 02h 46m 07.70± 5.82s

36.428 N ± 51.1km 2.853 W ± 9.8km

DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)

mbLg 2.8 (MDD).

EGUA 0.70 305 ePg 46 21.49 -0.1  
 eSg 46 30.00  
 ENIJ 0.75 44 ePg 46 22.06 -0.3  
 eSg 46 31.90  
 ECOG 1.02 326 ePg 46 26.58 -0.5  
 eSg 46 37.30  
 ELOJ 1.27 305 eP 46 31.50 0.2  
 eS 46 47.00  
 EHUE 1.40 8 ePn 46 34.02 0.7  
 EBAN 1.89 337 eP 46 42.31 2.1X  
 eS 47 03.70  
 EVIA 2.22 7 ePn 46 47.18 1.9X  
 eSn 47 12.90  
 S.D. = 0.7 on 5 of 7 obs.

? JAN 26, 1994 02h 48m 36.20± 6.95s

41.615 N ± 47.4km 23.038 E ± 11.1km

DEPTH = 5.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 2.0 (THE).

KNT 0.46 193 iPg 48 45.64 0.1  
 eSg 48 52.30  
 SRS 0.65 140 ePg 48 49.40 0.2  
 eSg 48 59.70  
 GRG 0.81 216 ePg 48 52.48 0.0  
 eSg 49 03.32  
 SOH 0.83 163 ePg 48 52.32 -0.4  
 S.D. = 0.5 on 4 of 4 obs.

? JAN 26, 1994 03h 04m 09.07± 8.87s

11.624 N ± 56.3km 86.027 W ± 46.9km

DEPTH = 10.0km (geophysicist)

NEAR COAST OF NICARAGUA ( 74)

MD 4.0 (GCG).

RIN3 1.04 142 iPd 04 29.12 0.3  
 JUD 1.53 162 eP 04 36.73 0.2  
 eS 04 59.86  
 JTS 1.69 141 eP 04 37.91 -0.9  
 eS 05 00.64  
 CAO 2.12 154 iPe 04 45.23 0.3  
 EPA 2.15 139 eP 04 45.58 0.1



26d 03h

HDC2 2.45 130 iPd 04 48.84 -1.0  
 IRZ2 2.66 128 iPd 04 52.23 -0.9  
 es 05 27.21  
 VTU 2.74 125 iPd 04 56.27 2.0  
 CDM 3.03 133 iPd 04 45.20 -13.1X  
 S.D. = 1.2 on 8 of 9 obs.

? JAN 26, 1994 03h 06m 54.93± 6.62s  
 28.297 S ±65.1km 66.895 W ±26.3km  
 DEPTH = 200.0km (geophysicist)  
 CATAMARCA PROVINCE, ARGENTINA (130)

RTPR 2.03 171 iPd 07 34.00 0.0  
 S 08 04.00  
 RTRS 2.92 230 iPd 07 44.00 0.0  
 RTLL 3.32 204 ePd 07 48.70 -0.2  
 S 08 32.00  
 CFA 3.50 199 ePd 07 51.20 0.1  
 S 08 35.70  
 RTCB 3.58 207 ePd 07 52.20 0.0  
 S 08 37.50

S.D. = 0.2 on 5 of 5 obs.

JAN 26, 1994 03h 21m 39.06± 0.34s  
 40.723 N ± 5.8km 27.335 E ± 3.2km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 4.0 (THE), 3.6 (ISK).

EDC 0.55 133 iPd 21 50.00 -0.2  
 iSg 21 55.00  
 ALN 0.99 281 iPd 21 57.64 -0.3  
 eSg 22 01.60  
 ISK 1.35 75 iPd 22 03.10 -0.8  
 RDO 1.43 288 iPd 22 05.00 0.0  
 eSb 22 23.30  
 DST 1.49 138 iPd 22 06.10 0.1  
 YLV 1.56 95 ePd 22 06.00 -0.9  
 GBZT 1.60 87 ePd 22 06.40 -1.1  
 iSg 22 30.40

IZI 1.67 103 iPd 22 07.30 -1.3  
 PRK 1.69 209 ePd 22 09.10 0.4  
 HRT 1.77 86 iPd 22 11.20 1.2  
 JMB 1.83 342 iPd 22 13.00 2.2  
 DIM 1.90 315 iPd 22 13.00 1.3  
 EYL 2.15 93 ePd 22 15.30 -0.3  
 RZN 2.20 297 ePd 22 16.00 -0.3  
 IZM 2.32 181 ePd 22 23.30 5.3X  
 OUR 2.59 262 ePd 22 20.44 -1.2  
 ALT 2.71 127 iPd 22 24.00 0.5  
 MMB 2.86 289 ePd 22 26.00 0.4  
 SRS 2.86 279 ePd 22 24.88 -0.7  
 PAIG 2.91 255 ePd 22 26.72 0.6  
 eSn 23 02.70

KHL 2.93 144 ePd 22 28.30 1.6  
 SOH 3.03 273 ePd 22 27.20 -0.7  
 CIN 3.17 169 ePd 22 31.00 1.1  
 KNT 3.39 279 ePd 22 32.52 -0.6  
 VAY 3.65 281 iPd 22 36.30 -0.5  
 i 22 46.00

GRG 3.75 275 ePd 22 37.70 -0.6  
 iSn 23 24.90  
 OHR 4.97 277 ePd 23 01.70 6.2X  
 BZS 6.43 321 ePd 23 08.50 -7.6X  
 S.D. = 1.0 on 25 of 28 obs.

& JAN 26, 1994 03h 43m 09.29s  
 34.185 N 118.547 W  
 DEPTH = 13.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SCY 0.11 136 P 43 12.17 -0.4  
 FIL 0.34 315 P 43 16.70 0.3  
 LEOC 0.49 24 P 43 18.14 -1.1  
 ECF 0.53 301 P 43 20.13 0.2  
 JNH 0.56 62 P 43 19.43 -1.0  
 LJB 0.71 55 P 43 21.88 -1.1  
 SSK 0.71 88 ePd 43 22.34 -0.7  
 CTW 0.72 180 P 43 22.95 -0.1  
 DBM 0.81 11 P 43 24.11 -0.6  
 TJR 0.86 349 P 43 24.71 -0.8  
 ABL 0.87 320 ePd 43 24.68 -1.1  
 BMTC 0.95 358 P 43 26.26 -0.9  
 ARVC 0.97 346 P 43 26.79 -0.6  
 CALC 1.04 28 P 43 28.13 -0.5

HYS 1.05 50 P 43 28.34 -0.5  
 PEC 1.19 104 ePd 43 30.09 -1.1  
 DTP 1.22 28 P 43 31.20 -0.6  
 WBSM 1.39 14 P 43 34.04 -0.4  
 CRGC 1.43 318 P 43 35.79 0.8  
 ISA 1.48 2 ePd 43 34.73 -0.8  
 WHFM 1.52 6 P 43 35.66 -0.5  
 SCCM 1.54 300 P 43 36.79 0.4  
 BCH 1.61 309 ePd 43 36.81 -0.7  
 PLM 1.63 120 ePd 43 37.97 0.1  
 YEG 1.71 317 P 43 38.36 -0.5  
 CLC 1.81 25 P 43 39.45 -0.8  
 GSC 1.82 52 ePd 43 39.80 -0.7  
 TPNV 3.33 34 ePd 44 01.46 -0.8  
 BONR 3.77 3 ePd 44 20.26 11.7

29 obs. associated

\* JAN 26, 1994 03h 48m 12.36± 0.88s  
 40.454 N ±10.9km 28.681 E ± 6.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.5 (ISK).

YLV 0.54 78 ePd 48 24.00 0.7  
 IZI 0.62 101 iPd 48 24.30 -0.5  
 iSg 48 32.30  
 EDC 0.63 261 iPd 48 25.00 -0.1  
 iSg 48 34.00  
 HRT 0.84 64 ePd 48 28.50 0.0  
 eSg 48 41.50  
 DST 0.85 183 ePd 48 29.00 0.2  
 eSg 48 41.00  
 EYL 1.13 84 iPd 48 33.30 -0.3  
 S.D. = 0.6 on 6 of 6 obs.

& JAN 26, 1994 03h 53m 59.16s  
 34.376 N 118.665 W  
 DEPTH = 12.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.9 (GS).

FIL 0.15 289 P 54 02.96 0.1  
 ECF 0.36 283 P 54 06.97 0.2  
 LHU 0.36 35 P 54 05.96 -0.8  
 LOK 0.49 315 P 54 08.56 -0.8  
 LRRC 0.55 74 P 54 09.27 -0.9  
 TJR 0.65 354 P 54 11.18 -0.8  
 ABL 0.66 316 ePd 54 11.12 -1.1  
 LJB 0.71 72 P 54 11.80 -1.2  
 BMTC 0.76 4 P 54 12.94 -0.9  
 SSK 0.82 101 ePd 54 14.28 -0.7  
 eS 54 25.25  
 MARC 0.84 319 P 54 14.56 -0.6  
 CALC 0.94 39 P 54 16.34 -0.5  
 HYS 1.03 61 P 54 17.79 -0.6  
 CSP 1.08 94 P 54 19.09 -0.3  
 CRGC 1.23 315 P 54 21.54 -0.3  
 WBSM 1.24 20 P 54 21.56 -0.5  
 ISA 1.29 7 ePd 54 22.03 -0.9  
 PEC 1.34 111 ePd 54 21.26 -2.3  
 eS 54 39.85

WASM 1.36 4 P 54 23.71 -0.4  
 BTL 1.38 94 P 54 24.02 -0.4  
 BCH 1.42 305 ePd 54 24.03 -0.8  
 WSHM 1.58 37 P 54 27.79 0.7  
 POB 1.60 115 P 54 26.21 -1.2  
 RMR 1.74 95 P 54 30.17 0.7  
 GSC 1.79 58 ePd 54 28.92 -1.2  
 PLM 1.81 124 ePd 54 29.54 -1.0  
 PHAM 2.04 316 ePd 54 33.16 -0.4  
 CPM 2.06 95 P 54 37.64 3.7  
 MTUM 2.97 2 (Pn) 54 48.45 1.3  
 eS 55 32.21  
 TPNV 3.23 37 ePd 54 49.00 -1.8  
 ePd 54 59.97  
 MMPM 3.24 355 (Pn) 54 52.64 1.6  
 MEMM 3.29 356 (Pn) 54 50.28 -1.2  
 BONR 3.58 5 (Pn) 54 54.64 -1.3

33 obs. associated

\* JAN 26, 1994 04h 03m 40.87± 4.88s  
 43.207 N ±21.5km 128.515 W ±33.1km  
 DEPTH = 10.0km (geophysicist)  
 2.7mb (1 obs.)  
 OFF COAST OF OREGON (30)

MPOR 3.82 68 P 04 39.76 -1.3

HSO 3.97 84 P 04 42.93 -0.2  
 TKO 4.23 57 Pd 04 46.24 -0.6  
 KMOR 4.34 54 P 04 47.91 -0.6  
 FBO 4.44 74 P 04 50.03 0.2  
 HBO 4.55 80 P 04 51.94 0.5  
 NLO 4.62 50 P 04 52.34 -0.1  
 SSOR 4.67 67 Pd 04 53.27 0.1  
 WPO 4.74 58 Pd 04 54.21 0.2  
 GT2 4.89 64 Pd 04 56.57 0.3  
 PGO 4.90 60 P 04 56.79 0.5  
 BMW 4.98 47 ePd 04 56.47 -1.0  
 RVW 5.06 52 Pd 04 58.60 0.1  
 TCO 5.10 77 P 04 59.42 0.1  
 BPO 5.14 71 P 05 00.00 0.1  
 VLMM 5.19 61 Pd 05 00.73 0.2  
 LVP 5.21 55 Pd 05 01.07 0.2  
 TDH 5.26 64 P 05 01.71 0.1  
 MTMW 5.31 56 P 05 02.16 0.0  
 FL2 5.31 54 P 05 02.52 0.2  
 VBEM 5.32 67 Pd 05 02.42 0.0  
 OSR 5.36 35 P 05 03.25 0.3  
 ERK 5.38 53 Pd 05 03.20 0.0  
 SHW 5.38 54 ePd 05 03.29 0.1  
 VLL 5.40 63 P 05 03.83 0.4  
 HSR 5.40 55 P 05 04.17 0.6  
 JLK 5.40 55 Pd 05 03.57 0.0  
 REMW 5.41 54 P 05 04.25 0.4  
 YEL 5.42 54 P 05 03.95 0.1  
 ESD 5.43 54 P 05 04.26 0.2  
 CDFW 5.45 56 P 05 04.29 0.1  
 OOW 5.46 32 P 05 04.75 0.5  
 SOSW 5.46 54 P 05 04.69 0.3  
 VFP 5.48 65 P 05 05.27 0.5  
 GULW 5.64 59 P 05 07.33 0.4  
 ASR 5.75 57 P 05 08.48 0.1  
 GHW 5.85 47 P 05 09.76 0.1  
 VIPM 5.86 74 Pd 05 09.42 -0.5  
 HDW 5.87 39 P 05 10.15 0.1  
 GMW 5.93 41 ePd 05 09.94 -0.8  
 LON 5.93 51 ePd 05 10.56 -0.3  
 GLK 5.94 53 P 05 11.27 0.1  
 REMR 5.95 50 Pd 05 11.48 0.2  
 VGB 6.01 65 ePd 05 11.10 -0.9  
 WPW 6.05 52 P 05 12.59 -0.1  
 FMW 6.11 50 Pd 05 13.42 -0.1  
 GL2 6.14 61 P 05 13.71 -0.2  
 GSM 6.20 48 P 05 14.72 -0.1  
 RMW 6.36 46 ePd 05 16.59 -0.4  
 JCW 6.79 40 P 05 22.96 0.0  
 RFW 7.17 41 P 05 27.96 -0.3  
 YKA 20.98 18 P 08 34.70 8.5X  
 0.6s 0.20nm 2.7mb  
 S.D. = 0.4 on 51 of 52 obs.

& JAN 26, 1994 04h 04m 03.94s  
 34.255 N 118.469 W  
 DEPTH = 12.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.1 (GS).

TWL 0.11 283 P 04 06.65 -0.4  
 FIL 0.35 299 P 04 11.57 0.4  
 CJV 0.38 44 P 04 11.14 -0.8  
 JNH 0.47 66 P 04 12.65 -0.9  
 PEM 0.50 100 P 04 13.47 -0.8  
 ECF 0.55 292 P 04 15.02 -0.1  
 SSK 0.64 94 ePd 04 15.86 -0.9  
 eS 04 25.01  
 TPO 0.65 18 P 04 15.97 -0.8  
 LOK 0.70 313 P 04 16.65 -0.9  
 FTC 0.71 331 P 04 16.73 -1.0  
 ELMC 0.74 68 P 04 18.56 0.3  
 RYS 0.83 298 P 04 19.02 -0.8  
 ABL 0.86 314 ePd 04 19.06 -1.4  
 BMTC 0.88 353 P 04 19.90 -0.9  
 SNDC 0.90 9 P 04 20.73 -0.3  
 ARVC 0.92 341 P 04 21.01 -0.3  
 CALC 0.95 27 P 04 21.23 -0.6  
 MARC 1.03 316 P 04 22.62 -0.7  
 LFC 1.06 284 P 04 22.93 -0.8  
 DTP 1.13 27 P 04 24.37 -0.6  
 PEC 1.14 108 ePd 04 24.05 -1.1  
 eS 04 39.33  
 WJPM 1.15 360 P 04 25.07 -0.3  
 HOD 1.17 60 P 04 25.00 -0.6  
 TMB 1.21 314 P 04 25.98 -0.3  
 PKM 1.28 300 P 04 26.77 -0.9



WBSM 1.31 12 P 04 28.12 0.1  
 BLKC 1.32 51 P 04 29.22 1.0  
 ISA 1.41 360 eP 04 28.55 -0.8  
 CRGC 1.43 314 P 04 28.64 -1.1  
 WHFM 1.44 4 P 04 29.46 -0.4  
 WSCM 1.52 18 P 04 32.88 1.9  
 SCCM 1.56 296 P 04 31.46 -0.1  
 WSHM 1.59 30 P 04 32.24 0.3  
 PLM 1.61 123 eP 04 31.14 -1.3  
 BCH 1.62 305 eP 04 31.07 -1.4  
 NMC 1.65 16 P 04 35.24 2.4  
 TOW 1.65 20 P 04 34.30 1.4  
 GSC 1.72 52 ePn 04 33.02 -0.9  
 RCWM 1.82 21 P 04 37.29 2.0  
 MTUM 3.09 359 ePg 05 00.49 6.9  
 TPNV 3.24 33 ePn 04 54.60 -1.1  
 ePg 05 03.81  
 MMPM 3.38 352 (P) 04 58.46 0.6  
 MEMM 3.43 354 ePg 05 05.79 7.7  
 eS 05 52.81  
 BONR 3.69 2 ePn 05 02.17 -0.1  
 TNP 3.95 14 ePg 05 16.85 11.1  
 ARUT 5.39 48 ePn 05 26.79 0.6  
 ePg 05 42.52  
 MSU 6.62 48 ePg 06 05.75 22.1  
 47 obs. associated

% JAN 26, 1994 04h 07m 31.52± 0.66s  
 44.366 N ± 6.2km 7.354 E ± 7.6km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 1.6 (GEN).

STV 0.12 190 P 07 34.49 -0.2  
 S 07 36.14  
 ENR 0.15 161 P 07 35.22 0.2  
 S 07 37.37  
 PZZ 0.23 308 P 07 36.82 0.3  
 S 07 40.03  
 ROB 0.38 101 P 07 39.61 0.3  
 BHB 0.48 352 P 07 40.94 -0.3  
 IMI 0.60 140 P 07 43.32 -0.3  
 S.D. = 0.4 on 6 of 6 obs.

% JAN 26, 1994 04h 29m 45.34± 0.74s  
 44.337 N ± 6.7km 7.302 E ± 9.0km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
 ML 1.9 (GEN).

STV 0.09 170 P 29 48.12 0.1  
 S 29 49.77  
 ENR 0.14 142 P 29 48.81 0.1  
 S 29 51.01  
 PZZ 0.22 320 P 29 50.46 0.3  
 S 29 53.62  
 ROB 0.41 96 P 29 54.12 0.4  
 S 30 00.07  
 BHB 0.51 357 P 29 55.26 -0.3  
 IMI 0.60 135 P 29 57.05 -0.5  
 S 30 05.10  
 S.D. = 0.4 on 6 of 6 obs.

JAN 26, 1994 05h 16m 17.63± 0.93s  
 35.646 N ± 8.2km 23.652 E ± 7.0km  
 DEPTH = 35.6 ± 9.1 km  
 4.1mb ( 4 obs.)

CRETE (370)  
 MD 3.9 (ATH).

VAM 0.51 118 iPg 16 27.80 -0.5  
 VLI 1.22 332 iPbd 16 37.70 -0.7  
 NPS 1.65 103 ePn 16 46.10 1.4  
 eSn 17 11.10  
 ATH 2.32 1 ePb 16 57.50 3.3X  
 VLS 3.52 317 ePn 17 12.00 0.7  
 AGG 3.53 343 ePn 17 11.44 0.0  
 eSn 17 53.50  
 IZM 3.99 45 ePn 17 17.20 -0.7  
 PRK 4.15 29 ePn 17 21.50 1.2  
 PAIG 4.27 0 ePn 17 21.28 -0.7  
 eSn 18 11.60  
 OUR 4.69 3 ePn 17 27.60 -0.2  
 IGT 4.69 327 ePn 17 28.20 0.3  
 eSn 18 22.28  
 KSL 4.84 83 ePn 17 31.00 1.0  
 KZN 4.88 343 ePn 17 32.50 1.8

SOH 5.17 357 ePn 17 34.60 -0.1  
 ELL 5.18 76 eP 17 45.50 10.6X  
 GRG 5.39 350 ePn 17 37.40 -0.4  
 KHL 5.41 59 ePn 17 38.40 0.3  
 FNA 5.43 341 ePn 17 37.90 -0.5  
 SRS 5.46 360 ePn 17 38.24 -0.5  
 KNT 5.54 354 ePn 17 39.68 -0.1  
 VAY 5.73 352 ePn 17 42.50 0.0  
 BCK 5.87 70 eP 17 44.00 -0.6  
 OHR 5.90 339 iPn 17 45.10 0.1  
 HSHJ 11.69 119 P 19 03.00 -2.1  
 DOU 20.01 322 P 20 50.00 0.1  
 HFS 25.34 348 eP 21 41.70 -0.8  
 0.4s 3.30nm 4.3mb  
 NB2 26.63 346 P 21 53.20 -1.3  
 0.4s 1.50nm 4.0mb  
 EKA 26.94 325 P 21 58.00 0.7  
 1.7s 73.20nm 5.0mb  
 GBA 52.88 100 P 25 34.00 1.6  
 YKA 76.60 341 P 28 05.90 0.1  
 0.6s 0.60nm 3.8mb  
 ULM 79.21 325 eP 28 24.00 3.6X  
 S.D. = 0.9 on 28 of 31 obs.

& JAN 26, 1994 05h 38m 28.36s  
 34.278 N 118.501 W  
 DEPTH = 9.1km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.6 (PAS), 2.7 (GS).

TWL 0.08 270 P 38 30.30 -0.4  
 PYR 0.35 326 P 38 35.34 -0.3  
 LHU 0.40 11 P 38 35.70 -0.8  
 QAL 0.50 340 P 38 37.64 -0.9  
 FOXC 0.51 26 P 38 37.86 -0.7  
 LJB 0.62 60 P 38 39.45 -1.5  
 LOK 0.66 313 P 38 40.32 -1.4  
 SSK 0.67 96 iPc 38 40.80 -1.1  
 DBM 0.71 9 P 38 41.43 -1.1  
 CIW 0.81 183 P 38 43.04 -1.1  
 ABL 0.82 314 eP 38 43.06 -1.5  
 BMTc 0.86 355 P 38 43.75 -1.3  
 CIS 0.87 175 P 38 44.25 -1.0  
 CSP 0.95 88 P 38 45.70 -0.9  
 SME 1.05 115 P 38 47.09 -1.2  
 DTP 1.13 28 P 38 48.84 -0.7  
 PEC 1.18 109 eP 38 48.81 -1.6  
 eS 39 05.32  
 BTL 1.24 91 P 38 51.16 -0.5  
 ISA 1.38 1 eP 38 52.58 -1.3  
 POB 1.44 114 P 38 52.86 -1.8  
 SRTC 1.54 23 P 38 57.62 1.6  
 XMS 1.56 37 P 38 58.38 2.1  
 WSHM 1.59 31 P 38 57.20 0.5  
 BCH 1.59 305 eP 38 56.03 -0.8  
 PLM 1.65 124 eP 38 56.09 -1.6  
 GSC 1.73 53 eP 38 57.80 -1.0  
 TPC 2.04 94 P 39 05.80 2.5  
 TNP 3.94 15 ePg 39 42.86 12.4  
 28 obs. associated

JAN 26, 1994 05h 54m 18.11± 0.60s  
 36.503 N ± 5.5km 5.407 W ± 6.1km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBALTAR (385)  
 mbLg 2.8 (MDD).

EJIF 0.07 224 iPg 54 19.13 -1.4  
 eSg 54 21.50  
 ALJ 0.23 317 iP 54 22.00 -1.2  
 MOMI 0.31 235 iP 54 25.00 0.4  
 LIJA 0.39 359 iP 54 28.00 1.8  
 PLAT 0.48 217 iP 54 29.00 1.2  
 EPRU 0.48 17 iPg 54 27.67 -0.3  
 eSg 54 37.00  
 EMAL 0.83 72 ePg 54 30.08 -4.0X  
 eSg 54 40.90  
 ELOJ 1.19 57 eP 54 40.20 -0.2  
 eS 54 57.50  
 EHOR 1.32 5 eP 54 42.88 0.3  
 eS 55 01.90  
 ELUQ 1.40 40 ePn 54 43.00 -0.6  
 eSn 55 03.70  
 EGUA 1.52 77 ePn 54 45.50 0.2  
 eSn 55 03.20  
 EVAL 1.52 316 ePn 54 45.15 -0.2  
 eSn 55 06.20

EBAN 2.10 37 ePn 54 53.72 -0.1  
 eSn 55 21.20  
 S.D. = 1.0 on 12 of 13 obs.

? JAN 26, 1994 06h 12m 09.17± 1.31s  
 31.330 S ± 31.8km 68.844 W ± 39.6km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.16 166 ePc 12 23.80 0.0  
 S 12 34.20  
 RTLL 0.32 90 ePc 12 24.00 -0.1  
 S 12 35.00  
 CFA 0.59 118 ePd 12 26.00 0.1  
 S 12 39.30  
 RTRS 1.27 335 iPc 12 33.00 0.0  
 S 12 51.50

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

? JAN 26, 1994 06h 17m 15.62± 3.71s  
 36.532 N ± 36.7km 28.774 E ± 15.6km  
 DEPTH = 33.0km (normal)

DODECANESE ISLANDS (369)  
 ML 3.3 (ISK).

ELL 0.94 76 ePn 17 32.50 -0.1  
 eSg 17 48.50  
 CIN 1.20 333 eP 17 37.00 0.9  
 BCK 1.72 57 ePn 17 44.00 0.2  
 KHL 1.88 18 iPn 17 45.90 -0.3  
 IZM 2.22 328 ePn 17 50.10 -0.7  
 S.D. = 0.8 on 5 of 5 obs.

? JAN 26, 1994 06h 39m 47.58± 1.80s  
 31.504 S ± 22.8km 67.628 W ± 13.7km  
 DEPTH = 10.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.74 283 eP 40 02.00 -0.1  
 RTCV 0.85 245 iP 40 04.00 -0.1  
 S 40 17.00  
 RTCB 1.00 271 eP 40 06.80 0.2  
 S 40 20.00  
 RTPR 1.53 39 eP 40 15.00 0.0  
 S.D. = 0.2 on 4 of 4 obs.

% JAN 26, 1994 08h 31m 18.62± 0.65s  
 40.521 N ± 4.7km 22.841 E ± 5.6km  
 DEPTH = 5.0km (geophysicist)

GREECE (364)  
 ML 1.8 (THE).

THE 0.15 40 ePg 31 22.30 0.7  
 eSg 31 23.44  
 SOH 0.49 52 ePg 31 27.76 -0.7  
 LIT 0.50 213 ePg 31 28.76 0.2  
 eSg 31 36.30  
 GRG 0.55 323 ePg 31 29.52 -0.1  
 eSg 31 38.70  
 KNT 0.64 4 iPg 31 31.32 -0.1  
 eSg 31 41.30  
 SRS 0.82 43 ePg 31 35.20 0.1  
 eSg 31 46.70  
 PAIG 0.87 132 ePg 31 35.28 -0.6  
 OUR 0.89 102 ePg 31 36.76 0.6  
 S.D. = 0.6 on 8 of 8 obs.

& JAN 26, 1994 08h 46m 15.53s  
 34.181 N 118.624 W  
 DEPTH = 4.0km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.5 (PAS), 2.7 (GS).

SADC 0.11 199 P 46 17.85 0.1  
 PYR 0.40 346 P 46 23.82 0.3  
 PVRC 0.48 154 P 46 24.68 -0.4  
 LHU 0.52 20 P 46 25.31 -0.6  
 SWM 0.54 4 P 46 25.79 -0.5  
 STTC 0.62 12 P 46 27.75 -0.2  
 PEM 0.63 91 P 46 26.94 -1.1  
 CIW 0.72 175 P 46 28.86 -1.0  
 SSK 0.77 88 eP 46 29.55 -1.4  
 CIS 0.79 167 P 46 30.68 -0.7  
 DBM 0.83 15 P 46 31.04 -1.0  
 ABL 0.83 324 eP 46 30.59 -1.5  
 GAV 0.94 99 P 46 32.68 -1.3  
 BMTc 0.95 1 P 46 33.72 -0.6



26d 08h

CSP 1.06 83 P 46 34.77 -1.3  
 HYS 1.11 52 P 46 35.64 -1.3  
 SNS 1.17 130 P 46 36.84 -1.0  
 PEC 1.25 103 eP 46 37.44 -1.9  
 eS 46 55.36  
 CFT 1.26 96 P 46 38.70 -0.9  
 POB 1.50 109 P 46 41.62 -1.7  
 BCH 1.57 310 eP 46 42.86 -1.4  
 RMR 1.70 88 P 46 46.50 0.2  
 XMS 1.70 38 P 46 47.84 1.7  
 GSC 1.87 53 eP 46 48.29 -0.4  
 TPC 2.14 91 P 46 54.12 1.6

25 obs. associated

% JAN 26, 1994 09h 08m 12.07± 1.12s  
 40.468 N ± 9.6km 21.818 E ± 8.6km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 1.5 (THE).

FNA 0.46 313 ePg 08 21.48 0.0  
 eSg 08 28.00  
 LIT 0.63 125 ePg 08 24.64 -0.1  
 eSg 08 34.10  
 GRG 0.66 42 ePg 08 25.08 -0.1  
 KNT 1.07 49 ePg 08 32.40 0.1  
 PAIG 1.52 110 ePb 08 39.52 0.2  
 S.D. = 0.2 on 5 of 5 obs.

\* JAN 26, 1994 09h 45m 58.29± 0.96s  
 38.693 N ± 7.9km 27.472 E ± 14.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.34 209 iPg 46 05.70 0.4  
 eSg 46 12.40  
 CIN 1.19 156 eP 46 20.00 -0.5  
 DST 1.28 44 ePn 46 22.30 0.2  
 EDC 1.68 10 ePn 46 27.00 -0.8  
 IZI 2.26 43 ePn 46 37.00 0.7  
 S.D. = 0.9 on 5 of 5 obs.

? JAN 26, 1994 09h 51m 14.40± 3.87s  
 45.900 N ± 18.2km 16.000 E ± 24.6km  
 DEPTH = 5.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.6 (ZAG). Felt in the Zagreb  
 area, Croatia.

PTJ 0.03 270 iPg 51 15.50 -0.2  
 iSg 51 18.00  
 ZAG 0.08 188 iPg 51 16.40 0.0  
 iSg 51 18.80  
 VBY 0.65 233 ePg 51 27.80 0.3  
 eSg 51 38.20  
 VOY 1.48 276 ePn 51 42.50 0.8  
 eSn 52 03.50  
 S.D. = 0.7 on 4 of 4 obs.

JAN 26, 1994 10h 03m 51.29± 0.11s  
 41.728 N ± 2.4km 143.669 E ± 2.2km  
 DEPTH = 31.6km (37 depth phases)  
 5.5mb (118 obs.) 5.1MsZ (41 obs.)  
 HOKKAIDO, JAPAN REGION (224)

Mw 5.5 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 29S, 51C  
 Centroid Location:  
 Origin Time 10:03:53.9 0.3  
 Lat 41.66N 0.04 Lon 144.06E 0.05  
 Dep 17.7 2.3 Half-duration 1.4  
 Moment Tensor; Scale 10\*\*17 Nm  
 Mrr= 0.89 0.04 Mtt=-0.10 0.05  
 Mff=-0.79 0.05 Mrt= 0.71 0.13  
 Mrf= 1.42 0.21 Mtf=-0.57 0.04  
 Principal Axes:  
 T Val= 1.77 Plg=61 Azm=294  
 N 0.22 2 27  
 P -1.99 29 118  
 Best Double Couple: Mo=1.9\*10\*\*17  
 NP1: Strike=213 Dip=16 Slip= 96  
 NP2: 27 74 88

HOOJ 0.71 337 iPd 04 07.30 2.3  
 KUSJ 1.57 29 iPd 04 17.30 0.0

MRRJ 2.05 291 iPd 04 27.00 2.7X  
 eS 04 54.90  
 SAP 2.18 308 iPd 04 29.00 2.9X  
 eS 04 59.00  
 ASAJ 2.50 343 iPd 04 32.10 1.4  
 AOMJ 2.75 246 P 04 36.60 2.5  
 OFUJ 3.05 211 P 04 39.00 0.5  
 eS 05 13.90  
 YAMJ 4.52 219 P 04 59.50 0.2  
 KUR 4.65 40 (Pn) 05 00.50 -0.5

Z 18s 23.60um  
 N 18s 14.70um  
 E 18s 23.20um  
 eS 05 51.00  
 YSS 5.33 353 iPdnd 05 08.80 -1.9  
 Z 15s 24.00um  
 N 15s 17.80um  
 E 14s 13.60um

NIJ 5.75 220 iPd 05 17.20 0.5  
 S 06 24.40  
 KAKJ 6.15 207 P 05 19.90 -2.4  
 S 06 27.70  
 MAT 6.69 221 iPd 05 30.10 0.1  
 eS 06 45.00  
 CHJJ 6.74 214 iPd 05 28.90 -1.7  
 S 06 45.30  
 MTMJ 6.86 223 iPd 05 33.10 0.7  
 IIDJ 7.69 218 P 05 44.10 0.1  
 S 07 11.50  
 TSRJ 8.62 227 eP 05 57.60 0.8  
 eS 07 36.60

VLA 8.82 283 iPnc 06 00.00 0.4  
 Z 14s 4.00um  
 N 17s 7.10um  
 E 15s 13.50um  
 WKYJ 9.84 223 P 06 12.80 -0.8  
 YONJ 10.32 234 P 06 21.00 0.7  
 MDJ 10.68 290 eP 06 25.90 0.8  
 1.0s 220.00nm 6.3mb  
 Z 19s 21.00um 4.2MsZ  
 N 10s 1.39um  
 E 16s 10.40um

TKSJ 10.84 228 P 06 26.90 -0.4  
 SKR 12.40 40 ePn 06 45.00 -3.3X  
 Z 14s 4.40um  
 N 14s 4.90um  
 E 16s 6.50um  
 SHNJ 12.48 237 P 06 50.40 1.0  
 CN2 13.55 285 Pd 07 03.00 -0.6  
 1.0s 51.00nm 5.4mb  
 Z 12s 1.33um 4.6MsZ  
 N 16s 6.16um  
 E 16s 13.40um

eS 07 15.00  
 KUMJ 13.74 232 eP 07 06.20 0.1  
 KAGJ 14.69 228 eP 07 17.30 -1.3  
 SNY 14.99 277 Pc 07 22.00 -0.5  
 1.2s 180.00nm 5.3mb  
 Z 16s 9.50um 4.2MsZ  
 N 13s 3.01um  
 E 16s 6.98um

pP 07 27.00  
 PP 07 33.00  
 S 10 00.00  
 SS 10 30.00  
 PET 15.15 37 eP 07 25.00 0.6  
 DL2 17.04 268 P 07 48.70 0.1  
 1.0s 910.00nm 5.9mb  
 Z 20s 3.13um 4.7MsZ  
 N 14s 1.82um  
 E 14s 2.70um

pP 07 57.20  
 eS 11 00.00  
 BJI 20.83 275 eP 08 29.50 -3.0X  
 1.2s 190.00nm 5.4mb  
 Z 16s 10.80um 5.3MsZ  
 E 15s 7.25um  
 epP 08 35.00 20kmX  
 eP 08 58.00  
 SSE 20.92 247 P 08 32.00 -1.5  
 1.0s 110.00nm 5.2mb  
 Z 20s 4.10um 4.8MsZ  
 N 12s 2.20um  
 E 11s 1.20um

sP 08 48.00  
 TIA 21.32 264 Pc 08 35.10 -2.5X

Z 19s 2.96um 4.7MsZ  
 E 17s 3.22um  
 eS 12 25.00  
 YAK 21.97 342 iPd 08 39.30 -4.6X  
 0.8s 449.00nm 5.9mb  
 Z 17s 6.50um 5.1MsZ  
 N 17s 4.90um  
 E 16s 2.40um

e 09 04.00 122kmX  
 ePPP 09 13.00  
 iS 12 34.00  
 iSS 13 16.00  
 e 19 58.00  
 NJ2 22.01 252 Pd 08 42.50 -2.0  
 1.0s 190.00nm 5.5mb  
 Z 18s 4.12um 4.9MsZ  
 N 13s 5.97um  
 E 13s 3.57um

S 12 44.00  
 CIT 22.83 307 eP 08 53.00 0.5  
 HHC 24.07 279 P 09 03.10 -1.6  
 0.8s 140.00nm 5.5mb  
 Z 12s 4.23um 5.1MsZ  
 N 15s 1.84um  
 E 18s 4.89um

S 13 20.00  
 TIY 24.29 271 Pc 09 05.60 -1.2  
 1.0s 43.00nm 5.0mb  
 Z 16s 6.90um 5.2MsZ  
 N 15s 2.02um  
 E 16s 3.30um

PP 09 38.00  
 S 13 17.00  
 sS 13 32.00  
 BOD 24.67 321 iPd 09 06.80 -3.4X  
 1.0s 132.00nm 5.5mb  
 BTO 25.27 279 P 09 15.00 -1.3  
 0.7s 58.00nm 5.3mb  
 N 13s 1.66um  
 E 17s 6.25um

pP 09 26.00 42kmX  
 eP 09 58.50  
 S 13 42.00  
 WHN 26.06 254 Pd 09 23.50 0.0  
 0.7s 180.00nm 5.8mb  
 Z 20s 5.59um 5.1MsZ  
 QZH 26.68 239 eP 09 30.00 0.8  
 Z 17s 2.64um 4.9MsZ  
 XAN 28.33 266 Pc 09 43.00 -1.3  
 0.8s 31.00nm 5.1mb  
 Z 16s 3.41um 5.0MsZ  
 N 14s 1.03um  
 E 14s 2.07um

pP 09 52.00 32km  
 IRK 28.50 305 iPd 09 44.00 -1.6  
 1.5s 255.00nm 5.7mb  
 Z 18s 5.91um 5.2MsZ  
 N 12s 0.75um  
 E 18s 5.40um

e 09 51.80 27km  
 e 10 01.00  
 eS 14 32.00  
 eSS 15 44.00  
 ZAK 29.02 301 iPd 09 50.00 -0.2  
 1.2s 196.00nm 5.7mb  
 Z 17s 5.05um 5.2MsZ  
 N 17s 2.45um  
 E 17s 5.62um

e 10 48.00 303kmX  
 CVP 30.38 225 eP 10 02.00 -0.7  
 LZH 31.29 273 Pc 10 10.50 -0.3  
 1.5s 210.00nm 5.7mb  
 Z 16s 4.59um 5.2MsZ  
 N 14s 2.63um  
 pP 10 17.50 24km  
 sP 10 20.50  
 PP 11 12.00  
 S 15 18.00  
 sS 15 27.00

HKC 31.40 241 iPd 10 13.20 1.6  
 GZH 31.40 243 P 10 12.00 0.4  
 Z 19s 3.07um 5.0MsZ  
 N 13s 1.15um  
 E 12s 0.90um  
 BAG 32.11 225 eP 10 17.00 -1.1  
 GTA 33.13 281 iPd 10 26.50 -0.2  
 1.2s 89.00nm 5.5mb



Z 16s	10.00um	5.6MsZx	FRU	49.76 296 iPc	12 42.40 -0.2	VGB	65.13 50 eP	16 53.00
E 15s	3.21um			1.8s 150.00nm	5.7mb	DPW	65.23 47 eP	14 31.70 0.5
	pP	10 35.40 31km		Z 18s 5.80um	5.6MsZ	CROR	65.31 51 P	14 31.13 -0.7
	sP	10 39.00	KSH	E 18s 5.50um		OBN	65.40 323 iPc	14 32.57 0.2
	PP	11 38.00		50.23 291 iPd	12 47.50 1.1		1.2s 220.00nm	14 31.50 -1.1
	sS	15 54.00		0.7s 120.00nm	6.0mb		i	14 41.00 30km
	ScP	16 52.50		Z 20s 8.02um	5.7MsZ		i	15 05.00
	PcS	16 55.50		N 15s 4.94um			e	16 51.00
	ScS	20 50.50		E 15s 4.11um			ePPP	18 25.00
QCP	33.34 223 e(P)	10 29.50 1.0		sP	13 00.00	KOD	65.52 262 eP	14 34.80 0.5
CD2	33.65 264 iPc	10 30.40 -0.9		PcP	14 10.00	MOR8	65.57 340 eP	14 30.24 -3.4X
	1.0s 130.00nm	5.8mb		eScP	18 00.00	NEW	65.59 46 ePd	14 33.47 -0.6
Z 16s	3.40um	5.2MsZx		esS	20 08.00		1.0s 14.98nm	5.0mb
N 13s	1.94um			eScS	22 32.00		Z 19s 0.87um	5.0MsZ
GYA	33.93 255 iPc	10 33.00 -0.8	SNG	51.31 240 eP	12 56.60 1.9	VIPM	65.80 51 P	14 35.79 0.2
	0.8s 160.00nm	6.0mb	MBC	51.53 18 eP	12 55.00 -0.6	YBH	66.15 55 eP	14 38.06 0.3
Z 20s	4.86um	5.2MsZ		0.9s 11.00nm	4.8mb		1.1s 30.00nm	5.3mb
N 15s	2.64um		SIT	51.74 43 P	13 10.00 12.6X	MBL	66.35 204 iPc	14 38.20 -0.8
E 15s	1.43um			Z 20s 1.23um	4.9MsZ		0.6s 7.00nm	4.9mb
	S	15 56.00	HON	52.69 94 P	13 20.00 15.0X	LGPM	66.55 56 eP	14 40.49 0.1
	ScS	20 55.00		Z 21s 1.23um	4.9MsZ	NUR	66.64 332 iP	14 39.20 -1.2
ANM	36.71 34 eP	10 56.00 -0.8	SVE	52.86 317 iPc	13 05.00 -0.9		0.6s 93.20nm	6.1mb
KMI	37.57 257 Pc	11 05.00 0.2		1.6s 200.00nm	5.8mb		Z 20s 3.00um	5.5MsZ
	1.0s 120.00nm	5.7mb		Z 21s 2.00um	5.1MsZ		LR	46 00.00
Z 22s	3.10um	5.1MsZ		N 21s 2.00um		LBFM	66.87 55 eP	14 43.45 0.8
N 14s	1.40um			E 21s 2.00um		WDC	66.92 56 eP	14 43.00 0.4
E 14s	1.80um			e	15 03.30 654kmX		1.3s 30.00nm	5.3mb
	pP	11 17.00 44kmX		eS	20 40.00	MIN	67.64 55 eP	14 47.36 0.0
	sP	11 23.00	ARU	54.06 317 iPc+	13 14.00 -0.6	GRO	67.81 309 iPc	14 49.00 0.9
	PP	12 37.00		1.3s 400.00nm	6.3mb		1.0s 160.00nm	6.1mb
	PcP	13 23.80		Z 16s 2.50um	5.4MsZx		i	15 00.00 36km
	S	16 50.00		N 18s 1.00um		ORV	68.17 56 eP	14 50.03 -0.5
	ScP	17 05.00		E 18s 2.00um			2.3s 150.00nm	5.7mb
	PcS	17 07.00		e	13 23.00 30km	PYA	68.91 311 iPc	14 55.00 0.0
	sS	17 10.00		e	14 14.00		1.0s 100.00nm	5.8mb
	ScS	21 12.00		eS	21 06.00		e	15 05.00 32km
DAV	38.05 210 ePc	11 09.00 0.4	NDI	54.59 279 iP	13 18.70 -0.3	MTA	69.33 308 iP	14 57.60 0.1
WMQ	40.47 292 iPc	11 29.00 0.4		0.5s 218.31nm	6.4mb	COE	69.44 58 (P)	14 59.91 1.6
	0.8s 90.00nm	5.6mb		eS	21 03.00	UPP	69.50 334 iP	14 57.20 -1.1
Z 18s	12.60um	5.8MsZ		KBS	56.35 350 iPc	LRM	69.61 46 eP	14 59.10 -0.5
E 15s	7.33um		RES	57.62 16 ePc	13 38.00 -2.1	CMB	69.78 57 eP	15 00.95 0.5
	pP	11 38.30 31km		0.8s 54.00nm	5.6mb		1.5s 40.00nm	5.3mb
	sP	11 41.80	KLJ	58.31 227 eP	13 46.00 0.5	SAO	69.88 58 P	15 10.00 8.9X
	PP	13 04.00		LEM	58.49 223 ePd		Z 16s 0.36um	4.7MsZx
	PcP	13 34.80	YKA	58.89 32 P	13 47.00 0.0	MNK	70.15 326 eP	15 00.00 -2.3
	ScP	17 21.50		1.3s 13.30nm	4.9mb		Z 20s 2.80um	5.5MsZ
	PcS	17 24.00	HYB	60.13 267 iPc	13 57.80 -0.5	HFS	70.53 336 eP	15 03.10 -1.5
	S	17 30.00		1.0s 90.00nm	5.9mb		0.6s 53.50nm	5.8mb
	sS	17 50.00		e	14 07.50 32km		LR	42 49.00
	SS	20 22.50	KTk1	61.19 339 eP	13 52.99 -11.8X	NB2	70.53 338 P	15 03.90 -0.7
	ScS	21 31.00	DAG	61.26 355 iPd	14 03.20 -1.9		0.6s 16.60nm	5.3mb
TTA	40.61 38 eP	11 28.94 -0.5		0.9s 71.43nm	5.8mb	KVN	70.57 55 eP	15 05.59 0.1
	1.1s 24.47nm	4.9mb	TRO	61.85 341 eP	14 06.96 -2.3	TAB	70.63 304 iP+	15 06.00 0.2
SVW	40.76 40 eP	11 30.84 0.2	WB2	61.96 190 iPc	14 09.30 -1.1	BONR	71.13 56 eP	15 09.30 0.3
	1.2s 73.21nm	5.3mb		0.8s 10.80nm	5.0mb	HHAI	71.26 48 eP	15 10.14 0.7
BRW	41.42 25 eP	11 33.98 -1.9	WRA	61.96 190 P	14 09.40 -1.1	PTI	71.53 49 eP	15 11.70 0.5
	epP	11 44.52 37km		0.6s 2.50nm	4.5mb X	ANN	71.56 314 eP	15 10.00 -1.0
IMA	41.78 33 ePc	11 38.42 -0.7	GMW	62.84 49 eP	14 16.32 0.2		0.8s 40.00nm	5.5mb
	1.0s 46.50nm	5.2mb	POO	62.97 271 iP	14 17.60 0.2		Z 16s 1.00um	5.2MsZx
CF2	42.39 40 eP	11 44.50 0.3	ASH	62.98 298 eP	14 16.90 -0.2		N 16s 2.00um	
CRP	42.43 40 eP	11 44.44 -0.1		0.6s 185.00nm	6.4mb		E 16s 1.50um	
KDC	42.55 45 eP	11 44.20 -1.1	MAIO	63.11 296 iPc	14 18.00 -0.2	TNP	71.72 55 eP	15 12.60 0.2
	1.0s 58.37nm	5.3mb		0.9s 12.79nm	5.0mb		0.7s 19.40nm	5.2mb
LOE	43.22 249 eP	11 50.50 -0.7	BMW	63.18 51 eP	14 18.39 0.0	BCH	71.72 59 (P)	15 13.17 0.8
SLKM	43.43 41 (P)	11 53.19 0.7	GBA	63.37 265 Pc	14 20.00 0.1	FRB	71.80 14 ePc	15 10.60 -1.6
LSA	43.68 271 iPc	11 57.00 1.5	RMW	63.45 49 eP	14 19.91 -0.3		0.9s 36.00nm	5.4mb
	1.0s 110.00nm	5.6mb	BOM	63.52 272 eP	14 19.40 -1.5	KONO	72.13 337 iPc	15 14.00 -0.2
Z 18s	11.70um	5.8MsZ	FMW	63.82 50 P	14 22.46 -0.4		e	39 52.22
N 13s	0.77um		LON	63.84 50 eP	14 23.10 0.3	ISA	72.45 58 eP	15 16.40 -0.2
E 14s	1.07um		SHW	63.91 50 eP	14 25.19 1.9		1.3s 27.78nm	5.1mb
	pP	12 02.00 17kmX	LOF	64.27 341 eP	14 23.99 -1.2		Z 20s 0.31um	4.6MsZ
PMR	43.86 40 eP	11 54.53 -1.3	ASR	64.30 50 P	14 25.85 0.0	ABL	72.48 59 (P)	15 18.52 1.5
	0.8s 31.00nm	5.2mb	WTV	64.36 48 P	14 25.17 -1.0	DUG	73.01 51 eP	15 20.19 0.3
Z 21s	1.05um	4.7MsZ	EBG	64.46 49 P	14 27.07 0.3		0.8s 19.51nm	5.2mb
FBA	44.23 35 iPc	11 58.57 -0.3	SSOR	64.52 52 P	14 27.71 0.4		Z 19s 0.43um	4.7MsZ
	0.9s 93.84nm	5.6mb	MOS	64.54 323 iPc	14 26.00 -1.1	TPNV	73.03 56 eP	15 30.32 33km
CHTO	44.25 253 ePc	12 00.50 0.9		1.6s 360.00nm	6.2mb		0.8s 35.52nm	5.4mb
	1.0s 56.25nm	5.3mb		Z 18s 2.80um	5.5MsZ	BW06	73.16 47 eP	15 30.03 29km
TOA	45.20 39 eP	12 07.50 0.7		i	14 36.00 32km		0.8s 16.90nm	5.1mb
BDT	45.24 251 eP	12 07.00 -0.5	SAW	64.66 48 P	14 27.57 -0.5	GSC	73.73 57 eP	15 24.68 0.6
	0.6s 25.00nm	5.3mb	VBEM	64.92 51 P	14 30.03 0.1		epP	15 32.92 26km
SHL	45.35 266 iP	12 08.60 0.1	PUL	65.05 329 ePc	14 29.00 -1.3	DAU	73.77 50 eP	15 24.50 0.0
	0.6s 20.00nm	5.2mb		1.2s 300.00nm	6.3mb	SSK	73.86 59 (P)	15 24.00 -1.0
	iS	19 04.00		e	14 41.00 41km	ARUT	74.20 53 eP	15 26.74 -0.2
KLU	45.40 39 eP	12 07.51 -0.9						
NST	45.51 248 eP	12 11.00 1.3						
BALM	47.18 40 eP	12 22.00 -0.5						



			epP	15	37.31	34km				e	16	03.50		FNA	82.66	320	ePc	16	13.34	0.4	
PEC	74.41	58	eP	15	27.11	-0.9				e	16	06.90		OHR	82.68	320	iPc	16	13.30	0.3	
KIS	74.41	320	iP+	15	27.00	-0.7				e	16	11.90					i	16	23.20	31km	
	Z	18s	2.10um			5.5msz				e	18	32.00		BDV	82.70	322	iPc	16	12.90	-0.1	
			e	15	36.00	29km				e	18	44.00		HCY	82.72	322	iPc	16	12.73	-0.4	
EMUT	74.42	50	eP	15	27.68	-0.6				e	18	55.20		ZLA	82.73	331	ePc	16	13.40	0.2	
MSU	74.48	52	eP	15	29.16	0.6	DIM	79.65	318	iPc	15	58.00	1.0	ULC	82.75	322	iPc	16	13.23	-0.1	
ULM	74.64	35	eP	15	30.50	1.5	WET	79.69	330	iPc	15	58.00	0.9	OSS	82.76	330	ePc	16	14.00	0.5	
MUD	74.91	336	iPc	15	30.00	-0.4		0.9s	73.00nm			5.7mb		ECB	82.85	342	eP	16	14.50	0.9	
	0.7s	26.00nm				5.3mb	EDC	79.71	316	eP	15	57.00	-0.4	MOF	82.87	332	P	16	13.35	-0.5	
PLM	74.94	59	(P)	15	32.12	0.8	GRF	79.85	331	ePc	15	58.90	0.9	ECP	82.93	342	eP	16	14.80	0.8	
SRU	75.05	51	ePc	15	31.65	-0.2		0.7s	95.00nm			5.9mb		BSF	83.00	332	iPc	16	14.40	-0.2	
MRWA	75.08	205	eP	15	31.50	-0.2		Z	21s	1.70um		5.4msz			0.6s		9.75nm			5.1mb	
	0.9s	31.00nm				5.3mb	BHL	79.89	307	P	15	58.00	-0.5	HAU	83.01	333	iPc	16	14.50	0.0	
COOL	75.18	200	eP	15	33.00	0.8	PGB	79.96	319	P	16	00.00	1.3		0.8s		25.65nm			5.4mb	
RSSD	75.20	44	ePc	15	31.63	-1.0	KDZ	80.01	318	iPc	16	00.00	1.0		Z	22s		1.38um			5.3msz
	0.8s	15.02nm				5.0mb	QASM	80.12	296	eP	15	59.50	-0.4	LLS	83.03	331	ePc	16	15.30	0.4	
KAS	75.83	313	iPc	15	37.40	1.3	ALN	80.25	317	ePc	16	00.94	0.8	BBS	83.06	332	P	16	14.86	0.0	
CFR	76.07	319	ePc	15	37.50	0.3	ALQ	80.27	52	eP	16	01.62	0.9	ACO	83.13	46	iPd	16	15.30	-0.1	
BAL	76.15	204	eP	15	38.20	0.5		1.0s	25.33nm			5.2mb		KMSA	83.25	291	iPc	16	16.67	0.4	
UZH	76.25	324	eP	15	38.50	0.3		Z	20s	0.42um		4.8msz		LOMF	83.40	332	P	16	16.95	0.3	
	1.0s	45.00nm				5.4mb			ipP	16	11.71	32km		HQL	83.47	304	iPc	16	18.33	1.2	
		e	15	49.00	34km		RDO	80.32	317	eP	16	01.50	0.9	AGG	83.54	318	ePc	16	16.78	-0.6	
PV09	76.27	51	eP	15	39.04	0.2	RZN	80.33	318	iPc	16	02.00	1.1	ATH	83.63	316	eP	16	17.50	-0.3	
PV10	76.40	51	eP	15	39.75	0.2	TNS	80.39	333	ePc	16	00.80	-0.1	TMA	83.72	330	ePc	16	18.40	0.0	
GLA	76.43	58	eP	15	39.88	0.3			ed	16	10.70	31km		MMK	84.10						



26d 10h

TOUF 86.11 330 P 16 30.03 -0.4  
LSF 86.14 335 iPc 16 31.00 0.7  
0.8s 84.10nm 6.0mb  
SBF 86.17 330 eP 16 30.30 -0.2  
AURF 86.19 330 P 16 29.04 -1.6  
GAC 86.20 26 eP 16 30.00 -0.6  
MVIF 86.24 330 P 16 30.94 -0.1  
MFF 86.35 336 iPc 16 32.10 0.8  
1.0s 116.00nm 6.1mb  
CALN 86.46 330 P 16 30.49 -1.6  
FVM 86.59 40 eP 16 32.52 -0.1  
0.8s 24.74nm 5.5mb  
Z 20s 1.32um 5.3Msz  
LRG 86.92 330 eP 16 34.40 0.3  
0.9s 63.70nm 5.8mb  
LMR 86.97 330 eP 16 34.50 0.1  
CAF 87.14 334 eP 16 35.90 0.7  
0.8s 80.85nm 6.0mb  
RSNY 87.54 26 eP 16 36.80 -0.3  
0.9s 16.86nm 5.3mb  
UYO 87.54 45 iPc 16 37.10 -0.2  
LFF 87.56 335 iPc 16 38.40 1.2  
1.0s 92.80nm 6.0mb  
LPO 87.64 334 iPc 16 38.70 1.1  
0.9s 52.90nm 5.8mb  
ELC 87.72 40 eP 16 38.10 0.0  
YSNY 87.94 30 P 16 50.00 10.9X  
Z 19s 0.67um 5.1Msz  
LBNH 88.65 25 P 16 50.00 7.5X  
Z 19s 1.20um 5.3Msz  
BINY 89.11 28 P 16 50.00 5.3X  
Z 20s 0.94um 5.2Msz  
LMN 89.18 19 eP 16 45.00 0.0  
1.0s 15.00nm 5.3mb  
OXF 89.85 41 eP 16 47.93 -0.3  
0.9s 347.32nm 6.6mb X  
Z 20s 0.22um 4.6Msz  
MCWV 89.86 32 eP 16 48.70 0.4  
0.7s 29.79nm 5.7mb  
Z 20s 0.55um 5.0Msz  
LSCT 90.53 27 P 16 59.10 32km  
Z 20s 0.86um 5.2Msz  
NAV 91.47 34 ePc 16 55.92 0.1  
epP 17 04.81 28km  
MYNC 91.90 37 P 17 10.00 12.2X  
Z 21s 1.04um 5.3Msz  
CEH 93.40 34 eP 17 04.39 -0.2  
0.8s 11.78nm 5.4mb  
epP 17 15.05 33km  
PRM 93.52 37 eP 17 05.23 0.0  
GOGA 93.58 38 P 17 20.00 14.5X  
Z 21s 0.78um 5.1Msz  
PAB 94.04 336 eP 17 09.00 1.4  
LKO 121.69 324 PKP 22 43.04 -0.8  
0.9s 12.00nm  
BFT 123.82 264 ePKP 22 48.00 0.1  
TIC 123.99 321 PKP 22 47.64 -0.7  
0.9s 10.50nm  
KIC 124.11 321 PKP 22 47.96 -0.6  
0.9s 22.00nm  
LIC 124.36 321 PKP 22 48.28 -0.7  
0.9s 10.50nm  
SLR 125.16 265 iPKPd 22 51.00 0.6  
0.8s 33.00nm  
POF 133.34 267 ePdiff20 07.00 4.0X  
SUR 134.19 262 ePdiff20 06.00 -1.0  
0.6s 50.00nm  
LPAZ 142.73 57 ePKP 23 19.60 -4.6X  
LPB 142.93 57 PKP 23 26.00 1.8  
CCH 144.80 55 PKP 23 26.30 -1.0  
BDFB 152.12 25 ePKP 23 39.59 1.1  
iPKPbc23 45.46  
e 23 55.50  
S.D. = 0.9 on 349 of 375 obs.  
JAN 26, 1994 10h 07m 36.22± 0.31s  
39.100 N ± 3.2km 27.834 E ± 3.0km  
DEPTH = 14.9 ± 2.4 km  
TURKEY (366)  
ML 4.1 (ATH), 3.9 (THE), 3.8 (ISK).

DST 0.80 50 iPn 07 51.30 0.0  
IZM 0.83 213 iPg 07 51.00 -0.9  
eSg 08 04.00  
PRK 1.22 277 iPnd 07 59.30 0.8

EDC 1.25 1 iPn 08 00.00 1.1  
CIN 1.51 172 iPnc 08 02.50 -0.2  
KHL 1.53 120 iPn 08 03.60 0.5  
IZI 1.77 45 iPn 08 07.00 0.5  
ALT 1.77 91 iPn 08 06.30 -0.3  
YLV 1.88 38 iPn 08 08.70 0.5  
GBZT 2.09 36 ePn 08 09.00 -2.1  
eSg 08 43.10  
ISK 2.18 25 ePn 08 12.00 -0.3  
ITU 2.20 24 ePn 08 12.00 -0.7  
iSg 08 45.00  
HRT 2.22 39 iPn 08 13.20 0.1  
ALN 2.26 323 ePn 08 14.10 0.5  
eSn 08 43.10  
EYL 2.31 50 ePn 08 14.70 0.3  
RDO 2.70 320 ePn 08 20.00 0.2  
BCK 2.72 126 ePn 08 21.00 0.8  
KDZ 3.15 325 iPd 08 27.00 0.9  
OUR 3.22 294 ePn 08 27.40 0.3  
KSL 3.28 154 ePn 08 30.50 2.4  
PAIG 3.32 286 ePn 08 28.32 -0.3  
eSn 09 07.40  
ATH 3.42 252 ePb 08 36.00 6.0X  
eSn 09 09.50  
DIM 3.43 330 iP 08 30.00 -0.1  
SRS 3.83 303 ePn 08 37.00 1.2  
PLD 3.83 323 iPd 08 36.00 0.1  
SOH 3.85 298 ePn 08 36.24 0.1  
MMB 4.00 310 iP 08 38.00 -0.3  
NPS 4.22 206 ePn 08 40.50 -0.9  
LIT 4.25 285 ePn 08 41.00 -0.8  
eSn 09 29.80  
KNT 4.31 300 ePn 08 43.00 0.3  
VLI 4.54 240 ePn 08 45.00 -1.0  
GRG 4.56 296 ePn 08 46.20 -0.1  
KZN 4.83 286 ePn 08 50.50 0.4  
VTS 4.95 316 iPd 08 52.00 0.2  
KAS 5.07 62 ePn 09 15.50 21.9X  
iSg 10 21.50

S.D. = 0.8 on 33 of 35 obs.

% JAN 26, 1994 12h 03m 27.97± 0.86s  
39.632 N ± 8.0km 29.404 E ± 7.6km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

DST 0.60 268 ePg 03 39.70 -0.4  
iSg 03 52.40  
IZI 0.71 4 iPg 03 41.40 -0.5  
ALT 0.80 136 ePg 03 43.50 0.0  
eSg 03 55.50  
EYL 1.10 32 ePn 03 48.90 0.3  
EDC 1.38 302 ePn 03 54.00 0.7  
S.D. = 0.7 on 5 of 5 obs.

JAN 26, 1994 12h 07m 14.67± 0.14s  
79.507 N ± 2.6km 4.008 E ± 2.9km  
DEPTH = 10.0km (geophysicist)  
5.1mb (78 obs.) 4.9Msz (36 obs.)  
GREENLAND SEA (640)  
Mw 5.2 (HRV).

CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 25S, 38C  
Centroid Location:  
Origin Time 12:07:20.3 0.6  
Lat 79.47N 0.08 Lon 3.93E 0.12  
Dep 15.0 FIX Half-duration 1.1  
Moment Tensor; Scale 10\*\*16 Nm  
Mrr=-7.95 0.33 Mtt=-0.42 0.59  
Mff= 8.37 0.38 Mrt= 0.00 0.00  
Mrf= 0.00 0.00 Mtf= 2.16 0.29  
Principal Axes:  
T Val= 8.87 Plg= 0 Azm=103  
N -0.92 0 13  
P -7.95 90 180  
Best Double Couple:Mo=8.4\*10\*\*16  
NP1:Strike=193 Dip=45 Slip= -90  
NP2: 13 45 -90

DAG 5.41 251 iPd 08 33.40 -3.8X  
0.6s 140.00nm 5.8mb  
iPp 09 00.50  
iSp 09 30.80  
NB2 18.69 169 P 11 34.20 -0.4

0.9s 5.50nm 3.8mb X  
NRAO 19.00 169 P 11 37.60 -0.8  
NREO 19.00 169 P 11 43.70 5.3X  
S 15 17.10  
Lg 16 45.20  
HFS 19.69 166 eP 11 44.40 -2.1  
0.9s 55.30nm 4.9mb  
Z 18s 1.35um 4.1Msz  
LR 16 37.00  
RES 19.92 310 eP 11 44.00 -4.7X  
1.0s 20.00nm 4.4mb  
NUR 20.09 149 eP 11 50.00 -0.6  
0.7s 24.60nm 4.6mb  
UPP 20.18 160 iP 11 54.60 3.0X  
MBC 21.51 327 eP 12 06.50 1.5  
1.0s 23.00nm 4.5mb  
MUD 23.22 173 iPc 12 23.70 1.6  
0.9s 44.00nm 5.0mb  
e 12 38.00  
EKA 24.40 190 P 12 36.00 2.4X  
0.9s 14.30nm 4.6mb  
FRB 25.19 274 eP 12 41.00 -0.1  
1.1s 53.00nm 5.1mb  
MOS 26.23 135 eP 12 52.00 1.2  
Z 20s 2.30um 4.7Msz  
e 13 29.00  
OBN 26.72 136 ePc 12 54.00 -1.4  
1.0s 70.00nm 5.3mb  
Z 20s 2.40um 4.7Msz  
N 24s 2.20um  
ePPP 13 52.00  
MNK 26.89 148 eP 12 52.00 -4.9X  
Z 22s 2.10um 4.7Msz  
CLL 28.49 168 iPc 13 11.40 0.0  
1.4s 46.00nm 5.1mb  
SVE 28.78 107 iPc 13 14.50 0.5  
2.1s 140.00nm 5.4mb  
Z 18s 3.00um 4.9Msz  
N 18s 2.50um  
E 18s 2.00um  
e 14 03.30  
eS 18 07.00  
ARU 28.82 110 eP 13 14.00 -0.4  
Z 16s 2.50um 4.9MszX  
N 16s 1.50um  
E 16s 1.00um  
e 14 11.50  
BRG 28.96 167 iP 13 15.20 -0.5  
1.1s 42.00nm 5.1mb  
MOX 29.10 170 iPc 13 17.20 0.2  
1.5s 90.00nm 5.3mb  
HOF 29.44 170 iPc 13 20.50 0.4  
PRU 29.87 166 iPd 13 23.80 -0.1  
1.1s 41.10nm 5.2mb  
pP 13 25.60 6kmX  
GRF 30.04 171 eP 13 25.70 0.2  
1.3s 36.00nm 5.0mb  
OKC 30.20 162 P 13 27.70 0.9  
WET 30.65 169 iPc 13 31.80 1.0  
1.3s 46.00nm 5.2mb  
KHC 30.69 168 P 13 31.50 0.3  
1.0s 17.50nm 4.9mb  
e 13 39.00  
e 13 51.00  
GEC2 30.98 168 P 13 34.20 0.4  
1.0s 35.55nm 5.2mb  
SPC 30.98 159 iP 13 33.60 -0.3  
CDF 31.24 176 eP 13 35.70 -0.4  
1.1s 14.90nm 4.8mb  
HAU 31.64 177 eP 13 39.20 -0.3  
0.8s 14.50nm 4.9mb  
Z 22s 0.50um 4.1Msz  
UZH 31.67 157 eP 13 40.00 0.2  
e 14 57.00  
ZST 31.78 163 eP 13 40.70 0.0  
BSF 31.81 176 eP 13 40.40 -0.7  
1.1s 10.25nm 4.7mb  
BHG 32.07 169 eP 13 44.20 0.9  
1.1s 51.00nm 5.4mb  
PSZ 32.22 160 eP 13 45.20 0.5  
SRO 32.23 162 eP 13 45.40 0.8  
LOR 32.36 180 eP 13 44.90 -0.9  
1.1s 10.25nm 4.7mb  
Z 22s 0.30um 3.9MszX  
WATA 32.41 170 iPc 13 47.10 0.7  
WTTA 32.48 170 iPc 13 48.10 1.0  
1.2s 38.80nm 5.2mb



26d 12h

SQTA	32.52	171	iPd	13	47.80	0.5	CIT	42.72	59	eP	15	14.00	1.1	Z	19s	3.15um	5.4Msz				
			i		14	06.80				e	16	55.00		SNY	54.16	53	Pc	16	41.60	0.0	
SSF	32.57	181	eP	13	46.70	-0.9	EPRU	42.82	191	eP	15	16.10	2.3		1.0s	44.00nm	5.4mb				
	0.9s	11.30nm				4.8mb	ULM	42.82	291	eP	15	16.50	2.9X			pP	16	50.80	30kmX		
LBF	32.65	180	eP	13	47.30	-1.0	GAC	43.55	270	eP	15	20.00	0.4	ELC	54.22	281	eP	16	41.16	-0.9	
	1.0s	18.40nm				5.0mb	LBH	44.32	266	P	15	40.00	14.1X	GLD	54.58	297	eP	16	45.81	0.8	
KBA	32.73	168	iPc	13	50.40	1.2		Z	20s	1.98um		5.0Msz			1.0s	38.29nm	5.4mb				
	1.0s	20.60nm				5.0mb	RSNY	44.50	269	eP	15	28.18	0.8	Z	20s	3.35um	5.4Msz				
			i		13	59.40		0.9s	3.96nm		4.3mb		BJI	54.77	61	eP	16	45.50	-0.7		
AVF	32.84	181	eP	13	49.10	-0.8	FRU	44.71	99	eP	15	30.60	1.5		2.0s	64.00nm	5.3mb				
	0.9s	11.80nm				4.8mb		2.0s	90.00nm		5.3mb		Z	16s	1.46um	5.1MszX					
OGA	32.86	171	iPc	13	51.90	1.5		Z	20s	1.30um		4.9Msz	E	16s	1.56um						
SMF	32.99	180	eP	13	50.40	-0.8				e	17	22.00				pP	16	54.50	29kmX		
	1.1s	10.25nm				4.7mb	SDN	45.09	348	P	15	40.00	8.1X	LST	55.05	281	eP	16	47.96	-0.3	
BGF	33.08	181	eP	13	51.30	-0.7		Z	20s	2.38um		5.1Msz	DUG	55.35	304	P	17	00.00	9.4X		
	1.3s	63.20nm				5.4mb	WMQ	46.14	86	Pd	15	41.50	1.0		Z	19s	0.79um	4.8Msz			
TCF	33.35	182	eP	13	53.50	-0.9			1.0s	35.00nm		5.3mb	LHS	55.41	272	eP	16	50.30	-0.6		
	0.8s	13.70nm				4.9mb		Z	12s	1.28um		5.1MszX	MYNC	55.44	275	eP	16	50.56	-0.6		
LSF	33.39	183	eP	13	53.80	-1.0		E	13s	1.63um				0.8s	84.47nm	5.8mb					
	0.8s	16.10nm				5.0mb				pP	15	49.50	27kmX	Z	20s	0.92um	4.9Msz				
MAF	33.41	182	eP	13	54.20	-0.8				PcP	17	12.50				e	16	57.73			
	0.9s	14.40nm				4.9mb				PP	17	32.00				e	17	04.99			
LJU	33.81	167	eP	13	59.00	0.6				ScP	21	02.00				e	17	49.61			
	1.0s	60.00nm				5.5mb				PcS	21	06.00				e	18	16.68			
YKA	33.91	313	P	13	58.00	-1.1				S	22	30.50		JSC	55.69	272	eP	16	52.57	-0.3	
	1.0s	5.80nm				4.5mb	ASH	46.65	118	eP	15	46.20	1.7	SRU	56.05	301	eP	16	55.32	-0.4	
PTJ	34.02	165	eP	14	00.00	-0.3	LSCT	47.03	267	P	16	00.00	12.5X	PRM	56.08	273	ePd	16	55.04	-0.7	
IMA	34.07	344	eP	14	00.97	0.3		Z	20s	1.68um		5.0Msz	PV08	56.28	300	ePc	16	57.81	0.2		
	1.2s	6.53nm				4.4mb	BINY	47.04	270	eP	15	48.45	0.9			e	17	05.33			
TRI	34.11	168	eP	14	01.20	0.2			0.9s	47.90nm		5.6mb	WDC	56.37	313	P	17	10.00	12.2X		
LPL	34.13	177	eP	14	01.50	0.1		Z	21s	1.58um		5.0Msz		Z	19s	0.61um	4.7Msz				
	0.9s	8.50nm				4.7mb	YSNY	47.24	272	eP	15	49.65	0.5	PV09	56.43	300	eP	16	58.75	0.1	
LPG	34.15	177	eP	14	01.20	-0.5			0.9s	57.29nm		5.7mb	TIY	56.44	65	eP	16	58.00	-0.4		
	1.0s	14.60nm				4.9mb		Z	19s	0.92um		4.8Msz		Z	22s	1.82um	5.1Msz				
RJF	34.34	183	eP	14	02.20	-0.8				NEW	48.08	310	P		E	15s	1.71um				
	1.0s	23.20nm				5.0mb		Z	20s	1.24um		4.9Msz	ACO	56.54	290	iPd	16	57.00	-2.1		
LFF	34.71	184	eP	14	05.80	-0.4				KSH	48.23	99	P		PV10	56.54	300	eP	17	00.06	0.7
	0.9s	19.15nm				5.0mb			1.2s	20.00nm		5.1mb	LZH	56.56	73	Pd	16	58.50	-0.9		
FBA	34.89	339	eP	14	09.60	2.1		Z	20s	3.70um		5.4Msz		2.0s	66.00nm	5.3mb					
YAK	35.28	42	iPd	14	11.50	0.7		N	12s	2.06um				Z	16s	1.42um	5.2MszX				
	1.1s	95.00nm				5.6mb		E	12s	1.86um		18kmX		N	15s	1.15um					
			e		15	33.00				pP	16	04.00				pP	17	05.50	23kmX		
			eS		19	49.00				sP	16	08.00		SGS	56.61	271	eP	16	59.49	0.0	
			eSS		22	00.00		MAIO	48.45	117	eP	16	01.00	2.3	TUL	56.72	287	iPd	16	59.00	-1.3
CFR	35.58	150	eP	14	12.00	-1.5				e	18	52.00		MSU	56.90	303	eP	17	02.48	0.6	
SBF	35.79	176	eP	14	15.50	0.1				eS	23	08.00		GOGA	56.94	274	eP	17	00.98	-0.9	
	1.2s	75.85nm				5.4mb	RMW	49.51	314	eP	16	07.24	0.5		0.8s	21.73nm	5.2mb				
ANM	36.02	352	ePd	14	18.36	1.3	GMW	49.55	315	eP	16	08.31	1.3		Z	20s	1.17um	5.0Msz			
EFF	36.63	185	eP	14	22.00	-0.5	LRM	49.79	305	ePc	16	09.80	0.6	OXF	56.95	280	eP	17	00.76	-1.2	
	1.1s	29.05nm				5.0mb	RSSD	50.13	297	eP	16	11.69	0.0		0.8s	581.11nm	6.7mb X				
BOD	37.16	56	iPd	14	24.80	-2.0			0.9s	42.28nm		5.4mb		Z	21s	0.77um	4.8Msz				
	0.8s	37.00nm				5.2mb	MCWV	50.21	273	eP	16	11.50	-0.6	SIO	56.97	287	iPd	17	00.60	-1.6	
PVL	37.29	154	iP	14	29.00	1.1			0.7s	32.15nm		5.4mb	KVN	57.25	308	eP	17	05.03	0.7		
TTA	37.31	345	eP	14	29.55	1.5		Z	20s	1.03um		4.8Msz	VVO	57.27	287	iPc	17	02.80	-1.4		
VTs	37.75	157	eP	14	31.00	-1.0	LON	50.21	313	eP	16	12.67	0.6	TNP	58.07	307	(P)	17	10.41	0.3	
PGB	37.86	155	iP	14	33.00	0.1	BMW	50.67	315	eP	16	16.08	0.5	UYO	58.19	285	iPc	17	10.30	-0.4	
PYA	38.41	133	eP	14	38.00	0.6	SHW	50.81	314	eP	16	19.15	2.4	MEO	58.31	289	iPd	17	11.20	-0.3	
			i		16	55.00				e	16	30.98		WMOK	58.39	289	eP	17	11.36	-0.7	
KKB	38.46	157	iPc	14	38.00	0.2									0.9s	34.54nm	5.4mb				
RZN	38.76	155	iP	14	40.00	-0.6	CBN	51.16	270	eP	16	20.00	0.7		Z	21s	1.42um	5.1Msz			
MMB	38.78	156	iPc	14	41.00	0.4	VGB	51.28	312	eP	16	21.72	1.5	CMB	58.57	310	P	17	20.00	6.6X	
VAY	38.97	158	iP	14	41.70	-0.3	CVL	51.58	271	eP	16	23.12	0.6		Z	20s	0.74um	4.8Msz			
OHR	39.06	160	iP	14	43.00	0.1	BW06	52.32	301	eP	16	27.71	-0.7	TIA	58.67	61	eP	17	13.70	-0.3	
KNT	39.15	157	eP	14	43.78	0.2			1.3s	30.64nm		5.1mb	NDI	58.94	101	eP	17	06.00	-10.0X		
SRS	39.24	156	iP	14	44.30	-0.1	GTA	52.61	76	Pd	16	30.00	-0.5	XAN	59.43	69	P	17	18.00	-1.4	
GRG	39.32	158	eP	14	45.50	0.5			1.5s	32.00nm		5.0mb		1.2s	13.00nm	4.9mb					
GRO	39.44	130	iPd	14	48.00	2.0		Z	18s	2.28um		5.3Msz		Z	18s	0.89um	4.9Msz				
	2.0s	240.00nm				5.5mb		N	14s	0.66um			E	12s	0.77um						
SOH	39.52	157	eP	14	47.90	1.2				pP	16	38.00	26kmX	ALQ	59.48	297	P	17	30.00	10.1X	
LIT	40.18	158	eP	14	52.26	0.1	NAV	52.65	273	eP	16	29.91	-0.8		Z	21s	1.54um	5.1Msz			
PAB	40.22	190	iPd	14	52.70	0.2	PTI	52.66	304	eP	16	31.66	0.8	SAO	59.97	311	P	17	30.00	7.0X	
IRK	40.94	67	ePc	14	58.00	-0.3	BLA	52.69	272	eP	16	30.94	0.0		Z	21s	0.94um	4.9Msz			
	1.6s	62.00nm				5.1mb			1.0s	47.10nm		5.4mb	LSA	60.49	87	Pd	17	27.40	0.2		
	Z	18s	1.06um			4.7Msz	SLM	53.08	282	P	16	40.00	6.2X		1.4s	40.00nm	5.4mb				
	N	16s	1.01um					Z	20s	1.48um		5.0Msz	ISA	60.63	308	P	17	40.00	12.4X		
	E	18s	1.05um				BTO	53.22	66	eP	16	34.50	-0.5		Z	19s	0.75um	4.9Msz			
			e		16	34.00			N	19s	2.21um			MAT	61.32	41	eP	17	31.00	-1.3	
EVIA	41.07	188	eP	15	00.68	1.2			E	17s	0.80um			CD2	61.59	74	eP	17	32.60	-1.6	
LMN	41.46	260	eP	15	03.50	0.9	HHC	53.23	65	P	16	34.50	-0.5	TUC	62.75	300	eP	17	43.09	1.2	
	1.0s	7.00nm				4.3mb			1.0s	16.00nm		4.9mb			0.9s	20.00nm	5.3mb				
EHUE	41.89	188	eP	15	08.05	1.8		Z	20s	1.87um		5.1Msz		Z	19s	1.26um	5.1Msz				
EHOR	41.96	191	eP	15	07.63	0.9		E	15s	1.17um			NJ2	63.01	60	Pc	17	43.00	-0.5		
ZAK	42.58	69	eP	15	21.00	9.3X	CEH	53.73	271	eP	16	38.54	0.0	SSE	64.32	58					



GYA 66.44 73 iPd 18 05.20 -0.8  
1.0s 29.00nm 5.4mb  
pP 18 14.80 31kmX  
KMI 67.06 77 eP 18 08.00 -2.0  
Z 25s 1.40um 5.1mszX  
POO 68.25 106 iPd 18 18.50 1.2  
LKO 70.11 190 P 18 28.11 -0.6  
1.5s 82.00nm 5.6mb  
HYB 70.18 102 ePd 18 28.00 -1.2  
e 18 36.50  
CHTO 72.53 82 eP 18 41.60 -1.7  
TIC 72.97 189 Pd 18 44.77 -1.0  
1.2s 14.00nm 4.9mb  
KIC 73.25 189 Pd 18 46.85 -0.5  
1.2s 43.00nm 5.4mb  
LIC 73.39 189 Pd 18 47.75 -0.5  
1.1s 39.50nm 5.4mb  
GBA 73.70 104 P 18 50.00 -0.1  
BCAO 75.38 165 iPe 19 00.10 0.3  
0.5s 28.00nm 5.6mb  
HON 78.88 343 P 19 30.00 10.9X  
Z 20s 0.36um 4.7msz  
WRA 116.42 53 PKP 25 58.80 -0.6  
1.1s 0.70nm  
SYO 149.68 156 ePKPd 27 03.70 4.8X  
S.D. = 1.0 on 162 of 185 obs.

& JAN 26, 1994 12h 28m 47.21s  
34.302 N 118.470 W  
DEPTH = 10.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.8 (PAS), 3.9 (GS).

TPRS 0.23 204 P 28 51.72 -0.5  
FIL 0.33 292 P 28 54.40 0.5  
FOX 0.47 25 P 28 56.16 -0.7  
PEM 0.52 105 P 28 56.90 -0.8  
ECF 0.54 287 P 28 58.00 -0.1  
SSK 0.65 98 iPd 28 59.26 -1.1  
FTC 0.67 329 P 28 59.56 -1.0  
DBM 0.68 8 P 28 59.88 -0.9  
SS2 0.81 96 P 29 02.01 -1.0  
ABL 0.83 312 iPe 29 02.07 -1.3  
BMT 0.84 353 P 29 02.44 -1.0  
SND 0.85 9 P 29 02.86 -0.8  
HYS 0.93 53 P 29 03.99 -1.0  
TEL 0.94 349 P 29 04.42 -0.8  
MARC 1.00 315 P 29 05.42 -0.8  
LPC 1.05 281 P 29 05.75 -1.3  
DTP 1.09 28 P 29 06.77 -1.0  
PEC 1.16 110 ePd 29 07.63 -1.3  
TMB 1.18 312 P 29 08.65 -0.6  
PKM 1.26 298 P 29 09.47 -1.3  
MLL 1.29 99 P 29 10.86 -0.3  
ISA 1.36 360 eP 29 11.18 -1.0  
eS 29 28.50

WORM 1.40 8 P 29 11.94 -0.9  
WWPM 1.46 12 P 29 12.61 -1.2  
XMS 1.52 37 P 29 13.51 -1.1  
WSHM 1.55 31 P 29 13.39 -1.6  
RMR 1.57 93 P 29 15.14 -0.2  
BCH 1.59 304 eP 29 14.59 -1.0  
NMC 1.61 17 P 29 17.69 1.9  
WCHM 1.61 12 P 29 15.07 -1.0  
TOW 1.61 21 P 29 15.06 -0.7  
PLM 1.64 125 eP 29 14.48 -1.9  
YEG 1.67 313 P 29 15.53 -1.1  
WLHM 1.85 4 P 29 18.79 -0.8  
PTRM 1.97 314 P 29 20.09 -0.9  
TPC 2.02 95 P 29 20.45 -1.3  
PAGM 2.04 315 P 29 22.87 0.8  
PMRM 2.07 316 P 29 24.07 1.6  
PMCM 2.11 313 P 29 21.60 -1.4  
PHAM 2.20 315 eP 29 22.53 -1.8  
PKEM 2.21 323 eP 29 23.50 -1.0  
PSTM 2.33 315 P 29 24.84 -1.4  
PHBM 2.35 326 P 29 27.69 1.3  
PADM 2.38 305 P 29 24.29 -2.6  
PANM 2.48 307 P 29 26.07 -2.3  
PTV 2.58 315 P 29 32.18 2.5  
PSAM 2.62 312 P 29 27.77 -2.6  
PAPM 2.86 305 P 29 31.62 -2.2  
BHPR 2.99 360 P 29 41.38 5.6  
MTUM 3.05 359 ePn 29 36.36 -0.1  
ePg 29 42.64  
TPNV 3.20 34 eP 29 37.54 -1.1  
GLA 3.28 111 ePn 29 39.99 0.2

ORC 3.33 357 P 29 47.63 7.0  
MMPM 3.33 352 ePn 29 41.34 0.6  
ePg 29 46.50  
MRCM 3.36 360 ePn 29 39.57 -1.5  
ePg 29 47.77  
MEMM 3.38 354 ePn 29 40.82 -0.2  
BPRM 3.39 309 P 29 38.91 -2.4  
SAO 3.45 316 ePn 29 39.63 -2.5  
LTR 3.46 319 P 29 44.54 2.3  
BONR 3.65 2 ePn 29 45.74 0.6  
ePg 29 53.24  
TNP 3.91 15 ePn 29 47.96 -0.8  
ePg 29 58.75  
ARN 3.93 322 ePn 29 47.34 -1.6  
COE 3.93 319 ePn 29 47.45 -1.5  
JRG 3.94 315 P 29 46.00 -3.0  
CMB 4.03 338 eP 29 48.91 -1.5  
KVN 4.75 3 ePn 29 59.56 -1.2  
ePg 30 13.46  
NTYM 5.30 322 (P) 30 07.77 -0.5  
ARUT 5.36 48 ePn 30 08.63 -0.7  
ePg 30 24.89  
MSU 6.59 49 ePn 30 26.72 0.0  
DUG 7.41 36 ePn 30 38.72 0.6  
ePg 31 04.33  
SRU 7.98 51 ePn 30 46.13 -0.1  
PVO9 8.61 58 ePn 30 54.77 -0.3  
PV10 8.63 59 ePn 30 54.11 -1.2  
ALQ 9.92 83 (Pn) 31 12.58 -0.5  
RTRS 79.06 138 iPd 40 56.00 2.9  
75 obs. associated

& JAN 26, 1994 12h 42m 49.36± 0.73s  
40.609 N ± 6.7km 28.732 E ± 5.6km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 3.0 (ISK).

YLV 0.49 95 iPg 42 59.70 0.4  
iSg 43 06.70  
ISK 0.52 28 iPg 43 00.40 0.5  
iSg 43 06.90  
GBZT 0.57 71 ePg 43 00.70 -0.2  
iSg 43 08.80  
IZI 0.63 115 iPg 43 01.90 -0.1  
iSg 43 09.90  
EDC 0.71 249 iPg 43 03.00 -0.4  
iSg 43 14.00  
HRT 0.74 73 iPg 43 03.70 -0.3  
iSg 43 15.20  
DST 1.01 185 iPg 43 09.00 0.6  
EYL 1.09 92 iPg 43 09.40 -0.5  
eSg 43 24.90

S.D. = 0.5 on 8 of 8 obs.  
& JAN 26, 1994 13h 18m 15.08± 0.98s  
40.817 N ± 7.6km 29.503 E ± 8.2km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.5 (ISK).

GBZT 0.05 237 ePg 18 16.20 -1.1  
iSg 18 17.10  
HRT 0.13 88 iPg 18 18.20 0.0  
YLV 0.27 202 ePg 18 21.20 0.4  
ISK 0.42 307 ePg 18 24.00 0.4  
eSg 18 31.20  
IZI 0.48 183 ePg 18 24.90 0.0  
eSg 18 31.90

S.D. = 0.8 on 5 of 5 obs.  
? JAN 26, 1994 13h 42m 49.24± 5.20s  
42.577 N ± 46.6km 24.032 E ± 11.3km  
DEPTH = 5.0km (geophysicist)  
BULGARIA (359)  
ML 2.9 (THE).

SRS 1.50 193 ePb 43 16.50 -0.3  
eSb 43 37.20  
KNT 1.65 211 ePb 43 19.10 0.1  
eSb 43 41.74  
VAY 1.66 221 iPn 43 18.40 -0.7  
SOH 1.83 196 ePb 43 22.30 0.7  
GRG 2.03 218 ePn 43 25.10 0.6  
eSn 43 52.50  
ALN 2.26 137 ePn 43 27.82 0.1  
eSn 43 57.50

PAIG 2.66 186 ePn 43 33.00 -0.5  
S.D. = 0.7 on 7 of 7 obs.  
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& JAN 26, 1994 13h 53m 23.27s  
34.180 N 118.626 W  
DEPTH = 4.0km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

TPRS 0.10 160 P 53 25.57 0.2  
FIL 0.30 325 P 53 29.78 0.5  
ECF 0.47 306 P 53 33.36 0.6  
LHU 0.52 20 P 53 33.08 -0.6  
PEM 0.63 91 P 53 34.79 -1.0  
CIW 0.72 175 P 53 36.88 -0.7  
LJB 0.76 57 P 53 37.02 -1.5  
SSK 0.77 87 eP 53 37.40 -1.4  
eS 53 48.56  
DBM 0.83 15 P 53 38.70 -1.1  
ABL 0.83 324 eP 53 38.21 -1.6  
TJR 0.85 354 P 53 38.91 -1.3  
ARVC 0.96 350 P 53 40.99 -1.1  
CSP 1.06 83 P 53 42.61 -1.2  
HYS 1.11 52 P 53 43.52 -1.2  
PEC 1.25 103 eP 53 44.85 -2.2  
eS 54 02.30  
DTP 1.26 30 P 53 45.99 -1.3  
HOD 1.32 60 P 53 47.09 -1.1  
CRGC 1.39 320 P 53 49.10 -0.5  
ISA 1.49 5 eP 53 49.18 -1.7  
SCCM 1.48 301 P 53 50.00 -0.8  
RAY 1.51 95 P 53 52.52 1.1  
BCH 1.56 310 eP 53 50.42 -1.6  
PLM 1.69 119 eP 53 51.58 -2.2  
XMS 1.70 38 P 53 55.06 1.2  
GSC 1.87 53 eP 53 54.76 -1.7  
eS 54 22.83  
YAO 2.15 117 P 54 01.82 1.4  
PHAM 2.20 319 (P) 53 59.28 -1.9  
MTUM 3.17 1 (Pn) 54 13.18 -1.8  
TPNV 3.37 34 ePn 54 16.20 -1.8  
MMPM 3.44 355 ePg 54 25.42 6.4  
30 obs. associated

& JAN 26, 1994 14h 44m 00.78s  
37.511 N 118.757 W  
DEPTH = 6.8km  
CALIFORNIA-NEVADA BORDER REGION (40)  
<GM-P>. MD 2.8 (GM).

MEMM 0.21 317 eP 44 05.43 0.2  
MTUM 0.22 136 iPd 44 05.22 -0.2  
MMPM 0.24 295 iPe 44 05.62 -0.2  
MRCM 0.26 51 iPe 44 05.95 -0.2  
BONR 0.57 39 iPe 44 11.92 -0.4  
TNP 1.35 64 eP 44 25.33 -0.7  
CMB 1.39 293 iPe 44 26.19 -0.5  
ISA 1.86 173 eP 44 34.36 1.0  
TPNV 2.08 105 eP 44 35.39 -1.3  
ARN 2.22 267 eP 44 39.71 1.2  
10 obs. associated

& JAN 26, 1994 15h 02m 41.64± 0.83s  
39.637 N ± 7.1km 29.429 E ± 7.5km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.7 (ISK).

DST 0.62 267 ePg 02 54.10 -0.1  
eSg 03 05.10  
IZI 0.70 3 iPg 02 54.80 -0.7  
iSg 03 05.80  
ALT 0.79 138 ePg 02 57.10 0.1  
YLV 0.93 357 ePn 03 00.50 1.1  
EYL 1.08 31 ePn 03 01.80 -0.3  
EDC 1.40 301 ePn 03 07.00 -0.1  
S.D. = 0.8 on 6 of 6 obs.

\* JAN 26, 1994 15h 28m 31.35± 2.20s  
51.477 N ± 21.9km 15.863 E ± 10.8km  
DEPTH = 10.0km (geophysicist)  
POLAND (548)

BRG 1.35 244 iPg 28 57.20 1.0  
iSg 29 18.10  
PRU 1.71 210 Pn 29 01.20 -0.2  
0.3s 152.00nm



26d 15h

		Pg	29 02.90	
		i	29 06.30	
		Sn	29 19.40	
		Sg	29 26.70	
CLL	1.80 266	iPn	29 01.70	-0.9
		iPg	29 05.70	
		iSg	29 32.70	
OKC	2.19 138	eP	29 08.50	0.2
		(Pg)	29 10.20	
		Sg	29 36.70	
KHC	2.77 213	Pn	29 16.00	-0.6
		e	29 20.50	
		e	29 29.00	
		eSn	29 48.50	
		eSg	30 00.00	
		e	30 05.00	
HOF	2.78 247	eP	29 16.50	-0.2
MOX	2.81 254	ePn	29 17.80	0.7
		iPg	29 25.30	
		iSg	30 05.20	
ZST	3.38 166	eP	30 02.20	37.0X
		e	30 12.40	
GRF	3.46 241	ePg	29 38.80	12.5X
		eSg	30 25.00	

S.D. = 0.8 on 7 of 9 obs.

& JAN 26, 1994 16h 07m 03.07s  
34.372 N 118.626 W  
DEPTH = 15.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).

FIL	0.18 287	P	07 07.53	-0.1
LHU	0.35 31	P	07 09.86	-0.6
ECF	0.39 283	P	07 11.39	0.1
LRRC	0.52 73	P	07 13.14	-0.2
TPO	0.60 33	P	07 14.56	-0.3
TJR	0.66 352	P	07 15.28	-0.5
LJB	0.68 71	P	07 15.69	-0.4
ABL	0.68 314	eP	07 15.44	-0.9
ARVC	0.77 348	P	07 17.43	-0.2
SSK	0.79 102	eP	07 18.01	-0.1
CIW	0.91 176	P	07 19.51	-0.4
HYS	1.00 60	P	07 21.84	0.2
CSP	1.05 94	P	07 23.06	0.5
WHVM	1.14 4	P	07 23.89	-0.1
CRGC	1.25 314	P	07 25.87	-0.1
ISA	1.29 6	eP	07 26.29	-0.2
PEC	1.31 111	eP	07 25.76	-0.9
BTL	1.35 94	P	07 27.94	0.4
WWPM	1.43 18	P	07 29.19	0.7
BCH	1.45 304	eP	07 28.43	-0.3
WSCM	1.46 24	P	07 30.30	1.4
SRTC	1.50 28	P	07 31.92	2.5
VFEM	1.71 23	P	07 35.27	2.8
GSC	1.76 58	eP	07 31.97	-1.3
FLM	1.79 124	eP	07 33.22	-0.4
FRGC	2.22 105	P	07 43.18	3.4
CBKC	2.47 126	P	07 40.29	-3.0
MTUM	2.98 1	(Pn)	07 52.31	1.7
TPNV	3.22 36	ePn	07 54.63	0.5
MMPM	3.25 354	(Pn)	07 55.23	0.5
MEMM	3.30 356	ePg	08 04.64	9.6

31 obs. associated

% JAN 26, 1994 16h 10m 04.94± 0.72s  
37.723 N ± 6.7km 3.201 W ± 6.7km  
DEPTH = 10.0km (geophysicist)  
SPAIN (377)  
mbLg 2.6 (MDD).

EHUE	0.49 79	ePg	10 14.70	-0.2
		eSg	10 21.80	
ECOG	0.53 213	ePg	10 15.00	-0.7
		eSg	10 22.20	
EBAN	0.64 314	iPg	10 17.10	-0.7
		eSg	10 26.00	
EGUA	0.93 198	ePg	10 23.30	0.5
		eSg	10 36.00	
EVIA	1.07 31	ePg	10 25.40	0.3
		eSg	10 39.20	
EHOR	1.63 274	eP	10 34.50	0.8
		eS	10 55.80	

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

% JAN 26, 1994 16h 12m 12.54± 0.57s  
10.444 N ± 8.4km 67.611 W ± 4.5km

DEPTH = 10.0km (geophysicist)  
NEAR COAST OF VENEZUELA (97)

GUAC	0.42 127	iP	12 21.20	0.1
		eS	12 26.60	
CAR	0.68 85	eP	12 25.90	-0.1
		eS	12 35.30	
LLAV	0.79 88	iP	12 27.90	-0.1
		iS	12 39.40	
MORO	0.81 302	iP	12 27.50	-0.9
		eS	12 38.60	
OLLA	0.90 118	iP	12 30.10	0.2
		eS	12 43.80	
CANV	1.33 296	eP	12 38.10	0.9
CEOS	1.57 207	iP	12 40.30	-0.3
		eS	13 00.70	
GUAN	1.99 104	eP	12 48.40	1.6X
		eS	13 18.80	
TOV	2.24 253	ePn	12 50.50	0.1
		eSn	13 21.40	
SDV	3.36 243	ePn	13 09.70	3.4X
		eSn	13 56.50	

S.D. = 0.6 on 8 of 10 obs.

JAN 26, 1994 16h 16m 45.10± 0.81s  
36.652 N ± 7.3km 2.845 W ± 5.8km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 3.7 (MDD). Felt (IV) in the  
Adra area, Spain.

ENIJ	0.60 58	iPg	16 55.78	-1.5
		eSg	17 04.10	
EGUA	0.61 288	iPg	16 56.10	-1.2
		eSg	17 05.20	
ECOG	0.85 317	iPg	17 01.38	-0.2
		eSg	17 11.70	
EHUE	1.18 10	ePg	17 07.67	0.5
		eSg	17 22.80	
MAL	1.26 274	eP	17 07.00	-1.5
		eS	17 24.50	
EMAL	1.28 275	ePg	17 06.66	-2.1X
		eSg	17 22.60	
EMEL	1.35 184	ePn	17 10.33	0.4
		eSn	17 27.50	
ELUQ	1.45 309	ePn	17 12.93	1.5
		eSn	17 30.70	
EALH	1.66 43	iPd	17 13.20	-1.1
		eS	17 38.00	
EBAN	1.69 334	iPnd	17 16.19	1.4
		eSn	17 37.10	
EPRU	1.94 280	iPnc	17 19.61	1.1
		eSn	17 43.40	
EVIA	2.00 8	iPnd	17 21.52	2.1
		eSn	17 46.30	
LIJA	2.08 278	eP	17 26.00	5.5X
EJIF	2.12 265	eP	17 21.50	0.4
		eS	17 48.80	
ALJ	2.22 271	eP	17 28.00	5.4X
EHOR	2.25 302	iPc	17 22.11	-0.7
		e	17 51.80	
MOMI	2.34 263	eP	17 26.00	1.8
PLAT	2.41 258	eP	17 28.00	2.8X
GIBL	2.50 275	eP	17 42.00	15.5X
PAB	3.12 338	ePn	17 36.50	1.2
		ePg	17 45.30	
		iSn	18 27.00	
EVIA	3.25 288	iPnd	17 36.93	-0.3
		eSn	18 15.60	
ECHE	3.29 26	ePn	17 38.18	0.5
GUD	4.11 346	ePn	18 01.40	11.9X
		eSn	18 49.00	
ETOR	4.21 8	ePn	17 50.73	0.0
		eSn	18 36.30	
EPLA	4.25 324	ePn	17 51.16	-0.2
		eSn	18 39.40	
MOE	4.75 295	eP	17 57.00	-1.5
		eSn	18 50.00	
		iSg	19 15.50	
MTE	5.25 317	eP	18 04.50	-1.0
		eSn	19 03.00	
		iSg	19 28.00	
MVO	5.56 325	eP	18 08.50	-1.5
		eSn	19 10.10	
		eSg	19 39.60	

S.D. = 1.2 on 22 of 28 obs.

& JAN 26, 1994 16h 20m 31.01s  
34.237 N 118.603 W

DEPTH = 1.8km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SADC	0.16 198	P	20 34.30	0.0
ECF	0.46 299	P	20 41.04	0.8
LHU	0.46 20	P	20 39.77	-0.5
CJV	0.48 52	P	20 40.02	-0.6
STTC	0.56 12	P	20 42.11	-0.1
LOK	0.63 320	P	20 43.52	-0.1
LJB	0.72 60	P	20 44.08	-1.3
SSK	0.75 92	iPc	20 45.11	-1.0
		eS	20 55.86	
DBM	0.77 15	P	20 45.49	-0.8
ABL	0.80 320	eP	20 46.12	-0.8
		eS	20 58.80	
TJR	0.80 352	P	20 45.91	-1.0
BMT	0.90 0	P	20 47.56	-1.5
ARVC	0.91 348	P	20 48.54	-0.6
CSP	1.03 86	P	20 50.04	-1.3
HYS	1.06 53	P	20 50.41	-1.4
DTP	1.20 31	P	20 53.24	-1.0
PEC	1.25 106	eP	20 53.04	-1.9
HOD	1.27 61	P	20 54.66	-0.7
CRGC	1.36 318	P	20 56.27	-0.8
ISA	1.43 4	eP	20 56.70	-1.3
BCH	1.54 308	eP	20 58.32	-1.4
WWPM	1.55 16	P	21 00.15	0.3
WSHM	1.67 33	P	21 03.02	1.6
RMR	1.68 90	P	21 02.00	0.2
FLM	1.70 121	eP	21 00.01	-2.0
GSC	1.82 54	(P)	21 02.69	-1.0
WLHM	1.93 7	P	21 07.71	2.3
TPNV	3.32 35	(P)	21 23.82	-1.4
BONR	3.72 4	ePg	21 39.87	8.9

29 obs. associated

JAN 26, 1994 16h 43m 50.84± 0.45s  
43.773 N ± 7.0km 16.835 E ± 7.3km  
DEPTH = 33.0km (normal)  
NORTHWESTERN BALKAN REGION (383)  
MD 3.2 (TRI). ML 3.1 (TTG), 3.0  
(ZAG). Felt at Sinj, Croatia.

HVAR	0.66 205	iPg	44 04.70	1.0
		iSg	44 13.10	
BRY	1.52 124	iPg	44 15.72	-0.4
		iSg	44 38.60	
HCY	1.80 137	iPnc	44 19.14	-0.9
		iSn	44 43.96	
NKY	1.85 121	iPnd	44 21.05	0.2
		iSn	44 47.52	
PLE	1.91 103	iPnd	44 23.46	1.6
		iSn	44 51.53	
VBY	2.07 327	ePn	44 23.90	0.0
		iSn	44 53.40	
BDV	2.09 135	iPnc	44 23.34	-0.8
		iSn	44 51.08	
ZAG	2.13 344	iPn	44 24.10	-0.7
		eSn	44 50.50	
PTJ	2.22 344	iPn	44 26.40	0.3
		i(Sn)	44 54.90	
TTG	2.23 126	iPnc	44 25.99	-0.1
		iSn	44 55.69	
RIY	2.35 313	ePn	44 29.10	1.2
IVA	2.41 111	iPnd	44 29.79	0.9
		iSn	45 02.56	
ULC	2.53 135	iPnc	44 29.35	-1.2
		iSn	45 01.79	
PVY	2.58 116	iPnd	44 31.67	0.4
		iSn	45 05.61	
LJU	2.80 325	e(Pn)	44 33.50	-0.7
		eSg	45 21.80	
TRI	2.92 313	e(Pn)	44 41.00	5.0X
		e	45 15.00	
		e(Sg)	45 21.00	
VOY	3.08 318	ePn	44 37.70	-0.6
		eSn	45 18.80	
MDG	121.07 65	iPKPd	02 19.30	-22.6X

S.D. = 0.9 on 16 of 18 obs.

? JAN 26, 1994 16h 51m 07.91± 2.35s  
39.502 N ± 17.4km 28.276 E ± 14.2km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)



ML 2.6 (ISK).

DST	0.29	69	iPg	51	13.40	-0.6
			eSg	51	18.10	
EDC	0.90	340	ePg	51	25.00	-0.2
IZI	1.24	47	ePn	51	31.70	0.7
ALT	1.49	107	ePn	51	35.00	0.1

S.D. = 0.9 on 4 of 4 obs.

& JAN 26, 1994 17h 09m 22.87s  
34.374 N 118.520 W  
DEPTH = 0.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.5 (PAS), 3.7 (GS).

TPRS	0.29	191	P	09	28.56	-0.1
CJV	0.35	63	P	09	29.53	-0.3
FOX	0.43	34	P	09	31.52	0.1
TPO	0.56	25	P	09	33.59	-0.4
FTC	0.58	328	P	09	34.00	-0.5
LOK	0.59	307	P	09	34.27	-0.3
TJR	0.68	344	P	09	35.45	-0.9
SSK	0.70	103	eP	09	35.89	-1.0
RYS	0.74	292	P	09	37.34	-0.3
PLEC	0.75	323	P	09	37.47	-0.3
ABL	0.75	310	eP	09	36.88	-0.9
			eS	09	48.16	
ARVC	0.79	341	P	09	37.84	-0.9
TEJ	0.87	351	P	09	39.56	-0.6
MARC	0.92	313	P	09	40.29	-1.0
WJPM	1.03	2	P	09	41.95	-1.4
DTP	1.05	32	P	09	42.29	-1.3
TMB	1.10	311	P	09	43.60	-0.8
HOD	1.15	66	P	09	44.04	-1.3
PEC	1.23	113	iPc	09	45.00	-1.6
			eS	10	02.36	
BLKC	1.29	56	P	09	46.99	-0.7
ISA	1.29	2	eP	09	46.27	-1.4
			eS	10	05.78	
CRGC	1.32	312	P	09	47.34	-0.8
MDA	1.34	110	P	09	47.36	-1.2
WASM	1.36	359	P	09	48.95	-0.1
SIL	1.40	91	P	09	49.47	-0.2
SCCM	1.47	293	P	09	49.40	-1.3
POB	1.49	117	P	09	49.02	-2.0
BCH	1.52	303	eP	09	50.27	-1.2
WCHM	1.55	14	P	09	52.36	0.3
TOW	1.56	23	P	09	51.30	-0.6
YEG	1.59	312	P	09	51.40	-1.0
RMR	1.62	95	P	09	52.52	-0.4
GSC	1.69	56	ePc	09	52.68	-1.1
RCWM	1.73	24	P	09	53.12	-1.3
CSSM	1.76	20	P	09	56.45	1.6
WLHM	1.78	5	P	09	56.97	1.6
CPM	1.94	96	P	09	59.06	1.6
PAGM	1.96	314	P	09	57.04	-0.7
PMCM	2.03	312	P	09	57.56	-1.2
PHAM	2.12	314	eP	09	57.99	-2.0
WKR	2.18	312	P	10	03.35	2.5
PHBM	2.27	326	P	10	00.63	-1.5
BRGC	2.29	121	P	10	04.38	1.9
PARM	2.39	322	P	10	05.15	1.2
PANM	2.41	306	P	10	01.82	-2.4
PTV	2.50	314	P	10	03.79	-1.7
BMSM	2.94	322	P	10	09.85	-1.9
MTUM	2.97	359	ePn	10	12.05	-0.3
BAPM	3.12	306	P	10	12.92	-1.5
TFNV	3.17	35	ePn	10	13.93	-1.1
MMPM	3.26	353	ePn	10	16.04	-0.4
MRCM	3.29	0	(Pn)	10	16.39	-0.5
MEMM	3.30	354	ePn	10	14.29	-2.5
BPRM	3.31	309	P	10	14.53	-2.6
GLA	3.35	112	ePn	10	17.01	-0.5
SAO	3.37	316	eP	10	15.00	-2.9
BONR	3.58	3	ePn	10	19.77	-1.3
ARN	3.85	321	(P)	10	23.69	-1.0
TNP	3.85	16	ePg	10	34.67	9.9
CMB	3.95	338	eP	10	25.45	-0.7
KVN	4.68	4	P	10	50.80	14.2
ARUT	5.34	49	ePn	10	45.89	-0.1
ORV	5.70	336	ePn	10	47.52	-3.3
MSU	6.57	49	(Pn)	11	02.31	-1.1
DUG	7.38	36	ePg	11	41.72	27.2
PV09	8.61	59	(Pn)	11	29.77	-2.2

66 obs. associated

& JAN 26, 1994 17h 27m 44.34± 0.94s

66.861 N ± 7.0km 13.762 E ± 13.9km  
DEPTH = 10.0km (geophysicist)  
NORTHERN NORWAY (646)  
MD 3.0 (BER).

MOR8	0.74	158	eP	27	57.87	-1.1
			eS	28	07.52	
LOF	1.28	356	eP	28	07.64	-0.4
			eS	28	25.03	
NSS	2.46	198	eP	28	26.89	1.9
			eS	28	55.61	
ARA0	5.13	53	Pn	29	03.20	0.2
			Pg	29	20.55	
			Sn	30	01.15	
			Lg	30	27.72	
NRA0	6.23	190	Pn	29	17.29	-1.2
			Sn	30	25.24	
			Lg	30	58.11	
HFS	6.75	180	eP	29	25.60	-0.3
	0.2s	0.40nm			4.1mb X	
KAF	7.21	125	eP	29	33.00	0.8
NUR	7.99	138	eP	29	40.00	-3.1X
			iS	31	07.40	

S.D. = 1.3 on 7 of 8 obs.

& JAN 26, 1994 17h 38m 47.32s  
34.343 N 118.607 W  
DEPTH = 14.2km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

FIL	0.20	293	P	38	52.18	0.0
SADC	0.27	190	P	38	52.61	-0.6
LEOC	0.38	41	P	38	54.54	-0.9
ECF	0.42	286	P	38	56.06	0.1
LRRC	0.51	69	P	38	57.06	-0.6
LOK	0.55	314	P	38	57.63	-0.7
TPO	0.62	30	P	38	58.88	-0.5
DBM	0.67	18	P	38	59.74	-0.5
ABL	0.72	315	eP	39	00.38	-0.8
SBB	0.73	62	P	39	00.83	-0.5
SSK	0.77	100	iPd	39	01.58	-0.5
BMT	0.79	1	P	39	01.56	-0.8
CIW	0.88	177	P	39	03.36	-0.4
CALC	0.93	35	P	39	04.46	-0.3
HYS	1.00	58	P	39	05.73	-0.2
SME	1.16	116	P	39	07.95	-0.7
WHVM	1.17	4	P	39	08.69	-0.1
PEC	1.28	110	eP	39	10.11	-0.6
ISA	1.32	5	eP	39	11.01	-0.3
BTL	1.33	93	P	39	11.56	-0.1
WWPM	1.45	17	P	39	13.69	0.5
BCH	1.48	305	eP	39	13.73	0.2
WSCM	1.48	23	P	39	14.51	1.0
RMR	1.69	94	P	39	17.89	1.2
PLM	1.76	124	eP	39	17.55	-0.1
GSC	1.76	57	eP	39	17.33	-0.3
TPC	2.13	96	P	39	22.64	-0.4
TPNV	3.23	36	ePn	39	37.93	-0.8
BONR	3.61	4	(P)	39	43.50	-0.8

29 obs. associated

& JAN 26, 1994 17h 59m 41.15s  
34.214 N 118.613 W  
DEPTH = 2.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.0 (PAS), 3.3 (GS).

SADC	0.14	198	P	59	44.02	0.1
FIL	0.28	319	P	59	47.13	0.4
LHU	0.49	20	P	59	50.34	-0.5
LRRC	0.58	57	P	59	52.06	-0.6
LOK	0.64	322	P	59	53.41	-0.6
TPO	0.74	26	P	59	54.90	-0.9
SSK	0.76	90	iPd	59	55.33	-1.1
DBM	0.79	15	P	59	56.02	-0.9
ABL	0.81	322	eP	59	56.18	-1.1
PLEC	0.84	334	P	59	57.75	-0.2
SNDC	0.96	15	P	59	59.34	-0.9
CSP	1.04	85	P	00	00.23	-1.4
SME	1.12	110	P	00	01.25	-1.5
PKM	1.21	305	P	00	03.56	-0.9
PEC	1.25	105	eP	00	03.35	-1.7
			eS	00	20.23	
MDA	1.37	102	P	00	08.36	1.1
CRGC	1.37	319	P	00	06.77	-0.5
ISA	1.45	4	eP	00	08.18	-0.3

SIL	1.49	84	P	00	29.52	
BCH	1.55	309	eP	00	08.84	-1.1
XMS	1.67	38	P	00	12.69	1.2
PLM	1.69	120	eP	00	10.28	-1.7
CLC	1.80	27	P	00	14.52	1.0
GSC	1.84	53	eP	00	13.88	-0.2
			eS	00	43.09	
COY	2.10	113	P	00	17.21	-0.5
PHAM	2.18	318	(P)	00	17.81	-1.2
BRGC	2.28	116	P	00	22.07	1.7
CBKC	2.37	123	P	00	22.28	0.6
MTUM	3.13	1	ePn	00	32.94	0.3
			ePg	00	38.90	
TPNV	3.34	35	ePn	00	35.24	-0.3
			ePg	00	43.54	
GLA	3.36	109	eP	00	34.97	-0.8
MMPM	3.41	354	ePn	00	36.39	-0.3
MEMM	3.46	356	(Pn)	00	37.46	0.5
			ePg	00	44.86	
BONR	3.74	4	ePn	00	41.74	0.3

34 obs. associated

& JAN 26, 1994 18h 21m 44.59± 2.17s  
32.602 N ± 11.9km 35.626 E ± 24.4km  
DEPTH = 10.0km (geophysicist)  
DEAD SEA REGION (373)

SHMJ	0.17	43	Pd	21	48.43	0.0
SALJ	0.59	175	Pc	21	56.35	-0.3
KFNJ	0.74	177	Pd	21	59.21	0.2
MASJ	0.87	175	Pc	22	01.29	-0.1
MKRJ	1.05	179	Pc	22	04.61	0.2
QTFJ	1.75	116	Pc	22	15.32	0.1

S.D. = 0.2 on 6 of 6 obs.

& JAN 26, 1994 18h 36m 17.88± 0.90s  
36.573 N ± 7.4km 2.843 W ± 7.8km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 3.3 (MDD). Felt (III) in the Adra area, Spain.

EGUA	0.64	294	iPg	36	29.74	-0.9
			eSg	36	38.80	
ENIJ	0.65	52	iPg	36	30.30	-0.6
			eSg	36	39.70	
ECOG	0.91	321	iPg	36	34.92	-0.5
			eSg	36	46.60	
ELOJ	1.20	299	iPc	36	41.19	0.9
			e			



26d 19h

ARUT 4.06 83 eP 07 24.41 6.7  
10 obs. associated

& JAN 26, 1994 19h 15m 02.64s  
37.436 N 118.539 W  
DEPTH = 12.5km  
CALIFORNIA-NEVADA BORDER REGION ( 40)  
<GM-P>. MD 2.9 (GM).

BHPR	0.14	163	P	15	06.21	-0.3
CWCR	0.19	72	P	15	07.01	-0.3
HTCR	0.21	297	P	15	07.34	-0.3
ORC	0.22	335	P	15	07.49	-0.3
CLKR	0.27	304	P	15	08.52	-0.2
MEMM	0.39	306	iPc	15	10.63	-0.2
MMPM	0.43	294	iPc	15	10.95	-0.6
BONR	0.55	20	iPd	15	13.51	-0.4
TNP	1.23	58	eP	15	26.05	0.6
			eS	15	42.59	
WLHM	1.29	172	P	15	26.44	-0.2
MSTM	1.55	288	P	15	30.76	0.7
CMB	1.58	293	eP	15	31.04	0.5
			eS	15	51.78	
VPEN	1.59	158	P	15	32.56	1.8
WCHM	1.59	166	P	15	31.93	1.0
RCWM	1.65	154	P	15	33.70	2.2
NMC	1.67	162	P	15	33.29	1.5
WASM	1.69	180	P	15	33.72	1.4
TOW	1.74	159	P	15	35.31	2.5
TENV	1.89	104	eP	15	37.33	2.2
BRMM	1.92	252	P	15	37.97	2.6
WBSM	1.92	170	P	15	37.88	2.3
BMSM	1.96	247	P	15	30.01	-6.1
WSHM	1.99	155	P	15	40.24	3.8
WJPM	2.02	179	P	15	39.34	2.4
BLRM	2.32	251	P	15	37.43	-3.7

25 obs. associated

\* JAN 26, 1994 19h 52m 10.57± 0.75s  
26.416 S ± 6.4km 27.343 E ± 7.7km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.8 (PRE).

PRY	0.52	167	eP	52	20.00	-1.1
			S	52	26.40	
KSR	0.68	324	eP	52	23.50	-0.7
			S	52	32.50	
SLR	1.08	51	eP	52	31.30	-0.2
			S	52	44.50	
SEK	1.92	173	eP	52	44.70	0.4
			S	53	07.50	
SWZ	1.96	247	eP	52	45.80	0.9
			S	53	09.50	
BFT	2.53	74	eP	52	54.00	0.7
			S	53	25.00	
BLF	2.87	201	eP	53	04.00	6.0X
			S	53	39.00	

S.D. = 1.0 on 6 of 7 obs.

\* JAN 26, 1994 19h 55m 10.44± 1.37s  
40.525 N ± 6.4km 23.727 E ± 14.6km  
DEPTH = 10.0km (geophysicist)  
GREECE (364)  
ML 1.7 (THE).

SOH	0.41	316	ePg	55	18.30	-0.5
PAIG	0.60	183	ePg	55	22.28	-0.2
SRS	0.60	350	iPg	55	22.92	0.3
			eSg	55	30.56	
KNT	0.89	316	ePg	55	27.64	0.0
			eSg	55	39.68	
LIT	1.04	246	ePg	55	30.40	0.4

S.D. = 0.6 on 5 of 5 obs.

\* JAN 26, 1994 21h 33m 20.22± 0.95s  
21.581 S ± 9.4km 66.744 W ± 13.7km  
DEPTH = 203.7 ± 12.7 km  
4.3mb ( 1 obs.)  
SOUTHERN BOLIVIA (125)

CCH	4.21	8	iPd	34	25.50	-0.2
			S	35	19.40	
LPB	5.18	345	iPc	34	42.20	4.1X
	1.0s	364.00nm			5.5mb X	
			S	35	44.00	
LPAZ	5.43	346	iPc	34	44.80	3.3X

ARE	6.79	318	iPc	34	59.10	0.3
			eS	36	11.50	
CFA	10.07	187	e(P)	35	41.20	-0.1
VAO	18.36	98	eP	37	22.40	0.2
UYO	61.39	334	iPd	43	16.50	-0.4
YKA	91.94	340	P	46	06.30	0.2
	0.6s	2.00nm			4.3mb	
	S.D. = 0.4	on 6 of 8 obs.				

? JAN 26, 1994 21h 35m 21.73± 0.90s  
38.080 N ± 11.2km 21.894 E ± 9.0km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 3.2 (ATH).

VLS	1.03	276	ePb	35	41.50	-0.2
ATH	1.44	94	ePb	35	48.10	-0.4
			eSb	36	06.50	
VLI	1.59	148	iPbc	35	51.00	0.4
			eSb	36	12.50	
KZN	2.23	358	ePn	36	00.20	0.3
VAM	3.25	145	ePb	36	18.30	4.0X
	S.D. = 0.7	on 4 of 5 obs.				

\* JAN 26, 1994 21h 46m 36.44± 3.35s  
40.719 N ± 15.7km 30.169 E ± 23.4km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

EYL	0.15	183	iPg	46	40.00	-0.1
HRT	0.39	285	iPg	46	43.90	-0.6
			iSg	46	49.90	
GBZT	0.55	277	ePg	46	47.70	0.0
			iSg	46	55.30	
YLV	0.62	256	ePg	46	49.40	0.3
			eSg	46	57.90	
IZI	0.65	234	iPg	46	49.50	0.0
			eSg	46	58.50	
ISK	0.91	293	iPg	46	54.20	0.4
			iSg	47	06.50	
	S.D. = 0.5	on 6 of 6 obs.				

JAN 26, 1994 21h 47m 48.90± 0.69s  
19.217 N ± 4.3km 121.150 E ± 6.3km  
DEPTH = 50.3 ± 8.9 km  
4.6mb ( 12 obs.)  
PHILIPPINE ISLANDS REGION (248)

PIP	1.02	210	iPd	48	06.00	-1.1
			iS	48	20.50	
CVP	1.63	157	iPc	48	17.00	1.3
SZP	1.78	202	iPc	48	17.00	-0.8
BCP	2.83	191	eP	48	35.00	2.1
			eS	49	11.00	
BAG	2.84	191	ePc	48	33.00	-0.1
			iS	49	13.00	
QCP	4.55	181	eP	49	37.00	40.0X
QVP	4.57	182	eP	48	02.80	-54.4X
			eS	49	59.00	
TGY	5.09	182	ePd	49	06.00	1.3
			eS	49	33.00	
GQP	5.43	167	eP	49	09.70	0.4
			eS	50	10.00	
PGP	5.69	182	eP	49	13.00	0.0
QZH	6.17	338	eP	49	16.40	-3.3
HKC	7.22	296	iP	49	31.10	-3.3X
			iS	50	47.80	
GZH	8.24	299	P	49	48.20	-0.4
SSE	11.83	0	eP	50	35.00	-2.5
NJ2	12.95	351	Pc	50	51.50	-0.9

	Z	20s	0.59um		4.7Msz	
GYA	15.17	301	P	51	23.00	1.3
KMI	18.03	292	eP	52	14.80	17.0X
XAN	18.34	326	P	52	02.00	0.6
	1.2s	13.00nm			4.0mb	
LOE	18.53	268	eP	52	04.00	0.3
TKSJ	18.66	35	P	52	04.00	-1.2
YONJ	19.28	32	P	52	14.90	2.4
CD2	19.56	310	iPc	52	15.60	0.0
WKYJ	19.71	38	eP	52	17.90	0.8
TIY	19.94	339	Pd	52	20.00	0.5

	Z	19s	1.23um			
TSRJ	20.88	36	eP	52	30.20	1.1
CHTO	21.00	273	eP	52	31.90	1.4
BDT	21.13	268	eP	52	31.00	-0.7

BJI	21.19	349	eP	52	32.00	-0.2
	1.4s	37.00nm			4.5mb	
	Z	16s	0.35um		3.8MszX	
IIDJ	21.95	39	eP	52	41.00	1.1
SNY	22.63	5	Pd	52	46.70	0.1
LZH	22.69	321	Pd	52	48.50	1.1
	1.0s	37.00nm			4.8mb	
MAT	22.86	37	(P)	52	48.00	-0.8
CHJJ	22.98	40	eP	52	49.90	-0.1
HHC	23.07	341	Pc	52	52.00	1.0
	1.0s	10.00nm			4.2mb	

	Z	16s	1.19um		4.4MszX	
BTO	23.35	338	eP	52	54.30	0.6
CN2	24.78	7	eP	53	06.80	-0.5
	0.8s	7.10nm			4.2mb	
		eP		53	17.80	42kmX

MDJ	26.29	14	eP	53	22.50	1.1
OFUJ	26.59	38	eP	53	21.10	-3.1X
GTA	27.28	322	eP	53	31.20	0.5
	1.3s	5.00nm			4.0mb	
SHL	27.75	289	eP	53	36.50	1.3
		eS		58	03.00	
HYB	40.41	275	eP	55	24.00	-0.1
WRA	41.01	161	P	55	24.50	-4.4X
	0.7s	1.00nm			3.7mb	
WB2	41.01	161	eP	55	23.50	-5.4X
	0.3s	10.30nm			5.0mb	

		i		55	28.00	
GBA	42.22	269	P	55	39.00	0.1
ASPA	44.40	163	eP	55	55.60	-1.0
	0.3s	12.10nm			5.1mb	
MRWA	48.41	186	iPc	56	26.60	-1.4
	0.5s	10.00nm			5.1mb	
BAL	49.72	185	eP	56	36.20	-1.9
KLB	50.62	184	iPc	56	43.20	-1.7
	0.3s	6.00nm			5.1mb	
NWAO	51.98	184	iPd	56	53.80	-1.4
YKA	87.54	23	P	00	32.00	-0.4
	0.8s	4.00nm			4.7mb	
	S.D. = 1.3	on 43 of 50 obs.				

\* JAN 26, 1994 21h 54m 18.22± 0.74s  
37.918 N ± 11.0km 104.086 E ± 8.1km  
DEPTH = 33.0km (normal)  
4.4mb ( 2 obs.)  
WESTERN NEI MONGOL, CHINA (323)  
ML 4.1 (BJI).

LZH	1.84	186	iPnc	54	50.00	1.8
			Sg	55	13.00	
GTA	3.66	295	Pn	55	13.00	-1.0
			Pg	55	19.50	
			Sn	55	56.00	
			Sg	56	06.40	
BTO	5.33	58	ePn	55	40.60	3.0X
			Pg	55	56.90	
			Sg	57	04.90	
XAN	5.51	133	Pn	55	39.00	-1.1
			Pg	55	59.00	
			Sn	56	49.00	
			Sg	57	10.00	
HHC	6.49	61	ePn	55	56.00	2.0
			Pg	56	15.80	
			Sg	57	40.50	

TIY	6.61	89	ePn	55	55.00	-0.7
			Pg	56	15.40	
			Sn	57	10.60	
			Sg	57	46.00	
BJI	9.65	74	eP	57	13.50	35.7X
			Lg	59	17.00	
TIA	10.56	95	eP	56	49.90	-0.4
	1.4s	120.00nm			5.9mb X	

WMQ	13.73	301	eP	57	33.20	0.4
WRA	64.20	148	P	04	52.00	0.0
	0.6s	1.30nm			4.2mb	
WB2	64.21	148	eP	04	51.20	-0.9
	0.8s	4.90nm</				



	0.6s	5.75nm				
LPG	146.48	335	iPKPd	55	42.10	0.0



26d 23h

SMF	0.6s	5.50nm	55	41.90	0.0
	146.58	340 ePKP			
	0.5s	5.10nm			
AVF	146.61	340 iPKPd	55	41.70	-0.2
	0.5s	3.00nm			
LPF	146.69	346 iPKPd	55	41.70	-0.3
	0.5s	9.25nm			
BGF	146.98	341 iPKPd	55	42.70	0.2
	0.7s	10.05nm			
TCF	147.42	341 iPKPd	55	43.80	0.6
	0.8s	9.40nm			
LSF	147.66	342 iPKPd	55	44.10	0.5
	0.5s	5.90nm			
MFF	147.81	344 iPKPd	55	44.70	0.9
	0.6s	8.20nm			
LPO	149.18	341 iPKPd	55	48.50	2.5X
	0.5s	5.90nm			

S.D. = 0.8 on 34 of 42 obs.

JAN 26, 1994 23h 50m 21.33 ± 0.40s  
 11.494 N ± 3.4km 61.869 W ± 6.3km  
 DEPTH = 22.4 ± 5.1 km

WINDWARD ISLANDS (95)

TCE	0.80	172 eP	50	36.47	0.0
		eS	50	47.00	
TRN	0.96	151 eP	50	38.47	-0.7
		eS	50	51.69	
TPP	1.24	161 eP	50	43.81	0.5
		eS	50	58.30	
TBH	1.28	142 eP	50	44.08	0.2
		eS	51	00.35	
SVB	1.87	19 eP	50	52.79	0.4
		eS	51	16.43	
SVV	1.92	19 eP	50	53.40	0.2
		eS	51	16.43	
SLB	2.45	19 eP	51	01.18	0.3
		eS	51	30.42	
PCR	3.02	245 eP	51	08.90	0.1
		eS	51	48.80	
BIM	3.10	14 eP	51	09.80	-0.3
		S	51	47.70	
MVM	3.19	17 eP	51	11.30	0.1
FDF	3.30	12 eP	51	12.10	-0.7
		S	51	49.70	
GUAN	4.01	248 eP	51	23.00	-0.1
		eS	52	09.60	

S.D. = 0.4 on 12 of 12 obs.

JAN 27, 1994 00h 18m 05.45 ± 0.24s  
 21.715 S ± 7.3km 173.937 W ± 3.5km  
 DEPTH = 33.0km (normal)  
 5.4mb (44 obs.) 5.0Msz (1 obs.)

TONGA ISLANDS (173)

AFI	8.03	15 eP	19	54.00	-8.8X
		eS	21	16.00	
VUN	8.05	296 iPc	20	02.20	-0.8
MBU	8.38	303 ePc	20	05.80	-1.9
SGE	8.70	297 iP	20	13.30	1.2
DZM	18.21	265 iPc	22	18.60	1.1
AFR	23.12	84 iPd	23	09.00	-0.7
	1.2s	358.20nm			5.7mb
PAE	23.28	84 iPd	23	10.70	-0.5
	1.1s	272.50nm			5.7mb
PPT	23.30	84 iPd	23	10.90	-0.5
	1.5s	693.60nm			5.9mb
PPN	23.44	84 iPd	23	12.20	-0.6
	1.0s	130.80nm			5.4mb
TVO	23.55	85 iPd	23	13.50	-0.4
	1.1s	386.80nm			5.8mb
PMO	25.58	79 iPd	23	31.20	-2.1
	1.2s	260.60nm			5.7mb
VAH	25.75	80 iPd	23	32.80	-2.1
	1.1s	138.20nm			5.5mb
TPT	25.84	79 iPd	23	33.60	-2.1
	1.3s	297.50nm			5.7mb
RUV	25.99	80 iPd	23	35.10	-2.0
	1.1s	116.70nm			5.4mb
ARMA	32.02	247 iPd	24	30.00	-1.4
	0.7s	27.00nm			5.3mb
CNB	34.77	239 eP	24	55.30	0.2
TOO	38.32	236 eP	25	25.00	0.1
STK	40.72	246 eP	25	43.80	-1.1
	1.0s	18.10nm			4.8mb
ASPA	47.95	257 iPc	26	40.40	-2.7
	1.0s	89.00nm			5.7mb

Z	17s	1.20um	4.9MszX
WRA	48.19	262 P	33 34.10
	0.8s	13.40nm	5.0mb
WARB	54.09	253 iPc	27 22.20
	1.0s	91.00nm	5.8mb
KLB	60.98	245 eP	28 17.50
MBL	61.19	257 eP	28 12.20
	0.8s	23.00nm	5.4mb
BAL	62.03	246 eP	28 25.00
MRWA	62.89	247 eP	28 30.00
	0.7s	22.00nm	5.4mb
CTB	67.09	288 iPd	28 57.00
MAP	68.72	291 iPd	29 07.00
WKYJ	73.47	318 P	29 35.20
MAT	73.47	321 iPc	29 34.40
TKSJ	74.28	317 P	29 40.30
KUSJ	74.88	330 eP	29 42.90
YONJ	75.43	318 P	29 47.10
BCH	76.21	43 eP	29 51.97
ABL	76.55	44 eP	29 54.50
ASAJ	76.63	329 eP	29 54.30
ARN	76.71	40 ePd	29 55.55
ISA	77.54	43 eP	29 59.89
	1.2s	18.27nm	5.0mb
CMB	77.85	41 eP	30 00.27
	1.4s	33.53nm	5.2mb
ORV	78.17	39 eP	30 03.10
WDC	78.26	37 eP	30 03.74
	1.0s	17.45nm	5.0mb
LGPM	78.32	37 eP	30 04.30
GLA	78.39	47 eP	30 04.88
GSC	78.39	45 eP	30 04.26
MEMM	78.49	42 eP	30 06.24
		e	30 22.72
MTUM	78.53	42 eP	30 06.11
YSS	78.79	331 eP	30 05.00
	1.0s	40.00nm	5.4mb
N	18s	0.50um	
		e	30 17.00
		e	30 17.50
		e	32 57.00
		(S)	39 46.00
BONR	79.07	42 ePd	30 08.99
LBFM	79.13	37 eP	30 08.57
KVN	79.87	41 eP	30 12.83
KLI	80.06	269 eP	30 12.50
		e	32 53.00
TUC	80.80	50 eP	30 18.34
	1.2s	14.32nm	4.8mb
KMOR	81.18	33 P	30 19.34
SSE	81.39	308 Pc	30 20.00
	0.8s	19.00nm	5.2mb
VBEM	81.77	35 P	30 22.39
BMW	81.89	33 eP	30 23.40
VIPM	81.92	35 P	30 23.20
CROR	82.04	35 P	30 23.94
ARUT	82.05	44 eP	30 24.49
SHW	82.20	33 eP	30 25.42
ASR	82.50	34 P	30 26.11
VGB	82.50	35 eP	30 26.49
LOH	82.79	33 eP	30 27.46
STW	82.83	31 P	30 28.50
GMW	82.84	32 eP	30 28.44
JBO	82.97	35 P	30 28.70
FMW	82.98	33 P	30 29.17
RMW	83.27	33 eP	30 30.73
MSU	83.28	44 eP	30 31.68
EBG	83.53	34 P	30 31.95
NJ2	83.59	308 Pd	30 32.50
	1.2s	100.00nm	5.8mb
MCW	83.60	31 P	30 32.00
JCW	83.71	32 P	30 32.54
MDJ	83.72	323 Pc	30 32.50
	1.0s	45.00nm	5.6mb
SVW	83.85	9 eP	30 32.30
SLKM	84.17	12 eP	30 33.15
WTV	84.37	33 P	30 35.65
CRP	84.54	10 eP	30 34.95
LTX	84.56	56 eP	30 37.42
SAW	84.65	34 P	30 36.95
SRU	84.68	44 eP	30 37.95
ALQ	85.25	50 ePd	30 41.02
	1.0s	14.78nm	5.1mb
PV10	85.26	46 eP	30 40.80
PV09	85.26	45 eP	30 41.53
PMR	85.38	12 eP	30 39.41

DPW	85.38	34 eP	30	41.06	0.4
TTA	85.54	8 eP	30	41.57	0.4
	1.3s	26.14nm			5.3mb
CN2	85.60	321 Pc	30	41.00	-0.7
	1.2s	44.00nm			5.6mb
		esP	30	52.50	
PV08	85.63	46 eP	30	43.00	0.5
KLU	85.92	13 eP	30	43.08	0.0
WHN	86.23	305 Pc	30	45.50	0.4
BALM	86.32	15 eP	30	45.44	0.3
TOA	86.42	13 eP	30	46.40	0.9
TIA	86.91	311 eP	30	48.20	-0.2
LRM	87.28	38 eP	30	50.60	0.3
BW06	87.30	42 ePc	30	50.26	-0.2
	0.8s	2.49nm			4.5mb
SNG	88.42	278 eP	30	58.50	2.5X
	1.2s	140.63nm			6.2mb
FBA	88.66	11 eP	30	56.00	-0.1
	1.1s	23.74nm			5.4mb
IMA	88.85	8 ePc	30	57.50	0.3
	0.9s	5.10nm			4.8mb
BJI	89.44	314 eP	31	00.50	0.2
	2.0s	38.00nm			5.3mb
GYA	90.55	298 iPc	31	06.40	0.4
	1.2s	46.00nm			5.7mb
		sP	31	19.60	
TIY	90.93	310 eP	31	08.00	0.6
	Z	18s			5.0Msz
RTCB	90.93	124 ePc	31	10.50	2.7X
LOE	91.24	288 eP	31	10.00	0.9
		e	34	11.00	
RTLL	91.25	124 ePc	31	12.00	2.8X
RSSD	91.43	43 eP	31	09.29	-0.5
	1.3s	12.42nm			5.1mb
XAN	91.90	306 Pc	31	12.50	0.6
	1.4s	42.00nm			5.7mb
NST	92.02	286 eP	31	14.50	1.8
		e	34	16.00	
HHC	92.93	313 P	31	17.00	0.4
	1.0s	18.00nm			5.5mb
KMI	93.29	296 Pd	31	20.00	1.3
	1.2s	40.00nm			5.7mb
		sP	31	31.20	
TUL	93.42	53 iPc	31	19.70	0.9
BDT	93.60	287 eP	31	20.20	0.3
	1.0s	44.90nm			5.9mb
BTO	93.88	312 eP	31	21.00	0.0
CHTO	94.22	288 eP	31	24.00	1.2
CD2	94.65	301 eP	31	27.30	2.7X
YAK	94.66	337 eP	31	23.00	-0.9
	1.0s	30.00nm			5.7mb
YKA	96.06	24 eP	31	28.60	-1.7
	1.0s	2.30nm			4.6mb
LZH	96.53	306 eP	31	34.50	1.2
	2.0s	46.00nm			5.6mb
LPB	98.01	111 eP	31	39.00	-1.7
LPZ	98.09	111 P			



UZH	150.17	338	iPKPc	37	55.20	6.2X	GSM	5.94	49	P	23	22.15	0.4	KUSJ	46.86	21	P	36	52.40	-0.6
BRG	150.25	350	ePKP	37	50.60	1.5	JCW	6.51	41	P	23	30.68	0.9	ASAJ	47.05	19	P	36	54.10	-0.4
	1.3s	34.00nm					RPW	6.89	42	P	23	35.06	0.0	NDI	52.66	307	iP	37	36.00	-1.4
BNS	150.79	359	ePKPc	38	03.50	13.6X	S.D. = 0.4 on 21 of 21 obs.							WMQ	54.07	328	P	37	47.20	-0.4
MOX	150.80	353	iPKP	37	58.20	8.2X	JAN 27, 1994 00h 28m 37.22± 0.20s							MAIO	69.31	309	eP	39	29.00	-0.6
	1.8s	41.00nm					0.044 N ± 3.4km 123.598 E ± 6.9km							ANM	81.89	24	eP	40	40.80	1.0
PRU	151.00	349	ePKP	37	57.20	6.9X	DEPTH = 158.7km ( 5 depth phases)							SDN	81.97	34	eP	40	40.13	-0.2
	1.2s	22.20nm					5.1mb ( 32 obs.)								0.5s	38.74nm			5.4mb	
ENN	151.00	0	ePKP	37	59.00	8.8X	MINAHASSA PENINSULA, SULAWESI (265)							SVW	85.50	29	ePc	40	59.30	1.1
	1.0s	23.00nm					MKS	6.66	218	iPd	30	14.00	0.3	TTA	85.58	27	eP	40	59.12	0.5
HOF	151.09	352	ePKP	37	58.90	8.5X	BIP	8.55	18	eP	30	38.50	-0.5		0.7s	3.85nm			4.3mb	
SNF	151.23	2	PKP	37	58.30	7.7X	BGP	13.63	349	eP	31	47.00	1.8	BRW	86.64	19	eP	41	04.77	1.3
PSZ	151.59	340	e(PKP)	37	58.30	7.0X	GQP	13.82	355	ePc	31	50.00	2.4X	IMA	87.00	24	iP	41	06.07	0.5
DOU	151.65	2	PKP	37	58.80	7.6X	TGY	14.22	349	iP	32	00.00	7.3X		0.5s	6.08nm			4.8mb	
GRF	151.78	353	ePKP	38	00.50	9.0X	MTN	14.83	150	iPc	31	57.90	-2.4	SYO	87.92	201	ePc	41	10.70	1.0
		e		38	08.40			0.3s	232.00nm			6.0mb	SLKM	88.07	30	eP	41	09.74	-0.9	
KHC	152.00	349	ePKP	37	54.00	2.1	KNA	16.50	162	iPd	32	15.70	-5.3X	OBN	88.24	325	iPd	41	10.50	-1.0
	1.0s	30.40nm						0.7s	214.00nm			5.6mb		1.2s	31.00nm			5.2mb		
		e		38	00.00		CVP	17.64	354	epd	32	35.00	0.3	TOA	90.07	28	ePc	41	20.70	0.7
		e		38	07.50		MBL	21.39	190	eP	33	12.80	-0.6		0.9s	40.80nm			5.4mb	
		e		38	22.00			0.5s	21.00nm			4.8mb	KLU	90.19	29	eP	41	20.41	-0.2	
		e		38	31.50		QIZ	23.20	325	Pc	33	32.40	1.4	KAF	93.38	332	iP	41	33.20	-2.0
ZST	152.13	344	ePKP	38	00.80	8.8X	ASPA	25.60	158	iPd	33	53.10	-0.5		0.4s	2.10nm			4.7mb	
SRO	152.16	342	ePKP	38	03.80	11.8X		0.5s	71.10nm			5.5mb	HFS	99.77	331	eP	42	01.40	-2.9X	
GEC2	152.25	349	PKP	37	59.40	7.1X			ipP	34	25.30	157km		0.4s	4.20nm			5.3mb		
		e		38	12.60				iPcP	37	21.20		NB2	100.64	333	Pdiff	42	07.20	-1.0	
		e		38	26.60				iScS	44	34.30			0.6s	0.70nm			4.4mb		
		e		46	38.30		QIS	25.78	144	eP	33	55.60	0.4	YKA	104.12	24	ePdiff	42	23.20	-0.3
FLN	152.51	9	ePKP	37	59.70	7.2X			i	33	57.40	6kmX		0.8s	0.60nm			4.6mb		
	1.1s	32.70nm					WARB	26.24	174	iPd	33	59.30	-0.1	LRM	112.95	39	ePKP	47	03.20	5.8X
LDF	152.73	9	ePKP	38	01.00	8.2X		0.8s	65.00nm			5.3mb	ECHE	115.97	315	ePKP	47	04.00	0.8	
	1.2s	36.30nm					MEEK	26.96	190	iPd	34	05.00	-0.9	EVIA	117.45	315	ePKP	47	06.50	0.4
GRR	152.81	10	ePKP	38	01.20	8.3X		0.6s	19.00nm			4.9mb	GUD	117.74	317	ePKP	47	07.50	0.9	
LPF	153.13	11	ePKP	38	02.10	8.7X	BDT	29.64	306	eP	34	29.00	-1.0	ENIJ	117.91	313	iPKPd	47	06.90	0.0
	1.1s	39.30nm						1.0s	75.90nm			5.4mb	EMON	118.47	321	ePKP	47	08.30	0.5	
FUR	153.28	352	ePKP	38	02.10	8.4X	MRWA	29.99	193	iPd	34	32.00	-0.9	EGUA	118.96	313	iPKPd	47	08.60	-0.3
CDF	153.34	358	ePKP	38	02.70	8.9X		0.6s	21.00nm			5.0mb	RSSD	119.00	37	ePKP	47	08.78	-0.2	
	1.4s	46.20nm					CHTO	30.56	309	eP	34	38.60	0.5	ELUQ	119.16	314	iPKPd	47	09.50	0.2
HAU	153.77	360	ePKP	38	02.00	7.6X		1.0s	34.75nm			5.0mb	STS	119.52	321	ePKP	47	10.00	0.3	
	1.3s	31.75nm					GYA	30.92	329	P	34	42.80	1.6	EHOR	119.75	315	ePKP	47	10.80	0.5
BSF	153.94	359	ePKP	38	02.80	8.1X		1.0s	22.00nm			4.8mb	EPRU	120.11	314	iPKPd	47	11.40	0.3	
KBA	154.02	349	iPKPc	38	08.60	13.7X			PcP	37	34.40		KIC	128.06	278	PKPd	47	27.42	0.4	
	1.1s	18.40nm					FORT	30.94	173	iPd	34	40.80	-0.5		0.7s	11.50nm				
WTTA	154.12	351	iPKPc	38	10.40	15.3X		0.5s	58.00nm			5.6mb	TIC	128.31	278	PKPd	47	27.88	0.4	
	1.0s	17.20nm					BAL	31.18	192	iPd	34	42.30	-1.0		0.7s	4.50nm				
LOR	154.44	3	ePKP	38	03.70	8.4X		0.5s	35.00nm			5.4mb	LIC	128.35	278	PKPd	47	28.00	0.4	
	1.2s	26.20nm					KLB	31.95	189	eP	34	49.20	-0.8		0.8s	8.00nm				
SSF	154.63	4	ePKP	38	05.60	10.1X		0.4s	9.00nm			4.9mb	LKO	128.54	282	PKP	47	28.08	0.1	
	1.2s	28.25nm					TKSJ	35.16	15	P	35	16.70	-0.8		0.8s	10.00nm				
LJU	154.77	346	ePKP	37	58.00	2.3X	WKYJ	35.81	17	P	35	22.40	-0.7	LPB	159.96	145	ePKP	48	25.00	5.3X
		e		38	06.00		CD2	36.01	330	eP	35	25.50	0.6	LPAZ	160.14	145	PKP	48	22.60	2.5X
SKO	156.02	331	ePKP	38	15.00	17.4X		1.0s	72.00nm			5.3mb		LR	03	24.00				
LIC	161.23	144	PKP	38	05.43	1.2	STK	36.03	153	eP	35	24.90	0.0	S.D. = 1.0 on 70 of 80 obs.						
	1.3s	20.00nm						0.5s	31.60nm			5.3mb	JAN 27, 1994 02h 27m 35.27± 0.48s							
KIC	161.50	144	PKP	38	05.73	1.2			ePcP	35	58.30		44.575 N ± 3.9km 9.243 E ± 4.1km							
	1.4s	45.00nm					YONJ	36.16	14	P	35	25.50	-0.4	DEPTH = 5.0km (geophysicist)						
TIC	161.58	143	PKP	38	06.47	1.8	XAN	36.51	339	P	35	28.50	-0.5	NORTHERN ITALY (545)						
	0.9s	5.00nm						1.0s	18.00nm			4.7mb	ML 2.7 (GEN), 2.5 (LDG), 2.3							
LKO	163.51	135	PKP	38	07.74	1.2	MAT	38.76	19	iPc	35	45.70	-2.1	(STR).						
	1.3s	12.00nm					TIY	38.87	346	eP	35	48.20	-0.6	PCP	0.50	266	P	27	45.76	0.5
S.D. = 1.0 on 123 of 169 obs.																				
? JAN 27, 1994 00h 21m 51.60±19.24s							LZH	40.29	335	Pd	36	01.50	1.0							
43.488 N ±90.0km 128.372 W ±124.km								2.0s	76.00nm			5.0mb	BORS	0.53	128	P	27	45.83	-0.1	
DEPTH = 10.0km (geophysicist)									pP	36	36.00	157km								
OFF COAST OF OREGON ( 30)							ARMA	40.35	141	iPc	36	02.00	1.0	FIN	0.83	244	P	27	52.30	0.5
								0.5s	19.00nm			5.0mb				S	28	04.08		
									e	36	36.90	159km	SARO	0.92	115	P	27	55.00	1.7	
NLO	4.36	52	P	22	59.43	-0.1	BJI	40.38	351	eP	36	00.00	-0.9				S	28	04.35	
SSOR	4.47	70	P	23	00.75	-0.2		1.2s	21.00nm			4.7mb	ROB	1.02	255	P	27	55.56	0.5	
GT2	4.68	67	P	23	04.19	0.1	BWA	41.42	148	iPd	36	12.40	2.7X				S	28	09.13	
BMW	4.72	49	Pc	23	03.80	-0.7			e	36	48.60	165km	IMI	1.18	236	P	27	57.78	0.0	
RVW	4.81	54	P	23	05.66	-0.1			i	37	35.10					S	28	12.43		
LVP	4.97	57	Pc	23	08.37	0.3	HHC	42.06	346	eP	36	12.20	-2.7X	SAOF	1.35	245	Pg	28	00.21	-0.4
VMM	4.97	63	P	23	08.19	0.1	BTO	42.21	345	eP	36	13.00	-3.1X				Sg	28	18.83	
TDH	5.05																			



27d 02h

MVIF 1.65 246 Pg 28 05.28 0.2  
Sg 28 28.78  
LSD 1.72 302 P 28 08.52 2.2  
RLR 1.79 282 P 28 08.80 1.6  
LPG 1.99 298 Pn 28 11.30 1.0  
LPL 2.01 299 Pn 28 11.70 1.2  
PGF 2.03 185 Pn 28 09.40 -1.3  
Sn 28 32.40  
FRF 2.13 242 Pn 28 11.20 -0.7  
Pg 28 16.70  
Sn 28 38.10  
LMR 2.33 239 Pn 28 14.20 -0.7  
Pg 28 20.70  
Sn 28 41.80  
LRG 2.36 243 Pn 28 15.80 0.5  
Pg 28 21.10  
BSF 3.67 333 Pn 28 34.30 0.2  
Sn 29 15.80  
HAU 3.97 331 Pn 28 37.00 -1.2  
Sn 29 23.50  
CDF 4.07 341 Pn 28 37.50 -2.1  
Sn 29 24.90  
SMF 4.32 301 Pn 28 42.50 -0.6  
Sn 29 32.60  
LOR 4.62 308 Pn 28 47.30 -0.1  
Sn 29 39.80  
AVF 4.68 300 Pn 28 47.80 -0.5  
BGF 4.91 296 Pn 28 51.20 -0.3  
S.D. = 0.9 on 33 of 33 obs.

& JAN 27, 1994 04h 04m 22.76s  
34.285 N 118.454 W  
DEPTH = 9.5km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.9 (GS).

TWL 0.12 267 P 04 25.32 -0.3  
LEOC 0.37 20 P 04 29.54 -0.8  
PYR 0.37 320 P 04 30.18 -0.2  
FOXC 0.48 22 P 04 31.98 -0.6  
STTC 0.50 359 P 04 32.61 -0.3  
TPO 0.62 17 P 04 34.22 -1.1  
SSK 0.63 96 eP 04 34.54 -1.1  
eS 04 43.23  
DBM 0.70 6 P 04 35.72 -0.9  
CIW 0.82 186 P 04 37.77 -0.9  
ABL 0.85 312 eP 04 37.69 -1.6  
CIS 0.88 177 P 04 38.86 -0.8  
HYS 0.93 51 P 04 39.68 -1.0  
SME 1.02 117 P 04 41.04 -1.1  
DTP 1.10 27 P 04 42.58 -1.0  
HOD 1.14 61 P 04 43.45 -0.7  
PEC 1.14 110 eP 04 43.00 -1.2  
eS 04 57.92  
ISA 1.38 359 eP 04 46.96 -1.1  
POB 1.40 115 P 04 47.13 -1.4  
XMS 1.53 36 P 04 49.45 -0.8  
WSHM 1.56 30 P 04 50.02 -0.7  
BCH 1.62 304 eP 04 50.66 -0.9  
NMC 1.62 16 P 04 53.22 1.7  
PLM 1.62 125 eP 04 49.63 -2.0  
CLC 1.68 24 P 04 53.59 1.1  
GSC 1.69 53 eP 04 51.73 -0.9  
TPC 2.00 94 P 04 56.63 -0.5  
SHH 2.32 92 P 05 00.91 -0.9  
GLA 3.27 111 ePn 05 13.59 -1.5  
BONR 3.66 2 (Pn) 05 20.10 -0.9  
ePg 05 29.63

29 obs. associated

? JAN 27, 1994 04h 28m 44.18±5.37s  
40.327 S ±97.2km 91.188 W ±24.1km  
DEPTH = 10.0km (geophysicist)  
4.9mb (1 obs.)

WEST CHILE RISE (686)

ARE 29.29 41 e(P) 34 50.00 0.8  
NNA 30.93 28 eP 35 03.30 -0.2  
1.0s 16.00nm 4.9mb  
LPB 31.03 47 P 35 05.00 0.2  
LR 40 26.00  
LPAZ 31.21 47 P 35 05.50 -1.1  
LR 40 04.00  
CCH 31.49 51 eP 35 09.00 0.3  
UYO 74.18 357 iPc 40 22.20 -0.3  
TUL 75.98 356 iPd 40 33.10 0.3  
LRM 87.85 345 eP 41 40.70 5.9X

GBA 151.57 156 PKP 48 40.00 6.1X  
S.D. = 0.8 on 7 of 9 obs.  
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JAN 27, 1994 04h 37m 14.44±0.32s  
33.409 N ± 4.6km 92.223 E ± 4.4km  
DEPTH = 33.0km (normal)  
4.8mb (32 obs.) 4.8MsZ (2 obs.)  
QINGHAI, CHINA (325)  
ML 4.7 (BJI).  
LSA 3.81 194 Pnd 38 15.60 3.0  
Pg 38 23.60  
GTA 8.56 43 P 39 19.50 0.3  
1.4s 70.00nm 5.6mb  
Z 16s 11.10um 5.0MsZ  
LZH 9.93 71 eP 39 36.00 -2.1  
Z 10s 13.40um  
N 10s 36.00um  
CD2 10.09 101 eP 39 40.80 0.6  
Z 12s 16.10um  
E 10s 16.00um  
S 41 37.00  
WMQ 10.98 343 P 39 51.00 -1.3  
1.0s 9.20nm 4.9mb  
Z 10s 7.93um 4.1MsZ  
E 10s 19.80um  
PP 39 59.40  
S 41 51.00  
SS 42 04.50  
PcP 45 52.00  
ScP 49 20.00  
PcS 49 22.00  
eScS 52 54.00  
KMI 12.34 129 Pc 40 07.50 -3.4X  
1.0s 20.00nm 5.2mb  
sP 40 20.00  
NDI 13.70 254 eP 40 21.00 -7.6X  
eS 44 40.00  
XAN 13.92 83 P 40 30.50 -1.1  
1.0s 18.00nm 4.8mb  
Z 20s 9.70um 4.4MsZ  
pP 40 36.00  
S 43 08.00  
GYA 14.30 115 iPc 40 34.00 -2.7X  
1.0s 13.00nm 4.5mb  
Z 12s 7.50um 4.3MsZ  
N 11s 13.80um  
E 11s 6.91um  
PP 40 45.00  
S 43 12.00  
SS 43 24.00  
SS 43 38.00  
KSH 14.39 299 P 40 37.00 -0.9  
1.2s 40.00nm 4.9mb  
Z 20s 11.10um 4.4MsZ  
N 10s 14.20um  
E 10s 14.60um  
pP 40 44.00  
PP 40 47.00  
SS 43 30.00  
CHTO 15.73 156 eP 40 54.20 -1.0  
BTO 15.91 58 eP 40 57.00 -0.5  
N 13s 9.94um  
E 10s 4.27um  
FRU 16.72 309 eP 41 07.00 -0.7  
2.0s 340.00nm 5.1mb  
TIY 16.99 70 Pc 41 13.00 1.8  
1.0s 34.00nm 4.4mb  
Z 12s 11.70um 4.7MsZ  
N 12s 20.10um  
sP 41 25.00  
HHC 17.10 59 eP 41 12.60 0.0  
1.6s 26.00nm 4.1mb  
N 12s 7.34um  
E 10s 3.52um  
BDT 17.21 158 eP 41 13.80 -0.2  
UER 18.20 4 eP 41 26.50 0.6  
2.0s 66.00nm 4.4mb  
ZAK 18.82 22 iPc 41 33.20 -0.3  
1.4s 97.00nm 4.8mb  
N 14s 4.75um  
WHN 18.98 93 P 41 34.00 -1.7  
1.5s 82.00nm 4.7mb  
Z 16s 4.74um 4.9MsZ  
N 10s 8.40um  
E 10s 3.41um  
NST 19.05 156 eP 41 36.00 -0.7

HYB 20.12 221 eP 41 46.90 -1.5  
1.0s 50.00nm 4.8mb  
eS 45 40.00  
BJI 20.28 64 eP 41 50.50 0.7  
2.0s 70.00nm 4.7mb  
Z 12s 6.34um 5.2MsZ  
N 12s 14.80um  
eS 45 30.00  
TIA 20.62 75 eP 41 52.30 -1.2  
Z 22s 3.44um 4.7MsZ  
N 12s 6.51um  
E 12s 2.23um  
eS 45 38.00  
IRK 20.78 21 iPc 41 56.50 1.5  
1.4s 108.00nm 5.0mb  
e 42 09.50  
e 42 15.00  
e 45 59.00  
GZH 21.22 114 P 41 59.20 -0.4  
Z 16s 4.04um 4.9MsZ  
N 11s 6.41um  
E 10s 3.29um  
QIZ 21.28 128 eP 41 58.80 -1.5  
N 11s 6.21um  
E 11s 4.58um  
S 45 49.50  
QUE 21.70 268 eP 42 04.70 0.0  
eS 46 12.50  
POO 22.13 233 eP 42 15.00 6.1X  
NVS 22.34 346 iP 42 10.00 -0.6  
2.0s 156.00nm 5.1mb  
eS 46 15.30  
e 46 29.00  
NJ2 22.43 86 Pd 42 13.50 1.8  
1.0s 49.00nm 4.9mb  
Z 20s 3.85um 4.8MsZ  
pP 42 21.00 27kmX  
sP 42 29.00  
GBA 23.87 218 P 42 27.00 1.2  
CIT 24.18 33 eP 42 30.00 1.4  
Z 14s 4.22um 5.1MsZ  
E 12s 4.33um  
SSE 24.57 87 Pc 42 34.30 1.7  
1.4s 49.00nm 4.9mb  
Z 16s 6.60um 5.2MsZ  
E 10s 2.90um  
SNY 26.11 62 eP 42 50.20 3.3X  
Z 12s 3.63um 5.1MsZ  
E 13s 7.17um  
S 47 20.00  
S 47 34.00  
SS 48 16.00  
KOD 26.76 214 eP 43 02.00 8.5X  
eS 47 52.00  
MAIO 26.94 285 eP 42 55.00 0.2  
eS 47 38.00  
ASH 27.79 289 eP 43 06.10 3.7X  
i 47 47.70  
i 49 13.70  
i 53 52.80  
CN2 27.79 58 eP 43 02.00 -0.3  
1.0s 14.00nm 4.6mb  
Z 10s 3.01um 5.2MsZ  
N 18s 17.20um  
E 18s 3.74um  
sP 43 13.00  
eS 47 39.60  
BOD 28.61 25 eP 43 08.70 -0.8  
1.1s 27.00nm 4.9mb  
MDJ 30.87 58 eP 43 30.00 0.2  
SVE 31.83 327 ePd 43 37.50 -0.6  
2.6s 50.00nm 4.9mb  
Z 14s 3.00um 5.1MsZ  
N 14s 2.50um  
E 14s 1.50um  
e 50 38.00  
ARU 32.57 325 eP 43 45.00 0.5  
YAK 37.22 28 eP 44 26.00 1.8  
1.2s 30.00nm 5.0mb  
Z 16s 9.70um 5.7MsZ  
N 15s 1.40um  
E 16s 1.90um  
GRO 37.39 299 eP 44 29.00 3.2X  
i 45 55.00  
MOS 43.45 318 eP 45 17.00 1.3  
OBN 43.95 317 eP 45 20.00 0.2  
1.8s 100.00nm 5.3mb



Z 12s 2.60um 5.4MsZx  
 N 13s 1.40um  
 E 13s 2.60um  
 KAF 49.90 326 iP 46 09.80 3.4X  
 1.0s 14.50nm 5.0mb  
 HFS 56.10 324 eP 46 47.70 -4.8X  
 0.4s 1.40nm 4.3mb  
 Z 17s 1.39um 5.1MsZx  
 LR 09 34.00  
 GEC2 58.57 311 P 47 08.60 -1.6  
 0.6s 0.63nm 3.9mb  
 e 47 11.90  
 e 47 15.70  
 WRA 66.55 137 P 48 03.50 0.0  
 0.9s 3.50nm 4.5mb  
 WB2 66.56 137 eP 48 03.30 -0.2  
 1.1s 6.80nm 4.7mb  
 IMA 68.84 24 (P) 48 17.60 0.2  
 1.1s 3.75nm 4.4mb  
 ASPA 69.26 139 eP 48 20.40 0.0  
 1.4s 9.10nm 4.6mb  
 Z 23s 0.90um 4.9MsZx  
 FBA 71.50 23 eP 48 34.11 0.7  
 1.1s 5.04nm 4.5mb  
 YKA 82.02 12 eP 49 31.80 -0.4  
 0.9s 2.00nm 4.1mb  
 SIV 150.31 299 PKP 57 04.20 5.3X  
 LPAZ 155.41 309 PKP 57 23.30 16.4X  
 LPB 155.57 309 ePKP 57 23.00 16.2X  
 S.D. = 1.1 on 45 of 58 obs.

& JAN 27, 1994 04h 43m 52.71s  
 34.364 N 118.481 W  
 DEPTH = 1.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.4 (GS).

SCY 0.26 175 P 43 57.77 -0.1  
 SADC 0.32 208 P 43 58.77 -0.4  
 LRRC 0.41 67 P 44 00.64 -0.2  
 FOXC 0.42 29 P 44 01.19 0.1  
 THC 0.56 345 P 44 03.44 -0.5  
 LJB 0.57 66 P 44 03.31 -0.8  
 PTC 0.61 326 P 44 04.40 -0.5  
 PVRC 0.62 171 P 44 04.30 -0.7  
 SSK 0.67 103 eP 44 05.46 -0.6  
 ELMC 0.71 77 P 44 05.63 -1.3  
 RYS 0.77 291 P 44 08.17 0.1  
 PLEC 0.77 321 P 44 08.10 0.0  
 BMT 0.78 353 P 44 07.11 -1.1  
 ABL 0.78 309 ePd 44 07.34 -0.9  
 eS 44 17.52  
 SNDC 0.79 11 P 44 07.90 -0.6  
 CALC 0.86 31 P 44 08.77 -1.1  
 HYS 0.90 56 P 44 09.39 -1.3  
 MARC 0.95 312 P 44 10.81 -0.8  
 RVR 0.99 112 P 44 10.88 -1.4  
 LPC 1.03 278 P 44 12.52 -0.5  
 WJPM 1.04 0 P 44 11.93 -1.4  
 SME 1.08 120 P 44 12.42 -1.4  
 TMB 1.13 310 P 44 14.02 -0.7  
 CFT 1.18 106 P 44 14.84 -0.8  
 PEC 1.19 113 eP 44 14.26 -1.5  
 eS 44 29.44  
 BTL 1.23 95 P 44 15.71 -0.9  
 ISA 1.30 0 eP 44 16.13 -1.5  
 WORM 1.34 8 P 44 18.30 -0.1  
 CRGC 1.35 311 P 44 17.76 -0.7  
 SIL 1.37 90 P 44 18.39 -0.6  
 WASM 1.37 357 P 44 19.28 0.3  
 WSCM 1.42 20 P 44 18.68 -1.1  
 XMS 1.48 38 P 44 19.70 -0.9  
 WSHM 1.50 32 P 44 19.61 -1.3  
 NMC 1.55 18 P 44 21.04 -0.6  
 BCH 1.55 302 eP 44 20.87 -0.8  
 TOW 1.56 22 P 44 21.50 -0.2  
 RMR 1.59 95 P 44 22.01 -0.2  
 GSC 1.67 55 eP 44 22.23 -1.0  
 VPEN 1.67 19 P 44 24.97 1.6  
 PLM 1.68 126 eP 44 21.69 -1.9  
 RCWM 1.72 23 P 44 23.56 -0.5  
 CSSM 1.76 19 P 44 26.35 1.7  
 WLHM 1.79 4 P 44 25.70 0.4  
 PHAM 2.15 314 eP 44 28.43 -1.8  
 PHEM 2.29 326 P 44 33.20 1.0  
 BHPR 2.93 360 P 44 47.20 5.6  
 MTUM 2.98 359 ePn 44 44.69 2.4

TPNV 3.15 35 eP 44 43.60 -1.0  
 MMPM 3.27 352 ePn 44 45.16 -1.3  
 GLA 3.32 112 ePn 44 45.03 -1.8  
 MEMM 3.32 354 ePn 44 45.46 -1.3  
 BPRM 3.35 308 P 44 45.25 -2.1  
 BONR 3.59 2 eP 44 50.48 -0.4  
 ePg 44 58.77  
 TNP 3.85 15 (Pn) 44 54.17 -0.4  
 ePg 45 05.39  
 ARN 3.88 321 eP 44 53.48 -1.3  
 COE 3.88 319 eP 44 52.88 -2.0  
 CMB 3.97 338 ePn 44 55.02 -1.2  
 ARUT 5.32 49 (Pn) 45 14.38 -1.1  
 MSU 6.56 49 (Pn) 45 32.23 -0.7  
 60 obs. associated

& JAN 27, 1994 04h 56m 46.09s  
 34.335 N 118.490 W  
 DEPTH = 8.2km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. MD 2.6 (PAS). ML 2.7  
 (GS).

SSK 0.67 100 eP 56 58.63 -1.1  
 ABL 0.79 311 eP 57 00.71 -1.1  
 PEC 1.19 111 eP 57 07.35 -1.1  
 eS 57 25.36  
 ISA 1.33 1 eP 57 09.50 -1.3  
 BCH 1.56 303 eP 57 13.74 -0.5  
 PLM 1.67 125 eP 57 14.40 -1.5  
 GSC 1.69 55 eP 57 15.19 -0.9  
 MTUM 3.01 359 ePg 57 40.68 5.6  
 TPNV 3.18 34 ePn 57 37.40 -0.1  
 MMPM 3.30 353 ePg 57 45.75 6.4  
 MEMM 3.34 354 (Pn) 57 38.04 -1.6  
 BONR 3.62 2 (Pn) 57 42.69 -1.1  
 12 obs. associated

& JAN 27, 1994 05h 26m 55.88± 1.19s  
 30.783 S ± 10.6km 28.944 E ± 10.1km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.4 (PRE).

KSD 0.48 59 iPc 27 05.80 0.3  
 S 27 12.30  
 SEK 2.71 335 eP 27 41.40 0.4  
 S 28 13.70  
 BLF 2.92 304 eP 27 44.50 0.6  
 S 28 06.00  
 NWL 3.18 16 eP 27 52.20 4.6X  
 S 28 25.30  
 GRM 3.23 218 eP 27 48.00 -0.2  
 S 28 38.50  
 SOE 3.46 235 eP 27 36.80 -14.8X  
 S 28 30.80  
 SWZ 4.79 318 eP 28 06.70 -3.8X  
 S 29 03.20  
 SLR 5.06 353 eP 28 12.00 -2.4  
 S 29 04.50  
 BFT 5.17 11 eP 28 16.50 0.5  
 S 28 58.50  
 KSR 5.22 339 eP 28 17.50 0.8  
 S 29 06.00  
 S.D. = 1.4 on 7 of 10 obs.

JAN 27, 1994 05h 27m 21.53± 0.71s  
 44.255 N ± 5.7km 7.383 W ± 7.7km  
 DEPTH = 10.0km (geophysicist)  
 NORTH ATLANTIC OCEAN (402)  
 mbLg 3.5 (MDD).

EMON 0.82 177 ePg 27 37.22 -0.2  
 eSg 27 45.10  
 STS 1.61 212 ePn 27 50.25 0.2  
 eSn 28 10.20  
 ERUA 1.87 175 ePn 27 55.18 1.3  
 eSn 28 14.90  
 EZAM 2.31 205 ePn 27 59.79 -0.5  
 eSn 28 28.70  
 ECRI 3.91 113 ePn 28 24.81 1.8  
 eSn 29 08.10  
 EPLA 4.30 167 ePn 28 27.12 -1.4  
 ELIZ 4.38 102 ePn 28 30.50 0.8  
 PAB 5.22 153 ePg 29 22.00 40.4X  
 eSg 30 01.00  
 MFF 5.61 63 Pn 28 47.60 0.6

Sn 29 45.90  
 EPF 5.74 100 Pn 28 48.50 -0.3  
 Sn 29 48.40  
 LPF 5.80 47 Pn 28 50.20 0.5  
 Sn 29 52.00  
 LFF 5.84 80 Pn 28 49.80 -0.4  
 Sn 29 49.20  
 GRR 6.12 45 Pn 28 54.60 0.4  
 Sn 29 59.40  
 LPO 6.15 83 Pn 28 54.60 0.0  
 Sn 29 58.30  
 RJF 6.42 77 Pn 28 58.30 -0.2  
 Sn 30 04.10  
 FLN 6.56 44 Pn 29 01.20 0.9  
 Sn 30 09.60  
 LSF 6.60 69 Pn 29 01.10 0.1  
 Sn 30 08.20  
 LDF 6.63 47 Pn 29 01.20 -0.2  
 Sn 30 11.10  
 CAF 6.78 81 Pn 29 02.30 -1.2  
 Sn 30 12.50  
 TCF 7.07 70 Pn 29 07.90 0.4  
 Sn 30 18.80  
 BGF 7.56 69 Pn 29 13.90 -0.5  
 Sn 30 31.20  
 AVF 7.95 68 Pn 29 19.00 -0.9  
 Sn 30 41.50  
 SSF 8.13 66 Pn 29 22.00 -0.4  
 Sn 30 44.30  
 SMF 8.25 69 Pn 29 23.30 -0.7  
 Sn 30 48.60  
 LBF 8.42 67 Pn 29 26.40 -0.1  
 Sn 30 51.50  
 LOR 8.42 65 Pn 29 26.10 -0.3  
 Sn 30 51.30  
 S.D. = 0.8 on 25 of 26 obs.

? JAN 27, 1994 05h 34m 41.48± 0.91s  
 39.717 N ± 8.4km 28.681 E ± 9.8km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

DST 0.12 200 iPg 34 44.00 0.0  
 IZI 0.87 44 iPg 34 58.50 -0.2  
 iSg 35 10.50  
 EDC 0.89 315 iPg 34 59.00 0.0  
 iSg 35 12.00  
 EYL 1.41 53 ePn 35 08.20 0.2  
 S.D. = 0.3 on 4 of 4 obs.

& JAN 27, 1994 05h 40m 19.14s  
 60.027 N 151.566 W  
 DEPTH = 77.3km  
 KENAI PENINSULA, ALASKA (14)  
 <AEIC>.

HOM 0.37 186 eP 40 31.47 -0.3  
 eS 40 41.36  
 BRLK 0.43 127 eP 40 31.50 -0.8  
 eS 40 41.12  
 CNPM 0.53 161 eP 40 32.36 -0.8  
 eS 40 42.59  
 ILIM 0.70 275 iP 40 34.04 -0.8  
 eS 40 46.14  
 RED 0.72 304 eP 40 34.32 -0.8  
 REF 0.73 310 iP 40 34.56 -0.8  
 RSO 0.74 307 eP 40 34.69 -0.7  
 NKA 0.74 13 eP 40 35.94 0.8  
 RS2 0.74 307 iP 40 34.72 -0.7  
 RDW 0.77 307 eP 40 35.00 -0.8  
 eS 40 47.84  
 DFR 0.80 316 iP 40 35.06 -0.9  
 eS 40 47.61  
 SLKM 0.83 54 eP 40 35.04 -1.2  
 NCT 0.87 309 eP 40 36.06 -0.7  
 eS 40 49.76  
 OPT 0.92 247 eP 40 36.63 -0.7  
 eS 40 49.70  
 SEW 1.06 85 eP 40 37.46 -1.6  
 BKG 1.10 342 eP 40 38.91 -0.7  
 eS 40 54.64  
 AUE 1.13 235 eP 40 39.42 -0.5  
 AUH 1.16 236 eP 40 40.11 -0.3  
 AUW 1.17 237 eP 40 40.08 -0.3  
 SPU 1.18 348 iP 40 39.84 -0.8  
 MPA 1.19 66 eP 40 39.61 -1.1



27d 05h

CKT	1.22	345	iP	40 40.45	-0.7
			eS	40 57.33	
CKN	1.24	346	eP	40 40.89	-0.5
CRP	1.28	347	iPd	40 40.94	-1.1
			eS	40 58.36	
CP2	1.29	345	iPd	40 41.47	-0.7
			eS	40 59.20	
CGLM	1.30	351	iP	40 41.71	-0.5
PDB	1.35	261	eP	40 41.49	-1.2
			eS	40 59.09	
NCG	1.41	348	iP	40 43.26	-0.4
SYI	1.48	197	eP	40 43.45	-1.0
SUA	1.50	15	eP	40 44.05	-0.8
CDD	1.53	225	eP	40 44.11	-1.1
			eS	41 02.64	
PWL	1.81	61	eP	40 46.96	-1.9
PWA	1.83	26	P	40 48.70	-0.4
SKT	1.96	1	eP	40 50.24	-0.8
MTU	1.97	89	eP	40 49.60	-1.5
PLRM	1.97	36	eP	40 49.36	-1.7
PMR	1.97	36	eP	40 47.93	-3.2
KNK	2.07	46	eP	40 50.61	-1.8
			eS	41 15.31	
GHO	2.18	35	eP	40 52.44	-1.6
CFI	2.20	57	eP	40 51.99	-2.3
			eS	41 18.13	
SML	2.38	40	eP	40 55.08	-1.8
CUT	2.47	14	eP	40 57.01	-0.9
VZW	2.68	65	eP	40 58.44	-2.6
VLZ	2.81	65	eP	41 00.58	-2.1
HUR	3.10	17	eP	41 06.55	-0.2
KLU	3.14	60	eP	41 04.89	-2.4
TOA	3.35	49	P	41 08.80	-1.5
TRF	3.49	9	eP	41 11.94	-0.4
KTH	3.55	5	eP	41 12.79	-0.3
RND	3.63	20	eP	41 13.07	-1.1
DHY	3.66	31	eP	41 13.41	-1.2
MCK	3.92	17	eP	41 17.83	-0.4
BWN	4.28	12	P	41 21.40	-1.8
BALM	4.67	73	eP	41 26.08	-2.7
ILB	5.23	23	eP	41 34.17	-2.4
IL1	5.23	23	eP	41 34.36	-2.2
IM3	6.06	352	eP	41 45.36	-2.7

57 obs. associated

& JAN 27, 1994 05h 50m 08.86s  
34.335 N 118.723 W  
DEPTH = 4.1km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

ABL	0.66	322	eP	50 21.26	-0.8
SSK	0.86	98	eP	50 24.95	-1.2
			eS	50 39.28	
ISA	1.34	9	eP	50 32.77	-1.4
PEC	1.37	108	eP	50 32.74	-2.0
BCH	1.41	307	eP	50 34.28	-1.1
PLM	1.83	122	eP	50 40.68	-0.9
GSC	1.85	58	eP	50 40.77	-0.9
MTUM	3.01	2	ePg	51 00.47	2.0
MMPM	3.28	356	(Pn)	51 00.93	-1.4
TPNV	3.30	37	(P)	51 01.39	-1.0
MEMM	3.33	357	(Pn)	51 01.45	-1.3
BONR	3.63	5	ePg	51 15.55	8.3

12 obs. associated

? JAN 27, 1994 06h 24m 42.06± 0.48s  
38.630 N ± 3.3km 23.530 E ± 6.8km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 3.5 (ATH), 3.3 (THE).

ATH	0.67	167	iPnd	24 55.80	0.3
			eSn	25 05.00	
AGG	1.02	293	iPg	25 01.70	-0.1
			eSg	25 16.82	
PAIG	1.30	5	iPb	25 06.66	0.1
LIT	1.68	332	ePb	25 12.10	-0.1
			eSb	25 34.60	
VLI	1.97	194	ePn	25 15.80	-0.6
THE	2.05	348	ePn	25 17.50	0.0
KZN	2.16	321	ePn	25 19.00	-0.2
SOH	2.19	356	ePn	25 19.74	0.0
VLS	2.35	260	ePn	25 22.50	0.5
GRG	2.48	340	ePn	25 23.58	-0.2
SRS	2.48	1	ePn	25 23.66	-0.2
			eSn	25 54.50	

KNT	2.58	349	iPn	25 25.46	0.3
VAY	2.79	345	iPn	25 28.30	0.2
OHR	3.25	321	ePn	25 37.20	2.5X
SKO	3.70	335	ePn	25 44.00	2.9X

S.D. = 0.3 on 13 of 15 obs.

& JAN 27, 1994 06h 26m 22.21s  
34.259 N 118.459 W  
DEPTH = 14.4km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.6 (PAS), 2.7 (GS).

TWL	0.11	280	P	26 25.18	-0.5
CJV	0.38	44	P	26 29.35	-0.8
LHU	0.41	5	P	26 29.96	-0.9
LRRC	0.45	53	P	26 30.73	-0.6
SWM	0.47	348	P	26 31.01	-0.8
LJB	0.60	57	P	26 33.27	-0.8
SSK	0.64	94	eP	26 33.99	-0.7
SBB	0.68	51	P	26 34.61	-0.7
DBM	0.72	6	P	26 35.64	-0.5
CIW	0.80	186	P	26 37.02	-0.2
CIS	0.85	177	P	26 38.02	-0.2
ABL	0.86	313	eP	26 37.55	-1.0
CSP	0.91	87	P	26 39.09	-0.3
HYS	0.95	50	P	26 39.50	-0.5
ELS	1.05	125	P	26 41.34	-0.4
PEC	1.14	108	eP	26 42.16	-1.0
			eS	26 57.89	
HOD	1.16	60	P	26 43.18	-0.3
BTL	1.21	90	P	26 44.86	0.4
BLKC	1.31	51	P	26 45.93	-0.1
ISA	1.40	360	eP	26 47.01	-0.3
			eS	27 04.90	
WSCM	1.52	18	P	26 49.95	1.0
SRTC	1.54	22	P	26 52.22	2.9
WSHM	1.58	30	P	26 49.30	-0.6
PLM	1.61	124	eP	26 49.00	-1.4
BCH	1.63	305	eP	26 50.15	-0.4
NMC	1.64	16	P	26 53.70	2.9
GSC	1.71	52	eP	26 51.16	-0.6
TPNV	3.23	33	ePn	27 13.28	-0.3
BONR	3.69	2	ePg	27 32.95	12.7

29 obs. associated

JAN 27, 1994 06h 40m 18.32± 0.73s  
43.628 N ± 11.5km 16.598 E ± 11.7km  
DEPTH = 10.0km (geophysicist)  
NORTHWESTERN BALKAN REGION (383)  
MD 3.1 (TRI). ML 3.1 (TTG). Felt  
at Sinj, Croatia.

BRY	1.60	116	iPg	40 46.41	-0.4
			iSg	41 08.91	
HCY	1.83	130	iPnd	40 50.09	0.1
			iSn	41 15.05	
NKY	1.93	114	iPnd	40 51.79	0.1
			iSn	41 18.11	
PLE	2.06	97	iPnd	40 54.03	0.6
			iSn	41 21.86	
VBY	2.11	333	ePn	40 54.10	0.0
			iSn	41 24.00	
BDV	2.12	129	iPnc	40 54.29	0.1
			iSn	41 22.20	
TTG	2.29	121	iPnd	40 56.76	0.1
			iSn	41 26.53	
PTJ	2.32	349	iPn	40 56.60	-0.6
			iSn	41 23.60	
IYA	2.53	106	iPnd	41 00.27	0.1
			iSn	41 32.76	
ULC	2.56	130	iPnd	41 00.20	-0.4
			iSn	41 33.02	
PVY	2.68	112	iPnd	41 02.17	-0.2
			iSn	41 36.33	
LJU	2.83	329	eP	41 11.00	6.7X
			e(Sg)	41 44.50	
			e	41 54.00	
TRI	2.90	317	e(Pn)	41 12.00	6.6X
			e	41 46.10	
			e(Sg)	41 51.40	
VOY	3.08	322	ePn	41 08.50	0.6
			eSn	41 49.20	
KBA	4.14	328	iPnc	41 23.00	-0.1
	0.5s	4.50nm			
			i	42 35.30	
			i	42 39.70	
WTTA	5.04	318	iPnc	41 33.30	-2.6X

0.7s	8.30nm	4.4mb
	i	42 46.60
	i	42 50.70
	i	43 08.40

S.D. = 0.4 on 13 of 16 obs.

? JAN 27, 1994 07h 46m 49.60± 8.01s  
40.427 N ± 44.8km 23.705 E ± 33.0km  
DEPTH = 10.0km (geophysicist)  
GREECE (364)  
ML 2.1 (THE).

SOH	0.48	326	ePg	46 59.20	-0.1
SRS	0.69	353	ePg	47 03.30	0.0
KNT	0.96	320	ePg	47 08.00	0.2
			eSg	47 15.90	
GRG	1.12	299	ePg	47 10.60	-0.1
	S.D. = 0.2	on	4 of 4 obs.		
JAN 27, 1994 08h 26m 55.09± 0.72s	44.276 N ± 5.2km	7.384 W ± 7.5km			
DEPTH = 10.0km (geophysicist)					
NORTH ATLANTIC OCEAN (402)					
mbLg 3.7 (MDD).					
EMON	0.84	177	iPg	27 11.27	-0.1
STS	1.63	212	iPnc	27 24.15	0.3
			eSn	27 44.40	
ERUA	1.89	175	ePn	27 28.70	1.0
			eSn	27 50.40	
EZAM	2.33	205	ePn	27 33.61	-0.5
			eSn	28 00.10	
MVO	3.12	175	eP	27 46.00	0.7
			eS	28 20.00	
			iSg	28 28.00	
MTE	3.87	182	eP	27 56.00	0.0
			iS	28 38.00	
			iSg	28 52.00	
ECRI	3.92	113	ePn	27 58.70	2.0
			eSn	28 42.40	
COI	4.14	191	e(P)	28 12.00	12.3X
EPLA	4.32	167	ePn	28 01.13	-1.2
			eSn	28 49.90	
GUD	4.35	146	ePn	28 01.98	-0.8
			eSn	28 51.20	
ELIZ	4.39	103	ePn	28 04.28	1.0
			eSn	28 54.30	
ETOR	5.24	129	ePn	28 16.87	1.5
			eSn	29 14.60	
PAB	5.24	153	ePg	28 40.00	24.6X
			eSg	29 35.00	
EGRA	5.57	109	ePn	28 27.61	7.7X
			eSn	29 32.40	
MFF	5.60	63	Pn	28 21.20	0.8
			Sn	29 19.80	
EPF	5.74	100	Pn	28 22.50	0.0
			Sn	29 21.90	
LPF	5.79	47	Pn	28 23.90	0.9
			Sn	29 23.90	
MOE	5.79	188	e(P)	28 22.00	-1.1
			eS	29 24.00	
			eSg	29 55.50	
LFF	5.84	81	Pn	28 23.30	-0.4
			Sn	29 23.10	
GRR	6.11	45	Pn	28 28.80	1.3
			Sn	29 32.80	
LPO	6.15	83	Pn	28 27.60	-0.5
			Sn	29 31.50	
RJF	6.42	78	Pn	28 31.40	-0.6
			Sn	29 38.70	
FLN	6.54	44	Pn	28 34.50	0.8
			Sn	29 42.30	
LSF	6.59	69	Pn	28 34.50	0.0
			Sn	29 42.00	
LDF	6.62	47	Pn	28 35.70	0.9
			Sn	29 45.20	
EVIA	6.72	145	ePn	28 36.70	0.4
CAF	6.78	81	Pn	28 35.90	-1.1
			Sn	29 46.40	
TCF	7.06	70	Pn	28 40.70	-0.3
			Sn	29 52.80	
MAF	7.29	71	Pn	28 43.80	-0.4
			Sn	29 59.50	
BGF	7.55	69	Pn	28 47.10	-0.8
			Sn	30 05.70	
AVF	7.95	68	Pn	28 52.30	-1.1
			Sn	30 15.50	



SSF 8.12 66 Pn 28 55.20 -0.6  
Sn 30 18.60  
SMF 8.24 69 Pn 28 56.70 -0.8  
Sn 30 21.30  
LOR 8.41 65 Pn 28 59.60 -0.3  
Sn 30 25.70  
LBF 8.41 67 Pn 28 58.80 -1.1  
Sn 30 25.70

S.D. = 0.9 on 32 of 35 obs.

\* JAN 27, 1994 09h 27m 53.34± 1.06s  
4.335 S ± 9.8km 102.693 E ± 10.7km  
DEPTH = 83.7 ± 7.6 km  
5.0mb ( 12 obs.)  
SOUTHERN SUMATERA, INDONESIA (274)  
Felt (III) at Kapahiang.

KSI 0.70 352 ePd 28 09.00 -0.5  
iS 28 20.30  
e 32 00.00  
KLI 2.22 104 eP 28 29.00 0.1  
e(S) 28 50.00  
TPI 5.19 73 iPc 29 11.50 1.3  
e 33 00.00  
NST 20.04 353 eP 32 22.40 0.2  
LOE 21.62 358 eP 32 38.00 -0.3  
BDT 21.75 350 eP 32 38.00 -1.5  
1.0s 41.40nm 4.8mb  
CHTO 23.30 351 eP 32 55.50 0.9  
eSg 39 10.00

GBA 30.76 306 P 34 03.30 0.2  
0.7s 3.00nm 4.1mb  
WRA 34.51 119 P 34 35.20 -0.5  
0.5s 3.80nm 4.6mb  
WB2 34.52 119 iPd 34 34.80 -1.0  
0.4s 17.00nm 5.3mb

i 37 09.30  
ASPA 35.71 126 iPc 34 45.60 -0.3  
0.4s 12.40nm 5.2mb

i 34 51.80  
XAN 38.62 8 iPc 35 10.00 -0.2  
0.5s 29.00nm 5.4mb

LZH 40.22 1 eP 35 22.50 -1.0  
1.0s 24.00nm 5.0mb

NDI 40.96 325 iP 35 29.50 0.0  
TIY 42.80 11 eP 35 44.90 0.4  
STK 45.60 132 eP 36 07.30 0.3

0.5s 8.40nm 4.9mb  
e 36 15.60  
WMQ 49.80 346 P 36 40.00 0.3  
0.8s 26.00nm 5.3mb

pP 36 56.00 62kmX  
CN2 52.12 21 Pd 36 56.20 -0.9  
1.2s 24.00nm 5.1mb

epP 37 13.00 65kmX  
KAF 87.47 333 iP 40 33.50 1.0  
NUR 87.88 331 iP 40 35.40 0.9

0.4s 7.10nm 5.1mb  
HFS 93.23 330 eP 40 59.90 0.5  
0.4s 1.40nm 4.7mb

RSSD 133.91 27 ePKP 47 03.78 0.8  
FVM 144.43 18 ePKP 47 19.80 -2.1  
LTX 144.76 42 ePKPc 47 22.49 -0.4

ELC 145.44 17 ePKP 47 23.46 -0.2  
UYO 146.31 26 iPKPc 47 25.80 0.6  
MIAR 146.36 25 ePKP 47 26.27 1.0

LHS 149.83 6 ePKP 47 35.36 4.7X  
JSC 149.98 7 ePKP 47 36.28 5.4X  
PRM 150.03 8 ePKP 47 36.55 5.5X

S.D. = 0.9 on 27 of 30 obs.

% JAN 27, 1994 09h 48m 55.96± 0.70s  
40.673 N ± 5.3km 22.987 E ± 6.0km  
DEPTH = 5.0km (geophysicist)

GREECE (364)  
ML 1.9 (THE).

THE 0.04 203 iPg 48 56.86 -0.5  
eSg 48 58.14

SOH 0.32 62 ePg 49 02.06 -0.3  
KNT 0.49 352 ePg 49 06.18 0.3  
eSg 49 13.98

GRG 0.53 303 ePg 49 06.54 0.0  
iSg 49 15.14

SRS 0.64 46 ePg 49 08.50 -0.2  
PAIG 0.91 144 ePg 49 14.54 0.7  
S.D. = 0.6 on 6 of 6 obs.

? JAN 27, 1994 09h 55m 50.21± 6.42s  
43.878 N ± 35.9km 7.020 E ± 26.9km  
DEPTH = 10.0km (geophysicist)  
NEAR SOUTH COAST OF FRANCE (379)  
ML 1.6 (GEN).

STV 0.43 31 P 55 59.54 0.6  
S 56 02.15

ENR 0.45 39 P 55 59.08 -0.4  
S 56 01.10

PZZ 0.63 5 P 56 04.07 1.1  
S 56 08.65

FIN 0.92 68 P 56 07.87 0.1  
BHB 0.98 10 P 56 07.41 -1.4  
S.D. = 1.4 on 5 of 5 obs.

? JAN 27, 1994 09h 58m 59.87± 1.09s  
39.279 N ± 10.0km 27.660 E ± 15.0km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.8 (ISK).

DST 0.82 66 ePg 59 15.40 -0.3  
IZM 0.93 200 ePg 59 17.70 0.0

EDC 1.08 8 iPn 59 20.00 -0.1  
IZI 1.75 52 ePn 59 31.00 0.5  
S.D. = 0.6 on 4 of 4 obs.

? JAN 27, 1994 10h 39m 47.80± 5.51s  
38.833 N ± 60.2km 26.494 W ± 20.4km  
DEPTH = 10.0km (geophysicist)  
AZORES ISLANDS (405)

ADH 0.61 253 iP 40 00.00 0.0  
iS 40 06.00

FAC 1.25 148 iP 40 11.00 0.0  
iS 40 24.50

CML 1.30 145 iP 40 11.75 -0.1  
iS 40 26.63

LFA 1.32 143 iP 40 12.25 0.0  
iS 40 27.75

SDCA 1.39 138 eP 40 13.25 0.0  
iS 40 30.50  
S.D. = 0.0 on 5 of 5 obs.

? JAN 27, 1994 10h 53m 59.15± 1.39s  
40.648 N ± 13.4km 23.031 E ± 9.7km  
DEPTH = 10.0km (geophysicist)  
GREECE (364)  
ML 1.7 (THE).

THE 0.05 253 ePg 54 01.32 0.0  
eSg 54 02.48

SOH 0.30 55 ePg 54 05.80 0.4  
KNT 0.52 349 ePg 54 09.84 0.1  
eSg 54 17.60

SRS 0.63 42 ePg 54 11.40 -0.5  
S.D. = 0.6 on 4 of 4 obs.

? JAN 27, 1994 11h 07m 34.04± 2.64s  
3.231 S ± 15.8km 129.813 E ± 26.3km  
DEPTH = 68.0 ± 25.5 km  
4.7mb ( 5 obs.)  
SERAM, INDONESIA (272)

SLKI 4.95 163 ePd 08 48.80 1.3  
MTN 9.64 172 eP 09 51.80 -0.7  
0.2s 122.00nm 6.6mb X

eS 11 39.00  
KNA 12.48 185 eP 10 30.20 -0.5  
eS 12 49.20

WB2 17.19 165 eP 11 29.90 -1.4  
0.3s 25.90nm 4.9mb

eS 14 36.70  
QIS 19.69 152 eP 12 01.20 0.6  
MBL 20.29 208 eP 12 07.50 0.6

ASPA 20.70 169 iPc 12 11.90 0.8  
0.6s 88.70nm 5.3mb

iS 16 00.70  
WARB 23.02 187 eP 12 32.20 -1.9  
0.3s 4.00nm 4.3mb

STK 30.58 160 eP 13 44.80 1.2  
0.3s 5.60nm 4.8mb  
CHTO 37.46 307 eP 14 44.50 1.7  
BJI 44.84 345 eP 15 41.50 -1.7

1.0s 6.00nm 4.4mb  
S.D. = 1.5 on 11 of 11 obs.  
? JAN 27, 1994 11h 48m 14.98± 5.90s  
28.671 N ± 11.6km 34.761 E ± 42.4km  
DEPTH = 10.0km (geophysicist)  
EGYPT (553)

BADA 0.26 125 iPc 48 20.33 -0.1  
eS 48 24.33

SRFA 0.45 55 iPc 48 24.00 -0.2  
eS 48 30.67

HSJH 0.93 37 Pd 48 32.90 0.0  
AYN 1.11 79 eP 48 36.00 0.3  
eS 48 51.33

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

& JAN 27, 1994 12h 10m 53.62s  
34.320 N 118.464 W  
DEPTH = 7.1km  
SOUTHERN CALIFORNIA (43)  
<PAS> ML 2.6 (PAS), 2.8 (GS).

TWL 0.12 249 P 10 55.86 -0.4  
FIL 0.32 289 P 11 00.71 0.5

CJV 0.34 51 P 10 59.95 -0.6  
FOX 0.45 25 P 11 02.41 -0.4  
PEM 0.52 107 P 11 03.40 -0.6

ECF 0.54 285 P 11 04.69 0.3  
SSK 0.65 99 eP 11 05.68 -1.0  
eS 11 15.43

DBM 0.66 7 P 11 06.09 -0.9  
RYS 0.80 294 P 11 08.97 -0.6  
ABL 0.82 311 eP 11 08.27 -1.6

CIW 0.86 185 P 11 09.65 -0.7  
CSP 0.92 91 P 11 10.55 -0.9  
HYS 0.92 53 P 11 10.34 -1.1

ELS 1.09 128 P 11 13.30 -1.2  
PEC 1.16 111 ePc 11 14.22 -1.4  
eS 11 30.21

SNS 1.17 139 P 11 14.86 -0.8  
BTL 1.21 93 P 11 16.32 -0.3  
ISA 1.34 360 eP 11 17.54 -1.1

RAY 1.40 101 P 11 19.40 -0.4  
POB 1.43 116 P 11 18.60 -1.4  
WSHM 1.53 31 P 11 21.04 -0.4

RMR 1.57 93 P 11 22.57 0.5  
BCH 1.59 303 eP 11 21.33 -1.0  
TOW 1.59 21 P 11 24.29 2.0

PLM 1.65 125 eP 11 21.29 -1.9  
GSC 1.68 54 eP 11 22.91 -0.7  
COY 2.03 117 P 11 29.92 1.3

TPNV 3.18 34 ePn 11 43.37 -1.8  
MMPM 3.31 352 ePg 11 55.88 8.6  
MEMM 3.36 354 (Pn) 11 48.13 0.6

BONR 3.63 2 (Pn) 11 50.73 -1.0  
31 obs. associated

\* JAN 27, 1994 12h 26m 36.69± 0.92s  
31.645 S ± 12.2km 69.016 W ± 17.9km  
DEPTH = 119.8 ± 7.1 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.24 49 iPd 26 53.70 -0.3  
ZON 0.30 71 iP 26 53.70 -0.5

RTCV 0.46 118 iPd 26 54.90 0.2  
RTLL 0.56 56 iPd 26 55.20 -0.1  
RTRS 1.52 345 iPd 27 05.50 0.8

RTPR 2.53 59 iPd 27 18.00 0.6  
S 27 45.00

LPB 15.07 3 (P) 30 03.00 -1.9  
LPAZ 15.31 3 P 30 09.10 0.9  
UYO 69.71 338 iPc 37 35.60 0.3

WRA 124.03 207 PKP 45 22.80 0.0  
0.3s 1.40nm  
S.D. = 1.0 on 10 of 10 obs.

% JAN 27, 1994 12h 54m 06.05± 2.30s  
9.864 N ± 14.9km 83.009 W ± 17.3km  
DEPTH = 10.0km (geophysicist)

COSTA RICA (78)  
MD 4.0 (HDC).  
VTU 0.75 282 ePc 54 20.29 -0.8  
CDM 0.81 248 ePd 54 11.54 -10.5X  
TIG 0.87 199 ePd 54 23.00 0.2  
eS 54 36.64



27d 12h

IRZ2 0.88 277 ePc 54 23.90 0.7  
 CTRC 0.99 166 ePc 54 24.75 -0.3  
 HD22 1.12 278 ePc 54 26.23 -0.8  
 QPS 1.20 248 ePd 54 28.05 -0.3  
 EPA 1.57 275 ePd 54 33.61 -0.4  
 JTS 1.96 283 ePc 54 39.60 -0.1  
 CAO 2.07 266 ePc 54 42.10 0.8  
 JUD 2.52 277 eP 54 48.86 1.1  
 S.D. = 0.8 on 10 of 11 obs.

% JAN 27, 1994 13h 10m 29.84± 0.93s  
 39.685 N ± 7.5km 29.389 E ± 9.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.5 (ISK).

DST 0.59 263 ePg 10 41.80 -0.1  
 IZI 0.65 6 ePg 10 41.90 -1.0  
 ALT 0.84 138 ePg 10 46.20 0.0  
 YLV 0.88 359 ePn 10 47.80 1.0  
 EYL 1.06 34 ePn 10 49.90 0.0  
 S.D. = 1.0 on 5 of 5 obs.

% JAN 27, 1994 13h 23m 08.09± 0.62s  
 26.861 S ± 5.8km 26.803 E ± 7.4km  
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
 ML 2.6 (PRE).

BFS 0.04 204 eP 23 09.60 0.1  
 KSR 0.99 5 eP 23 28.00 0.5  
 SWZ 1.36 256 eP 23 33.20 -0.5  
 SEK 1.63 154 eP 23 37.70 0.0  
 SLR 1.74 50 eP 23 39.00 -0.2  
 BLF 2.30 194 eP 23 48.00 0.5  
 NWL 2.93 108 eP 23 56.10 -0.3  
 S.D. = 0.5 on 7 of 7 obs.

? JAN 27, 1994 13h 39m 30.83± 0.96s  
 39.423 N ± 7.5km 29.920 E ± 11.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.7 (ISK).

ALT 0.40 158 iPg 39 38.90 -0.1  
 IZI 0.98 340 iPn 39 48.90 -0.5  
 DST 1.02 281 ePn 39 50.30 0.2  
 EYL 1.16 9 ePn 39 52.90 0.4  
 S.D. = 0.7 on 4 of 4 obs.

& JAN 27, 1994 13h 49m 05.38s  
 34.362 N 118.481 W  
 DEPTH = 0.3km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.67 103 eP 49 18.09 -0.7  
 ABL 0.78 309 eP 49 20.09 -0.9  
 PEC 1.19 113 eP 49 26.96 -1.6  
 ISA 1.30 0 eP 49 28.84 -1.5  
 BCH 1.55 302 eP 49 34.09 -0.3  
 GSC 1.67 55 eP 49 34.86 -1.2  
 PLM 1.68 126 eP 49 34.50 -1.8  
 TPNV 3.16 35 ePn 49 56.81 -0.6  
 GLA 3.31 112 (Pn) 49 57.59 -2.0  
 BONR 3.59 2 ePg 50 11.91 8.2  
 10 obs. associated

? JAN 27, 1994 14h 18m 30.98± 4.07s  
 39.692 N ± 29.9km 29.500 E ± 18.7km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)

ML 2.7 (ISK).

IZI 0.64 358 iPg 18 43.40 -0.5  
 EYL 1.01 30 ePn 18 50.40 -0.2  
 ISK 1.41 346 ePn 18 58.40 1.1  
 EDC 1.42 298 ePn 18 57.00 -0.4  
 S.D. = 1.3 on 4 of 4 obs.

& JAN 27, 1994 14h 27m 35.80s  
 59.567 N 151.811 W  
 DEPTH = 52.0km

KENAI PENINSULA, ALASKA (14)  
 <AEIC>. ML 3.0 (AEIC).

XLV 0.12 158 eP 27 43.59 1.1  
 HOM 0.13 43 eP 27 43.66 1.3  
 CNPM 0.30 98 iP 27 44.58 -0.6  
 BRLK 0.51 67 eP 27 46.87 -0.6  
 OPT 0.73 277 eP 27 49.61 -0.5  
 ILIM 0.78 312 eP 27 49.80 -1.0  
 INE 0.80 309 eP 27 50.20 -1.1

AUE 0.82 256 eP 27 50.81 -0.5  
 AUL 0.85 258 eP 27 51.42 -0.3  
 AGU 0.85 257 P 27 52.20 0.3  
 AUH 0.86 257 eP 27 51.51 -0.4  
 RED 0.98 331 eP 27 53.08 -0.5

RSO 1.02 333 eP 27 53.40 -0.8  
 RS2 1.02 333 eP 27 53.45 -0.7  
 REF 1.03 335 iP 27 53.54 -0.8  
 RDW 1.05 332 eP 27 53.74 -0.8

DFR 1.12 337 eP 27 54.50 -1.0  
 CDD 1.14 237 eP 27 55.13 -0.6  
 NCT 1.14 331 eP 27 55.05 -0.8  
 NKA 1.21 13 eP 27 58.19 1.5

PDB 1.23 281 eP 27 56.08 -0.8  
 SLKM 1.24 40 eP 27 56.04 -1.0  
 SEW 1.31 65 eP 27 57.65 -0.4  
 BKG 1.52 352 eP 28 00.45 -0.7  
 MPA 1.54 52 eP 28 01.80 0.6

SPU 1.62 356 eP 28 01.92 -0.6  
 CKT 1.65 353 eP 28 02.25 -0.7  
 CKL 1.66 351 eP 28 02.72 -0.3  
 CKN 1.67 354 eP 28 02.94 -0.3  
 CRP 1.71 354 P 28 03.50 -0.4

CP2 1.72 353 (P) 28 02.64 -1.3  
 BGL 1.73 351 eP 28 03.74 -0.3  
 CGLM 1.75 357 eP 28 03.99 -0.3  
 NCG 1.85 355 eP 28 05.47 -0.3  
 KDC 1.86 191 P 28 03.70 -2.0

SUA 1.98 15 eP 28 07.51 0.0  
 MTU 2.15 77 eP 28 08.71 -1.1  
 PWL 2.17 52 eP 28 08.96 -1.2  
 PWA 2.30 24 P 28 14.00 2.1  
 PLRM 2.42 32 eP 28 13.65 -0.1

SKT 2.43 3 eP 28 12.37 -1.4  
 SVW 2.45 311 (P) 28 12.27 -1.8  
 KNK 2.49 40 eP 28 13.37 -1.3  
 CFI 2.58 49 eP 28 14.30 -1.6  
 GHO 2.63 31 P 28 19.00 2.3

SML 2.83 36 eP 28 18.62 -0.9  
 FID 2.92 64 eP 28 19.22 -1.6  
 CUT 2.95 14 P 28 22.50 1.3  
 VZW 3.01 58 eP 28 20.15 -2.1  
 VLZ 3.14 58 eP 28 21.94 -2.0  
 KLU 3.49 54 eP 28 27.07 -2.0

51 obs. associated  
 & JAN 27, 1994 14h 31m 10.70s  
 34.250 N 118.589 W  
 DEPTH = 14.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.3 (GS).

TPRS 0.16 179 P 31 14.57 -0.3  
 LEOC 0.45 32 P 31 18.75 -1.1  
 QAL 0.51 348 P 31 20.02 -0.9  
 JNH 0.56 69 P 31 20.71 -1.1  
 FOXC 0.57 31 P 31 21.18 -0.7  
 FTC 0.67 338 P 31 22.75 -0.9  
 LJB 0.70 61 P 31 22.88 -1.3  
 RYS 0.74 302 P 31 24.36 -0.6  
 SSK 0.74 93 iPc 31 24.27 -0.7

DBM 0.75 14 P 31 24.29 -0.8  
 ABL 0.79 319 eP 31 24.61 -1.3  
 PLEC 0.82 331 P 31 25.85 -0.3  
 BMTC 0.88 360 P 31 26.31 -1.0  
 ARVC 0.90 347 P 31 26.70 -0.8

SS2 0.90 92 P 31 27.04 -0.7  
 SNDC 0.92 15 P 31 27.42 -0.6  
 LPC 0.96 285 P 31 27.79 -0.9  
 MARC 0.97 321 P 31 28.21 -0.6  
 TEJ 0.98 355 P 31 28.26 -0.7  
 CALC 1.00 32 P 31 28.72 -0.6

SME 1.11 112 P 31 30.19 -0.9  
 TMB 1.14 317 P 31 31.47 -0.2  
 WJPM 1.16 4 P 31 31.29 -0.8  
 PEC 1.24 106 eP 31 31.71 -1.6

WHVM 1.26 3 P 31 32.68 -1.0  
 BTL 1.31 89 P 31 34.52 -0.2  
 WBSM 1.34 16 P 31 34.14 -0.9  
 CRGC 1.36 317 P 31 35.34 0.1  
 ISA 1.41 4 eP 31 34.96 -1.0

WASM 1.48 1 P 31 37.59 0.5  
 POB 1.49 112 P 31 36.11 -1.0  
 BCH 1.54 308 eP 31 36.77 -1.1  
 WSCM 1.56 21 P 31 36.80 -1.2  
 XMS 1.63 38 P 31 38.09 -0.9

WSHM 1.65 33 P 31 37.64 -1.6  
 PLM 1.69 121 eP 31 39.06 -1.0  
 TOW 1.70 23 P 31 42.29 2.3  
 CLC 1.76 27 P 31 39.54 -1.4  
 GSC 1.81 54 eP 31 40.41 -1.2

VPEM 1.81 20 P 31 41.62 -0.1  
 RCWM 1.86 24 P 31 41.24 -1.2  
 WLHM 1.91 7 P 31 42.68 -0.7  
 CPM 1.99 92 P 31 46.95 2.7  
 FRGC 2.16 102 P 31 48.90 2.2

CBKC 2.37 124 P 31 52.10 2.4  
 MTUM 3.10 0 ePg 32 05.57 5.4  
 TPNV 3.30 35 eP 32 01.70 -1.3  
 GLA 3.36 110 (Pn) 32 03.94 0.2

MMFM 3.37 354 ePg 32 10.13 5.9  
 MEMM 3.42 355 ePg 32 11.09 6.6  
 MSU 6.70 49 ePg 33 13.85 22.7

51 obs. associated

? JAN 27, 1994 14h 39m 12.02± 1.05s  
 40.654 N ± 10.0km 29.882 E ± 7.1km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.5 (ISK).

EYL 0.23 113 iPg 39 16.90 -0.1

HRT 0.23 316 iPg 39 17.20 0.2

YLV 0.40 257 iPg 39 19.80 -0.4

IZI 0.44 225 iPg 39 21.40 0.3

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

\* JAN 27, 1994 14h 41m 23.34± 1.92s

44.944 N ± 13.1km 3.341 E ± 11.7km

DEPTH = 5.0km (geophysicist)

FRANCE (538)  
 ML 2.5 (LDG).

LBL 0.30 347 Pg 41 29.28 -0.1

COLF 0.63 23 Pg 41 32.05 0.4

PYM 0.84 344 Pg 41 39.34 -0.8

CAF 0.91 269 Pg 41 40.00 -1.2

SSB 0.91 68 Pg 41 56.38 15.1X

PLDF 1.04 11 Pg 41 43.67 0.1

AGO 1.12 353 Pg 41 44.63 -0.1



RY5	0.75	300	P	20	12.56	-0.6
ABL	0.79	317	ipd	20	12.80	-1.1
ELMC	0.80	71	P	20	13.44	-0.6
BMTC	0.86	358	P	20	14.27	-0.8
ARVC	0.88	346	P	20	14.68	-0.6
GAV	0.91	106	P	20	15.11	-0.6
TEJ	0.96	354	P	20	16.10	-0.6
CSP	1.00	88	P	20	16.96	-0.4
ELS	1.13	123	P	20	18.45	-1.2
WJPM	1.14	3	P	20	19.06	-0.7
PEC	1.22	108	ipd	20	19.79	-1.4
WHVM	1.23	2	P	20	20.69	-0.7
WB5M	1.31	15	P	20	21.96	-0.7
BLKC	1.37	53	P	20	22.73	-0.7
ISA	1.39	3	ePd	20	23.04	-0.7
WASM	1.46	0	P	20	24.14	-0.7
SCCM	1.48	297	P	20	24.43	-0.6
WSCM	1.53	21	P	20	24.64	-1.0
BCH	1.55	306	eP	20	25.11	-0.9
YEG	1.63	316	P	20	26.44	-0.7
WCHM	1.65	14	P	20	26.79	-0.9
NMC	1.66	19	P	20	26.46	-1.1
PLM	1.69	122	eP	20	26.21	-1.9
CLC	1.73	27	P	20	27.40	-1.2
VP5M	1.78	20	P	20	28.57	-0.8
WLHM	1.89	6	P	20	30.46	-0.6
INS	1.99	99	P	20	32.86	0.3
PAGM	2.01	317	P	20	32.12	-0.4
PMRM	2.04	318	P	20	32.56	-0.5
PMCM	2.07	315	P	20	32.79	-0.7
COY	2.08	115	P	20	35.08	1.4
PHAM	2.17	317	eP	20	33.28	-1.6
PK5M	2.19	325	eP	20	34.04	-1.1
CTM	2.20	319	P	20	36.09	0.6
WKR	2.22	314	P	20	34.27	-1.3
PSTM	2.30	317	P	20	35.59	-1.1
PADM	2.33	306	P	20	35.64	-1.6
CBKC	2.37	125	P	20	36.90	-0.8
PCRM	2.38	320	P	20	41.04	3.2
BATC	2.41	109	P	20	38.88	0.7
PANM	2.44	309	P	20	36.88	-1.9
PSMM	2.45	318	P	20	38.00	-0.9
PTV	2.54	317	P	20	38.68	-1.6
PJLM	2.79	311	P	20	41.58	-2.2
LRC	2.83	315	P	20	42.09	-2.1
BMSM	3.00	323	P	20	44.95	-1.7
MTUM	3.07	360	ePn	20	47.43	-0.4
BR5M	3.15	325	P	20	47.72	-1.1
TPNV	3.27	35	ipd	20	49.68	-1.0
GLA	3.35	110	ePn	20	51.72	0.1
MMPM	3.35	354	ePn	20	51.98	0.0
			eS	21	41.40	
MRCM	3.39	1	ePn	20	52.33	-0.1
			eS	21	44.03	
BSRM	3.39	316	P	20	49.86	-2.4
MEMM	3.40	355	ePn	20	52.20	-0.1
SAO	3.42	317	eP	20	50.15	-2.5
DIL	3.58	316	P	20	52.59	-2.4
HCOM	3.66	316	P	20	53.50	-2.5
BO5R	3.68	3	ePn	20	56.25	-0.4
CBO	3.81	319	P	20	57.47	-0.7
ARN	3.90	323	ePn	20	57.19	-2.3
COE	3.91	321	ePn	20	58.91	-0.6
MHC	3.95	322	eP	21	03.76	3.4
TNP	3.95	16	ePn	20	59.81	-0.6
CMB	4.03	339	eP	21	00.73	-0.6
HMR	4.67	327	ePn	21	09.18	-1.3
NT5M	5.27	322	(P)	21	17.99	-0.9
ARUT	5.43	48	ePn	21	20.26	-1.1
ORV	5.77	337	eP	21	23.69	



27d 17h

RMW 13.40 350 (P) 23 09.94 -0.9  
 RSSD 14.93 45 (P) 23 30.63 -0.5  
 1.1s 13.29nm 4.3mb  
 UYO 19.93 83 iPc 24 34.60 1.7  
 MIAR 20.61 82 eP 24 38.38 -1.6  
 0.9s 12.28nm 4.3mb  
 ULM 23.03 39 eP 25 05.00 0.9  
 YKA 28.35 4 eP 25 47.20 -6.7  
 0.8s 1.20nm 3.7mb  
 MBC 42.06 360 eP 27 52.50 1.6  
 1.0s 3.00nm 4.0mb  
 RES 42.10 9 eP 27 51.00 -0.3  
 FRB 42.38 30 eP 27 53.00 -0.6  
 1.0s 6.00nm 4.3mb  
 98 obs. associated

? JAN 27, 1994 17h 27m 31.15± 1.81s  
 36.494 N ±17.6km 21.841 E ±15.4km  
 DEPTH = 5.0km (geophysicist)  
 SOUTHERN GREECE (368)  
 MD 3.5 (ATH).

VLI 0.91 75 ePg 27 48.80 -0.2  
 eSg 28 04.50  
 VLS 1.95 330 ePn 28 05.00 -0.3  
 ATH 2.10 45 ePg 28 12.80 5.4X  
 VAM 2.20 119 ePn 28 09.00 0.1  
 NPS 3.30 111 ePb 28 28.50 4.0X  
 KZN 3.81 359 ePn 28 32.20 0.4  
 S.D. = 0.6 on 4 of 6 obs.

& JAN 27, 1994 17h 56m 33.71s  
 34.179 N 118.623 W  
 DEPTH = 3.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

TWL 0.10 13 P 56 35.59 -0.3  
 FIL 0.30 324 P 56 40.16 0.4  
 PVRC 0.47 154 P 56 42.95 -0.3  
 LHU 0.52 20 P 56 43.50 -0.6  
 LRRC 0.60 55 P 56 44.74 -1.0  
 PEM 0.62 91 P 56 45.10 -1.1  
 THC 0.73 357 P 56 47.84 -0.4  
 RYS 0.76 308 P 56 48.06 -0.9  
 LJB 0.76 57 P 56 47.27 -1.7  
 SSK 0.77 87 eP 56 47.86 -1.3  
 ABL 0.83 324 eP 56 48.68 -1.6  
 SBB 0.83 52 P 56 48.91 -1.4  
 ARVC 0.96 350 P 56 51.38 -1.2  
 MARC 1.01 324 P 56 52.47 -1.0  
 CSP 1.06 83 P 56 52.90 -1.4  
 HYS 1.11 52 P 56 53.56 -1.6  
 PEC 1.25 103 eP 56 55.65 -1.9  
 eS 57 13.68  
 DTP 1.26 30 P 56 56.36 -1.4  
 HOD 1.31 60 P 56 57.38 -1.3  
 OLYC 1.46 120 P 56 59.13 -1.8  
 BLKC 1.47 52 P 57 01.21 0.1  
 ISA 1.49 5 eP 56 59.68 -1.7  
 BCH 1.57 310 eP 57 01.06 -1.5  
 PLM 1.68 119 eP 57 02.05 -2.2  
 WSHM 1.72 32 P 57 06.23 1.5  
 GSC 1.87 53 eP 57 05.31 -1.6  
 TPC 2.14 91 P 57 12.05 1.3

27 obs. associated

? JAN 27, 1994 18h 06m 33.28± 3.74s  
 15.008 N ±32.9km 99.156 W ±16.2km  
 DEPTH = 33.0km (normal)  
 3.9mb (1 obs.)  
 OFF COAST OF GUERRERO, MEXICO (65)

ACX 1.97 340 iP 06 58.00 -7.0X  
 iS 07 02.25  
 OXX 3.12 48 iP 07 21.50 0.0  
 (S) 07 59.00  
 PPM 4.07 7 (P) 07 33.50 -1.8  
 (S) 08 13.00  
 UNM 4.30 360 (P) 07 38.50 0.2  
 IISM 4.31 23 (P) 07 39.00 0.8  
 (S) 08 26.00  
 CRX 4.40 354 (P) 07 40.50 0.6  
 MRX 5.06 338 (P) 07 49.00 0.2  
 LVVM 5.37 28 eP 07 44.75 -8.4X  
 YKA 48.67 351 eP 15 15.80 -0.2  
 0.9s 1.10nm 3.9mb

S.D. = 1.0 on 7 of 9 obs.

& JAN 27, 1994 18h 57m 10.88s  
 34.406 N 116.508 W  
 DEPTH = 1.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.1 (GS).

CPM 0.36 134 P 57 18.01 -0.1  
 TPC 0.48 128 P 57 20.26 -0.3  
 INDC 0.63 158 P 57 22.94 -0.6  
 FRGC 0.75 150 P 57 24.94 -0.8  
 PEC 0.75 227 iPd 57 24.77 -1.0  
 SS2 0.84 257 P 57 26.85 -0.9  
 CTW 0.90 144 P 57 27.94 -0.9  
 COY 1.05 171 P 57 30.40 -1.1  
 PLM 1.09 196 iPc 57 31.06 -1.2  
 SBB 1.12 285 P 57 31.56 -1.2  
 VPD 1.20 241 P 57 32.84 -1.1  
 XMS 1.31 328 P 57 35.43 -0.5  
 WSHM 1.47 327 P 57 36.38 -2.1  
 SUP 1.56 158 P 57 37.15 -2.5  
 LHU 1.59 280 P 57 40.11 -0.2  
 SRTC 1.64 322 P 57 41.40 0.5  
 TOW 1.74 324 P 57 43.18 0.9  
 WBSM 1.75 311 P 57 42.06 -0.6  
 RCWM 1.80 329 P 57 42.77 -0.5  
 YUH 1.82 164 P 57 41.11 -2.4  
 BMTC 1.87 294 P 57 43.04 -1.2  
 VPEN 1.88 326 P 57 46.97 2.5  
 WJPM 1.91 302 P 57 45.11 0.3  
 CIW 1.94 242 P 57 45.40 0.2  
 GLA 1.95 133 eP 57 42.42 -2.9  
 WCHM 1.95 319 P 57 44.04 -1.6  
 ARVC 2.04 291 P 57 48.30 1.6  
 ISA 2.04 308 ePn 57 46.59 -0.2  
 eS 58 14.76  
 ABL 2.28 282 eP 57 48.67 -1.7  
 WLHM 2.28 320 P 57 52.27 1.8  
 TPNV 2.55 5 ePn 57 52.73 -1.3  
 BCH 3.04 286 ePn 58 01.01 -0.1  
 MTUM 3.38 331 (Pn) 58 06.29 0.3  
 TNP 3.71 351 (Pg) 58 19.95 9.2  
 MMPM 3.79 328 (Pg) 58 20.65 8.6  
 MEMM 3.80 330 ePn 58 12.12 0.3  
 BONR 3.83 338 (Pn) 58 13.13 0.7  
 ARUT 4.19 35 ePn 58 15.80 -1.6  
 38 obs. associated

% JAN 27, 1994 19h 03m 08.65± 3.27s  
 10.936 N ±13.4km 62.248 W ±32.4km  
 DEPTH = 33.0km (normal)  
 NEAR COAST OF VENEZUELA (97)

TRN 0.88 109 eP 03 24.79 0.2  
 eS 03 26.94  
 TPP 1.00 128 eP 03 26.31 0.0  
 eS 03 39.00  
 TBH 1.24 111 eP 03 29.61 -0.2  
 eS 03 43.64  
 GRW 1.35 25 eP 03 31.54 0.2  
 eS 03 46.73  
 BOT 1.52 81 eP 03 33.76 0.0  
 SVB 2.52 23 eP 03 48.32 0.2  
 eS 04 22.61  
 SVV 2.57 23 eP 03 48.60 -0.3  
 eS 04 23.37

S.D. = 0.3 on 7 of 7 obs.

\* JAN 27, 1994 19h 22m 55.53± 1.08s  
 33.364 N ±11.0km 92.511 E ±15.2km  
 DEPTH = 33.0km (normal)  
 3.8mb (4 obs.)  
 QINGHAI, CHINA (325)

LSA 3.83 198 Pnc 23 56.80 2.7  
 Pg 24 02.40  
 Sg 24 56.00  
 GTA 8.43 42 P 24 58.50 0.1  
 1.5s 25.00nm 5.1mb X  
 Z 12s 1.20um 5.0MsZ  
 LZH 9.72 71 eP 25 18.00 1.8  
 Z 10s 1.07um  
 N 11s 2.89um  
 S 27 10.00  
 CD2 9.84 101 eP 25 22.20 4.3X  
 N 10s 1.81um

KMI 12.13 130 eP 25 48.00 -1.1  
 Z 12s 1.30um  
 CHTO 15.59 157 eP 26 32.90 -1.6  
 TIY 16.78 69 Pc 26 52.60 3.0X  
 NST 18.92 157 eP 27 15.50 -0.6  
 BJI 20.08 64 eP 27 33.00 4.1X  
 1.2s 8.00nm 3.9mb  
 Z 12s 0.30um 3.9MsZ  
 N 12s 0.94um  
 HYB 20.24 222 eP 27 26.50 -4.3X  
 TIA 20.40 75 eP 27 32.20 -0.1  
 POO 22.30 233 eP 27 54.50 2.9X  
 GBA 23.99 218 P 28 07.00 -1.0  
 CN2 27.61 58 eP 28 42.00 0.2  
 epP 28 52.00 36kmX  
 WRA 66.35 137 P 33 43.80 0.5  
 1.0s 0.50nm 3.6mb  
 ASPA 69.07 140 eP 34 01.40 1.1  
 0.8s 4.80nm 4.6mb  
 YKA 82.01 12 eP 35 11.40 -1.8  
 1.0s 0.90nm 3.8mb  
 S.D. = 1.5 on 12 of 17 obs.

& JAN 27, 1994 19h 41m 10.57s  
 57.840 N 155.879 W  
 DEPTH = 62.5km  
 3.5mb (1 obs.)  
 ALASKA PENINSULA (12)  
 <AEIC>. ML 3.4 (AEIC).

BGM 1.59 12 eP 41 36.46 -0.6  
 CDD 1.61 46 eP 41 35.42 -1.8  
 eS 41 55.35  
 KDC 1.82 91 eP 41 38.04 -2.0  
 eS 42 01.77  
 AUW 1.99 38 eP 41 41.33 -1.1  
 AUH 1.99 39 eP 41 41.45 -1.2  
 eS 42 05.87  
 AUP 2.00 39 eP 41 40.56 -2.1  
 AUL 2.01 39 eP 41 41.99 -0.8  
 AUE 2.01 40 eP 41 41.65 -1.1  
 PDB 2.14 23 eP 41 43.34 -1.3  
 eS 42 09.95  
 OPT 2.28 36 eP 41 45.20 -1.5  
 INE 2.66 32 eP 41 50.46 -1.6  
 ILIM 2.71 33 eP 41 51.24 -1.4  
 HOM 2.86 49 eP 41 54.56 -0.2  
 eS 42 27.30  
 CNPM 2.96 53 eP 41 52.92 -3.2  
 eS 42 29.22  
 RED 3.04 30 eP 41 56.11 -1.3  
 RS2 3.08 30 eP 41 56.69 -1.4  
 RSO 3.08 30 eP 41 56.56 -1.5  
 RDW 3.09 30 eP 41 56.52 -1.6  
 REF 3.12 30 eP 41 57.08 -1.5  
 NCT 3.12 28 eP 41 57.05 -1.5  
 DFR 3.21 29 eP 41 58.40 -1.4  
 SVV 3.28 2 eP 41 58.94 -1.8  
 SDN 3.58 228 eP 42 01.98 -2.8  
 BKG 3.73 28 eP 42 05.61 -1.4  
 NKA 3.76 37 eP 42 06.98 -0.4  
 CKT 3.86 27 eP 42 07.24 -1.6  
 BGL 3.87 26 eP 42 07.89 -1.1  
 SPU 3.88 29 eP 42 07.32 -1.8  
 CKN 3.88 27 eP 42 07.95 -1.2  
 CP2 3.90 27 eP 42 07.95 -1.6  
 CRP 3.93 27 eP 42 07.48 -2.4  
 SLKM 3.95 45 eP 42 07.34 -2.8  
 CGLM 4.00 28 eP 42 09.59 -1.2  
 SEW 4.03 53 eP 42 08.59 -2.5  
 NCG 4.04 26 eP 42 10.41 -1.1  
 MPA 4.28 49 eP 42 11.39 -3.3  
 SUA 4.47 33 eP 42 15.88 -1.6  
 SKT 4.69 26 eP 42 20.45 -0.1  
 FWA 4.88 36 P 42 20.70 -2.4  
 KNIM 4.89 56 eP 42 17.15 -6.2  
 FWL 4.91 49 eP 42 18.59 -5.0  
 PLRM 5.08 39 eP 42 22.22 -3.7  
 TTA 5.11 359 eP 42 23.58 -2.9  
 KNK 5.20 43 eP 42 22.74 -4.9  
 GHO 5.28 39 eP 42 25.14 -3.7  
 CFI 5.32 48 eP 42 24.56 -4.7  
 CUT 5.37 29 eP 42 27.82 -2.1  
 HIN 5.47 58 eP 42 25.89 -5.5  
 SML 5.51 41 eP 42 27.35 -4.6  
 FID 5.63 55 eP 42 27.42 -6.2  
 VZW 5.75 52 eP 42 30.79 -4.5



27d 19h

CVA 5.87 58 eP 42 30.90 -6.1  
 VLZ 5.88 52 eP 42 32.35 -4.7  
 KLU 6.23 50 eP 42 37.07 -5.1  
 TRF 6.26 24 eP 42 39.23 -3.4  
 TOA 6.48 45 P 42 41.90 -3.6  
 RND 6.56 29 eP 42 43.36 -3.4  
 TZL 6.73 47 eP 42 45.10 -3.9  
 GLB 7.10 54 eP 42 48.60 -5.5  
 CRQM 7.15 61 eP 42 48.69 -6.2  
 TGL 7.29 61 eP 42 50.77 -6.1  
 THY 7.48 37 eP 42 53.00 -6.4  
 BALM 7.60 59 eP 42 54.52 -6.7  
 YAH 7.70 65 eP 42 56.84 -5.8  
 DDM 7.71 35 eP 43 00.41 -2.2  
 HDA 7.87 29 eP 43 01.10 -3.6  
 CTGM 8.05 61 eP 43 01.45 -6.0  
 YKA 20.77 60 eP 45 41.20 -6.9  
 0.5s 1.20nm 3.5mb  
 68 obs. associated

& JAN 27, 1994 20h 41m 11.93s  
 34.356 N 118.552 W  
 DEPTH = 4.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.0 (PAS), 3.1 (GS).

TWL 0.09 204 P 41 13.69 -0.2  
 LHU 0.34 20 P 41 18.27 -0.4  
 ECF 0.46 283 P 41 21.73 0.6  
 LRRC 0.47 68 P 41 20.71 -0.6  
 FTC 0.59 331 P 41 22.95 -0.7  
 TPO 0.59 27 P 41 22.93 -0.7  
 DBM 0.64 14 P 41 23.90 -0.9  
 RYS 0.72 294 P 41 26.47 0.1  
 SSK 0.73 101 iPc 41 25.43 -1.0  
 eS 41 36.97  
 ABL 0.74 312 ePn 41 25.27 -1.5  
 PLEC 0.74 325 P 41 26.90 0.1  
 BMT 0.78 357 P 41 26.04 -1.6  
 ARVC 0.80 344 P 41 26.46 -1.5  
 TEJ 0.88 353 P 41 28.11 -1.2  
 CALC 0.90 34 P 41 28.45 -1.2  
 MARC 0.91 315 P 41 29.09 -0.9  
 LPC 0.97 279 P 41 30.68 -0.3  
 CSP 0.99 93 P 41 30.25 -1.1  
 WJPM 1.05 3 P 41 31.07 -1.3  
 TMB 1.09 312 P 41 32.82 -0.2  
 HOD 1.18 66 P 41 33.43 -1.1  
 WBSM 1.23 16 P 41 35.41 0.0  
 CPT 1.24 105 P 41 34.77 -0.7  
 PEC 1.24 111 eP 41 33.89 -1.7  
 eS 41 50.82  
 BTL 1.29 94 P 41 35.74 -0.7  
 ISA 1.31 3 eP 41 35.20 -1.5  
 CRGC 1.31 313 P 41 36.36 -0.4  
 WORM 1.36 11 P 41 37.79 0.1  
 WASM 1.38 360 P 41 39.25 1.2  
 BCH 1.51 304 eP 41 39.35 -0.5  
 POB 1.51 116 P 41 37.91 -1.9  
 XMS 1.52 40 P 41 39.32 -0.7  
 WSHM 1.54 34 P 41 40.15 -0.1  
 WCHM 1.57 14 P 41 41.93 1.0  
 TOW 1.59 24 P 41 42.79 1.9  
 GSC 1.72 56 eP 41 41.68 -1.1  
 PLM 1.73 125 eP 41 40.53 -2.5  
 RCWM 1.75 25 P 41 42.36 -1.0  
 WLHM 1.80 6 P 41 45.79 1.5  
 CPM 1.96 95 P 41 48.16 1.8  
 YAG 2.18 122 P 41 51.25 1.8  
 BRGC 2.31 120 P 41 53.16 1.9  
 MTUM 2.99 360 (Pn) 42 00.43 -0.7  
 TPNV 3.20 35 ePn 42 02.98 -1.0  
 MPM 3.27 353 (Pn) 42 05.27 0.0  
 MRCM 3.31 1 ePn 42 14.06 8.4  
 MEMM 3.32 355 ePn 42 05.09 -0.5  
 BONR 3.60 3 (Pn) 42 09.81 0.0  
 48 obs. associated

JAN 27, 1994 20h 41m 12.62± 0.69s  
 37.890 N ± 5.5km 29.397 E ± 7.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.2 (ISK).

KHL 0.44 13 iPg 41 21.50 -0.2  
 iSg 41 30.00  
 BCK 1.04 114 ePn 41 32.00 -0.3

CIN 1.08 255 iPg 41 27.00 -5.9X  
 iSg 41 41.00  
 ELL 1.21 160 ePn 41 35.50 0.2  
 ALT 1.29 25 ePn 41 36.50 -0.1  
 IZM 1.76 287 ePn 41 43.10 -0.2  
 DST 1.82 341 ePn 41 44.00 -0.2  
 IZI 2.44 1 ePn 41 54.00 0.7  
 S.D. = 0.5 on 7 of 8 obs.

JAN 27, 1994 21h 21m 51.96± 0.57s  
 37.288 N ± 5.4km 4.195 W ± 4.9km  
 DEPTH = 5.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.6 (MDD).

ELOJ 0.14 167 iPd 21 54.30 -0.7  
 eS 21 57.00  
 ELUQ 0.28 348 iPg 21 57.75 0.2  
 eSg 22 03.10  
 ECOG 0.50 91 iPg 22 01.99 0.0  
 eSg 22 10.80  
 EGUA 0.68 132 ePg 22 05.98 0.5  
 eSg 22 15.40  
 EPRU 0.89 249 iPg 22 10.31 0.8  
 eSg 22 21.50  
 EBAN 0.93 20 ePg 22 10.63 0.4  
 eSg 22 22.40  
 EHOR 0.99 303 eP 22 11.36 0.1  
 eS 22 24.00  
 LIJA 1.05 249 eP 22 10.00 -2.3  
 EJIF 1.32 231 ePn 22 18.44 1.6  
 eSn 22 35.40  
 EHUE 1.38 67 ePn 22 18.34 0.4  
 eSn 22 37.70  
 EVIA 1.90 44 ePn 22 24.31 -1.1  
 eSn 22 48.50  
 S.D. = 1.2 on 11 of 11 obs.

& JAN 27, 1994 21h 29m 00.31s  
 34.249 N 118.486 W  
 DEPTH = 12.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. MD 2.6 (PAS). ML 2.7 (GS).

TWL 0.09 288 P 29 02.93 -0.4  
 PYR 0.38 327 P 29 08.09 -0.2  
 CJV 0.40 45 P 29 07.73 -0.9  
 LRRC 0.47 54 P 29 09.18 -0.8  
 PEM 0.52 99 P 29 10.11 -0.7  
 LJB 0.63 57 P 29 11.72 -1.0  
 SSK 0.66 93 eP 29 12.61 -0.7  
 SBB 0.70 51 P 29 13.02 -0.9  
 DBM 0.74 8 P 29 13.88 -0.7  
 VPD 0.74 125 P 29 14.42 -0.2  
 ABL 0.85 315 eP 29 15.53 -1.2  
 BMT 0.89 354 P 29 16.52 -0.7  
 CSP 0.94 87 P 29 17.55 -0.5  
 HYS 0.97 51 P 29 17.96 -0.7  
 SME 1.03 114 P 29 18.76 -0.8  
 PEC 1.16 108 eP 29 20.72 -1.0  
 HOD 1.18 60 P 29 21.68 -0.5  
 BTL 1.23 89 P 29 23.29 0.2  
 BLKC 1.34 51 P 29 24.45 -0.3  
 RAY 1.41 98 P 29 26.88 1.0  
 RMR 1.58 91 P 29 29.29 1.0  
 BCH 1.61 306 eP 29 29.02 0.3  
 PLM 1.62 123 eP 29 27.98 -0.9  
 GSC 1.74 52 eP 29 30.64 0.2  
 COY 2.01 115 P 29 37.25 2.8  
 BRGC 2.21 119 P 29 39.97 2.8  
 TPNV 3.25 33 (Pn) 29 53.36 1.1  
 27 obs. associated

& JAN 27, 1994 21h 38m 07.40± 0.75s  
 44.392 N ± 6.6km 7.338 E ± 8.4km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 1.6 (GEN).

STV 0.15 184 P 38 10.78 -0.1  
 S 38 12.61  
 ENR 0.18 160 P 38 11.28 -0.1  
 S 38 13.66  
 PZZ 0.20 304 P 38 12.29 0.3  
 S 38 15.49  
 ROB 0.39 104 P 38 15.77 0.3

BHB 0.45 353 P 38 16.27 -0.3  
 S.D. = 0.4 on 5 of 5 obs.  
 -----  
 JAN 27, 1994 23h 17m 59.28± 0.81s  
 31.748 N ± 5.4km 10.009 W ± 6.3km  
 DEPTH = 30.0 ± 7.6 km  
 3.9mb (4 obs.)  
 MADEIRA ISLANDS REGION (393)  
 mbLg 4.0 (MDD).

JHA 0.49 91 iP 18 10.50 1.0  
 iS 18 13.50  
 CIA 1.07 100 iP 18 18.00 -0.3  
 iS 18 26.50  
 OUK 1.90 106 iP 18 29.50 -0.7  
 iS 18 47.50  
 TZC 3.02 81 iP 18 46.00 -0.2  
 iS 19 15.50  
 RTC 3.47 50 eP 18 53.50 1.0  
 iS 19 30.00  
 CZD 4.40 72 iP 19 06.00 0.4  
 iS 19 48.50  
 MIF 4.46 67 iP 19 06.00 -0.5  
 iS 19 49.00  
 TGT 4.77 60 iP 19 10.50 -0.4  
 iS 19 59.50  
 CFTV 4.85 228 iPc 19 09.70 -2.4  
 iS 20 04.40  
 TSY 4.94 42 iP 19 15.50 2.1  
 iS 20 05.00  
 BIT 5.28 41 iP 19 20.00 1.9  
 iS 20 13.00  
 TZK 5.43 63 iP 19 19.50 -0.7  
 iS 20 13.50  
 PLAT 5.61 38 iP 19 24.00 1.1  
 FIG 5.64 18 eP 19 25.50 2.3X  
 iS 20 25.50  
 MOMI 5.79 37 eP 19 30.00 4.7X  
 EJIF 6.02 38 iPnd 19 29.56 1.0  
 eSn 20 28.80  
 GGC 6.08 235 P 19 28.20 -1.3  
 eS 20 37.00  
 ALJ 6.12 35 eP 19 28.00 -2.1  
 CTFE 6.32 241 eP 19 34.00 1.1  
 iS 20 40.40  
 LIJA 6.39 35 eP 19 34.00 0.1  
 EVAL 6.41 24 ePn 19 34.31 0.2  
 eSn 20 41.00  
 EPRU 6.53 36 ePn 19 36.29 0.4  
 eSn 20 41.90  
 MOE 6.89 11 iPd 19 42.50 1.6  
 iS 20 56.00  
 EHOR 7.21 32 eP 19 44.88 -0.5  
 eS 20 58.70  
 EGUA 7.36 45 ePn 19 43.70 -3.7X  
 eSn 20 59.90  
 ELUQ 7.48 38 ePn 19 48.61 -0.6  
 eSn 21 03.40  
 TBT 7.49 248 iPc 19 49.70 0.4  
 eS 21 09.00  
 ECOG 7.66 42 ePn 19 50.77 -1.0  
 EBAN 8.19 37 ePn 19 57.54 -1.5  
 eSn 21 20.90  
 EHUE 8.59 43 ePn 20 03.74 -0.9  
 eSn 21 31.10  
 MTE 8.87 12 iPc 20 09.50 1.1  
 iS 21 42.50  
 EPLA 8.89 20 ePn 20 09.61 0.9  
 eSn 21 41.50  
 PAB 9.04 29 ePn 20 09.60 -1.2  
 ePb 20 16.00  
 eSg 21 41.00  
 EVIA 9.22 40 ePn 20 10.90 -2.4  
 eSn 21 44.50  
 MVO 9.70 13 e(P) 20 08.00 -11.9X  
 S 21 50.00  
 GUD 10.06 26 ePn 20 24.29 -0.6  
 eSn 22 09.70  
 ECHE 10.73 41 ePn 20 31.97 -2.1  
 eSn 22 21.00  
 ETOR 11.09 33 ePn 20 38.65 -0.3  
 eSn 22 33.00  
 ECRI 12.37 27 ePn 20 57.61 1.4  
 eSn 23 04.70  
 LKO 22.47 169 P 22 57.71 0.2  
 0.5s 2.50nm 4.0mb  
 GEC2 24.72 39 P 23 20.20 1.1



27d 23h

0.6s	0.80nm	3.5mb	Z 10s	0.32um	4.1MsZx	PRU	64.21 322 P	15 49.90	0.6
	e	23 28.90	N 10s	1.10um		LRM	64.43 46 eP	15 50.90	-0.3
	e	23 33.60	E 10s	0.40um		SRO	64.63 318 eP	15 51.80	-0.2
KIC	25.73 168 P	23 30.17 1.3	SSE	25.93 208 eP	10 45.70 -0.8	MOX	64.67 324 iPd	15 52.80	0.5
0.6s	2.00nm	3.9mb	N 10s	0.60um			1.3s 29.00nm		5.3mb
LIC	25.82 169 P	23 30.93 1.3	XAN	27.85 232 P	11 04.00 -0.1	ZST	64.77 319 e(P)	15 53.30	0.3
0.7s	2.50nm	3.9mb	1.0s	7.10nm	4.4mb	EKA	64.83 335 P	16 03.00	9.7X
S.D. = 1.3	on 39 of 43 obs.		Z 10s	0.89um	4.6MsZx		2.1s 20.30nm		4.9mb
			N 10s	1.07um		KHC	65.27 322 P	15 56.50	0.2
			E 10s	0.87um			1.0s 14.00nm		5.1mb
? JAN 27, 1994	23h 18m 44.25± 8.29s		GTA	28.29 251 Pc	11 09.00 0.9		e	16 01.60	16km
39.194 N ±43.3km	30.612 E ±61.0km		1.2s	17.00nm	4.7mb		e	17 27.00	
DEPTH = 5.0km	(geophysicist)		Z 12s	2.11um	5.0MsZx	GEC2	65.47 322 P	15 57.50	-0.1
TURKEY	(366)		pP	11 13.50	16km		0.7s 4.43nm		4.7mb
ML 2.8 (ISK).			LZH	28.64 242 eP	11 12.00 0.6		e	16 03.10	18km
ALT	0.41 251 iPg	18 52.50 -0.1	2.0s	33.00nm	4.7mb		e	16 07.10	
	iSg	18 57.00	Z 10s	1.71um	5.0MsZx	GRF	65.62 324 iPc	15 59.20	0.8
GPA	1.12 348 ePg	19 05.00 -0.7	N 10s	0.88um			1.1s 25.00nm		5.3mb
EYL	1.41 346 ePn	19 11.10 0.3	NVS	29.29 291 eP	11 15.80 -1.0	ULM	66.74 33 eP	16 06.50	1.0
IZI	1.44 323 ePn	19 11.60 0.5	1.7s	22.00nm	4.7mb	PTI	66.86 48 (P)	16 07.49	0.8
DST	1.59 286 ePn	19 13.00 -0.2		i	14 21.00	KBA	67.09 321 iPc	16 08.90	0.8
HRT	1.78 336 ePn	19 16.00 0.1	ANM	30.23 48 eP	11 25.45 0.4		0.6s 16.80nm		5.3mb
S.D. = 0.5	on 6 of 6 obs.		WMQ	32.27 270 P	11 44.70 1.4	DLF	67.50 336 iPd	16 10.60	0.3
			0.6s	4.90nm	4.6mb		1.2s 221.00nm		6.2mb X
JAN 28, 1994	01h 05m 13.76± 0.14s		CD2	32.86 236 iPd	11 48.90 0.4	WATA	67.51 322 iPc	16 11.30	0.7
55.040 N ± 2.6km	135.214 E ± 2.8km		E 10s	0.58um		WTTA	67.55 322 iPc	16 11.60	0.7
DEPTH = 17.5km	( 4 depth phases)		IMA	34.65 43 eP	12 03.51 -0.3		0.8s 11.20nm		5.1mb
5.0mb ( 70 obs.)			0.6s	9.38nm	4.9mb	MTN	67.71 184 eP	16 11.40	-0.5
SOUTHEASTERN SIBERIA, RUSSIA	(656)		TTA	34.67 49 eP	12 03.50 -0.4		0.9s 93.00nm		5.9mb
YAK	7.56 340 iPd	07 04.90 -0.8	GYA	35.35 228 iPc	12 09.60 -0.5	SQTA	67.74 322 iPc	16 12.50	0.5
0.9s	148.00nm	6.2mb X	1.2s	26.00nm	5.0mb		1.0s 16.40nm		5.1mb
	e	08 24.00	pP	12 15.60	20km	OGA	68.10 322 iPc	16 15.30	0.9
YSS	9.32 147 eP	07 31.00 0.9	SVW	35.49 51 eP	12 14.48 3.6X		0.7s 9.00nm		5.0mb
0.7s	50.00nm	5.9mb	CP2	36.93 50 eP	12 26.07 2.9X	BONR	68.18 55 eP	16 15.60	0.4
Z 13s	1.30um	5.0MsZx	CRP	36.97 50 eP	12 25.03 1.6	OSS	68.57 323 ePc	16 17.90	0.6
N 13s	1.00um		FBA	37.36 43 eP	12 26.94 0.5	HAU	68.69 326 eP	16 17.30	-0.5
E 13s	0.80um		0.6s	15.11nm	5.0mb		0.6s 4.50nm		4.8mb
(S)	09 12.00		PWA	37.80 49 eP	12 29.80 -0.4	BSF	68.70 325 eP	16 17.60	-0.4
MDJ	11.04 201 eP	07 54.50 0.7	PMR	38.15 49 eP	12 33.33 0.2		0.8s 13.15nm		5.1mb
1.1s	32.00nm	5.5mb	0.9s	30.15nm	5.1mb	LLS	68.80 324 ePc	16 19.00	0.2
ASAJ	11.94 153 eP	08 21.20 15.3X	KMI	38.24 232 eP	12 34.00 -0.5	DUG	68.86 50 eP	16 19.48	0.3
BOD	11.96 292 eP	08 05.80 -0.4	1.0s	10.00nm	4.5mb		0.9s 4.86nm		4.7mb
	eS	10 24.80	Z 10s	0.80um	4.8MsZx	RSSD	69.19 41 eP	16 20.55	-0.6
CN2	12.90 213 eP	08 19.30 0.5	N 10s	0.50um			1.0s 11.15nm		5.0mb
0.8s	28.00nm	5.5mb	E 10s	0.60um		HVAR	69.21 317 iPc	16 19.60	-1.5
	eS	10 43.00	ARU	41.08 305 eP	12 56.00 -1.5	DAU	69.35 48 eP	16 22.88	0.5
CIT	13.20 266 eP	08 21.50 -1.3		e	14 31.00 521kmX	TMA	69.51 323 ePc	16 23.10	0.0
KUSJ	13.46 149 eP	08 32.40 6.3X		e	14 55.00	TPNV	69.95 54 eP	16 25.42	-0.5
HOJ	13.73 154 eP	08 32.80 3.1X	BALM	41.31 47 eP	13 00.39 0.9		0.5s 3.58nm		4.8mb
PET	13.91 89 eP	08 32.00 0.0	CHTO	45.44 232 ePc	13 33.10 -0.1	DIX	70.03 324 iPc	16 27.10	0.8
Z 14s	1.90um		0.9s	9.59nm	4.7mb	FLN	70.09 331 eP	16 26.00	-0.3
	eS	11 08.00	RES	46.35 16 eP	13 41.00 1.2		0.9s 24.25nm		5.3mb
SNY	15.28 215 Pc	08 56.10 6.1X	0.6s	3.00nm	4.5mb	LOR	70.14 327 eP	16 26.20	-0.4
1.2s	24.00nm	4.4mb	DAG	47.42 352 iPd	13 47.70 -0.6		0.7s 9.80nm		5.0mb
Z 10s	2.05um	4.3MsZx	0.6s	20.67nm	5.4mb	LDF	70.14 330 eP	16 26.20	-0.4
	S	11 42.50	NST	47.68 228 eP	13 51.00 0.1		0.7s 9.80nm		5.0mb
NIJ	17.99 170 eP	09 22.60 -1.7	NDI	48.82 262 eP	14 00.00 0.3	EMS	70.20 324 ePc	16 27.50	0.2
IRK	18.45 274 eP	09 34.00 4.1X	KAF	50.65 325 iP	14 12.70 -0.6	LBF	70.35 327 eP	16 27.50	-0.5
1.8s	64.00nm	4.5mb	0.5s	10.90nm	5.1mb		0.7s 7.30nm		4.9mb
E 12s	1.12um		YKA	50.80 34 eP	14 13.60 -0.8	SSF	70.43 327 eP	16 27.90	-0.5
MAT	18.62 172 eP	09 31.00 -1.0	1.1s	7.90nm	4.6mb		0.5s 3.85nm		4.8mb
BJI	19.66 228 Pd	09 46.00 1.6	OBN	51.71 314 iPd	14 21.20 -0.2	MSU	70.52 50 eP	16 30.08	0.6
1.4s	37.00nm	4.5mb	1.0s	35.00nm	5.2mb	GRR	70.54 331 eP	16 28.90	-0.1
ZAK	19.79 270 iPc	09 46.50 0.8	NUR	52.37 324 iP	14 25.90 -0.4		0.7s 19.60nm		5.3mb
2.4s	192.00nm	5.0mb	0.4s	8.70nm	5.0mb	ARUT	70.55 51 eP	16 30.06	0.5
YONJ	19.89 184 P	09 46.00 -0.8	MAIO	53.37 283 eP	14 36.00 1.8	SMF	70.70 327 eP	16 29.60	-0.5
WKYJ	20.82 179 eP	09 57.20 0.6	QUE	53.58 272 eP	14 36.60 0.6		0.9s 16.70nm		5.2mb
TKSJ	21.07 183 P	10 02.10 3.0X	UPP	55.15 327 iP	14 46.30 -0.5	AVF	70.72 327 eP	16 29.70	-0.5
HHC	21.13 238 Pd	10 00.80 1.0	NB2	56.10 331 P	14 53.70 -0.1		0.7s 9.70nm		5.0mb
1.2s	97.00nm	5.1mb	0.5s	17.90nm	5.4mb	LPL	70.75 324 eP	16 31.20	0.5
Z 10s	3.04um	5.0MsZx	HFS	56.13 329 eP	14 53.20 -0.7		0.8s 10.05nm		5.0mb
N 11s	0.70um		0.5s	38.40nm	5.7mb	LPG	70.76 324 eP	16 31.30	0.4
BTO	22.08 240 eP	10 10.00 0.6	HYB	56.96 252 eP	14 59.00 -1.4		0.9s 13.75nm		5.1mb
N 10s	0.81um		POO	58.66 257 eP	15 18.00 5.7X	LPF	70.91 331 eP	16 31.40	0.1
	ePP	10 41.00	RMW	59.14 50 eP	15 17.10 1.7		0.7s 11.90nm		5.1mb
TIA	22.56 221 eP	10 19.60 5.6X	FRB	60.12 12 eP	15 20.50 -1.3	MAF	71.47 327 eP	16 34.80	0.0
Z 14s	1.65um	4.6MsZx	1.0s	8.00nm	4.8mb		0.6s 4.35nm		4.7mb
N 11s	0.71um		GBA	60.69 251 P	15 25.00 -1.2	TCF	71.52 328 eP	16 34.90	-0.2
	eS	14 21.00	UZH	62.40 316 eP	15 47.00 9.6X		0.6s 6.05nm		4.9mb
TIY	23.22 231 eP	10 21.00 0.4	1.0s	18.00nm	5.2mb	PV09	71.86 48 eP	16 37.43	-0.1
1.0s	48.00nm	5.0mb	SPC	62.76 318 eP	15 38.50 -1.5	SBF	71.97 323 eP	16 37.80	0.0
Z 10s	4.57um	5.2MsZx	VRI	62.78 312 eP	15 40.00 0.0		0.6s 14.35nm		5.2mb
	S	14 33.00	MLR	63.41 312 eP	15 45.00 0.7	PV08	72.00 48 eP	16 37.34	-1.1
UER	24.57 279 eP	10 37.00 3.6X	ISR	63.43 311 eP	15 44.50 0.1	PV10	72.00 48 eP	16 38.64	0.3
NJ2	25.73 213 Pd	10 45.80 1.2	KOD	63.47 248 eP	15 44.50 -0.7	LRG	72.69 324 eP	16 42.20	0.2
0.8s	37.00nm	5.1mb	CLL	63.64 324 iPc	15 45.00 -0.5		0.6s 13.90nm		5.2mb
			0.9s	28.00nm	5.4mb	LMR	72.75 323 eP	16 41.50	-0.8



0.9s 6.70nm 4.7mb  
CAF 72.79 327 eP 16 43.30 0.7  
0.8s 12.65nm 5.0mb  
LFF 73.19 328 eP 16 45.60 0.7  
0.7s 16.30nm 5.2mb  
LPO 73.28 328 eP 16 46.10 0.7  
0.8s 11.95nm 5.0mb  
WB2 74.68 181 eP 16 52.50 -1.2  
0.6s 10.70nm 5.1mb  
WRA 74.68 181 P 16 53.50 -0.2  
0.7s 4.30nm 4.6mb  
ASPA 78.39 181 eP 17 13.40 -1.1  
1.1s 11.80nm 4.8mb  
WMOK 79.33 43 eP 17 18.85 -0.8  
0.7s 12.63nm 5.0mb  
ELC 80.48 34 eP 17 23.65 -2.0  
UYO 81.47 40 iPd 17 31.10 0.1  
LTX 82.02 49 eP 17 33.77 -0.3  
LPAZ 137.35 34 PKP 24 43.00 4.3X  
LPB 137.59 34 (PKP) 24 44.00 5.2X  
S.D. = 0.8 on 120 of 135 obs.

? JAN 28, 1994 01h 06m 08.55± 7.48s  
36.410 N ±64.0km 2.859 W ±10.6km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 2.9 (MDD). Felt.

EGUA 0.71 307 iPgC 06 22.62 0.1  
eSg 06 29.60  
ENIU 0.77 43 iPgC 06 23.26 -0.3  
eSg 06 32.00  
ECOG 1.03 327 iPgC 06 27.80 -0.4  
eSg 06 38.00  
EHUE 1.42 9 ePn 06 34.99 0.5  
eSn 06 51.60  
EBAN 1.90 337 ePn 06 43.42 2.1X  
eSn 07 06.60  
EVIA 2.24 7 ePn 06 48.90 2.5X  
eSn 07 14.80  
S.D. = 0.7 on 4 of 6 obs.

JAN 28, 1994 01h 52m 15.94± 0.34s  
19.560 S ± 5.3km 69.048 W ± 6.0km  
DEPTH = 116.0km (10 depth phases)  
5.2mb (6 obs.)  
NORTHERN CHILE (123)

LPB 3.14 17 iPd 53 07.60 2.4  
LPAZ 3.37 15 P 53 08.60 0.2  
CCH 3.51 52 iPd 53 11.80 1.8  
ARE 3.86 323 iPc 53 12.80 -1.9  
iS 53 40.50  
SIV 8.39 66 P 54 14.20 -2.1  
RTRS 10.57 182 eP 54 47.00 1.6  
NNA 10.62 314 iPd 54 41.50 -4.8X  
0.7s 13.70nm 4.9mb  
eS 56 29.70  
RTLL 11.73 178 e(P) 55 01.50 0.7  
RTCB 11.88 179 e(P) 55 01.00 -1.8  
CFA 12.02 177 e(P) 55 04.30 -0.3  
PPD 16.77 102 iPc 56 06.60 1.4  
i 56 08.50  
e 56 16.50  
RSTA 19.22 109 eP 56 33.20 -0.4  
BDFB 20.42 82 ePd 56 45.68 -0.4  
BAO 20.44 82 eP 56 45.70 -0.7  
i 56 49.20 13kmX  
e 56 53.00  
i 56 57.00  
i 57 27.90  
i 57 32.80  
i 57 38.00  
VAO 20.86 103 eP 56 50.40 0.0  
CACB 20.99 100 ePc 56 52.00 0.1  
e 56 54.10 8kmX  
VAO 21.27 104 eP 56 50.40 -4.2X  
CDCB 22.89 96 ePc 57 10.80 0.4  
i 57 11.20 1kmX  
SDV 28.31 357 eP 57 58.70 -2.2X  
JSC 54.79 348 iP 01 34.59 -1.3  
PRM 54.83 346 iPc 01 34.97 -1.3  
UYO 58.65 335 iPc 02 02.30 -1.0  
LTX 58.97 325 iPc 02 04.38 -1.3  
epP 02 31.74 112km  
FVM 60.66 341 iP 02 15.24 -1.7  
epP 02 44.28 119km

GAC 65.21 355 eP 02 46.00 -0.7  
LIC 67.99 75 Pc 03 04.12 -0.9  
0.7s 26.50nm 5.3mb  
GOL 68.01 330 iPd 03 04.94 0.0  
epP 03 33.43 114km  
TIC 68.16 74 Pc 03 05.32 -0.8  
1.0s 41.00nm 5.3mb  
KIC 68.30 75 Pc 03 06.38 -0.6  
0.7s 58.00nm 5.6mb  
LKO 68.85 71 Pc 03 09.69 -0.7  
0.6s 20.50nm 5.1mb  
SRU 70.09 327 iPc 03 17.79 0.2  
ipP 03 46.55 115km  
MSU 70.51 325 iPc 03 21.16 0.9  
e 03 41.95  
ipP 03 50.08 115km  
ARUT 70.68 324 iPc 03 22.55 1.3  
ipP 03 51.54 115km  
RSSD 71.00 334 iPc 03 23.09 0.0  
ipP 03 52.57 118km  
DAU 71.43 327 iPd 03 26.23 0.4  
ULM 73.44 342 eP 03 38.50 1.5  
HHAI 74.13 329 iPc 03 42.16 0.8  
ipP 04 11.69 117km  
LRM 76.04 330 eP 03 53.00 0.6  
e 04 22.70 117km  
ORV 76.51 321 iPc 03 56.34 1.5  
SYO 78.33 160 ePd 04 07.60 3.2X  
DPW 80.26 329 iPc 04 16.25 1.1  
ipP 04 46.53 118km  
RMW 81.79 327 eP 04 23.49 0.4  
FRB 83.03 0 eP 04 29.00 0.0  
PAB 84.23 45 eP 04 40.10 4.3X  
YKA 89.32 341 eP 05 00.30 0.4  
0.8s 9.50nm 4.9mb  
GBA 147.38 95 PKP 11 51.00 5.3X  
HYB 149.22 89 ePKP 11 58.70 10.0X  
MAT 150.74 311 ePKP 11 57.00 6.6X  
S.D. = 1.1 on 40 of 48 obs.

? JAN 28, 1994 01h 52m 42.95± 1.60s  
40.688 N ±17.0km 30.056 E ±13.3km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.5 (ISK).

EYL 0.14 147 iPg 52 46.40 0.0  
eSg 52 49.40  
HRT 0.32 295 iPg 52 49.40 -0.3  
YLV 0.53 257 ePg 52 53.80 0.0  
ISK 0.84 297 ePg 52 59.50 0.3  
eSg 53 11.50  
S.D. = 0.4 on 4 of 4 obs.

% JAN 28, 1994 02h 31m 07.20± 0.75s  
9.715 N ± 8.0km 69.776 W ± 7.5km  
DEPTH = 10.0km (geophysicist)  
VENEZUELA (101)  
Felt at Guarico and El Tocuyo.

TOV 0.07 347 iPgD 31 09.70 0.0  
iSg 31 11.80  
SDV 1.18 226 iPd 31 29.40 0.0  
iSn 31 45.70  
CEOS 1.58 115 eP 31 35.00 -0.3  
eS 31 55.40  
CANV 1.61 35 ePd 31 36.00 0.2  
eS 32 01.70  
MORO 1.84 51 iPd 31 38.30 -0.9  
eS 32 06.60  
GUAC 2.51 79 eP 31 48.90 0.0  
LLAV 3.02 75 eP 31 57.00 1.0  
eS 32 39.70  
S.D. = 0.7 on 7 of 7 obs.

& JAN 28, 1994 02h 49m 27.88s  
35.790 N 120.346 W  
DEPTH = 9.9km  
CENTRAL CALIFORNIA (39)  
<GM-P>. MD 2.8 (GM). ML 2.8  
(PAS).

PHAM 0.06 317 iPc 49 30.11 -0.1  
PKEM 0.33 35 eP 49 35.60 0.8  
PSMM 0.34 324 P 49 35.52 0.5  
PRI 0.44 324 P 49 37.24 0.4  
YEG 0.47 138 P 49 37.60 0.1

BCH 0.64 160 eP 49 40.08 -0.7  
PHCM 0.66 261 P 49 40.86 -0.3  
CRGC 0.75 137 P 49 42.63 0.0  
SCCM 0.86 170 P 49 44.29 -0.2  
PKM 0.99 154 P 49 46.70 -0.1  
MARC 1.14 133 P 49 48.43 -0.8  
FRI 1.30 23 P 49 50.86 -1.2  
ABL 1.31 135 eP 49 50.35 -2.0  
SAO 1.32 318 eP 49 51.28 -1.0  
PLEC 1.33 128 P 49 52.65 0.2  
ARVC 1.40 118 P 49 51.91 -1.6  
WASM 1.46 92 P 49 53.38 -1.0  
WHVM 1.51 100 P 49 53.58 -1.6  
ISA 1.53 94 eP 49 54.04 -1.3  
WJPM 1.57 103 P 49 55.00 -0.9  
BMT 1.57 114 P 49 54.20 -1.8  
NMC 1.98 88 P 50 02.63 0.7  
WSCM 2.00 92 P 50 03.11 0.9  
TOW 2.10 89 P 50 04.73 1.2  
DTP 2.11 104 P 50 04.19 0.5  
MEMM 2.19 31 eP 50 05.24 0.5  
CLC 2.23 89 P 50 06.46 0.9  
CMB 2.24 359 ePn 50 05.47 -0.2  
SSK 2.69 125 (P) 50 13.92 1.8  
TPNV 3.50 70 ePn 50 23.66 0.0  
30 obs. associated

? JAN 28, 1994 03h 53m 45.56± 5.31s  
36.945 N ±15.2km 13.408 W ±50.1km  
DEPTH = 10.0km (geophysicist)  
NORTH ATLANTIC OCEAN (402)  
mbLg 3.8 (MDD).

EVAL 5.35 81 ePn 55 08.07 0.7  
eSn 56 03.00  
JHA 6.15 147 iP 55 18.00 -0.5  
iS 56 21.00  
EPLA 6.54 59 ePn 55 24.35 0.2  
eSn 56 33.20  
EHOR 6.56 80 eP 55 24.52 0.1  
eS 56 31.80  
CIA 6.61 143 iP 55 25.00 -0.1  
iS 56 33.50  
OUK 7.33 140 iP 55 36.00 0.7  
iS 56 51.50  
PAB 7.59 67 ePn 55 39.00 0.1  
eSn 56 59.50  
EBAN 7.74 78 ePn 55 39.81 -1.2  
eSn 57 00.80  
GUD 8.11 60 ePn 55 46.43 0.1  
eSn 57 10.50  
EVIA 8.80 76 eP 55 54.04 -1.8X  
eS 57 26.00  
S.D. = 0.7 on 9 of 10 obs.

\* JAN 28, 1994 04h 29m 24.61± 1.69s  
19.537 N ±16.5km 102.610 W ±16.4km  
DEPTH = 33.0km (normal)  
3.5mb (1 obs.)  
MICHIOACAN, MEXICO (57)

MRX 1.35 83 iP 29 46.00 -1.3  
iS 30 00.00  
CRX 2.77 92 iP 30 08.00 0.1  
(S) 30 49.00  
UNM 3.24 93 eP 30 18.00 3.4X  
ACX 3.73 135 eP 30 20.50 -0.7  
iS 31 02.00  
PPM 3.79 96 iP 30 23.00 0.4  
(S) 31 16.00  
IISM 4.97 95 eP 30 39.50 0.5  
MZK 5.09 316 iP 30 47.00 6.4X  
LVVM 5.81 87 (P) 30 56.50 5.7X  
OXX 6.10 113 eP 30 56.00 0.9  
UYO 16.27 25 iPc 33 19.30 7.0X  
YKA 43.72 352 eP 37 28.20 0.1  
0.9s 0.80nm 3.5mb  
S.D. = 0.9 on 7 of 11 obs.

& JAN 28, 1994 04h 58m 33.96s  
34.310 N 118.460 W  
DEPTH = 7.7km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.3 (PAS), 3.4 (GS).

SCY 0.20 179 P 58 37.77 -0.5  
SADC 0.28 217 P 58 39.08 -0.8



28d 04h

LHU	0.36	6 P	58 40.77	-0.6
LRRC	0.42	59 P	58 41.79	-0.6
FOXC	0.46	24 P	58 42.84	-0.5
PEM	0.51	106 P	58 43.49	-0.7
LJB	0.58	61 P	58 44.41	-1.2
TPO	0.60	19 P	58 45.06	-0.9
SSK	0.64	99 iPd	58 45.80	-1.1
SBB	0.65	54 P	58 45.66	-1.3
FTC	0.66	328 P	58 46.56	-0.8
DEM	0.67	7 P	58 46.54	-1.0
SS2	0.80	97 P	58 48.61	-1.3
RYS	0.81	295 P	58 49.18	-0.8
PLEC	0.83	323 P	58 50.36	0.1
ABL	0.83	311 ePc	58 49.06	-1.3
BMTC	0.83	352 P	58 49.16	-1.2
SNDC	0.84	9 P	58 49.56	-0.9
ARVC	0.87	340 P	58 50.09	-0.8
CALC	0.90	28 P	58 50.30	-1.1
CSP	0.91	90 P	58 50.70	-1.0
MARC	1.00	314 P	58 52.38	-0.8
LPC	1.05	281 P	58 53.20	-0.9
DTP	1.08	28 P	58 53.63	-0.9
WJPM	1.10	359 P	58 54.08	-0.8
PEC	1.16	111 iPd	58 54.38	-1.4
		eS	59 10.46	
SNS	1.16	139 P	58 54.34	-1.5
TMB	1.18	312 P	58 55.70	-0.5
WSM	1.25	12 P	58 56.72	-0.9
BLKC	1.28	52 P	58 57.12	-0.9
ISA	1.35	360 eP	58 58.34	-0.8
CRGC	1.40	312 P	58 58.97	-0.9
WORM	1.39	7 P	59 00.29	0.5
WSHM	1.54	31 P	59 00.35	-1.5
SCCM	1.55	295 P	59 01.11	-0.8
NMC	1.60	16 P	59 03.32	0.7
BCH	1.60	304 eP	59 01.49	-1.2
TOW	1.60	21 P	59 01.98	-0.7
WCHM	1.60	11 P	59 01.97	-0.9
PLM	1.64	125 ePd	59 01.66	-1.7
GSC	1.68	54 eP	59 02.95	-1.0
VPWM	1.72	18 P	59 05.77	1.3
RCWM	1.77	22 P	59 06.69	1.5
WLHM	1.84	4 P	59 07.73	1.3
PHAM	2.20	314 eP	59 11.12	-0.3
MTUM	3.04	358 (Pn)	59 23.87	0.5
TPNV	3.19	34 ePn	59 24.63	-0.9
		ePg	59 33.54	
GLA	3.28	111 ePn	59 26.44	-0.3
MMPM	3.33	352 (Pn)	59 28.13	0.5
		eS	00 16.65	
MEMM	3.37	354 (Pn)	59 28.34	0.4
		eS	00 19.52	
BONR	3.64	2 (Pn)	59 30.01	-2.1
CMB	4.03	338 (P)	59 37.67	0.3
MSU	6.58	49 ePg	00 35.56	21.9
			53 obs. associated	

% JAN 28, 1994 05h 42m 50.35± 0.91s  
47.785 N ± 6.4km 0.378 W ± 10.9km  
DEPTH = 10.0km (geophysicist)

FRANCE (538)  
ML 2.2 (LDG).

LFF	0.51	299 Pg	43 00.70	0.0
		Sg	43 07.50	
GRR	0.68	332 Pg	43 03.90	0.0
		Sg	43 12.90	
LDF	0.83	12 Pg	43 06.40	0.1
		Sg	43 16.70	
FLN	0.98	356 Pg	43 08.90	-0.1
		Sg	43 21.80	
MFF	1.19	172 Pg	43 12.60	0.0
		Sg	43 28.30	

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

& JAN 28, 1994 05h 47m 51.82s  
34.358 N 118.631 W  
DEPTH = 11.3km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 3.2 (PAS), 3.5 (GS).

FIL	0.18	291 P	47 56.11	0.1
SCY	0.29	150 P	47 57.52	-0.5
QAL	0.40	350 P	47 59.32	-0.7
LRRC	0.53	71 P	48 01.59	-0.9
THC	0.55	357 P	48 02.12	-0.9
FTC	0.55	337 P	48 02.24	-0.8

VPVS	0.60	162 P	48 02.88	-0.9
PEM	0.66	107 P	48 04.03	-0.8
RYS	0.66	296 P	48 04.21	-0.8
ABL	0.69	315 ePc	48 04.36	-1.2
PLEC	0.71	330 P	48 05.53	-0.2
BMTC	0.78	2 P	48 05.82	-1.1
SSK	0.79	100 eP	48 06.36	-0.8
SNDC	0.83	19 P	48 07.03	-0.8
MARC	0.87	318 P	48 07.80	-0.6
TEJ	0.87	357 P	48 07.88	-0.6
LPC	0.91	279 P	48 08.82	-0.3
CIS	0.97	169 P	48 08.92	-1.2
HYS	1.01	60 P	48 10.31	-0.6
TMB	1.04	315 P	48 11.22	-0.2
WJPM	1.06	7 P	48 11.01	-0.7
PKM	1.12	299 P	48 12.06	-0.7
WHVM	1.15	5 P	48 12.50	-0.8
HOD	1.24	67 P	48 14.22	-0.6
CRGC	1.26	315 P	48 14.50	-0.7
PEC	1.31	110 eP	48 13.68	-2.2
		eS	48 32.79	
ISA	1.31	6 eP	48 15.21	-0.7
BTI	1.35	94 P	48 16.48	-0.3
WASM	1.38	3 P	48 16.90	-0.2
SCCM	1.40	295 P	48 16.31	-0.9
BCH	1.45	305 eP	48 17.24	-0.8
		eS	48 37.96	
WSCM	1.48	24 P	48 17.15	-1.2
YEG	1.53	315 P	48 18.23	-0.9
WSHM	1.58	36 P	48 18.36	-1.4
NMC	1.60	22 P	48 21.22	1.1
TOW	1.61	26 P	48 22.22	1.9
VPWM	1.72	23 P	48 24.07	2.1
GSC	1.77	57 ePc	48 21.67	-1.0
PLM	1.78	124 eP	48 21.65	-1.2
		eS	48 47.38	
RCWM	1.78	27 P	48 25.05	2.3
PTRM	1.83	315 P	48 22.63	-0.8
PHAM	2.07	316 eP	48 25.48	-1.4
PSTM	2.20	316 P	48 27.63	-1.1
PHBM	2.23	328 P	48 29.05	-0.1
PAPM	2.72	306 P	48 33.58	-2.7
LRC	2.73	314 P	48 33.95	-2.4
MTUM	2.99	1 ePn	48 38.72	-1.4
TPNV	3.23	36 ePn	48 41.94	-1.6
		ePg	48 52.52	
MMPM	3.26	354 (Pn)	48 44.33	0.2
MRCM	3.31	2 ePg	48 51.91	7.2
MEMM	3.31	356 ePn	48 45.60	1.1
		eS	49 34.88	
GLA	3.43	111 (Pn)	48 46.80	0.6
BONR	3.60	4 (Pn)	48 48.90	0.0
JRGM	3.81	316 P	48 48.56	-3.1
CMB	3.93	339 eP	48 53.76	0.3
ARUT	5.42	49 ePn	49 13.87	-0.8
MSU	6.65	50 ePg	49 55.54	23.4

57 obs. associated

? JAN 28, 1994 06h 49m 49.33± 5.16s  
34.903 N ± 59.1km 34.777 E ± 37.6km  
DEPTH = 10.0km (geophysicist)

CYPRUS REGION (372)  
ML 3.2 (BHL), 2.7 (CSS).

FAM	0.64	279 iPd	50 43.00	40.8X
CSS	1.19	273 eP	50 11.50	0.0
		eS	50 25.50	
BHL	1.23	144 Pg	50 12.00	-0.3
		Sg	50 26.00	
PPCY	2.00	270 eP	50 23.50	0.0
SHMJ	2.32	159 P	50 28.50	0.3
JARJ	2.83	160 P	50 36.10	0.6
SALJ	2.98	165 P	50 37.00	-0.6

S.D. = 0.6 on 6 of 7 obs.

\* JAN 28, 1994 06h 57m 01.95± 1.72s  
51.096 N ± 16.3km 7.727 E ± 7.2km  
DEPTH = 10.0km (geophysicist)  
GERMANY (543)  
ML 2.6 (BNS).

BNS	0.37	249 ePc	57 10.10	0.5
		1.3s 215.00nm		
		eS	57 19.80	
KOE	0.67	180 iPd	57 15.90	0.6
		iS	57 33.00	
STB	0.75	229 iPc	57 15.80	-0.9

0.2s 78.00nm

		iS	57 33.00	
TNS	0.99	152 ePnc	57 20.40	-0.3
		eSn	57 38.80	
		iSg	57 41.60	
WLF	1.75	216 eP	58 06.00	33.5X
DOU	2.23	245 iP	58 42.60	63.1X
SNF	2.26	256 iP	58 11.20	31.3X
MOX	2.50	99 ePg	57 43.40	0.0
		iSg	58 18.70	

S.D. = 0.9 on 5 of 8 obs.

JAN 28, 1994 07h 15m 01.60± 0.65s  
37.508 N ± 5.1km 21.796 E ± 7.0km  
DEPTH = 79.8 ± 8.2 km  
3.9mb (2 obs.)  
SOUTHERN GREECE (368)  
MD 3.9 (ATH).

VLI	1.21	130 ePb	15 24.00	0.5
AGG	1.57	15 ePb	15 28.20	-0.1
		eSb	15 47.60	
ATH	1.59	72 ePn	15 27.90	-0.6
		eSn	15 47.00	
IGT	2.32	331 ePn	15 41.90	3.4X
		eSn	16 10.70	
LIT	2.65	12 ePn	15 43.60	0.7
KEK	2.70	325 ePn	15 47.50	3.8X
SRN	2.75	330 ePn	15 42.80	-1.6
KZN	2.79	360 ePn	15 45.20	0.2
LSK	2.80	341 ePn	15 45.00	-0.1
		iSn	16 35.50	
PAIG	2.83	31 ePn	15 45.84	0.4
		eSn	16 16.60	
VAM	2.86	137 ePn	15 45.00	-0.8
KBN	3.21	346 ePn	15 51.00	0.2
FNA	3.29	354 ePn	15 53.60	1.7
OUR	3.30	30 ePn	15 52.16	0.3
VLO	3.46	329 ePn	16 09.60	15.5X
GRG	3.48	8 ePn	15 55.20	0.7
KNT	3.75	13 iPn	15 58.80	0.6
NPS	3.81	125 ePn	16 00.00	0.9
SRS	3.86	21 ePn	15 59.84	0.0
TIR	4.12	339 ePn	16 02.60	-0.8
MMB	4.34	20 iPc	16 06.00	-0.6
LACI	4.43	339 ePn	16 03.70	-4.0X
KKB	4.46	12 iP	16 08.00	-0.3
RDO	4.65	37 ePn	16 10.00	-0.8
ALN	4.73	43 ePn	16 11.28	-0.6
RZN	4.74	27 iP	16 12.00	-0.3
KDZ	4.99	33 eP	16 16.00	0.4
VTS	5.19	12 iP	16 19.00	0.5
PVL	6.31	24 eP	16 33.00	-0.9
HVAR	6.98	326 iPn	16 39.70	-3.4X
		iSn	17 53.20	
MLR	8.56	20 eP	17 10.00	5.0X
VRI	9.13	22 eP	17 16.00	3.4X
HFS	23.23	350 eP	20 02.70	0.6

0.4s 3.40nm 4.1mb  
NB2 24.48 348 P 20 14.60 0.4  
0.4s 1.00nm 3.6mb  
KAF 24.79 5 eP 20 16.40 -0.7  
S.D. = 0.8 on 28 of 35 obs.

? JAN 28, 1994 07h 23m 46.26± 3.10s  
10.820 N ± 15.2km 62.203 W ± 34.3km  
DEPTH = 80.0km (geophysicist)  
NEAR COAST OF VENEZUELA (97)

TCE	0.46	105 eP	23 58.90	-0.9
		eS	24 10.73	
TRN	0.80	102 eP	24 03.11	-0.1
		eS	24 15.22	
TPP	0.89	124 eP	24 05.05	0.8
		eS	24 18.96	
TBH	1.17	107 eP	24 07.73	0.1
		eS	24 26.42	
GRW	1.43	22 eP	24 11.47	0.3
		eS	24 31.13	
BOT	1.50	77 eP	24 11.83	-0.1
		eS	24 32.25	

S.D. = 0.7 on 6 of 6 obs.

& JAN 28, 1994 07h 44m 46.38s  
34.233 N 118.614 W  
DEPTH = 19.9km  
SOUTHERN CALIFORNIA (43)



&lt;PAS-P&gt;. ML 3.4 (PAS), 3.4 (GS).

SADC	0.16	196	P	44	50.45	-0.6
FIL	0.26	316	P	44	52.56	0.1
ECF	0.45	300	P	44	55.66	0.0
LHU	0.47	21	P	44	55.25	-0.7
PVRC	0.52	157	P	44	56.43	-0.3
FOXC	0.59	32	P	44	57.50	-0.5
PEM	0.62	96	P	44	57.79	-0.7
THC	0.68	357	P	44	58.56	-0.9
FTC	0.68	340	P	44	58.52	-0.9
RYC	0.73	304	P	44	59.79	-0.7
SSK	0.76	91	eP	45	00.40	-0.6
ABL	0.79	321	eP	45	00.36	-1.2
SB	0.79	55	P	45	00.42	-1.0
PLEC	0.82	333	P	45	01.51	-0.4
CIS	0.84	168	P	45	01.39	-0.8
BMT	0.90	1	P	45	02.17	-1.1
ARVC	0.91	349	P	45	02.49	-0.8
SNDC	0.94	16	P	45	03.18	-0.8
LPC	0.95	286	P	45	03.38	-0.7
MARC	0.97	322	P	45	03.84	-0.6
TEJ	1.00	356	P	45	03.95	-0.9
HYS	1.07	54	P	45	05.32	-0.8
SME	1.12	111	P	45	05.44	-1.5
TMB	1.14	319	P	45	06.98	-0.3
WJPM	1.18	5	P	45	07.01	-0.9
DTP	1.21	31	P	45	07.46	-0.8
PEC	1.25	105	eP	45	07.36	-1.5
			eS	45	23.97	
WHVM	1.28	4	P	45	08.47	-0.8
HOD	1.28	61	P	45	08.68	-0.6
BT	1.33	89	P	45	09.96	-0.3
WBSM	1.36	17	P	45	09.97	-0.5
CRGC	1.36	318	P	45	11.71	1.3
ISA	1.43	5	ePd	45	10.70	-0.7
SCCM	1.47	299	P	45	11.69	-0.2
WORM	1.49	12	P	45	12.09	-0.2
WASM	1.50	2	P	45	13.44	0.9
BCH	1.54	309	eP	45	12.41	-0.6
WSHM	1.67	33	P	45	13.56	-1.3
PLM	1.70	121	eP	45	13.56	-1.9
WCHM	1.70	15	P	45	14.73	-0.8
TOW	1.72	24	P	45	15.03	-0.5
GSC	1.83	54	eP	45	16.51	-0.7
RCWM	1.89	25	P	45	17.15	-0.9
WLHM	1.93	7	P	45	21.43	2.6
PHAM	2.17	318	(P)	45	22.47	0.4
MTUM	3.11	1	ePn	45	35.72	0.1
TPNV	3.32	35	eP	45	37.60	-1.0
GLA	3.37	109	(Pn)	45	38.13	-1.0
MMPM	3.39	354	(Pn)	45	40.25	0.7
			eP	45	46.63	
MEMM	3.44	356	ePn	45	40.49	0.6
BONR	3.72	4	(Pn)	45	44.38	0.0
			eP	45	53.29	
ARN	3.91	323	(P)	45	45.10	-1.6
COE	3.91	321	(P)	45	45.62	-1.1
TNP	4.00	16	(Pn)	45	48.95	0.7
			eP	45	58.13	
CMB	4.06	340	eP	45	48.37	-0.4
ARUT	5.49	48	ePn	46	08.64	-0.7
ORV	5.79	337	(P)	46	14.28	0.9
MSU	6.72	49	ePn	46	26.97	0.2

58 obs. associated

? JAN 28, 1994 08h 18m 09.37± 1.13s  
39.954 N ± 18.7km 29.133 E ± 20.5km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.5 (ISK).

IZI	0.46	34	eP	18	19.20	0.4
			eS	18	27.20	
DST	0.52	228	eP	18	20.00	0.0
			eS	18	30.00	
YLV	0.64	17	ePn	18	22.00	-0.2
EYL	0.99	52	ePn	18	28.10	-0.2

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

JAN 28, 1994 08h 19m 06.66± 0.60s  
40.093 N ± 5.4km 21.847 E ± 5.3km  
DEPTH = 5.0km (geophysicist)

GREECE (364)  
ML 2.0 (THE).

LIT	0.49	89	eP	19	16.40	-0.1
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FNA	0.78	333	eSg	19	23.00	
GRG	0.96	26	eP	19	21.58	-0.7
			iP	19	25.34	-0.1
			eSg	19	39.20	
AGG	1.13	161	eP	19	27.94	-0.4
IGT	1.29	245	ePb	19	31.70	0.6
KNT	1.33	37	iPb	19	32.14	0.4
SOH	1.36	57	iPb	19	32.94	0.7
SRS	1.68	52	ePb	19	36.54	-0.3
ALN	3.30	75	ePn	19	59.90	-0.1

S.D. = 0.5 on 9 of 9 obs.

% JAN 28, 1994 08h 33m 03.94± 0.65s  
26.850 S ± 5.7km 26.767 E ± 7.1km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.3 (PRE).

BFS	0.05	161	eP	33	05.90	0.4
			S	33	06.40	
KSR	0.99	7	eP	33	23.50	0.2
			S	33	36.00	
SWZ	1.33	255	eP	33	28.60	-0.4
			S	33	45.40	
SEK	1.65	153	eP	33	33.30	-0.6
			S	33	53.50	
SLR	1.76	51	eP	33	35.50	0.1
			S	33	58.00	
BLF	2.31	193	eP	33	44.00	0.6
			S	34	12.00	
NWL	2.97	108	eP	33	52.30	-0.4
			S	34	29.50	

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

% JAN 28, 1994 09h 02m 01.35± 0.86s  
40.428 N ± 8.1km 21.873 E ± 7.1km  
DEPTH = 10.0km (geophysicist)  
GREECE (364)  
ML 1.7 (THE).

FNA	0.52	313	eP	02	11.80	-0.1
			eSg	02	18.90	
LIT	0.57	124	eP	02	12.84	-0.2
			eSg	02	22.10	
GRG	0.66	37	eP	02	13.80	-0.8
KNT	1.07	46	eP	02	22.40	0.9
IGT	1.48	233	ePb	02	28.20	0.1

S.D. = 0.9 on 5 of 5 obs.

\* JAN 28, 1994 09h 17m 05.60± 1.66s  
4.495 S ± 17.1km 144.200 E ± 12.6km  
DEPTH = 128.8 ± 20.7 km  
3.9mb ( 1 obs.)  
NEAR N COAST OF NEW GUINEA, PNG. (200)

WWKK	1.04	326	iPd	17	29.00	-0.1
MNDI	1.74	198	eP	17	37.00	0.0
			eS	18	02.00	
YYYY	2.47	135	eP	17	47.00	0.9
OKTD	3.02	254	eP	17	53.00	-0.1
PMG	5.69	149	eP	18	28.00	-1.1
WB2	18.11	211	eP	21	10.80	0.4
	0.7s		4.40nm		3.9mb	
			eS	24	37.50	

S.D. = 1.1 on 6 of 6 obs.

? JAN 28, 1994 09h 51m 12.55± 2.25s  
18.345 N ± 26.9km 66.834 W ± 15.0km  
DEPTH = 33.0km (normal)  
PUERTO RICO REGION ( 90)

LRS	0.05	192	P	51	18.20	0.0
CLLP	0.36	137	P	51	21.00	-0.1
SJG	0.69	110	iP	51	26.30	0.4
LPR	0.92	92	P	51	29.00	-0.1
CPD	0.92	109	P	51	29.00	-0.2

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

? JAN 28, 1994 10h 55m 37.91± 1.23s  
17.181 N ± 26.9km 94.542 W ± 10.6km  
DEPTH = 168.6 ± 18.5 km  
3.3mb ( 1 obs.)  
CHIAPAS, MEXICO ( 61)

SCX	1.88	103	eP	56	13.25	0.0
			iS	56	36.00	
OXX	2.09	268	iP	56	16.00	0.2

LVM	3.12	325	eP	56	25.00	-3.0X
TPX	3.15	136	(P)	57	03.00	34.6X
IISM	3.24	304	iP	56	28.50	-1.0
			(S)	57	05.00	
PPM	4.31	296	iP	56	45.50	1.6
			(S)	57	34.00	
ACX	5.10	267	(P)	56	53.00	-0.7
LTX	14.71	327	eP	59	01.80	2.7X
MEO	17.90	349	iPc	59	37.00	-0.5
YKA	47.40	348	eP	03	57.00	0.4

0.6s 0.50nm 3.3mb

S.D. = 1.2 on 7 of 10 obs.

\* JAN 28, 1994 11h 52m 02.28± 2.88s  
32.085 S ± 16.2km 69.562 W ± 12.8km  
DEPTH = 159.2 ± 32.2 km  
MENDOZA PROVINCE, ARGENTINA (139)  
MD 3.8 (SAN).

RTCB	0.88	48	iPd	52	27.50	0.1
			(S)	52	42.50	
RTCV	0.90	76	iPd	52	27.00	-0.5
ZON	0.92	55	iPd	52	27.60	-0.1
JACH	1.06	235	iP+	52	28.80	0.0
			iS	52	46.35	
RTLL	1.20	51	iPd	52	30.50	0.5
			(S)	52	45.00	
CFA	1.22	67	iPc	52	30.00	-0.2
			S	52	48.60	
FCH	1.38	206	iP+	52	32.08	0.0
			iS	52	52.03	
PEL	1.42	222	iP+	52	32.18	0.1
			iS	52	51.94	
ROCH	1.51	234	iPd	52	33.31	0.1
			iS	52	54.21	
PCH	1.73	207	iP	52	35.49	0.1
			iS	52	58.35	
TACH	1.95	216	iP	52	37.63	-0.1
			iS	53	02.49	
CHCH	2.06	206	iP+	52	39.25	0.2
			iS	53	04.81	
LCC	2.19	230	iP+	52	40.60	0.1
CACH	2.21	203	iP	52	41.46	0.6
			iS	53	08.93	
LNV	2.43	219	eP	52	42.59	-0.8
WRA	123.43	207	Pdiff	07	23.00	8.2X
	0.9s		0.50nm			

S.D. = 0.4 on 15 of 16 obs.

\* JAN 28, 1994 11h 52m 09.51± 0.96s  
38.719 N ± 10.6km 38.688 E ± 7.8km  
DEPTH = 16.8 ± 7.2 km  
4.4mb ( 13 obs.)

TURKEY (366)

Felt at Malatya, Elazig and Diyarbakir.

GAZ	1.94	218	ePn	52	43.50	1.5
BNN	2.21	274	iPn	52	49.30	3.2X
ERZ	2.34	58	iPn	52	24.50	-23.5X
ADAT	3.11	239	eP	53	04.30	5.5X
KVT	3.11	320	iPn	52	59.00	0.2
KAS	4.61	307	eP	53	23.00	2.8X
BHL	5.39	208	Pn	53	28.00	-3.2X
			Sn	55	06.00	
TAB	6.04	94	eP	53	41.00	0.7
EYL	6.84	288	ePn	53	50.00	-1.6
IZI	7.30	286	ePn	53	50.00	-8.1X
VRI	11.37	313	eP	55	03.00	8.8X
MLR	11.63	310	eP	54	57.00	-0.8
OBN	16.45	356	eP	56	08.50	7.7X
	1.5s	35.00nm			4.3mb	
			e	58	59.00	
MAIO	16.68	92	eP	56	03.00	-1.1
			eS	56	40.00	
ZST	18.26	308	eP	56	26.10	2.6X
PRU	20.52	311	eP	56	50.50	1.1
			e	56	54.00	
GEC2	20.60	308	P	56	48.70	-1.6
	0.9s	3.68nm			3.8mb	
			e	56	54.70	
			e	56	57.60	
			e	57	00.50	
KHC	20.77	308	eP	56	51.50	-0.5
			e	56	56.70	
LPG	24.53	296	eP	57	31.70	2.2



28d 11h

1.1s 14.15nm 4.5mb  
LPL 24.55 296 eP 57 30.80 1.2  
0.5s 1.80nm 3.9mb  
BSF 24.80 302 eP 57 33.30 1.5  
0.9s 10.80nm 4.5mb  
HFS 26.60 332 eP 57 47.20 -1.2X  
0.6s 2.30nm 4.0mb  
SMF 26.64 299 eP 57 49.40 0.4  
1.0s 9.40nm 4.4mb  
SSF 26.91 299 eP 57 50.60 -0.8  
1.1s 11.50nm 4.5mb  
AVF 26.99 299 eP 57 52.30 0.2  
1.8s 57.85nm 4.9mb  
LKO 49.08 246 P 00 57.32 -0.6  
0.9s 5.50nm 4.6mb  
KIC 50.71 242 P 01 09.30 -1.1  
0.8s 16.00nm 5.0mb  
LIC 51.01 242 P 01 11.46 -1.2  
0.9s 8.50nm 4.7mb  
FRB 62.94 332 eP 02 34.50 -2.3X  
YKA 76.86 348 eP 03 58.70 -3.1X  
1.2s 1.30nm 3.9mb  
ULM 82.81 333 eP 04 34.50 0.7  
WRA 106.48 102 PKP 10 40.50 5.2X  
0.8s 0.30nm  
S.D. = 1.3 on 19 of 32 obs.

\* JAN 28, 1994 12h 33m 39.68± 0.89s  
17.904 N ±10.4km 120.164 E ±14.3km  
DEPTH = 10.0km (geophysicist)  
4.4mb ( 2 obs.)

LUZON, PHILIPPINE ISLANDS (249)

SZP 0.45 142 iPc 33 49.00 0.2  
PIP 0.60 46 iPd 33 45.00 -6.8X  
iS 34 04.50  
CVP 1.59 97 iPc 34 08.00 0.0  
iS 34 27.50  
QVP 3.36 166 eP 34 33.00 -0.3  
eS 35 10.00  
TGY 3.85 169 ePd 34 42.00 1.7X  
GQP 4.54 151 eP 34 47.50 -2.6X  
eS 35 36.00  
BJI 22.33 352 eP 38 38.50 -0.5  
1.2s 13.00nm 4.3mb  
LZH 23.16 325 eP 38 48.00 0.5  
1.5s 24.00nm 4.5mb  
pP 38 52.50 16kmX  
S.D. = 0.6 on 5 of 8 obs.

& JAN 28, 1994 12h 34m 36.20s  
34.370 N 118.491 W  
DEPTH = 1.0km

SOUTHERN CALIFORNIA ( '43)  
<PAS-P>. ML 2.7 (PAS), 2.7 (GS).

SSK 0.68 103 eP 34 49.01 -0.8  
ABL 0.77 309 eP 34 50.63 -0.9  
PEC 1.20 113 iPd 34 58.38 -1.1  
eS 35 14.98  
ISA 1.29 1 eP 35 00.71 -0.3  
BCH 1.54 302 eP 35 04.27 -0.8  
GSC 1.67 56 eP 35 05.41 -1.4  
PLM 1.69 126 eP 35 05.26 -2.0  
TPNV 3.15 35 (Pn) 35 29.00 0.9  
MMPM 3.26 352 ePg 35 35.11 5.3  
MEMM 3.31 354 (Pn) 35 31.06 0.9  
BONR 3.58 2 (Pn) 35 35.45 1.1  
11 obs. associated

& JAN 28, 1994 12h 48m 42.11s  
34.371 N 118.492 W  
DEPTH = 0.3km

SOUTHERN CALIFORNIA ( '43)  
<PAS-P>. ML 3.1 (PAS), 3.2 (GS).

TWL 0.13 223 P 48 44.38 -0.2  
LEOC 0.30 31 P 48 48.14 0.0  
CJV 0.33 61 P 48 48.50 -0.2  
LRRC 0.41 68 P 48 50.11 -0.3  
FOX 0.42 31 P 48 50.63 0.1  
PEM 0.55 111 P 48 52.84 -0.3  
LJB 0.58 67 P 48 52.79 -0.8  
FTC 0.60 327 P 48 53.72 -0.3  
LOK 0.61 306 P 48 53.97 -0.3  
SSK 0.68 103 eP 48 54.93 -0.8  
TJR 0.69 343 P 48 54.95 -0.9

PLEC 0.76 322 P 48 57.25 -0.1  
ABL 0.77 309 eP 48 56.56 -0.9  
BMTC 0.77 354 P 48 56.38 -1.1  
SS2 0.84 101 P 48 58.04 -0.8  
HYS 0.91 57 P 48 58.88 -1.3  
MARC 0.94 312 P 48 59.95 -0.9  
CIS 0.96 176 P 49 00.33 -1.0  
WJPM 1.04 1 P 49 01.22 -1.5  
HOD 1.13 65 P 49 02.90 -1.3  
CFT 1.19 106 P 49 04.51 -0.8  
PEC 1.20 113 ePc 49 03.87 -1.6  
eS 49 20.65  
BTL 1.24 95 P 49 05.48 -0.7  
ISA 1.29 1 eP 49 05.48 -1.5  
BCH 1.54 302 eP 49 10.59 -0.4  
GSC 1.67 56 eP 49 11.82 -1.0  
PLM 1.69 126 eP 49 10.93 -2.3  
PHAM 2.14 314 eP 49 18.35 -1.2  
TPNV 3.15 35 eP 49 33.02 -1.1  
MEMM 3.31 354 ePn 49 34.39 -1.7  
GLA 3.33 112 ePn 49 33.62 -2.9  
BONR 3.58 2 (Pn) 49 39.69 -0.6  
TNP 3.84 15 ePg 49 54.03 10.0  
ARN 3.86 321 eP 49 43.28 -0.9  
COE 3.87 319 (P) 49 42.93 -1.3  
CMB 3.96 338 ePn 49 43.28 -2.3  
36 obs. associated

\* JAN 28, 1994 12h 54m 35.62± 0.72s  
1.608 N ±13.6km 84.047 W ±10.6km  
DEPTH = 33.0km (normal)  
4.4mb ( 4 obs.)

OFF COAST OF ECUADOR (104)

JAMA 4.07 109 P 55 37.20 0.0  
GGP 5.73 108 P 56 00.36 -0.9  
COTA 5.85 102 P 56 01.67 -1.1  
VCI 6.07 112 P 56 05.85 -0.1  
UPA 8.59 31 iPd 56 42.21 1.5  
eS 57 07.80  
LPAZ 23.73 139 P 59 48.60 2.0  
LR 07 00.00  
LPB 23.93 139 eP 59 41.00 -7.3X  
LTX 33.31 328 eP 01 12.45 -0.2  
ALQ 39.19 330 ePc 02 02.75 0.1  
0.8s 7.63nm 4.5mb  
e 02 08.07  
PV08 43.14 331 eP 02 35.42 0.2  
e 02 40.72  
PV10 43.17 331 eP 02 34.21 -1.1  
e 02 39.99  
SRU 44.47 330 eP 02 45.93 0.2  
MSU 44.86 328 eP 02 48.50 -0.5  
ARUT 45.01 327 eP 02 50.09 0.0  
RSSD 45.90 340 eP 02 56.24 -0.9  
1.0s 8.52nm 4.6mb  
e 03 02.26  
BW06 46.91 334 eP 03 03.74 -1.5  
1.0s 3.60nm 4.3mb  
ULM 49.50 350 eP 03 27.00 2.1  
BGMT 49.95 334 eP 03 28.90 0.2  
e 03 34.20  
LRM 50.60 334 eP 03 33.70 0.1  
e 03 38.10  
ORV 50.86 323 (P) 03 36.99 1.5  
FRB 63.04 8 eP 05 01.00 -0.5  
YKA 64.89 345 eP 05 12.50 -1.2  
1.0s 1.80nm 4.1mb  
S.D. = 1.1 on 21 of 22 obs.

\* JAN 28, 1994 13h 00m 40.45± 0.91s  
44.228 N ± 6.6km 8.232 E ± 7.2km  
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)  
ML 1.9 (GEN).

FIN 0.03 223 P 00 42.59 0.1  
S 00 43.67  
ROB 0.27 285 P 00 46.28 0.1  
S 00 49.78  
PCP 0.39 35 P 00 48.39 0.0  
S 00 53.64  
IMI 0.40 218 P 00 48.75 0.0  
S 00 54.52  
ENR 0.58 270 P 00 52.10 -0.2  
S 00 59.93  
STV 0.65 272 P 00 53.59 0.1

S 01 01.83  
BHB 0.93 312 P 00 58.28 0.1  
S 01 09.61  
S.D. = 0.2 on 7 of 7 obs.

% JAN 28, 1994 13h 00m 42.94± 0.68s  
44.216 N ± 5.7km 8.203 E ± 5.3km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.0 (GEN).

FIN 0.01 149 P 00 44.73 -0.1  
S 00 45.81  
ROB 0.25 288 P 00 48.44 0.1  
S 00 51.99  
IMI 0.38 217 P 00 50.85 0.1  
PCP 0.41 37 P 00 51.41 0.1  
S 00 56.25  
ENR 0.56 271 P 00 54.42 0.0  
STV 0.63 273 P 00 55.67 0.0  
S 01 03.77  
BHB 0.92 313 P 01 00.32 -0.2  
S.D. = 0.1 on 7 of 7 obs.

? JAN 28, 1994 13h 05m 01.96± 0.93s  
44.332 N ± 8.1km 8.197 E ± 7.5km  
DEPTH = 5.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.5 (GEN).

FIN 0.12 176 P 05 04.40 -0.2  
S 05 05.37  
ROB 0.24 261 P 05 07.23 0.4  
S 05 10.48  
PCP 0.33 50 P 05 08.71 0.2  
S 05 12.56  
BHB 0.84 308 P 05 18.26 -0.4  
S.D. = 0.6 on 4 of 4 obs.

% JAN 28, 1994 13h 05m 04.10± 0.95s  
44.242 N ± 7.0km 8.236 E ± 6.5km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.5 (GEN).

FIN 0.04 212 P 05 06.19 0.0  
S 05 07.29  
ROB 0.27 282 P 05 09.80 0.0  
S 05 13.37  
PCP 0.37 36 P 05 11.82 0.0  
S 05 17.11  
ENR 0.59 269 P 05 15.72 -0.3  
S 05 23.17  
STV 0.66 271 P 05 17.42 0.2  
S 05 25.23  
PZZ 0.86 288 P 05 20.92 0.2  
S 05 31.53  
BHB 0.92 311 P 05 21.70 0.0  
S 05 33.28  
RSP 1.15 323 P 05 25.45 -0.2  
S.D. = 0.2 on 8 of 8 obs.

% JAN 28, 1994 13h 05m 28.76± 0.77s  
44.222 N ± 5.2km 8.211 E ± 6.2km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 1.7 (GEN).

FIN 0.01 188 P 05 30.96 0.3  
S 05 32.06  
ROB 0.26 287 P 05 34.81 0.6  
S 05 38.18  
IMI 0.39 217 P 05 36.55 -0.2  
PCP 0.40 37 P 05 36.92 0.0  
S 05 42.39  
ENR 0.57 271 P 05 40.23 -0.1  
STV 0.64 272 P 05 41.34 -0.3  
BHB 0.92 313 P 05 46.60 0.3  
RSP 1.15 324 P 05 49.92 -0.5  
S.D. = 0.4 on 8 of 8 obs.

% JAN 28, 1994 13h 14m 44.23± 0.85s  
44.231 N ± 6.0km 8.230 E ± 6.5km  
DEPTH = 10.0km (geophysicist)  
NORTHERN ITALY (545)  
ML 2.2 (GEN).



CMP	6.82	345	iPc	47	08.00	0.3
MLR	6.89	351	iPd	47	09.00	0.2
PVY	6.92	307	iPnc	47	09.70	0.4
			iSn	48	59.28	
SDA	6.96	301	ePn	47	13.00	3.3X
KVT	7.00	67	iPn	47	11.00	0.7
ULC	7.09	300	iPnc	47	12.40	0.8
			iSn	49	06.39	
IVA	7.11	308	iPnc	47	12.11	0.2
			iSn	49	03.36	
VRI	7.19	356	ePd	47	13.00	0.0
TTG	7.29	303	iPnc	47	15.63	1.3
			iSn	49	10.26	
TNR	7.35	342	ePd	47	14.00	-1.2
SSR	7.51	327	iPc	47	07.00	-10.4X
BDV	7.51	301	iPnc	47	18.76	1.3
			iSn	49	16.17	
NKY	7.65	305	iPnc	47	20.51	1.1
			iSn	49	18.13	
PLE	7.68	310	iPnc	47	19.57	-0.3
			iSn	49	16.17	
HCY	7.80	302	iPnc	47	22.25	0.7
			iSn	49	23.02	
GAZ	7.83	98	ePn	47	23.50	1.6
SIM	7.97	36	eP	47	23.00	-0.8
	Z	13s	10.50um			
	N	13s	10.00um			
	E	13s	11.00um			
			iS	48	49.00	
BRY	7.98	305	iPnc	47	24.98	0.8
			iSn	49	25.89	
BHL	8.14	123	Pn	47	26.00	-0.3
			Sn	49	04.00	
BZS	8.18	330	ePc	47	17.00	-9.7X
PTT	8.28	355	eP	47	13.00	-15.1X
KIS	8.38	6	iP-	47	27.00	-2.5X
	Z	12s	30.60um			
IAS	8.50	0	eP	47	30.00	-1.1
HLW	9.37	159	ePnd	47	40.50	-2.7X
SALJ	9.44	132	Pd	47	42.57	-1.8
HVAR	9.48	302	iP	47	43.50	-1.3
KFNJ	9.55	133	Pc	47	43.77	-1.9
ANN	9.58	47	iPc	47	45.00	-1.1
	0.8s	40.00nm			5.9mb	
	Z	16s	5.00um		5.4MsZx	
	N	12s	3.50um			
	E	12s	3.00um			
			eS	49	27.00	
CEI	9.71	339	eP	48	06.00	18.2X
MDSJ	10.05	132	Pc	47	50.00	-2.7X
JRDJ	10.41	137	Pc	47	43.83	-13.8X
SOC	10.43	58	eP	48	00.00	2.1
	Z	12s	12.50um			
	N	11s	6.00um			
	E	12s	13.00um			
			eS	49	56.00	
UZH	10.62	341	eP	48	04.50	4.1X
	1.4s	90.00nm			6.0mb	
PSZ	10.75	332	e(P)n	48	03.30	1.1
ZAG	11.10	314	iP	48	05.40	-1.6
			iS	51	42.20	
PTJ	11.17	314	eP	48	06.10	-1.9X
HQL	11.29	144	eP	48	06.25	-3.4X
SRO	11.30	327	eP	48	08.60	-1.1
VBY	11.35	311	iPn	48	09.70	-0.7
LVV	11.39	349	eP	48	19.00	8.1X
	Z	14s	19.30um			
	N	14s	21.00um			
SRFA	11.65	144	eP	48	11.25	-3.2X
SPC	11.71	336	eP	48	15.00	-0.5
RIY	11.79	308	eP	48	14.70	-1.7
BADA	11.91	146	eP	48	12.50	-5.6X
SOP	12.01	322	e(P)	48	18.00	-1.3
LJU	12.07	312	eP	48	18.50	-1.6
			e	48	21.50	
			eS	50	36.50	
AYN	12.08	142	eP	48		



28d 15h

PYA	12.85	61	eP	48 32.00	1.4	LIBD	17.22	310	P	49 30.92	3.6X	JAU	21.47	291	P	50 16.40	0.3		
	1.3s	150.00nm		6.1mb		STR	17.32	311	P	49 32.56	4.0X	MUD	21.53	332	iPc	50 16.00	-0.4		
Z	18s	11.50um		6.1MszX		LOMF	17.37	307	P	49 30.17	0.8		1.2s	141.00nm		5.2mb			
N	18s	8.00um				HOFF	17.37	312	P	49 32.64	3.4X	OGE	21.55	291	P	50 17.33	0.5		
E	18s	13.50um				MOF	17.38	308	P	49 31.30	1.9	ESCF	21.62	291	P	50 17.74	0.2		
OKC	12.99	332	e(P)	48 34.20	1.9	LANF	17.49	312	P	49 32.32	1.7	ATE	21.71	291	P	50 19.08	0.6		
			e	48 44.30		WLS	17.49	310	P	49 33.70	3.0X	MFF	21.73	300	eP	50 18.30	-0.3		
KBA	13.32	314	iPc	48 39.40	2.4	ECH	17.52	309	P	49 33.31	2.2		1.3s	172.55nm		5.3mb			
	1.3s	136.00nm		5.9mb		ORN	17.53	18	iPc+	49 28.90	-2.1	ACU	21.78	278	eP	50 21.65	2.5		
			i	48 48.50			1.7s	500.00nm		5.4mb		ISSF	21.78	291	P	50 19.29	0.1		
			i	49 10.10		Z	16s	12.00um		5.5MszX		MADF	21.80	291	P	50 19.08	-0.3		
			i	49 19.00		N	16s	7.60um				NUR	21.91	356	iP	50 18.40	-1.8		
KMR	13.47	318	iP-	48 40.30	1.5	E	16s	6.60um					0.9s	84.40nm		5.2mb			
GEC2	14.20	320	Pn	48 44.80	-3.7X			eS	52 38.00					eS	54 24.00				
			e	48 47.80		CDF	17.53	310	eP	49 33.00	1.7	ELYF	21.93	291	P	50 21.01	0.4		
			e	48 51.30			1.2s	213.05nm		5.1mb		ECHE	22.06	281	eP	50 26.32	4.4X		
			e	48 56.80		BSF	17.58	308	eP	49 32.20	0.2	UPP	22.09	347	iP	50 19.80	-2.2		
			e	48 58.00			1.4s	113.70nm		4.8mb			1.0s	200.00nm		5.5mb			
			e	49 02.40		TNS	17.77	317	ePnc	49 34.80	0.6			i	50 26.60				
GEC2	14.20	320	e(Pn)	48 47.90	-0.6			ec	49 36.80			LDF	22.19	305	eP	50 22.20	-0.9		
	1.1s	4.80nm		4.2mb X		HAU	17.93	308	eP	49 36.90	0.7		1.1s	85.95nm		5.1mb			
WTTA	14.40	312	iPd	48 55.90	4.6X		1.0s	69.00nm		4.7mb		ELIZ	22.32	291	P	50 25.87	1.3		
	0.8s	81.50nm		5.5mb		Z	18s	2.65um		5.1Msz		FLN	22.47	306	eP	50 25.00	-0.9		
			i	49 01.60		UQSK	17.96	131	eP	49 37.76	1.0		0.9s	45.20nm		4.9mb			
KHC	14.45	321	eP	48 51.00	-0.7	VITF	18.24	308	P	49 41.44	1.5		Z	19s	2.30um		4.6Msz		
	1.1s	67.00nm		5.2mb		MOS	18.35	18	iPc	49 40.00	-1.3	GRR	22.61	305	eP	50 26.60	-0.7		
	10s	20.00um		5.3MszX			2.0s	1100.00nm		5.7mb			0.9s	88.10nm		5.3mb			
Z	14s	18.00um				Z	15s	12.00um		5.8MszX		LPF	22.64	304	eP	50 26.70	-0.8		
E	14s	13.50um				N	15s	8.40um					1.2s	123.15nm		5.3mb			
			e	48 54.00		E	15s	5.70um						eS	53 08.00				
			e	48 58.00		QASM	18.44	128	eP	49 43.69	1.0	DHR	22.68	116	eP	50 29.29	1.2		
WATA	14.48	312	iPc	48 54.70	2.5	BSD	18.49	337	iP	49 44.00	1.1	ECRI	23.04	289	eP	50 33.22	1.6		
			i	49 00.20			1.0s	48.00nm		4.6mb		HFS	23.17	342	eP	50 31.30	-1.3		
GRO	14.49	65	iPc+	48 57.00	4.7X	WLF	18.76	313	iPc	49 47.05	0.7		1.3s	89.70nm		5.2mb			
	1.0s	380.00nm		6.0mb			1.5s	59.00nm		4.6mb		Z	15s	4.05um		5.0MszX			
Z	13s	17.00um		5.1Msz		SMF	19.07	302	eP	49 49.50	-0.7			LR	57 38.00				
E	15s	18.00um					0.8s	76.30nm		5.0mb		EVIA	23.38	279	iPc	50 36.14	1.1		
OGA	14.57	309	eP	48 53.60	0.1	LBF	19.08	303	eP	49 49.30	-1.1	KMSA	23.43	136	eP	50 37.73	2.2		
PRU	14.58	325	eP	48 53.90	0.5		1.1s	42.00nm		4.6mb		KAF	23.46	359	iP	50 35.30	-0.1		
	1.0s	30.00nm		4.9mb		LOR	19.24	304	eP	49 51.30	-1.0		1.0s	84.20nm		5.3mb			
			i	49 00.10			1.0s	56.80nm		4.8mb		ENIJ	23.48	275	eP	50 35.33	-0.6		
			eS	51 59.00		Z	19s	3.10um		7.8MszX		EHUE	23.60	277	iPc	50 38.20	1.1		
WAJH	14.63	146	eP	48 52.16	-2.0	TEH	19.25	91	eP	49 54.00	1.4	KONO	23.86	337	eP	50 38.50	-0.9		
SQTA	14.63	311	iPc	48 57.70	3.5X	SSF	19.41	303	eP	49 53.00	-1.4	ASH	24.17	82	eP	50 44.40	1.8		
	0.5s	47.70nm		5.4mb			1.1s	77.40nm		4.9mb			1.0s	540.00nm		6.1mb			
			i	49 01.70		ENN	19.42	315	ePd	49 54.50	0.1			e	54 23.50				
TAB	14.79	87	iPc	49 01.00	4.6X		1.0s	105.00nm		5.1mb				eS	55 01.00				
WET	14.81	320	iPc	49 02.00	5.6X	AVF	19.44	302	eP	49 53.40	-1.2			i	55 13.50				
	1.1s	97.00nm		5.3mb			1.0s	75.40nm		4.9mb				SS	55 49.90				
OSS	15.03	308	ePd	48 59.60	0.1	WTS	19.61	319	eP	49 57.00	0.4			i	56 01.00				
FUR	15.09	314	iPc	49 06.60	6.6X		1.2s	93.20nm		5.0mb		NRA0	24.22	341	P	50 42.10	-0.8		
	1.4s	264.00nm		5.5mb		BGF	19.71	301	eP	49 57.10	-0.7	NRE0	24.22	341	P	50 43.00	0.1		
MNK	15.21	0	eP	49 07.00	5.5X		1.0s	82.40nm		5.0mb				PP	51 07.60				
	Z	18s	8.10um			MJMA	19.71	125	eP	49 57.12	-0.8			S	55 07.90				
	N	12s	7.90um			AFIF	19.73	133	eP	49 58.69	0.5	ABHA	24.32	143	eP	50 45.85	1.4		
	E	16s	13.30um			MAF	19.82	300	eP	49 57.30	-1.6	GUD	24.37	285	iPd	50 45.20	0.5		
VDL	15.37	306	P	49 09.52	5.6X		1.1s	91.55nm		5.0mb		KMTA	24.45	142	eP	50 47.72	2.0		
BRG	15.49	326	eP	49 08.20	3.0X	DOU	19.86	312	Pc	49 58.90	-0.3	EBAN	24.45	279	iPc	50 46.29	0.9		
			i	49 11.10				Lg	56 23.00		ECOG	24.47	276	iPd	50 45.93	0.3			
TMA	15.60	304	ePd	49 12.30	5.4X	CAF	19.91	296	eP	49 59.40	-0.5	EMEL	24.50	272	P	50 47.70	1.9		
LLS	15.82	307	ePd	49 13.90	4.1X		1.3s	58.50nm		4.7mb		EGUA	24.57	275	iPc	50 46.29	-0.2		
SBF	15.93	295	eP	49 10.20	-0.8	TCF	20.07	300	eP	50 00.80	-0.8	NB2	24.57	341	P	50 46.20	-0.1		
GRF	16.00	319	eP	49 13.30	1.5		1.0s	103.60nm		5.1mb			0.8s	19.20nm		4.8mb			
	Z	16s	7.70um		4.7Msz	WIT	20.16	321	eP	49 58.00	-4.3X	PAB	24.66	282	iPc	50 48.00	0.6		
			e	49 16.70		SNF	20.22	313	Pc	50 03.30	0.3			iS	55 19.00				
HOF	16.06	321	eP	49 16.70	4.1X	RJF	20.35	297	eP	50 03.80	-0.7	ELUQ	24.95	277	iPc	50 50.07	-0.1		
	1.0s	63.00nm		4.7mb			1.2s	71.70nm		4.9mb		ELOJ	24.95	276	eP	50 49.89	-0.4		
MMK	16.17	303	ePd	49 18.60	4.3X	Z	19s	2.67um		4.6Msz		EHOR	25.65	278	iPc	50 56.39	-0.4		
CLL	16.21	326	iPd	49 15.50	1.0	LPO	20.49	295	eP	50 05.10	-0.8	EPRU	25.83	276	eP	50 58.16	-0.3		
MOX	16.40	322	eP	49 19.70	2.8X		1.4s	129.40nm		5.1mb		TZK	25.84	270	iP	51 01.00	2.5		
	1.6s	125.00nm		4.8mb		LSF	20.53	300	eP	50 05.70	-0.6	EJIF	26.15	275	iPc	50 59.73	-1.6		
FRF	16.43	294	eP	49 17.50	0.1		1.2s	92.55nm		5.0mb		EKA	26.41	319	P	51 13.00	9.4X		
	1.6s	379.35nm		5.3mb		EROQ	20.90	284	P	50 11.17	0.9		1.0s	12.30nm		4.6mb			
ZLA	16.46	308	iPd	49 20.90	3.2X	EPF	20.95	291	eP	50 08.70	-2.0	ERUA	26.47	289	eP	51 03.74	-0.6		
LMR	16.49	293	eP	49 18.50	0.3		0.8s	15.60nm		4.4mb		TGT	26.53	270	eP	51 08.00	3.1X		
	1.1s	53.00nm		4.6mb		PUL	21.17	4	ePc+	50 13.00	0.3	BIT	26.57	274	eP	51 09.00	3.8X		
SLE	16.52	309	ePd	49 21.20	2.7X		1.7s	450.00nm		5.6mb		MIF	26.79	269	iP	51 10.50	3.2X		
DIX	16.55	303	eP	49 23.00	3.9X	Z	15s	8.00um		5.2MszX		TSY	26.83	273	eP	51 10.00	2.3		
LPG	16.81	301	eP	49 23.10	0.7	N	15s	7.50um				EVAL	26.87	278	iPc	51 07.61	-0.4		
	1.0s	110.00nm		4.9mb		E	12s	6.50um				ARU	27.13	39	eP	51 10.00	-0.1		
LPL	16.82	301	eP	49 23.20	0.6			e	50 24.00					e	51 21.00				
	1.1s	139.70nm		5.0mb				e	50 30.00					e	54 28.00				
FEL	16.86	309	P	49 25.97	3.1X			e	54 15.00					eS	55 50.00				
EMS	16.86	303	ePd	49 26.10	3.1X			e	54 24.00					e	56 08.00				
RSL	16.94	301	P	49 24.96	0.9	RYD	21.36	125	eP	50 15.24	0.3			eSS	57 13.00				



	0.9s	96.00nm	5.6mb				PP	57	38.00				1.4s	4.60nm	4.3mb		
STS	27.47	290 eP	51 13.09	-0.4			eS	03	36.00				YSNY	74.99	313 P	57 20.00	11.3X
EZAM	27.64	289 eP	51 14.89	-0.1		RES	60.74	345 eP	55 38.50	-0.5		Z	19s	0.94um	5.1MsZ		
SVE	28.32	39 eP	51 20.00	-0.9			1.0s	4.00nm		4.5mb		IMA	75.57	0 eP	57 11.71	0.1	
	3.0s	140.00nm	5.2mb		BTO	61.24	59 P	55 42.50	-0.5				1.1s	22.67nm	5.2mb		
Z	13s	3.00um	5.1MsZx		N	14s	0.97um				ANM	76.58	6 eP	57 17.00	-0.2		
N	13s	2.00um			E	12s	0.32um				FBA	76.68	358 eP	57 17.06	-0.7		
E	13s	2.50um					eS	04 00.00			YSS	1.0s	10.34nm	4.9mb			
		ePPP	52 24.00		HHC	62.16	59 Pd	55 48.80	-0.4			76.95	39 iPc-	57 20.00	0.4		
		eS	56 06.00			1.4s	97.00nm		5.8mb			1.0s	60.00nm	5.7mb			
		eSS	57 45.00		Z	24s	1.35um		5.0MsZx				e	57 24.20			
SDF	28.79	359 eP	51 25.00	0.0	N	12s	0.58um						e	00 15.50			
OUK	29.80	266 iP	51 36.50	2.0			eS	04 12.00			MCWV	77.54	311 P	57 30.00	7.0X		
CIA	30.36	268 iP	51 40.00	0.5	LBTB	63.40	182 eP	55 57.14	-0.2				UML	78.40	327 eP	57 28.50	1.0
QUE	33.42	93 eP	52 06.60	0.0	XAN	63.66	66 P	55 58.00	-1.1		TTA	78.68	2 eP	57 29.10	0.2		
BCAO	35.06	196 iPc	52 20.00	-0.6		1.0s	40.00nm		5.6mb			1.2s	13.69nm	4.9mb			
	0.5s	80.00nm	5.8mb		Z	18s	1.50um		5.2MsZ		ASAJ	78.91	42 eP	57 30.10	-0.3		
		i	52 44.00		E	20s	1.85um				TOA	79.42	357 eP	57 33.30	0.4		
FRU	35.57	68 ePd	52 26.00	1.3	KMI	63.67	78 Pd	55 57.50	-2.0		CEH	79.51	308 P	57 40.00	6.1X		
	1.9s	190.00nm	5.6mb			1.0s	40.00nm		5.6mb		Z	19s	0.41um	4.8MsZ			
		e	58 05.00		BFT	64.09	177 iPc	56 02.50	0.5		PMR	80.03	358 eP	57 35.48	-0.6		
KSH	37.29	73 P	52 38.00	-1.3		1.0s	80.00nm		5.9mb			1.3s	72.41nm	5.5mb			
	1.0s	30.00nm	5.0mb		SLR	64.09	179 iPc	56 02.50	0.5		Z	20s	0.50um	4.9MsZ			
Z	20s	2.47um	5.0MsZ			1.5s	90.00nm		5.8mb		SVW	80.52	2 ePc	57 39.40	0.6		
N	12s	1.65um			CHTO	64.19	86 ePd	56 01.50	-1.3		KUSJ	80.70	41 eP	57 38.30	-1.7		
E	12s	2.32um				1.1s	26.80nm		5.4mb		MAT	81.60	50 iPc	57 44.80	-0.1		
		pP	52 44.00	20kmX	KSR	64.22	181 iPc	56 02.00	-0.8				eS	07 58.00			
NAI	40.68	166 P	53 11.00	3.1X	TIY	64.28	61 Pc	56 03.00	-0.2		MYNC	83.13	310 P	58 00.00	7.1X		
		PcP	54 56.00			Z	22s	1.95um	5.2MsZ		Z	20s	0.99um	5.2MsZ			
		ScS	03 12.00			E	15s	0.64um			SIT	83.52	351 P	58 00.00	5.6X		
		LQ	06 48.00				65.13	87 iPc	56 06.30	-2.5	GOGA	83.85	308 P	58 10.00	13.4X		
LKO	41.47	234 P	53 13.43	-0.7	BDT	65.13	87 iPc	56 06.30	-2.5		Z	18s	0.45um	4.9MsZ</			



28d 15h

Z 19s 0.80um 5.2Msz  
 BONR 97.49 333 eP 59 01.70 0.5  
 CMB 98.13 335 P 59 10.00 6.2X  
 Z 20s 0.89um 5.2Msz  
 LTX 98.41 318 eP 59 04.10 -1.1  
 TUC 99.41 325 eP 59 10.30 0.6  
 1.0s 4.78nm 5.1mb  
 Z 20s 0.77um 5.2Msz  
 ISA 99.60 332 P 59 20.00 9.5X  
 Z 21s 1.07um 5.3Msz  
 WRA 115.12 96 PKP 04 08.40 -0.5X  
 0.8s 0.50nm  
 STK 126.80 104 ePKP 04 29.70 -1.3  
 1.0s 2.10nm  
 S.D. = 1.0 on 291 of 368 obs.

JAN 28, 1994 15h 52m 53.24± 0.86s  
 38.624 N ± 6.2km 27.348 E ± 10.2km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.5 (ISK).

IZM 0.24 197 iPg 52 59.40 1.1  
 eSg 53 04.40  
 CIN 1.18 150 eP 53 13.00 -2.2  
 DST 1.40 45 ePn 53 18.20 -0.6  
 eSg 53 38.00  
 KHL 1.73 99 iPn 53 25.00 1.3  
 EDC 1.77 13 ePn 53 23.00 -1.0  
 ALT 2.20 78 ePn 53 31.00 0.6  
 IZI 2.37 43 iPn 53 33.40 0.5  
 ISK 2.77 28 ePn 53 38.00 -0.5  
 HRT 2.83 38 ePn 53 40.00 0.6  
 KDZ 3.37 335 eP 53 47.00 0.1  
 JMB 3.88 352 ePg 54 08.00 13.8X  
 S.D. = 1.2 on 10 of 11 obs.

? JAN 28, 1994 16h 03m 08.95± 1.08s  
 38.670 N ± 13.8km 27.385 E ± 25.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.29 199 ePg 03 15.00 0.0  
 eSg 03 18.00  
 DST 1.34 46 iPn 03 33.70 0.0  
 EDC 1.72 12 ePn 03 39.00 0.0  
 IZI 2.32 43 ePn 03 47.90 0.0  
 S.D. = 0.1 on 4 of 4 obs.

\* JAN 28, 1994 16h 04m 09.26± 1.30s  
 38.714 N ± 5.3km 27.246 E ± 15.9km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.7 (ISK).

IZM 0.32 178 ePg 04 16.00 0.2  
 eSg 04 21.00  
 CIN 1.29 149 ePg 04 33.00 -0.2  
 iSg 04 46.00  
 DST 1.39 50 ePn 04 35.00 0.2  
 eSg 04 53.50  
 EDC 1.70 16 ePn 04 39.00 -0.1  
 KHL 1.83 102 ePn 04 41.10 0.0  
 IZI 2.36 46 ePn 04 49.00 0.2  
 YLV 2.47 41 ePn 04 50.00 -0.3  
 S.D. = 0.3 on 7 of 7 obs.

% JAN 28, 1994 16h 07m 58.64± 1.75s  
 38.700 N ± 7.7km 27.235 E ± 19.9km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.5 (ISK).

IZM 0.30 176 ePg 08 05.00 0.0  
 DST 1.41 50 ePn 08 24.20 -0.2  
 eSg 08 44.20  
 KHL 1.83 101 ePn 08 30.10 -0.4  
 ALT 2.27 80 ePn 08 37.50 0.6  
 IZI 2.38 46 ePn 08 38.00 -0.4  
 YLV 2.49 41 ePn 08 40.00 0.1  
 HRT 2.83 41 ePn 08 45.00 0.3  
 S.D. = 0.5 on 7 of 7 obs.

\* JAN 28, 1994 16h 11m 25.67± 1.20s  
 38.690 N ± 6.0km 27.297 E ± 14.8km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.29 185 ePg 11 31.70 -0.1  
 eSg 11 36.70  
 CIN 1.25 150 ePg 11 49.00 0.0  
 iSg 12 07.00  
 DST 1.38 48 ePn 11 50.50 -0.5  
 eSg 12 09.50  
 EDC 1.71 15 ePn 11 56.00 0.3  
 KHL 1.78 101 ePn 11 57.10 0.3  
 IZI 2.35 45 ePn 12 05.00 0.0  
 S.D. = 0.4 on 6 of 6 obs.

% JAN 28, 1994 16h 16m 41.42± 1.45s  
 38.750 N ± 9.5km 27.351 E ± 16.8km  
 DEPTH = 5.0km (geophysicist)

TURKEY (366)  
 ML 3.2 (ISK).

IZM 0.36 191 ePg 16 48.70 0.1  
 eSg 16 53.70  
 DST 1.31 49 iPn 17 06.50 0.4  
 eSg 17 25.00  
 KHL 1.76 103 ePn 17 12.60 -0.2  
 ALT 2.17 81 ePn 17 19.00 0.1  
 IZI 2.28 45 ePn 17 20.00 -0.4  
 YLV 2.39 40 ePn 17 22.00 0.0  
 S.D. = 0.3 on 6 of 6 obs.

% JAN 28, 1994 16h 32m 28.50± 0.71s  
 27.946 S ± 6.1km 26.745 E ± 7.1km  
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)  
 ML 3.1 (PRE).

SEK 0.86 116 iPd 32 45.70 0.0  
 S 32 56.50  
 BFS 1.04 2 eP 32 48.60 -0.2  
 S 33 01.20  
 PRY 1.20 33 eP 32 50.40 -1.1  
 S 33 05.20  
 BLF 1.26 203 iPd 32 52.00 -0.4  
 S 33 12.50  
 SWZ 1.47 301 eP 32 56.00 0.2  
 S 33 15.30  
 KSR 2.08 4 eP 33 05.50 0.9  
 S 33 30.50  
 SLR 2.59 32 eP 33 12.50 0.5  
 S 33 42.00  
 NWL 2.85 86 eP 33 16.90 1.3  
 S 33 50.90  
 BFT 3.71 53 eP 33 26.70 -1.2  
 S 34 01.50  
 S.D. = 1.0 on 9 of 9 obs.

% JAN 28, 1994 16h 40m 36.53± 1.19s  
 38.676 N ± 8.3km 27.327 E ± 16.1km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.2 (ISK).

IZM 0.28 190 iPg 40 42.40 -0.1  
 eSg 40 47.40  
 DST 1.37 47 iPn 41 02.00 0.3  
 eSg 41 21.00  
 EDC 1.72 14 ePn 41 07.00 0.4  
 KHL 1.76 101 ePn 41 07.60 0.3  
 IZI 2.35 44 ePn 41 15.00 -0.8  
 S.D. = 0.7 on 5 of 5 obs.

% JAN 28, 1994 16h 43m 59.92± 1.37s  
 38.701 N ± 6.3km 27.294 E ± 15.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.2 (ISK).

IZM 0.30 185 iPg 44 05.90 -0.4  
 eSg 44 10.40  
 CIN 1.26 150 ePg 44 24.00 0.6  
 iSg 44 42.00  
 DST 1.38 49 ePn 44 25.00 -0.2  
 KHL 1.79 101 ePn 44 31.10 0.0  
 ALT 2.23 80 ePn 44 37.00 -0.5  
 IZI 2.35 45 ePn 44 39.00 -0.2  
 YLV 2.46 40 ePn 44 41.00 0.2  
 HRT 2.80 40 ePn 44 46.00 0.4

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

\* JAN 28, 1994 16h 52m 01.98± 1.39s  
 38.720 N ± 5.7km 27.243 E ± 16.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.4 (ISK).

IZM 0.32 177 iPg 52 09.10 0.4  
 eSg 52 13.80  
 CIN 1.30 149 ePg 52 25.00 -1.0  
 iSg 52 43.00  
 DST 1.39 50 ePn 52 28.60 1.1  
 EDC 1.69 16 ePn 52 32.00 0.3  
 KHL 1.83 102 iPn 52 35.10 1.3  
 ALT 2.26 81 ePn 52 39.50 -0.6  
 IZI 2.36 46 ePn 52 41.00 -0.5  
 YLV 2.47 41 ePn 52 43.00 0.0  
 HRT 2.81 41 ePn 52 47.00 -0.8  
 EYL 2.91 50 ePn 52 49.00 -0.3  
 S.D. = 0.9 on 10 of 10 obs.

? JAN 28, 1994 16h 57m 35.99± 1.05s  
 38.670 N ± 14.1km 27.396 E ± 24.9km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.29 201 ePg 57 42.10 0.0  
 eSg 57 47.10  
 DST 1.34 45 ePn 58 00.60 -0.1  
 eSg 58 20.00  
 EDC 1.71 12 ePn 58 06.00 0.0  
 IZI 2.31 43 ePn 58 14.90 0.1  
 S.D. = 0.1 on 4 of 4 obs.

% JAN 28, 1994 17h 03m 56.55± 1.16s  
 38.751 N ± 7.2km 27.313 E ± 14.9km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 3.1 (ISK).

IZM 0.36 186 iPg 04 03.80 -0.1  
 eSg 04 08.80  
 DST 1.33 50 iPn 04 21.10 0.0  
 eSg 04 40.00  
 EDC 1.65 15 ePn 04 26.00 0.4  
 KHL 1.78 103 ePn 04 28.00 0.3  
 IZI 2.30 46 ePn 04 35.00 -0.2  
 YLV 2.41 41 ePn 04 36.40 -0.3  
 S.D. = 0.3 on 6 of 6 obs.

? JAN 28, 1994 17h 09m 29.69± 1.62s  
 38.554 N ± 25.6km 27.563 E ± 24.8km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)  
 ML 2.8 (ISK).

IZM 0.28 237 iPg 09 35.70 0.1  
 eSg 09 40.70  
 DST 1.34 38 ePn 09 54.90 0.5  
 EDC 1.81 7 ePn 10 01.00 -0.1  
 IZI 2.31 39 ePn 10 08.00 -0.5  
 S.D. = 0.7 on 4 of 4 obs.

? JAN 28, 1994 17h 24m 53.11± 1.71s  
 38.674 N ± 10.6km 27.270 E ± 31.1km  
 DEPTH = 5.0km (geophysicist)

TURKEY (366)  
 ML 2.9 (ISK).

IZM 0.28 181 iPg 24 58.70 0.0  
 eSg 25 03.70  
 DST 1.41 48 ePn 25 19.10 -0.4  
 EDC 1.73 15 ePn 25 24.00 0.0  
 IZI 2.38 45 ePn 25 33.90 0.4  
 S.D. = 0.6 on 4 of 4 obs.

JAN 28, 1994 17h 25m 51.79± 1.51s  
 33.286 S ± 6.4km 70.854 W ± 7.1km  
 DEPTH = 59.2 ± 20.1 km  
 CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.6 (SAN).

PEL 0.20 45 iPd 26 01.58 0.3  
 iS 26 08.74  
 ROCH 0.34 337 iP 26 02.37 -0.1



CIN	1.27	152	eSg	42	12.00	
			ePn	42	24.00	0.0
			iSg	42	42.00	
DST	1.34	48	ePn	42	25.40	0.2
EDC	1.68	14	ePn	42	30.00	0.1
IZI	2.32	45	ePn	42	39.00	-0.3
S.D. = 0.2 on 5 of 5 obs.						
? JAN 28, 1994 18h 45m 29.40± 0.96s						
38.631 N ± 8.4km 27.534 E ±13.1km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
IZM	0.32	223	iPg	45	36.30	0.3
			eSg	45	41.30	
CIN	1.12	157	ePn	45	50.00	-0.3
			iSg	46	41.00	
DST	1.29	41	iPn	45	54.10	0.7
EDC	1.73	8	ePn	45	59.00	-0.7
S.D. = 1.1 on 4 of 4 obs.						
JAN 28, 1994 18h 45m 59.40± 0.83s						
38.661 N ± 8.2km 27.471 E ± 7.8km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 3.3 (ATH). ML 3.3 (ISK).						
IZM	0.31	212	ePg	46	05.10	-0.8
			eSg	46	09.80	
PRK	1.10	302	ePb	46	20.00	-0.1
			eSb	46	34.50	
DST	1.30	43	ePn	46	23.60	0.0
KHL	1.65	101	ePn	46	30.00	1.5
IZI	2.28	42	ePn	46	36.80	-0.9
YLV	2.40	37	ePn	46	39.00	-0.5
CTT	2.59	16	ePn	46	41.00	-1.0
RDO	2.89	330	ePn	46	48.10	1.8
S.D. = 1.3 on 8 of 8 obs.						
? JAN 28, 1994 18h 54m 02.66± 0.98s						
38.635 N ±18.2km 27.475 E ±25.1km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
ML 2.8 (ISK).						
IZM	0.29	215	iPg	54	08.70	0.0
			iSg	54	13.70	
DST	1.32	42	ePn	54	26.60	-0.5
EDC	1.74	10	ePn	54	33.00	0.0
IZI	2.30	42	ePn	54	41.80	0.6
S.D. = 0.7 on 4 of 4 obs.						
& JAN 28, 1994 19h 05m 34.04s						
36.235 N 120.800 W						
DEPTH = 9.1km						
CENTRAL CALIFORNIA (39)						
<PAS>P>. MD 2.8 (GM). ML 2.8						
(PAS).						
BTW	0.13	307	P	05	37.43	0.3
LRC	0.20	273	P	05	38.29	0.0
PJLM	0.32	243	P	05	40.75	0.1
SHG	0.41	296	P	05	41.86	-0.5
PHAM	0.51	141	eP	05	43.81	-0.6
EKH	0.52	325	P	05	45.16	0.5
PKEM	0.59	107	eP	05	46.29	0.4
PADM	0.60	185	P	05	45.66	-0.4
BCGM	0.64	317	P	05	46.58	-0.4
PAGM	0.67	138	P	05	47.30	-0.2
HJSM	0.71	325	P	05	48.32	0.3
SAO	0.74	316	eP	05	47.80	-0.9
LTR	0.77	328	P	05	49.43	0.4
DIL	0.91	312	P	05	51.14	-0.3
PCL	0.91	334	P	05	51.99	0.5
HCOM	0.98	312	P	05	52.56	-0.1
GHS	1.00	329	P	05	53.66	0.5
CBO	1.13	321	P	05	55.15	-0.1
BCH	1.20	151	eP	05	55.82	-0.7
JHLM	1.20	317	P	05	56.02	-0.6
COE	1.24	326	eP	05	56.97	-0.2
ARN	1.26	332	eP	05	56.81	-0.7
JUCM	1.26	308	P	05	57.54	0.0
JSMM	1.47	312	P	06	00.41	-0.3
CMB	1.83	10	eP	06	04.89	-1.0
ABL	1.89	137	eP	06	05.21	-1.7
MNHM	1.91	360	P	06	06.34	-0.7
ISA	1.97	106	eP	06	06.80	-1.2



28d 19h

MMPM 1.97 45 eP 06 08.88 0.6  
MEMM 2.06 46 eP 06 09.78 0.5  
MTUM 2.11 57 eP 06 10.52 0.3  
BONR 2.63 49 ePn 06 18.34 0.6

32 obs. associated

? JAN 28, 1994 19h 23m 29.15± 1.46s  
38.691 N ±12.5km 27.316 E ±30.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

IZM 0.30 188 iPg 23 35.30 -0.1  
iSg 23 40.30  
DST 1.37 48 ePn 23 53.70 -0.6  
EDC 1.71 14 ePn 23 59.00 -0.1  
IZI 2.34 45 ePn 24 09.00 0.6  
S.D. = 0.9 on 4 of 4 obs.

JAN 28, 1994 19h 29m 06.29± 0.76s  
38.714 N ± 5.1km 27.435 E ± 9.3km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 3.3 (ISK).

IZM 0.34 203 iPg 29 13.50 0.3  
iSg 29 19.00  
CIN 1.22 155 ePn 29 29.00 -0.5  
iSg 29 48.00  
DST 1.29 46 iPn 29 31.30 0.7  
EDC 1.66 11 ePn 29 36.00 -0.2  
KHL 1.68 103 ePn 29 37.10 0.5  
ALT 2.12 80 ePn 29 42.70 -0.2  
IZI 2.26 44 ePn 29 44.00 -1.0  
YLV 2.38 38 ePn 29 47.00 0.3  
CTT 2.55 17 ePn 29 49.00 0.1  
S.D. = 0.6 on 9 of 9 obs.

JAN 28, 1994 19h 31m 56.50± 0.55s  
38.693 N ± 5.3km 27.444 E ± 5.0km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.4 (ISK). MD 3.3 (ATH).

IZM 0.33 206 iPg 32 02.70 -0.6  
eSg 32 08.00  
PRK 1.07 302 ePb 32 17.00 0.4  
eSb 32 32.00  
DST 1.30 45 iPn 32 20.70 0.2  
eSg 32 39.00  
KHL 1.67 102 iPn 32 26.60 0.6  
EDC 1.68 11 ePn 32 25.00 -1.1  
ALT 2.11 79 ePn 32 32.70 0.3  
IZI 2.27 43 ePn 32 34.20 -0.5  
YLV 2.39 38 ePn 32 36.50 0.1  
CTT 2.57 17 ePn 32 38.00 -0.8  
ISK 2.68 27 ePn 32 40.00 -0.4  
GPA 2.73 53 ePn 32 41.50 0.3  
HRT 2.73 38 ePn 32 41.00 -0.2  
EYL 2.81 47 ePn 32 43.00 0.6  
RDO 2.86 330 ePn 32 44.00 1.1  
S.D. = 0.7 on 14 of 14 obs.

? JAN 28, 1994 19h 43m 30.42± 1.94s  
38.532 N ±27.7km 27.603 E ±24.0km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

IZM 0.30 243 iPg 43 36.70 0.0  
eSg 43 41.70  
DST 1.34 36 iPn 43 55.30 0.2  
EDC 1.82 6 ePn 44 02.00 0.0  
IZI 2.31 38 ePn 44 09.00 -0.2  
S.D. = 0.3 on 4 of 4 obs.

JAN 28, 1994 20h 08m 55.33± 1.56s  
38.678 N ± 6.6km 27.246 E ±18.8km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.1 (ISK).

IZM 0.28 177 ePg 09 01.50 0.3  
eSg 09 06.50  
CIN 1.26 148 ePg 09 18.00 -0.8  
iSg 09 34.00  
DST 1.42 49 iPn 09 20.50 -0.7

EDC 1.73 16 ePn 09 26.00 0.4  
KHL 1.82 101 ePn 09 28.10 1.1  
IZI 2.39 45 ePn 09 35.00 -0.2  
S.D. = 0.9 on 6 of 6 obs.

& JAN 28, 1994 20h 09m 53.42s  
34.374 N 118.495 W  
DEPTH = 0.7km  
3.8mb ( 2 obs.)

SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 4.2 (PAS), 4.3  
(BRK), 4.1 (GS). Felt.

FIL 0.29 280 P 09 59.86 0.7  
TPRS 0.29 195 P 09 59.13 -0.2  
FOXC 0.42 31 P 10 01.95 0.2  
THC 0.55 345 P 10 04.01 -0.4  
PEM 0.56 112 P 10 04.30 -0.2  
FTC 0.59 327 P 10 05.01 -0.3  
LOK 0.60 306 P 10 05.17 -0.3  
DBM 0.61 10 P 10 05.32 -0.4  
SSK 0.68 104 eP 10 06.36 -0.7  
PLEC 0.76 322 P 10 08.71 0.2  
ABL 0.76 309 iPd 10 07.80 -0.9  
BMTG 0.76 354 P 10 07.63 -1.1  
ARVC 0.80 340 P 10 08.39 -1.0  
CALC 0.86 32 P 10 09.55 -1.0  
TEJ 0.87 349 P 10 09.68 -1.1  
HYS 0.91 57 P 10 10.22 -1.3  
MARC 0.94 312 P 10 11.17 -0.9  
LPC 1.01 277 P 10 12.78 -0.8  
DTP 1.04 31 P 10 12.72 -1.3  
WHVM 1.13 359 P 10 14.42 -1.2  
CFT 1.20 106 P 10 15.81 -0.8  
WBSM 1.20 14 P 10 15.86 -0.9  
PEC 1.21 113 iPc 10 15.26 -1.5  
ISA 1.29 1 ePd 10 16.85 -1.3  
MDA 1.32 110 P 10 17.72 -1.1  
CRGC 1.33 311 P 10 18.26 -0.7  
WASM 1.36 358 P 10 19.87 0.3  
POB 1.47 117 P 10 19.43 -1.9  
SCCM 1.49 293 P 10 21.47 0.0  
WSHM 1.50 33 P 10 20.47 -1.2  
BCH 1.54 302 eP 10 21.34 -0.9  
YEG 1.60 312 P 10 22.18 -0.9  
VPEN 1.67 19 P 10 24.36 0.3  
PLM 1.70 126 iPc 10 22.54 -2.0  
WLHM 1.78 5 P 10 25.68 -0.2  
PTRM 1.90 313 P 10 28.28 0.9  
PAGM 1.98 314 P 10 32.41 4.0  
PMCM 2.05 312 P 10 28.86 -0.6  
PHAM 2.14 314 eP 10 29.51 -1.3  
PKEM 2.14 322 eP 10 30.28 -0.5  
CTM 2.17 316 P 10 36.12 4.8  
PSTM 2.26 314 P 10 31.92 -0.7  
PHBM 2.28 326 P 10 33.56 0.8  
PADM 2.32 304 P 10 31.52 -1.9  
PANM 2.43 306 P 10 33.08 -1.9  
PTV 2.51 314 P 10 36.77 0.6  
PSAM 2.56 311 P 10 35.13 -1.7  
PAPM 2.81 304 P 10 37.84 -2.6  
BHPR 2.92 0 P 10 46.31 4.1  
BMSM 2.95 321 P 10 41.06 -1.4  
MTUM 2.97 359 ePn 10 42.29 -0.6  
SHG 3.04 313 P 10 41.82 -1.7  
BAPM 3.14 306 P 10 43.30 -1.8  
TPNV 3.15 35 ePn 10 44.42 -0.9  
MMPM 3.26 353 ePn 10 47.35 0.3  
MEMM 3.31 354 (Pn) 10 44.98 -2.4  
GLA 3.33 112 eP 10 48.20 0.4  
BPRM 3.33 308 P 10 45.93 -1.9  
BSRM 3.36 314 P 10 46.22 -2.0  
SAO 3.39 316 ePn 10 46.31 -2.3  
DIL 3.55 315 P 10 48.65 -2.2  
BONR 3.58 2 ePn 10 49.16 -2.4  
TNP 3.84 15 ePn 10 53.36 -1.9  
ePg 11 06.63  
ARN 3.86 321 ePn 10 52.79 -2.6  
COE 3.87 319 (P) 10 55.41 0.0  
MHC 3.91 320 eP 10 56.87 0.7  
CMB 3.96 338 eP 10 56.45 -0.3  
HMR 4.62 326 (P) 11 04.89 -1.1  
KVN 4.68 4 (Pn) 11 05.55 -1.5  
iPg 11 23.02  
ARUT 5.33 49 ePn 11 15.10 -1.2  
ORV 5.70 336 (P) 11 20.48 -0.9  
MSU 6.56 49 ePn 11 33.51 -0.2

TUC 6.77 106 (P) 11 36.16 -0.4  
ELK 6.86 21 eP 11 37.70 -0.3  
DUG 7.37 36 (P) 11 42.71 -2.2  
SRU 7.95 51 (Pn) 11 54.36 1.2  
PV09 8.59 59 (Pn) 12 01.51 -0.7  
PV10 8.61 60 (Pn) 12 01.11 -1.3  
VGB 11.26 352 (P) 12 41.54 2.9  
MCMT 11.31 21 eP 12 44.00 4.5  
e 12 46.10

LRM 12.33 20 eP 12 56.10 2.8  
LTX 13.56 108 (P) 13 09.49 -0.2  
RSSD 14.82 45 (P) 13 27.00 0.8  
1.3s 8.21nm 4.1mb  
ULM 22.92 39 eP 15 02.00 2.2  
YKA 28.25 4 eP 15 47.90 -1.9  
0.9s 0.80nm 3.5mb  
85 obs. associated

& JAN 28, 1994 20h 11m 05.11s  
34.374 N 118.502 W  
DEPTH = 0.2km

SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 3.5 (PAS), 4.0 (GS).  
Felt.

SSK 0.69 103 eP 11 18.78 -0.1  
PEC 1.21 113 eP 11 26.78 -1.8  
ISA 1.29 1 eP 11 29.87 0.0  
BCH 1.53 302 eP 11 33.63 -0.3  
PHAM 2.13 314 eP 11 42.31 -0.1  
MTUM 2.97 359 ePg 11 59.32 4.7  
TPNV 3.16 35 eP 11 55.29 -1.9  
CMB 3.96 338 (P) 12 11.08 2.6  
NTYM 5.23 321 (P) 12 27.02 0.6  
9 obs. associated

JAN 28, 1994 20h 12m 15.69± 0.77s  
40.444 N ± 5.7km 28.955 E ± 6.3km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 2.8 (ISK).

IZI 0.41 105 iPg 12 24.20 0.1  
iSg 12 30.20  
GBZT 0.51 47 ePg 12 26.30 0.3  
iSg 12 34.00  
ISK 0.63 7 iPg 12 28.50 0.2  
iSg 12 37.70  
HRT 0.66 55 iPg 12 28.00 -0.9  
iSg 12 38.00  
CTT 0.81 331 iPg 12 31.30 0.0  
iSg 12 42.30  
DST 0.87 197 iPg 12 32.50 0.0  
eSg 12 45.50  
EYL 0.93 82 iPn 12 33.70 0.3  
S.D. = 0.5 on 7 of 7 obs.

\* JAN 28, 1994 20h 20m 14.32± 0.98s  
38.724 N ± 5.5km 27.281 E ±13.5km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.3 (ISK).

IZM 0.33 183 iPg 20 21.00 -0.1  
iSg 20 25.40  
DST 1.37 50 iPn 20 39.20 -0.3  
EDC 1.68 15 ePn 20 44.00 0.1  
KHL 1.80 102 ePn 20 46.10 0.3  
IZI 2.34 46 ePn 20 53.70 0.2  
YLV 2.45 41 ePn 20 55.00 0.0  
CTT 2.58 20 ePn 20 57.00 0.2  
ISK 2.71 30 ePn 20 59.00 0.3  
HRT 2.79 41 ePn 20 59.00 -0.8  
S.D. = 0.4 on 9 of 9 obs.

\* JAN 28, 1994 20h 33m 11.31± 1.26s  
18.605 N ±10.3km 66.252 W ± 8.0km  
DEPTH = 10.0km (geophysicist)

4.2mb ( 1 obs.)  
PUERTO RICO REGION ( 90)

LPR 0.47 129 P 33 19.90 -0.9  
SJO 0.50 169 iP 33 22.80 1.3  
CLLP 0.61 211 P 33 24.10 0.6  
LRS 0.64 241 P 33 23.00 -1.2  
CPD 0.65 150 P 33 23.90 -0.4  
PORP 0.66 214 P 33 24.30 -0.1



YKA 55.01 335 eP 42 45.70 0.8  
0.7s 1.90nm 4.2mb  
S.D. = 1.1 on 7 of 7 obs.

\* JAN 28, 1994 21h 04m 54.20± 1.32s  
38.690 N ± 6.4km 27.234 E ±17.2km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.1 (ISK).

IZM 0.29 176 iPg 05 00.20 -0.1  
ISg 05 05.00  
DST 1.42 49 iPn 05 19.00 -1.1  
EDC 1.72 16 ePn 05 25.00 0.6  
KHL 1.83 101 ePn 05 26.60 0.5  
IZI 2.39 46 ePn 05 34.00 -0.1  
YLV 2.50 41 ePn 05 36.00 0.4  
CTT 2.62 20 ePn 05 37.00 -0.3  
S.D. = 0.7 on 7 of 7 obs.

\* JAN 28, 1994 21h 17m 03.77± 1.35s  
14.299 N ± 9.6km 91.375 W ±12.9km  
DEPTH = 72.0 ± 12.9 km  
4.1mb ( 5 obs.)

GUATEMALA ( 70)

TPX 1.05 305 iP 17 24.94 1.7  
IS 17 39.00  
SCX 2.71 334 iP 17 52.04 6.2X  
IS 18 26.00  
OXX 5.85 299 iP 18 30.01 0.0  
IS 19 33.00  
LVVM 7.27 319 (P) 18 47.00 -2.5  
(S) 19 57.00  
IISM 7.40 310 iP 18 49.71 -1.7  
PPM 8.41 305 iP 19 07.66 1.9  
(S) 20 38.00  
ACX 8.56 288 iP 19 06.09 -1.3  
UNM 9.00 305 (P) 19 11.00 -2.6X  
MRX 10.82 301 eP 19 41.00 2.9X  
LTX 18.79 325 eP 21 21.21 0.9  
UYO 19.98 352 iPd 21 33.00 0.1  
MEO 21.41 344 iPd 21 47.70 0.2  
WMOK 21.42 343 eP 21 48.62 1.0  
0.6s 1.96nm 3.7mb  
ELC 22.97 4 eP 22 04.13 1.3  
ALQ 24.65 329 eP 22 22.10 2.8X  
0.8s 1.03nm 3.3mb  
MSU 30.33 327 eP 23 07.44 -3.5X  
TNP 32.94 321 eP 23 29.52 -4.3X  
ELK 33.58 326 eP 23 38.61 -0.7  
LRM 36.10 335 eP 24 03.10 2.3X  
e 26 27.00  
LPAZ 38.09 142 P 24 18.10 -0.1  
LPB 38.30 142 eP 24 19.00 -0.7  
LON 41.15 328 ePd 24 44.50 1.9  
STV 42.46 134 P 24 53.60 0.1  
YKA 50.88 346 eP 25 57.90 -1.2  
0.4s 0.90nm 4.2mb

FRB 51.89 13 eP 26 05.00 -1.8  
RES 60.41 359 eP 27 06.50 -1.0  
MBC 63.69 353 eP 27 30.00 0.6  
EKA 77.37 36 P 28 52.00 -0.3  
3.3s 14.10nm 4.3mb X  
LKO 83.64 82 P 29 26.47 0.1  
0.5s 4.00nm 4.7mb  
LIC 84.96 85 P 29 33.40 0.5  
HFS 85.05 29 eP 29 31.90 -0.6  
0.5s 1.90nm 4.4mb  
KIC 85.21 85 P 29 34.20 0.0  
WB2 136.04 256 ePKP 36 19.70 0.5  
0.5s 5.00nm

WRA 136.05 256 PKP 36 19.80 0.6  
0.5s 1.20nm  
CHTO 145.56 343 ePKPd 36 36.00 -0.2  
0.8s 10.61nm  
HYB 146.96 18 ePKP 36 38.50 0.0  
BDT 147.03 342 ePKP 36 38.50 0.0  
1.0s 51.80nm  
GBA 150.15 22 PKP 36 44.00 0.6  
S.D. = 1.1 on 31 of 38 obs.

JAN 28, 1994 21h 23m 14.78± 0.66s  
13.311 N ± 9.2km 89.647 W ±10.3km  
DEPTH = 33.0km (normal)  
EL SALVADOR ( 73)

MD 4.4 (GCG).

YUP 0.90 350 eP 23 31.32 0.1  
eS 23 44.96  
IXG 1.16 318 eP 23 34.95 0.0  
IS 23 50.70  
QZG 1.34 11 eP 23 37.42 -0.1  
TER 1.41 314 eP 23 38.28 -0.1  
IS 23 56.99  
SLP 1.55 337 eP 23 40.69 0.1  
FGO 1.62 314 eP 23 41.76 0.2  
IS 24 02.84  
MRL 1.74 359 eP 23 43.00 -0.4  
eS 24 00.69  
RDG 1.87 335 eP 23 45.19 0.0  
RIN3 4.87 121 iPd 24 28.59 0.9  
JUD 5.09 128 iPd 24 29.73 -1.2  
JTS 5.49 123 iPd 24 37.80 1.4  
CAO 5.72 128 iPd 24 38.70 -1.0  
S.D. = 0.8 on 12 of 12 obs.

\* JAN 28, 1994 21h 23m 53.54± 1.53s  
38.728 N ± 6.2km 27.244 E ±18.7km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 3.1 (ISK).

IZM 0.33 177 iPg 24 00.70 0.5  
ISg 24 05.70  
CIN 1.31 149 ePg 24 17.00 -1.2  
ISg 24 33.00  
DST 1.39 50 iPn 24 19.50 -0.1  
EDC 1.69 16 ePn 24 24.00 0.2  
KHL 1.83 102 ePn 24 27.10 1.1  
IZI 2.36 46 ePn 24 33.00 -0.6  
HRT 2.80 41 ePn 24 40.00 0.1  
S.D. = 0.9 on 7 of 7 obs.

\* JAN 28, 1994 21h 50m 02.03± 2.50s  
38.705 N ± 7.2km 27.086 E ±32.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.0 (ISK).

IZM 0.34 156 ePg 50 09.00 0.0  
eSg 50 14.00  
DST 1.50 53 ePn 50 29.00 0.0  
EDC 1.75 20 ePn 50 33.00 0.5  
IZI 2.46 48 ePn 50 43.00 0.1  
CTT 2.65 23 ePn 50 45.00 -0.5  
S.D. = 0.5 on 5 of 5 obs.

\* JAN 28, 1994 22h 54m 21.08± 1.02s  
38.658 N ± 8.7km 27.470 E ±15.3km  
DEPTH = 5.0km (geophysicist)

TURKEY (366)  
ML 2.9 (ISK).

IZM 0.31 212 iPg 54 26.70 -0.6  
eSg 54 31.70  
CIN 1.16 155 ePg 54 44.00 0.7  
ISg 55 00.00  
DST 1.31 43 iPn 54 45.40 -0.4  
EDC 1.71 10 ePn 54 53.00 1.3  
IZI 2.28 42 ePn 54 59.00 -1.1  
S.D. = 1.4 on 5 of 5 obs.

JAN 28, 1994 22h 59m 07.72± 0.35s  
38.681 N ± 3.7km 27.492 E ± 2.8km  
DEPTH = 11.9 ± 2.1 km

TURKEY (366)  
ML 3.9 (ATH), 3.8 (ISK).

IZM 0.34 212 iPg 59 14.20 -0.6  
ISg 59 18.90  
PRK 1.11 301 ePb 59 29.00 0.7  
CIN 1.18 156 iPg 59 30.00 0.5  
ISg 59 45.00  
DST 1.28 43 iPn 59 32.20 0.9  
KHL 1.63 102 iPn 59 37.30 0.9  
EDC 1.69 10 iPn 59 37.00 -0.1  
ALT 2.08 79 iPn 59 44.00 1.1  
IZI 2.25 42 iPn 59 45.60 0.2  
YLV 2.38 37 ePn 59 47.60 0.4  
ALN 2.48 334 eP 59 50.20 1.7  
CTT 2.57 16 ePn 59 48.70 -1.1  
GBZT 2.59 35 ePn 59 50.20 0.1

ISK 2.67 26 iPn 59 50.60 -0.7  
ITU 2.69 25 ePn 59 55.00 3.4X  
ISg 00 34.00  
HRT 2.72 37 iPn 59 51.60 -0.4  
BCK 2.73 116 ePn 59 51.50 -0.7  
EYL 2.79 47 ePn 59 52.60 -0.5  
RDO 2.88 329 ePn 59 54.90 0.6  
ATH 3.05 258 ePn 00 05.30 8.7X  
eSn 00 45.60

OUR 3.18 302 eP 59 58.56 0.1  
PAIG 3.21 294 iP 59 59.00 0.1  
KDZ 3.36 332 iP 00 01.00 -0.1  
RZN 3.68 326 iP 00 06.00 0.2  
DIM 3.68 337 eP 00 05.00 -0.6  
SOH 3.84 305 eP 00 08.08 0.2  
JMB 3.84 350 eP 00 09.00 1.1  
SRS 3.86 310 eP 00 08.12 -0.1  
PLD 4.03 329 eP 00 11.00 0.5  
MMB 4.09 316 eP 00 11.00 -0.5  
LIT 4.13 292 eP 00 12.52 0.6  
KNT 4.31 306 eP 00 15.16 0.5  
GRG 4.53 302 eP 00 17.73 0.0  
PGB 4.62 328 eP 00 17.00 -2.0  
KKB 4.64 315 eP 00 19.00 -0.2  
PVL 4.82 341 iP 00 22.00 0.3  
VTS 5.09 322 eP 00 29.00 3.3X  
MLR 6.90 351 eP 00 48.50 -2.7X  
VRI 7.21 356 eP 00 52.50 -2.9X  
S.D. = 0.8 on 33 of 38 obs.

? JAN 28, 1994 23h 00m 59.39± 1.14s  
38.610 N ±20.7km 27.537 E ±24.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.1 (ISK).

IZM 0.30 226 iPg 01 05.70 0.0  
eSg 01 10.70  
DST 1.31 40 ePn 01 23.40 -0.2  
EDC 1.75 8 ePn 01 30.00 0.0  
IZI 2.28 40 ePn 01 38.00 0.2  
S.D. = 0.3 on 4 of 4 obs.

\* JAN 28, 1994 23h 04m 54.78s  
34.360 N 118.485 W  
DEPTH = 2.3km  
SOUTHERN CALIFORNIA ( 43)  
<PAS-P>. ML 2.6 (PAS), 2.6 (GS).

SSK 0.67 103 eP 05 07.50 -0.7  
ABL 0.78 309 eP 05 09.38 -1.0  
PEC 1.19 113 eP 05 16.24 -1.5  
eS 05 33.49  
ISA 1.30 0 eP 05 18.35 -1.3  
eS 05 37.17  
BCH 1.55 302 eP 05 23.08 -0.5  
GSC 1.67 55 eP 05 24.10 -1.1  
PLM 1.68 126 eP 05 23.50 -2.0  
WRA 114.85 262 PKP 23 34.20 -5.0  
0.7s 0.20nm  
8 obs. associated

\* JAN 28, 1994 23h 21m 55.06± 1.91s  
38.664 N ± 6.3km 27.180 E ±22.1km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.0 (ISK).

IZM 0.27 166 ePg 22 01.20 0.4  
eSg 22 06.20  
CIN 1.28 146 ePg 22 18.00 -0.8  
ISg 22 34.00  
DST 1.47 50 ePn 22 21.00 -0.6  
EDC 1.76 17 ePn 22 26.00 0.2  
KHL 1.87 100 ePn 22 28.30 0.8  
IZI 2.44 46 ePn 22 35.60 0.0  
S.D. = 0.8 on 6 of 6 obs.

? JAN 28, 1994 23h 22m 05.19± 6.24s  
40.667 N ±21.9km 22.577 E ±41.0km  
DEPTH = 10.0km (geophysicist)

GREECE (364)  
ML 1.6 (THE).

THE 0.30 96 ePg 22 11.04 -0.3  
eSg 22 18.28



28d 23h

KNT 0.55 26 ePg 22 16.20 -0.2  
eSg 22 23.70  
SOH 0.61 75 ePg 22 17.40 -0.1  
SRS 0.89 59 ePg 22 22.76 0.5  
OUR 1.12 107 iPb 22 26.40 0.2  
S.D. = 0.5 on 5 of 5 obs.

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\* JAN 28, 1994 23h 33m 10.33± 0.67s  
26.836 S ± 5.7km 26.764 E ± 8.1km  
DEPTH = 5.0km (geophysicist)  
REPUBLIC OF SOUTH AFRICA (584)  
ML 2.6 (PRE).

BFS 0.06 163 eP 33 12.20 0.1  
S 33 13.10  
KSR 0.97 7 eP 33 29.50 0.1  
S 33 42.50  
SWZ 1.33 255 ePd 33 35.60 0.1  
S 33 53.60  
SEK 1.67 153 eP 33 40.70 0.2  
S 34 01.80  
SLR 1.75 52 iPd 33 41.50 -0.1  
S 34 03.10  
BLF 2.32 193 eP 33 49.50 -0.4  
S 34 17.50  
S.D. = 0.3 on 6 of 6 obs.

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\* JAN 28, 1994 23h 53m 56.01± 1.45s  
15.077 S ± 11.3km 166.727 E ± 10.9km  
DEPTH = 52.4 ± 12.5 km  
4.5mb ( 3 obs.)  
VANUATU ISLANDS (186)

BKM 2.96 151 iPd 54 42.50 0.9  
iS 55 19.50  
DZM 6.96 182 iPc 55 37.00 -1.0  
iS 56 57.50  
HNR 8.68 309 e(P) 56 02.00 0.3  
WB2 31.22 256 eP 00 11.90 -1.0  
0.6s 5.90nm 4.5mb  
ASPA 32.06 249 eP 00 19.20 -1.1  
0.6s 7.60nm 4.7mb  
Z 21s 0.20um 3.8msz  
MBL 44.85 255 eP 02 08.00 0.8  
MEEK 46.17 247 eP 02 18.50 1.0  
YKA 98.09 27 eP 07 25.10 -2.7  
0.6s 0.40nm 4.1mb  
BSF 143.36 337 ePKP 13 26.80 0.4  
1.0s 6.00nm  
FLN 144.80 345 ePKP 13 27.20 -1.5  
0.7s 8.25nm  
LDF 144.87 345 ePKP 13 28.60 -0.2  
0.8s 11.55nm  
LOR 144.88 340 ePKP 13 28.40 -0.5  
0.8s 5.90nm  
LBF 145.09 339 ePKP 13 28.90 -0.4  
1.0s 11.80nm  
SSF 145.18 340 ePKP 13 29.50 0.1  
0.9s 28.35nm  
GRR 145.24 345 ePKP 13 29.40 0.0  
0.7s 11.90nm  
LPL 145.29 335 ePKP 13 30.40 0.5  
0.8s 12.65nm  
LPG 145.30 335 ePKP 13 30.70 0.7  
0.9s 12.60nm  
SMF 145.43 339 ePKP 13 30.10 0.3  
0.9s 14.40nm  
AVF 145.47 340 ePKP 13 30.20 0.3  
0.6s 5.75nm  
LFF 145.62 345 ePKP 13 30.40 0.3  
0.7s 16.00nm  
BGF 145.84 340 ePKP 13 31.40 0.9  
0.9s 15.40nm  
MAF 146.23 340 ePKP 13 32.60 1.4  
0.9s 10.80nm  
TCF 146.29 341 ePKP 13 31.90 0.6  
0.9s 8.20nm  
LSF 146.54 341 ePKP 13 33.30 1.6X  
0.9s 17.85nm  
MFF 146.71 343 ePKP 13 33.80 1.9X  
0.7s 14.65nm  
RJF 147.38 340 ePKP 13 35.80 2.7X  
0.8s 10.35nm  
CAF 147.54 340 ePKP 13 36.60 3.2X  
0.8s 9.25nm  
LFF 147.96 341 ePKP 13 37.50 3.5X  
0.8s 13.95nm

LPO 148.04 340 ePKP 13 37.90 3.8X  
0.8s 15.30nm  
S.D. = 1.0 on 23 of 29 obs.

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\* JAN 29, 1994 00h 08m 28.25± 1.15s  
38.716 N ± 7.5km 27.323 E ± 15.2km  
DEPTH = 5.0km (geophysicist)  
TURKEY (366)  
ML 3.1 (ISK).

IZM 0.32 189 iPg 08 34.50 -0.2  
iSg 08 39.50  
DST 1.35 48 iPn 08 53.20 -0.4  
EDC 1.68 14 ePn 08 59.00 0.6  
KHL 1.77 102 ePn 09 00.40 0.6  
IZI 2.32 45 ePn 09 07.50 -0.3  
HRT 2.77 40 ePn 09 14.00 -0.2  
S.D. = 0.6 on 6 of 6 obs.

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JAN 29, 1994 00h 31m 24.50± 0.43s  
46.714 N ± 4.3km 1.503 E ± 4.3km  
DEPTH = 10.0km (geophysicist)  
FRANCE (538)  
ML 3.6 (LDG).

LSF 0.46 178 Pg 31 36.20 2.3  
Sg 31 40.50  
TCF 0.65 131 Pg 31 38.90 1.4  
Sg 31 46.70  
MAF 0.88 123 Pg 31 42.30 0.8  
Sg 31 53.60  
BGF 0.94 99 Pg 31 43.50 1.1  
Sg 31 55.50  
HYF 0.96 54 Pn 31 44.00 1.3  
Pg 31 44.60  
Sg 31 56.30  
MFF 1.14 265 Pn 31 47.20 1.4  
Pg 31 48.30  
Sg 32 03.10  
AVF 1.27 86 Pn 31 47.90 -0.2  
Pg 31 49.30  
Sg 32 04.20  
RJF 1.41 180 Pn 31 49.50 -0.7  
Pg 31 52.40  
Sg 32 09.30  
SSF 1.42 75 Pn 31 49.90 -0.4  
Pg 31 51.80  
Sn 32 06.00  
Sg 32 09.80  
SMF 1.61 92 Pn 31 52.30 -0.8  
Pg 31 55.20  
Sg 32 14.50  
LOR 1.71 70 Pn 31 53.80 -0.7  
Pg 31 56.90  
Sn 32 12.50  
Sg 32 17.70  
LBF 1.72 80 Pn 31 53.90 -0.8  
Pg 31 57.20  
Sn 32 13.40  
Sg 32 18.60  
CAF 1.83 167 Pn 31 55.10 -1.2  
Pg 32 00.90  
Sg 32 23.20  
LFF 1.85 197 Pn 31 55.90 -0.7  
Pg 32 01.20  
Sn 32 17.60  
Sg 32 24.10  
COLF 1.94 127 Pn 31 56.24 -1.6  
Sg 32 25.19  
LPO 2.04 186 Pn 31 58.20 -1.1  
Pg 32 03.80  
Sn 32 21.70  
Sg 32 29.60  
LFF 2.17 308 Pn 32 01.10 -0.1  
Pg 32 07.70  
Sg 32 35.80  
LDF 2.18 330 Pn 32 01.20 -0.1  
Pg 32 07.30  
Sg 32 35.40  
GRR 2.32 317 Pn 32 03.20 -0.1  
Pg 32 10.60  
Sg 32 40.00  
FLN 2.45 328 Pn 32 04.40 -0.7  
Pg 32 11.80  
Sg 32 44.30  
HAU 3.54 67 Pn 32 17.60 -3.0X  
Pg 32 31.70

Sn 32 56.80  
Sg 33 16.70  
BSF 3.77 71 Pg 32 35.50 11.5X  
Sn 33 02.40  
Sg 33 23.20  
EPF 3.77 193 Pn 32 21.30 -2.7X  
Sn 33 01.50  
Sg 33 25.40  
DOU 3.96 30 iP 32 42.90 16.3X  
SNF 4.23 25 iP 32 31.20 0.9  
CDF 4.26 64 Pn 32 28.40 -2.6X  
Pg 32 45.00  
Sn 33 14.00  
Sg 33 38.80  
S.D. = 1.1 on 21 of 26 obs.

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? JAN 29, 1994 00h 34m 54.91± 7.94s  
14.373 N ± 14.8km 58.840 W ± 65.2km  
DEPTH = 16.4 ± 7.3 km  
NORTH ATLANTIC OCEAN (402)  
ML 3.4 (FDF).

MVM 2.00 275 eP 35 28.71 0.3  
S 35 52.60  
SLW 2.06 260 eP 35 28.60 -0.7  
eS 35 51.03  
BIM 2.17 274 iPc 35 31.32 0.5  
S 35 56.50  
SLB 2.20 256 eP 35 30.79 -0.6  
FDF 2.27 279 ePc 35 32.29 0.0  
S 35 58.30  
SVV 2.54 246 iP 35 36.43 0.4  
SVB 2.59 245 iP 35 37.09 0.3  
MGG 2.84 303 eP 35 40.90 0.5  
DEG 2.88 312 eP 35 40.70 -0.3  
S 36 11.20  
PAG 3.20 301 eP 35 45.30 -0.2  
S 36 20.70  
S.D. = 0.6 on 10 of 10 obs.

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? JAN 29, 1994 00h 41m 10.88± 0.95s  
38.655 N ± 16.7km 27.461 E ± 24.6km  
DEPTH = 10.0km (geophysicist)  
TURKEY (366)  
ML 2.9 (ISK).

IZM 0.30 211 iPg 41 17.20 0.0  
iSg 41 22.20  
DST 1.31 43 iPn 41 35.50 0.3  
EDC 1.72 10 ePn 41 41.00 0.0  
IZI 2.29 42 ePn 41 49.00 -0.4  
S.D. = 0.5 on 4 of 4 obs.

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\* JAN 29, 1994 00h 47m 17.58s  
34.288 N 118.460 W  
DEPTH = 10.6km  
SOUTHERN CALIFORNIA (43)  
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SCY 0.18 178 P 47 21.23 -0.5  
CJV 0.36 47 P 47 24.20 -0.8  
LHU 0.38 6 P 47 24.72 -0.8  
LRRC 0.43 56 P 47 25.64 -0.7  
FOX 0.48 23 P 47 26.77 -0.7  
STTC 0.50 360 P 47 27.42 -0.3  
TPO 0.62 18 P 47 29.02 -1.0  
SSK 0.64 97 eP 47 29.39 -1.1  
eS 47 39.47  
SBB 0.66 53 P 47 29.57 -1.1  
DBM 0.69 7 P 47 30.50 -0.8  
TJR 0.77 343 P 47 31.75 -0.9  
ABL 0.84 312 ePc 47 32.71 -1.2  
BMT 0.85 352 P 47 33.22 -0.8  
CIS 0.88 177 P 47 33.97 -0.5  
CSP 0.91 89 P 47 34.47 -0.6  
HYS 0.93 52 P 47 34.52 -0.9  
DTP 1.10 27 P 47 37.40 -0.8  
HOD 1.14 61 P 47 38.25 -0.7  
PEC 1.15 110 ePc 47 37.84 -1.2  
eS 47 53.48  
BTL 1.21 91 P 47 40.09 -0.1  
BLKC 1.30 52 P 47 41.06 -0.5  
ISA 1.37 360 eP 47 41.97 -0.8  
CRGC 1.41 313 P 47 44.77 1.5  
POB 1.41 115 P 47 42.18 -1.1  
BCH 1.61 304 eP 47 44.47 -1.7  
PLM 1.62 125 eP 47 45.00 -1.4



GSC 1.70 53 eP 47 46.80 -0.6  
 MTUM 3.06 358 ePg 48 13.55 6.6  
 TPNV 3.21 34 (Pn) 48 08.60 -0.5  
 GLA 3.27 111 (Pn) 48 10.46 0.6  
 MMPM 3.35 352 ePg 48 18.17 6.9  
 MEMM 3.39 354 (Pn) 48 12.31 0.8  
 BONR 3.66 2 (Pn) 48 14.79 -0.9  
 ePg 48 24.74  
 33 obs. associated

\* JAN 29, 1994 00h 47m 43.59±1.31s  
 38.717 N ± 6.9km 27.262 E ± 17.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.32 180 iPg 47 50.30 0.1  
 iSg 47 54.80  
 DST 1.38 50 iPn 48 08.90 -0.1  
 eSg 48 27.00  
 EDC 1.69 16 ePn 48 13.00 -0.3  
 KHL 1.82 102 ePn 48 15.00 -0.2  
 IZI 2.35 46 ePn 48 23.00 0.0  
 YLV 2.46 41 ePn 48 25.00 0.5  
 S.D. = 0.4 on 6 of 6 obs.

\* JAN 29, 1994 00h 51m 14.60±1.21s  
 38.688 N ± 7.1km 27.336 E ± 18.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.30 191 iPg 51 20.50 -0.3  
 iSg 51 25.50  
 CIN 1.24 151 ePg 51 38.00 0.4  
 iSg 51 53.00  
 DST 1.36 47 iPn 51 39.30 -0.3  
 EDC 1.71 14 ePn 51 45.00 0.5  
 IZI 2.33 44 ePn 51 53.40 -0.3  
 S.D. = 0.6 on 5 of 5 obs.

? JAN 29, 1994 00h 58m 00.89±1.10s  
 51.944 N ± 16.9km 173.984 E ± 16.5km  
 DEPTH = 33.0km (normal)  
 4.2mb ( 5 obs.)  
 NEAR ISLANDS, ALEUTIAN ISLANDS ( 5)

SMY 0.79 5 ePd 58 16.22 0.6  
 eS 58 23.04  
 TTA 19.33 44 (P) 02 24.57 -1.5  
 1.3s 6.82nm 3.8mb  
 CP2 20.57 50 eP 02 36.12 -3.2X  
 CRP 20.61 50 eP 02 39.09 -0.6  
 SLKM 21.42 52 (P) 02 49.30 1.6  
 PMR 22.10 50 (P) 02 55.59 1.1  
 FBA 23.40 42 eP 03 07.60 0.4  
 0.6s 5.92nm 4.3mb  
 KLU 23.61 50 (P) 03 08.15 -1.3  
 NB2 66.53 351 P 08 49.20 0.1  
 0.7s 1.60nm 4.2mb  
 HFS 67.15 349 eP 08 52.00 -1.0  
 0.5s 3.20nm 4.7mb  
 WRA 79.51 218 P 10 05.90 0.3  
 0.6s 1.30nm 4.1mb  
 S.D. = 1.2 on 10 of 11 obs.

? JAN 29, 1994 02h 32m 44.27±0.93s  
 40.800 N ± 7.9km 23.133 E ± 7.4km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 1.5 (THE).

SOH 0.17 82 ePg 32 48.02 0.2  
 eSg 32 50.54  
 THE 0.21 218 ePg 32 48.50 -0.1  
 eSg 32 51.94  
 KNT 0.40 334 ePg 32 52.50 0.1  
 eSg 32 59.02  
 SRS 0.47 47 ePg 32 53.42 -0.3  
 S.D. = 0.4 on 4 of 4 obs.

? JAN 29, 1994 02h 43m 14.16±2.51s  
 43.705 N ± 21.2km 6.599 E ± 19.3km  
 DEPTH = 10.0km (geophysicist)  
 NEAR SOUTH COAST OF FRANCE (379)  
 ML 2.3 (LDG).

FRF 0.15 166 Pg 43 17.60 0.0  
 Sg 43 20.00  
 LRG 0.30 215 Pg 43 20.50 0.0  
 Sg 43 24.90  
 LMR 0.38 190 Pg 43 21.90 0.0  
 Sg 43 27.20  
 SBF 0.63 75 Pg 43 26.80 0.0  
 Sg 43 34.60  
 S.D. = 0.0 on 4 of 4 obs.

? JAN 29, 1994 03h 00m 12.90±14.39s  
 33.885 S ± 31.1km 72.177 W ± 109.1km  
 DEPTH = 24.6 ± 13.4 km  
 OFF COAST OF CENTRAL CHILE (134)

LNV 0.64 97 iP+ 00 25.48 0.1  
 eS 00 34.93  
 LCCH 0.65 51 iP+ 00 25.75 0.2  
 iS 00 36.08  
 TACH 1.06 78 iP+ 00 31.36 -0.8  
 iS 00 46.00  
 CHCH 1.27 93 iP+ 00 35.03 -0.1  
 iS 00 52.33  
 CACH 1.33 100 iP+ 00 36.46 0.3  
 iS 00 55.50  
 FCH 1.67 71 iP 00 41.53 0.3  
 iS 01 03.30  
 S.D. = 0.7 on 6 of 6 obs.

? JAN 29, 1994 03h 21m 14.05±2.29s  
 38.509 N ± 30.2km 27.630 E ± 23.8km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.7 (ISK).

IZM 0.31 249 iPg 21 20.50 0.0  
 iSg 21 25.50  
 DST 1.34 35 ePn 21 38.70 -0.1  
 EDC 1.84 6 ePn 21 46.00 0.0  
 IZI 2.32 37 ePn 21 53.00 0.1  
 S.D. = 0.1 on 4 of 4 obs.

\* JAN 29, 1994 04h 05m 11.77±0.72s  
 5.699 S ± 10.0km 147.182 E ± 8.8km  
 DEPTH = 141.0 ± 6.9 km  
 4.9mb ( 3 obs.)  
 EASTERN NEW GUINEA REG., P.N.G. (207)

LAT 0.98 191 iPd 05 36.00 0.3  
 YYYY 1.32 246 eP 05 39.60 0.4  
 PMG 3.68 180 iPc 06 07.50 -0.8  
 WWKK 4.10 300 eP 06 13.70 -0.3  
 RAB 5.18 73 iPc 06 28.50 0.1  
 1.2s 1750.00nm 6.2mb X  
 WB2 18.87 220 iPc 09 23.40 -0.4  
 0.5s 57.00nm 5.2mb  
 eS 12 50.00  
 ASPA 21.97 214 eP 09 56.50 1.4  
 0.5s 17.20nm 4.7mb  
 eS 13 49.40  
 WARB 28.28 222 eP 10 54.50 0.5  
 MBL 30.64 237 eP 11 14.00 -0.9  
 COOL 35.01 221 eP 11 52.30 -0.3  
 MRWA 37.62 228 iPc 12 14.80 0.2  
 0.5s 10.00nm 4.8mb  
 S.D. = 0.8 on 11 of 11 obs.

\* JAN 29, 1994 04h 22m 22.01±1.03s  
 45.651 N ± 6.4km 14.223 E ± 8.8km  
 DEPTH = 10.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 MD 2.4 (LJU). ML 2.0 (VIE).

CEY 0.17 58 ePg 22 25.90 0.0  
 0.3s 90.00nm  
 eSg 22 28.80  
 RIY 0.33 159 iPg 22 28.80 0.0  
 iSg 22 34.10  
 VOY 0.44 329 ePg 22 31.10 0.0  
 eSg 22 38.00  
 LJU 0.45 29 ePg 22 31.10 0.0  
 eSg 22 36.90  
 VBY 0.74 101 ePg 22 36.50 0.0  
 iSg 22 46.00  
 KBA 1.55 337 iPg 22 54.20 4.3X  
 iSg 23 13.40  
 S.D. = 0.0 on 5 of 6 obs.

\* JAN 29, 1994 05h 20m 18.02±1.40s  
 38.747 N ± 5.6km 27.176 E ± 17.0km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.4 (ISK).

IZM 0.35 169 iPg 20 25.40 0.1  
 iSg 20 30.60  
 DST 1.42 52 iPn 20 43.90 0.0  
 EDC 1.68 18 ePn 20 48.00 0.4  
 KHL 1.89 102 ePn 20 50.50 -0.2  
 IZI 2.38 47 ePn 20 58.40 0.6  
 YLV 2.49 42 ePn 20 59.00 -0.2  
 CTT 2.58 22 ePn 21 00.00 -0.6  
 HRT 2.83 42 ePn 21 04.00 -0.1  
 S.D. = 0.4 on 8 of 8 obs.

JAN 29, 1994 05h 26m 32.84±0.65s  
 40.428 N ± 5.1km 21.172 E ± 6.1km  
 DEPTH = 10.0km (geophysicist)  
 GREECE (364)  
 ML 2.5 (THE).

FNA 0.39 24 iPg 26 41.06 0.3  
 eSg 26 47.78  
 OHR 0.74 338 iPg 26 47.00 -0.4  
 0.6s 180.00nm  
 iSg 26 58.50  
 LIT 1.06 108 ePg 26 52.62 -0.2  
 eSg 27 08.78  
 GRG 1.07 60 ePg 26 53.78 0.7  
 IGT 1.10 216 ePg 26 54.14 0.6  
 VAY 1.39 49 ePn 26 57.60 -0.6  
 KNT 1.50 60 ePb 26 59.54 -0.3  
 eSb 27 20.76  
 AGG 1.66 147 ePb 27 01.26 -0.9  
 eSb 27 23.22  
 SOH 1.71 76 iPb 27 02.98 0.1  
 PAIG 1.99 104 ePn 27 07.50 0.7  
 S.D. = 0.6 on 10 of 10 obs.

JAN 29, 1994 05h 30m 44.65±0.42s  
 40.361 N ± 4.5km 21.221 E ± 3.2km  
 DEPTH = 5.0km (geophysicist)  
 GREECE (364)  
 ML 3.5 (TTG), 3.4 (TIR), 3.1 (THE).

FNA 0.44 16 ePg 30 53.14 -0.3  
 eSg 31 00.10  
 LSK 0.52 246 iPg 30 54.00 -1.1  
 iSg 31 00.60  
 OHR 0.82 337 iPg 30 59.50 -1.5  
 0.5s 1680.00nm  
 iSg 31 11.00  
 TPE 0.93 266 iPg 31 01.00 -1.8  
 LIT 1.01 105 ePg 31 05.74 1.6  
 eSg 31 21.38  
 SRN 1.05 243 iPg 31 04.80 -0.1  
 IGT 1.07 220 ePg 31 05.90 0.6  
 GRG 1.08 56 ePg 31 05.42 0.0  
 THE 1.36 78 ePb 31 08.98 -1.2  
 VAY 1.40 46 iPn 31 09.70 -1.2  
 i 31 23.40  
 i 31 27.00  
 i 31 33.40  
 Lg 31 37.50  
 KNT 1.50 57 ePb 31 11.94 -0.4  
 SKO 1.62 6 ePn 31 12.70 -1.2  
 i 31 14.30  
 iSn 31 33.30  
 Lg 31 43.00  
 SOH 1.69 73 ePb 31 14.78 -0.2  
 LACI 1.71 319 iPg 31 14.80 -0.5  
 iSn 31 39.90  
 PAIG 1.93 102 iPn 31 18.62 0.1  
 SRS 1.95 66 ePb 31 18.06 -0.8  
 OUR 2.11 90 ePn 31 22.18 1.1  
 ULC 2.19 318 iPnc 31 23.13 0.9  
 iSn 31 49.48  
 FVY 2.42 338 iPnc 31 26.44 0.8  
 iSn 31 54.62  
 TTG 2.54 325 iPnd 31 28.31 1.2  
 iSn 31 57.84  
 BDV 2.63 318 iPnc 31 29.53 1.0  
 iSn 32 00.25



BRY	3.18	323	iSn	44	36.36	
			iPnc	44	04.30	-0.3
			iSn	44	42.98	
PLE	3.21	336	iPnd	44	05.06	0.0
			iSn	44	44.03	
S.D. = 0.4 on 26 of 27 obs.						
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JAN 29, 1994 05h 52m 37.86± 0.51s						
52.227 N ± 5.0km 7.779 E ± 2.8km						
DEPTH = 5.0km (geophysicist)						
GERMANY (543)						
ML 3.7 (BNS), 3.6 (GRF), 3.8						
(LDG). Felt (V) at Ibbenbueren.						
Probably mining induced.						
WTS	0.64	249	iPgc	52	51.39	0.7
	0.7s		232.90nm			
			e	53	01.00	
WIT	0.90	311	iPgc	52	55.54	0.0
			eS	53	10.00	
BNS	1.32	197	iPd	53	03.50	0.8
	0.5s		1020.00nm			
			iS	53	22.50	
STB	1.74	200	iPnd	53	09.40	0.6
	0.7s		350.00nm			
			id	53	11.90	
			iSg	53	34.70	
ENN	1.87	219	ePn	53	10.14	-0.6
	0.5s		69.40nm			
			e(Pb)	53	11.00	
			e(Sn)	53	31.80	
MEM	1.96	215	iPnc	53	12.88	0.8
			iPgc	53	16.45	
			iSn	53	39.77	
TNS	2.05	168	ePnc	53	13.80	0.3
			ePbd	53	20.30	
			ePg	53	22.00	
			eSn	53	44.60	
			eSg	53	57.80	
ABH	2.35	184	ePn	53	17.70	-0.1
RUP	2.57	190	ePn	53	20.50	-0.4
UCC	2.57	238	iP	53	35.00	14.2X
TOD	2.70	166	ePn	53	23.00	0.2
WLF	2.76	202	iPnd	53	23.10	-0.5
			iPgc	53	29.88	
			iSn	54	04.96	
SNF	2.78	233	Pn	53	23.20	-0.7
			Sn	54	06.90	
MOX	2.88	122	ePn	53	25.00	-0.2
			iPg	53	35.70	
			iSg	54	17.30	
DOU	2.93	224	Pn	53	25.10	-0.8
			i	53	37.10	
HOF	3.21	125	iPnc	53	29.60	-0.3
GRF	3.34	138	ePn	53	32.40	0.6
			ePg	53	44.20	
			eSg	54	22.90	
CLL	3.37	104	iPn	53	32.50	0.3
			i	53	44.00	
			eSg	54	36.00	
CDF	3.83	185	Pn	53	37.40	-1.5X
			Pg	53	51.30	
			Sg	54	39.00	
BRG	4.08	107	iPn	53	42.50	0.3
			ePg	54	01.10	
			eSg	54	59.40	
MUD	4.32	10	iP	53	41.50	-4.1X
	0.4s		7.00nm			
			iS	54	30.10	
HAU	4.33	193	Pn	53	44.20	-1.6X
			Sg	54	54.60	
FEL	4.36	178	ePn	53	44.80	-1.6X
BSF	4.45	189	Pn	53	45.60	-2.0X
			Sg	54	58.40	
WET	4.48	132	iPnc	53	48.30	0.4
FUR	4.64	150	iPnd	53	51.20	0.9
PRU	4.81	115	Pn	53	52.10	-0.6
	0.9s		33.70nm			
			eSg	55	02.60	
GEC2	5.07	130	Pn	53	56.70	0.3
	0.3s		3.05nm			
			e	54	01.40	
			e	54	05.00	
WATA	5.48	152	iPnd	54	01.30	-1.0
			i	55	06.40	
SQTA	5.48	155	iPnc	54	01.30	-1.0
			i	55	06	

WTTA	5.56	152	iPnc	54	02.80	-0.6
	0.7s	13.30nm				4.7mb X
		i	54	17.00		
		i	55	02.30		
		i	55	44.90		
LOR	5.58	209	Pn	54	00.90	-2.6X
		Sn	55	01.50		
		Sg	55	33.60		
LBF	5.80	207	Pn	54	04.10	-2.5X
		Sn	55	06.90		
		Sg	55	40.50		
SSF	5.87	210	Pn	54	05.10	-2.4X
		Sg	55	41.40		
SMF	6.15	206	Pn	54	08.30	-3.2X
		Sg	55	49.50		
AVF	6.16	210	Pn	54	08.70	-2.9X
LDF	6.22	237	Pn	54	09.20	-3.3X
		Sn	55	15.30		
KBA	6.29	143	iPnc	54	14.20	0.5
		i(Sn)	55	19.70		
FLN	6.31	240	Pn	54	09.90	-3.9X
		Sn	55	17.10		
BGF	6.52	211	Pn	54	13.20	-3.6X
		Sn	55	23.50		
		Sg	56	01.40		
GRR	6.73	239	Pn	54	16.30	-3.5X
		Sn	55	28.50		
LPL	6.75	186	Pn	54	17.50	-2.8X
VKA	6.76	123	eP	54	22.00	1.9X
	1.0s	109.00nm				5.9mb X
		e(Sg)	56	12.00		
LPG	6.77	186	Pn	54	17.30	-3.3X
MAF	6.91	212	Pn	54	17.80	-4.5X
TCF	6.97	214	Pn	54	19.50	-3.6X
		Sn	55	34.60		
LPF	7.05	237	Pn	54	19.90	-4.3X
		Sn	55	36.30		
EKA	7.19	300	P	54	30.00	3.9X
	0.4s	6.70nm				5.2mb
VOY	7.38	145	e(Pn)	54	29.00	0.1
		e	55	06.00		
		eSn	55	58.00		
		eSg	56	48.00		
MFF	7.64	226	Pn	54	27.60	-4.8X
		Sn	55	49.50		
RJF	8.07	213	Pn	54	33.70	-4.7X
		Sn	56	00.60		
CAF	8.23	210	Pn	54	36.80	-3.9X
HFS	8.58	20	eP	54	38.40	-7.2X
	0.2s	0.40nm				4.5mb X
LFF	8.65	215	Pn	54	42.60	-4.0X
DLF	8.75	283	eP	54	43.20	-4.7X
	S.D. = 0.6 on 27 of 55 obs.					
-----						
? JAN 29, 1994	06h	09m	45.66±	2.28s		
38.527 N	±29.9km	27.664 E	±24.0km			
DEPTH =	5.0km	(geophysicist)				
TURKEY						(366)
ML 2.8 (ISK).						
IZM	0.34	248	iPg	09	52.50	0.0
		iSg	09	57.50		
DST	1.31	35	iPn	10	10.10	-0.3
EDC	1.82	5	ePn	10	18.00	0.1
IZI	2.29	37	ePn	10	25.00	0.3
	S.D. = 0.5 on 4 of 4 obs.					
-----						
JAN 29, 1994	06h	16m	58.62±	0.52s		
38.910 N	± 4.4km	23.293 E	± 6.1km			
DEPTH =	4.8 ± 3.0 km					
GREECE						(364)
ML 3.7 (ATH), 3.6 (THE).						
AGG	0.76	279	ePg	17	13.62	-0.2
		iSg	17	25.02		
ATH	0.99	160	ePn	17	17.40	-0.5
		eSb	17</			



KNT 2.27 352 ePn 17 36.50 -0.9  
 PRK 2.34 81 ePb 17 42.50 4.1X  
 FNA 2.38 322 ePn 17 39.10 0.1  
 VAY 2.47 347 iPn 17 39.30 -0.9  
 RDO 2.82 37 ePn 17 43.10 -2.1X  
 ALN 2.90 46 ePn 17 44.74 -1.6  
 SKO 3.37 336 e(Pn) 17 53.50 0.5  
 VAM 3.57 168 ePn 17 55.90 0.1  
 MLR 6.86 16 eP 18 42.50 0.0  
 VRI 7.40 19 eP 18 51.50 1.6

S.D. = 0.8 on 18 of 20 obs.

JAN 29, 1994 06h 23m 52.86± 0.38s  
 40.406 N ± 4.2km 21.148 E ± 3.1km  
 DEPTH = 5.0km (geophysicist)

GREECE (364)

ML 2.9 (THE).

KBN 0.35 308 iPc 23 59.00 -0.9  
 FNA 0.42 25 ePg 24 01.70 0.5  
 LSK 0.49 239 iPc 24 02.00 -0.7  
 OHR 0.75 339 iPg 24 07.90 -0.1

0.5s 890.00nm

TPE 0.88 263 ePn 24 09.00 -1.2  
 SRN 1.02 240 ePg 24 15.60 2.9X  
 LIT 1.07 106 ePg 24 13.42 -0.1

IGT 1.07 216 ePg 24 14.18 0.6  
 VAY 1.10 60 ePg 24 13.70 -0.3  
 VLO 1.26 273 ePn 24 18.60 1.9  
 TIR 1.35 314 ePn 24 21.00 2.7X  
 THE 1.40 80 ePb 24 18.67 -0.4

VAY 1.41 49 iPn 24 19.40 0.2  
 KNT 1.53 60 ePb 24 19.82 -1.0  
 SKO 1.58 8 ePn 24 21.50 -0.1

LACI 1.64 319 ePn 24 23.00 0.6  
 AGG 1.66 146 ePb 24 22.30 -0.4  
 SRS 1.99 68 iPb 24 27.62 0.1  
 PAIG 2.00 103 ePb 24 28.02 0.4  
 OUR 2.17 91 ePn 24 30.98 0.9

S.D. = 0.8 on 18 of 20 obs.

? JAN 29, 1994 06h 39m 30.99± 1.11s  
 38.669 N ± 14.1km 27.384 E ± 25.7km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 3.0 (ISK).

Izm 0.29 199 iPg 39 37.00 0.0  
 DST 1.35 46 iPn 39 55.40 -0.4  
 EDC 1.72 12 ePn 40 01.00 -0.1  
 IZI 2.32 43 ePn 40 10.40 0.5

S.D. = 0.6 on 4 of 4 obs.

? JAN 29, 1994 07h 10m 53.38± 0.95s  
 38.743 N ± 16.7km 27.583 E ± 22.5km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.8 (ISK).

Izm 0.43 216 iPg 11 02.10 0.0  
 DST 1.18 43 ePn 11 15.50 0.0  
 EDC 1.62 8 ePn 11 22.00 0.0  
 IZI 2.16 42 ePn 11 30.00 0.0

S.D. = 0.0 on 4 of 4 obs.

\* JAN 29, 1994 08h 44m 46.03± 0.87s  
 6.572 S ± 9.8km 128.103 E ± 18.8km  
 DEPTH = 338.3 ± 8.8 km  
 4.3mb (1 obs.)

BANDA SEA (280)

MTN 6.91 155 eP 46 27.60 -0.2  
 KNA 9.14 176 eP 46 55.00 0.4  
 WB2 14.61 156 iPd 47 58.30 -1.4

0.4s 108.60nm 5.6mb X

MBL 16.57 208 eP 48 19.50 -0.9  
 QIS 17.82 142 eP 48 34.00 0.6

ASPA 17.89 162 iPc 48 34.20 0.1  
 WARB 19.55 184 eP 48 52.00 1.4  
 FORT 24.08 180 eP 49 33.80 0.2

STK 28.16 155 eP 50 09.90 -0.3  
 MAT 43.92 12 (P) 52 22.00 0.0  
 YKA 108.19 26 ePKP 02 35.50 0.3

0.5s 7.20nm 4.3mb  
 S.D. = 0.9 on 11 of 11 obs.

\* JAN 29, 1994 09h 09m 00.00± 1.11s  
 40.193 N ± 9.6km 20.827 E ± 11.8km  
 DEPTH = 5.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

ML 2.6 (THE).

FNA 0.72 35 ePg 09 13.36 -1.1  
 IGT 0.76 210 ePg 09 22.52 -0.4  
 OHR 0.92 359 iPg 09 19.30 1.3

0.5s 220.00nm  
 LIT 1.28 94 ePb 09 25.72 1.5  
 GRG 1.42 57 ePb 09 25.32 -1.2  
 VAY 1.74 49 ePn 09 32.00 1.0

KNT 1.85 58 ePn 09 31.60 -1.0  
 S.D. = 1.5 on 7 of 7 obs.

% JAN 29, 1994 09h 25m 24.69± 2.62s  
 38.791 N ± 7.4km 27.091 E ± 33.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 3.1 (ISK).

Izm 0.42 161 iPg 25 33.20 0.0  
 DST 1.44 55 iPn 25 50.80 -0.1  
 EDC 1.66 21 ePn 25 54.00 0.0  
 IZI 2.40 49 ePn 26 05.00 0.2

YLV 2.50 44 ePn 26 06.00 -0.1  
 S.D. = 0.2 on 5 of 5 obs.

? JAN 29, 1994 09h 35m 41.28± 1.92s  
 31.840 S ± 16.1km 68.273 W ± 9.9km  
 DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCV 0.23 265 iPd 35 46.30 0.1  
 CFA 0.23 7 iPc 35 46.60 0.3  
 ZON 0.45 310 iPd 35 50.30 -0.2

RTPR 2.15 45 eP 36 17.50 -0.2  
 S.D. = 0.4 on 4 of 4 obs.

% JAN 29, 1994 10h 32m 16.06± 1.67s  
 38.742 N ± 6.4km 27.161 E ± 18.0km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 3.4 (ISK).

Izm 0.35 167 iPg 32 23.20 -0.2  
 DST 1.43 52 iPn 32 41.90 -0.2  
 EDC 1.69 18 ePn 32 46.00 0.2

KHL 1.90 102 iPn 32 49.70 0.8  
 ALT 2.32 81 ePn 32 54.40 -0.6  
 IZI 2.39 48 ePn 32 55.90 -0.1

YLV 2.50 42 ePn 32 57.50 0.1  
 S.D. = 0.5 on 7 of 7 obs.

& JAN 29, 1994 10h 42m 27.18s  
 34.313 N 118.466 W  
 DEPTH = 8.6km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

TWL 0.11 252 P 42 29.53 -0.4  
 FIL 0.32 290 P 42 34.22 0.4  
 CJV 0.34 51 P 42 33.59 -0.7

QAL 0.48 335 P 42 36.06 -0.9  
 PEM 0.51 106 P 42 36.93 -0.7  
 TPO 0.60 19 P 42 38.24 -1.0

SSK 0.65 99 eP 42 39.08 -1.1  
 LOK 0.66 309 P 42 39.31 -1.2  
 ABL 0.82 311 eP 42 41.81 -1.6

BMT 0.83 353 P 42 42.09 -1.3  
 SNDC 0.84 9 P 42 42.70 -0.9  
 CALC 0.90 28 P 42 43.50 -1.0

HYS 0.92 53 P 42 43.91 -1.1  
 DTP 1.08 28 P 42 46.68 -1.0  
 HOD 1.14 62 P 42 47.72 -0.9

PEC 1.16 111 eP 42 47.62 -1.4  
 BTL 1.21 92 P 42 49.88 -0.2  
 BLKC 1.29 53 P 42 50.49 -0.7

ISA 1.35 360 eP 42 51.37 -0.8  
 WHFM 1.38 4 P 42 52.09 -0.7  
 WWPM 1.45 12 P 42 53.45 -0.3

WSHM 1.54 31 P 42 54.45 -0.5  
 BCH 1.59 304 eP 42 54.90 -0.8  
 WCHM 1.60 11 P 42 57.04 1.0

PLM 1.64 125 eP 42 54.28 -2.3  
 CLC 1.66 25 P 42 57.91 1.2  
 GSC 1.69 54 eP 42 56.04 -1.0

MTUM 3.03 359 (Pn) 43 15.90 -0.6  
 TPNV 3.19 34 ePn 43 18.15 -0.5  
 MEMM 3.37 354 (Pn) 43 19.42 -1.6

BONR 3.64 2 ePn 43 25.77 0.6  
 ePg 43 33.75  
 31 obs. associated

JAN 29, 1994 10h 49m 50.37± 0.31s  
 44.568 N ± 2.4km 7.324 E ± 3.5km  
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.6 (LDG), 2.4 (GEN).

PZZ 0.17 249 P 49 54.08 -0.3  
 BHB 0.28 351 P 49 56.37 0.5  
 STV 0.32 180 P 49 56.93 -0.2

ENR 0.35 168 P 49 57.14 -0.4  
 ROB 0.48 125 P 50 00.08 0.0  
 RRL 0.52 313 P 50 00.86 -0.1

RSP 0.59 355 P 50 01.91 -0.4  
 SBF 0.71 173 Pg 50 04.60 0.2  
 FIN 0.73 119 P 50 04.68 0.0

IMI 0.77 148 P 50 05.42 -0.1  
 PCP 0.87 91 P 50 07.46 0.3  
 LSD 0.90 352 P 50 07.87 0.1

LPG 1.01 337 Pg 50 09.80 0.0  
 FRF 1.12 206 Pg 50 12.00 0.7  
 ORX 1.16 23 P 50 11.89 -0.3

LRG 1.31 212 Pg 50 16.00 1.4X  
 LMR 1.37 206 Pg 50 16.70 1.3X  
 S.D. = 0.3 on 15 of 17 obs.

? JAN 29, 1994 10h 56m 15.27± 0.99s  
 38.682 N ± 15.2km 27.436 E ± 24.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 2.9 (ISK).

Izm 0.31 206 iPg 56 21.80 0.0  
 DST 1.31 45 iPn 56 39.20 -0.3  
 EDC 1.70 11 ePn 56 45.00 0.0

IZI 2.28 43 ePn 56 54.00 0.3  
 S.D. = 0.5 on 4 of 4 obs.

? JAN 29, 1994 11h 11m 56.95± 0.98s



29d 11h

38.657 N  $\pm 16.4$ km 27.443 E  $\pm 25.3$ km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.9 (ISK).

IZM 0.30 209 iPg 12 03.10 0.0  
 iSg 12 08.60  
 DST 1.32 44 ePn 12 20.90 -0.5  
 EDC 1.72 11 ePn 12 27.00 -0.1  
 IZI 2.30 42 ePn 12 36.10 0.6  
 S.D. = 0.7 on 4 of 4 obs.

& JAN 29, 1994 11h 13m 18.16s  
 34.304 N 118.414 W  
 DEPTH = 6.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.4 (PAS), 3.7 (GS).

SCY 0.20 190 P 13 21.84 -0.5  
 CJV 0.32 45 P 13 23.98 -0.6  
 LRRC 0.39 55 P 13 25.44 -0.6  
 FOXC 0.45 19 P 13 26.71 -0.6  
 QAL 0.51 331 P 13 27.54 -0.9  
 ECF 0.58 286 P 13 29.71 -0.1  
 TPO 0.59 15 P 13 28.97 -1.1  
 SSK 0.60 99 eP 13 29.32 -1.0  
 FTC 0.69 325 P 13 30.97 -1.0  
 LOK 0.70 307 P 13 31.12 -1.1  
 GAV 0.80 110 P 13 32.77 -1.3  
 BMTC 0.84 350 P 13 33.40 -1.5  
 RYS 0.85 294 P 13 33.99 -1.0  
 ABL 0.86 310 eP 13 33.67 -1.6  
 CALC 0.89 26 P 13 34.14 -1.4  
 ARVC 0.89 337 P 13 34.43 -1.2  
 HYS 0.89 51 P 13 34.34 -1.4  
 TEJ 0.95 346 P 13 35.06 -1.6  
 MARC 1.03 313 P 13 35.00 -3.1  
 ELS 1.05 128 P 13 36.91 -1.5  
 LPC 1.09 280 P 13 37.88 -1.2  
 HOD 1.10 61 P 13 38.00 -1.3  
 PEC 1.12 111 ePc 13 37.97 -1.6  
 eS 13 52.59

WHVM 1.21 356 P 13 39.68 -1.4  
 TMB 1.21 311 P 13 40.52 -0.6  
 WBSM 1.25 10 P 13 40.70 -1.2  
 ISA 1.36 358 eP 13 42.25 -1.4  
 POB 1.38 116 P 13 42.00 -2.1  
 WHFM 1.39 2 P 13 42.95 -1.2  
 CRGC 1.43 311 P 13 43.80 -0.9  
 WWPM 1.45 11 P 13 43.80 -1.3  
 XMS 1.50 35 P 13 44.40 -1.2  
 WSHM 1.53 29 P 13 44.59 -1.5  
 SCCM 1.58 294 P 13 46.40 -0.4  
 NMC 1.59 15 P 13 47.30 0.3  
 TOW 1.59 19 P 13 47.86 0.9  
 PLM 1.60 126 eP 13 44.91 -2.4  
 eS 14 03.31

BCH 1.63 303 eP 13 46.27 -1.3  
 GSC 1.66 53 ePd 13 46.75 -1.2  
 VPWM 1.71 16 P 13 50.20 1.4  
 RCWM 1.76 21 P 13 48.34 -1.1  
 WLHM 1.85 3 P 13 52.34 1.4  
 PTRM 2.00 313 P 13 52.97 0.1  
 PHAM 2.23 314 (P) 13 54.81 -1.4  
 PHBM 2.37 325 P 13 59.38 1.2  
 BHPR 2.99 359 P 14 13.13 5.9  
 MTUM 3.05 358 ePn 14 07.53 -0.4  
 RMSM 3.05 321 P 14 07.03 -0.8  
 TPNV 3.17 33 eP 14 08.42 -1.3  
 GLA 3.24 112 (Pn) 14 09.85 -0.7  
 MRCM 3.36 359 (Pn) 14 11.11 -1.4  
 ePg 14 19.14

MEMM 3.38 353 ePn 14 11.17 -1.4  
 BPRM 3.43 309 P 14 11.38 -1.9  
 SAO 3.48 316 P 14 14.78 0.8  
 BONR 3.64 1 ePn 14 16.74 0.2  
 ePg 14 23.83

TNP 3.89 14 (Pn) 14 19.68 -0.3  
 ePg 14 29.80

ARN 3.96 321 eP 14 20.38 -0.4  
 COE 3.96 319 eP 14 18.82 -2.0  
 CMB 4.05 337 eP 14 21.28 -0.8  
 KVN 4.74 3 ePn 14 31.76 -0.4  
 ARUT 5.32 48 ePn 14 37.39 -2.9  
 NTTYM 5.33 321 (P) 14 37.59 -2.5  
 ORV 5.79 336 eP 14 43.87 -2.9  
 MSU 6.55 48 ePn 14 56.34 -1.4

DUG 7.38 36 (Pn) 15 19.12  
 ePg 15 08.71 -0.5  
 ePg 15 36.87  
 PV10 8.59 59 ePg 15 54.13 28.0  
 66 obs. associated

& JAN 29, 1994 11h 20m 35.95s  
 34.305 N 118.579 W  
 DEPTH = 1.0km  
 4.9mb (33 obs.) 5.3MsZ (6 obs.)

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 5.1 (PAS), 5.4 (BRK). Additional damage in the Northridge area. Slight damage (VI) at Camarillo and Sunland. Felt (V) at Burbank, Chatsworth, Glendale, Montrose, North Hollywood, Ojai, Paramount, Sun Valley, Thousand Oaks, Tujunga, Ventura and Yorba Linda. Felt in Kern, Los Angeles, Orange, Riverside, Santa Barbara and Ventura Counties.

SSK 0.74 97 iPc 20 50.11 -0.6  
 ABL 0.76 316 iPc 20 50.41 -0.7  
 SNDC 0.87 15 P 20 52.77 -0.5  
 TMB 1.11 315 P 20 57.45 -0.2  
 PEC 1.25 109 iPc 20 58.27 -1.7  
 ISA 1.36 4 ePn 21 01.09 -0.8  
 BCH 1.52 306 ePn 21 03.06 -1.4  
 WSHM 1.60 34 P 21 04.21 -1.3  
 PLM 1.72 123 ePd 21 05.13 -2.2  
 WLHM 1.86 7 P 21 08.89 -0.6  
 PTRM 1.90 316 P 21 09.35 -0.5  
 PMGM 1.95 306 P 21 10.09 -0.5  
 PAGM 1.98 317 P 21 10.63 -0.3  
 PMRM 2.01 318 P 21 11.46 0.1  
 PMCM 2.04 314 P 21 11.23 -0.7  
 PSRM 2.08 318 P 21 12.46 -0.1  
 GHC 2.11 317 P 21 09.81 -3.0  
 PHAM 2.14 316 eP 21 11.80 -1.4  
 PKEM 2.15 325 eP 21 13.25 -0.2  
 CTM 2.17 319 P 21 13.72 -0.1  
 WKR 2.19 314 P 21 13.28 -0.7  
 PSTM 2.26 316 P 21 14.14 -1.0  
 PHBM 2.30 328 P 21 16.19 0.6  
 PADM 2.30 306 P 21 14.52 -1.1  
 PCRM 2.34 320 P 21 15.35 -0.9  
 PANM 2.41 308 P 21 15.55 -1.7  
 PDRM 2.50 325 P 21 18.03 -0.4  
 PSAM 2.55 313 P 21 17.79 -1.4  
 PRCM 2.56 320 P 21 18.77 -0.6  
 MOP 2.63 317 P 21 19.25 -1.1  
 SHG 3.03 315 P 21 23.81 -2.2  
 MTUM 3.04 0 ePn 21 26.05 -0.3  
 BCWM 3.16 310 P 21 26.64 -1.2  
 EKH 3.17 319 P 21 27.34 -0.5  
 TPNV 3.25 35 ePn 21 28.44 -0.8  
 BVYM 3.36 317 P 21 29.09 -1.6  
 MRCM 3.36 1 ePn 21 30.95 0.1  
 eS 22 22.52

MEMM 3.37 355 eP 21 31.12 0.4  
 GLA 3.37 111 ePn 21 29.76 -1.1  
 SAO 3.39 317 eP 21 28.33 -2.8  
 SFL 3.52 320 P 21 32.38 -0.6  
 OCR 3.53 318 P 21 33.00 -0.1  
 DIL 3.55 316 P 21 30.86 -2.5  
 HERM 3.56 315 P 21 31.71 -1.8  
 BONR 3.65 3 ePn 21 34.47 -0.6  
 HGWM 3.69 318 P 21 33.84 -1.4  
 JBMZ 3.76 317 P 21 35.45 -0.9  
 EUC 3.80 317 P 21 34.93 -2.0  
 ARN 3.87 323 eP 21 35.41 -2.6  
 COE 3.87 320 eP 21 35.82 -2.2  
 AMC 3.90 318 P 21 36.14 -2.1  
 MHC 3.92 321 eP 21 37.59 -1.2  
 TNP 3.93 16 eP 21 39.18 0.3  
 CMB 4.00 339 ePd 21 38.89 -0.9  
 iS 22 30.28

STAN 4.25 318 iPc 21 41.57 -1.7  
 SFT 4.25 318 P 21 41.79 -1.5  
 BGH 4.30 316 P 21 42.27 -1.8  
 CCYM 4.31 320 P 21 44.61 0.4  
 JHPM 4.35 317 P 21 42.27 -2.5  
 JCHM 4.45 317 P 21 43.63 -2.5  
 CSLM 4.46 321 P 21 46.97 0.7

MGA 4.59 318 P 21 46.27 -1.8  
 BKC 4.60 323 P 21 49.36 1.1  
 BKS 4.63 321 eP 21 46.70 -2.0  
 iS 23 15.23  
 HMR 4.64 327 eP 21 48.30 -0.5  
 CPIM 4.71 322 P 21 48.54 -1.3  
 KVN 4.75 5 ePn 21 51.91 1.3  
 NOLM 5.05 319 P 21 51.09 -3.5  
 LOC 5.09 320 P 21 52.60 -2.6  
 NPRM 5.14 317 P 21 53.06 -2.9  
 NTTYM 5.24 322 ePn 21 53.58 -3.7  
 NTBM 5.28 319 P 21 56.04 -1.8  
 ARUT 5.42 49 ePn 21 59.38 -0.8  
 ePg 22 17.22

GARM 5.50 329 P 21 59.70 -1.3  
 GCRM 5.56 324 P 22 02.04 0.0  
 FTR 5.60 320 P 22 00.04 -2.4  
 OSUM 5.61 333 P 22 01.15 -1.4  
 GSGM 5.64 325 P 22 02.31 -0.7  
 GHCM 5.68 320 P 22 01.44 -2.2  
 ORV 5.74 337 ePn 22 02.33 -2.1  
 GSNM 5.93 323 P 22 06.11 -1.0  
 MSU 6.66 49 ePn 22 17.08 -0.5  
 ePg 22 41.24

LMEM 6.66 340 (Pn) 22 17.78 0.2  
 TUC 6.82 105 eP 22 18.10 -1.6  
 ELK 6.95 21 eP 22 20.41 -1.3  
 WDC 7.01 334 eP 22 18.82 -3.5  
 LGPM 7.41 334 ePn 22 27.15 -0.8  
 DUG 7.46 36 ePn 22 28.56 -0.2  
 LBFM 7.50 341 eP 22 32.16 2.8  
 KMPM 7.53 326 P 22 29.64 0.0  
 FHC 7.78 328 eP 22 33.14 0.1  
 SRU 8.05 51 ePn 22 37.74 0.7  
 EMUT 8.29 46 ePn 22 41.62 1.2  
 DAU 8.43 42 ePn 22 43.37 0.8  
 PV09 8.69 58 ePn 22 45.71 -0.4  
 eSg 25 12.32

PV10 8.70 59 ePn 22 45.59 -0.6  
 HVU 8.75 30 (P) 22 46.33 -0.4  
 PV08 9.07 59 ePn 22 51.04 -0.3  
 ePg 23 28.14

PTI 9.83 28 eP 23 03.80 2.1  
 ALQ 10.01 83 eP 23 04.01 -0.2  
 BW06 11.02 37 eP 23 18.51 0.5  
 VGB 11.32 352 eP 23 25.76 3.8  
 MCMT 11.40 21 ePd 23 26.40 3.2  
 e 23 31.90  
 GOL 11.85 59 eP 23 30.10 0.7  
 eSg 26 55.28

GLD 11.97 59 P 23 36.00 5.0  
 BGMT 12.01 23 ePc 23 35.00 3.5  
 e 23 40.10

SHW 12.20 348 P 23 43.33 9.4  
 LRM 12.42 20 eP 23 38.20 1.2  
 BMW 12.66 345 (P) 23 40.00 0.0  
 LON 12.67 350 eP 23 42.44 2.3  
 SXM 13.09 23 eP 23 48.90 2.9  
 RMW 13.36 350 P 23 52.35 2.9  
 DPW 13.56 1 P 23 57.41 5.5  
 GMW 13.60 348 (P) 23 53.55 1.1  
 LTX 13.61 107 (P) 23 52.52 -0.2  
 NEW 13.99 4 eP 24 00.72 3.1  
 1.1s 27.53nm 5.0mb



INK	35.10	350	eP	27	32.00	-0.4	BJI	90.42	321	eP	33	37.00	-3.5						
	1.0s	4.00nm			4.2mb		Z	20s	0.60um			5.0msz							
FBA	35.35	339	eP	27	38.53	3.9	BTO	93.05	325	eP	33	55.00	2.2	% JAN 29, 1994 11h 53m 39.17± 1.02s					
	1.6s	21.22nm			4.7mb		WHN	98.44	316	eP	34	15.00	-2.3	39.263 N ± 8.0km 27.756 E ± 11.7km					
SVW	35.78	330	eP	27	39.20	0.9	WB2	114.76	262	ePKP	39	16.70	-3.7	DEPTH = 10.0km (geophysicist)					
TTA	36.91	332	eP	27	47.60	-0.3		0.9s	3.90nm					TURKEY (366)					
IMA	37.96	338	eP	27	56.60	-0.1	WRA	114.77	262	PKP	39	20.10	-0.4	ML 2.8 (ISK).					
	1.5s	37.30nm			4.9mb			0.7s	0.80nm					DST 0.76 63 iPg 53 54.40 0.4					
ANM	41.34	332	(P)	28	26.22	1.6	KSR	149.08	84	ePKP	40	25.00	1.2	IZM 0.95 204 iPg 53 57.10 -0.1					
MBC	42.03	360	eP	28	32.00	2.0	BLF	149.68	90	ePKP	40	30.00	5.4	eSg 54 11.10					
	1.0s	4.00nm			4.1mb		SLR	150.17	82	ePKP	40	30.50	5.1	EDC 1.09 4 ePn 54 00.00 0.4					
RES	42.07	9	eP	28	32.50	2.1		1.2s	31.25nm					KHL 1.67 124 ePn 54 09.00 0.3					
	1.0s	3.00nm			4.0mb			187 obs. associated								IZI 1.70 50 ePn 54 08.10 -1.0			
BRW	42.19	343	(P)	28	31.83	0.4	-----							S.D. = 0.9 on 5 of 5 obs.					
FRB	42.36	30	eP	28	32.00	-0.9	& JAN 29, 1994 11h 30m 00.40s								-----				
	1.0s	11.00nm			4.5mb		34.313 N 118.542 W								& JAN 29, 1994 12h 16m 56.35s				
DAG	59.11	15	iPc	30	37.80	-2.1	DEPTH = 2.4km								34.278 N 118.611 W				
	0.8s	6.72nm			4.8mb		SOUTHERN CALIFORNIA ( 43)								DEPTH = 2.7km				
YAK	69.50	332	eP	31	50.60	2.8	<PAS-P>. ML 2.8 (PAS), 2.8 (GS).								3.3mb ( 2 obs.)				
	1.3s	25.00nm			5.2mb										SOUTHERN CALIFORNIA ( 43)				
LPaz	69.52	128	P	31	46.00	-3.3	SSK	0.71	98	eP	30	13.88	-0.7	<PAS-P>. ML 4.3 (PAS), 4.3 (GS),					
		LR		52	44.00				eS		30	25.40		4.4 (BRK).					
LPB	69.72	128	P	31	46.80	-3.5	ABL	0.78	314	eP	30	14.87	-1.0	RYS 0.71 301 P 17 10.25 -0.3					
SIV	74.09	122	P	32	13.90	-2.0	PEC	1.22	110	eP	30	22.44	-1.4	ABL 0.76 319 ePc 17 10.53 -1.0					
HFS	78.05	22	eP	32	36.10	-1.5	ISA	1.35	2	eP	30	25.04	-1.0	SSK 0.76 95 eP 17 10.74 -0.9					
	0.5s	1.40nm			4.3mb		BCH	1.54	305	eP	30	27.76	-1.2	ARVC 0.87 348 P 17 12.63 -1.0					
BOD	78.10	334	eP	32	36.20	-1.6	GSC	1.74	55	eP	30	30.93	-0.9	TMB 1.11 317 P 17 17.27 -0.6					
KAF	79.82	16	iP	32	46.70	-0.4	BONR	3.64	3 (Pn)	31	01.22	2.0	PEC 1.26 107 eP 17 18.46 -2.0						
MDJ	80.05	318	eP	32	47.50	-1.2		7 obs. associated								ISA 1.39 5 eP 17 21.29 -1.4			
NUR	80.83	17	eP	32	53.80	1.3	-----							WASM 1.46 2 P 17 23.57 -0.3					
MFF	82.27	38	eP	33	02.00	1.7	& JAN 29, 1994 11h 37m 31.91s								BCH 1.51 307 ePc 17 22.90 -1.6				
	1.4s	20.50nm			5.1mb		34.400 N 118.612 W								YEG 1.60 317 P 17 24.46 -1.3				
CN2	82.85	319	eP	33	02.20	-1.2	DEPTH = 5.2km								NMC 1.67 20 P 17 25.75 -0.9				
Z	20s	0.37um			4.8msz		SOUTHERN CALIFORNIA ( 43)								PLM 1.72 122 eP 17 25.01 -2.6				
							<PAS-P>. ML 3.3 (PAS), 3.5 (GS).								GSC 1.80 55 eP 17 27.53 -1.2				
WLF	83.11	33	P	33	10.00	5.4	FTC	0.52	334	P	37	41.34	-1.1	PTRM 1.90 317 P 17 28.53 -1.5					
LSF	83.35	37	eP	33	06.70	0.7	ABL	0.67	312	ePc	37	43.53	-1.9	PMGM 1.95 307 P 17 28.79 -1.9					
	1.0s	11.20nm			5.0mb		ARVC	0.75	346	P	37	45.36	-1.5	PAGM 1.98 318 P 17 30.05 -1.1					
TCF	83.66	37	eP	33	09.20	1.6	SSK	0.78	104	eP	37	45.20	-2.5	PMRM 2.01 319 P 17 30.27 -1.3					
SSF	83.75	36	eP	33	09.70	1.7	TEJ	0.83	356	P	37	46.80	-1.7	PMCM 2.04 315 P 17 30.22 -1.9					
	1.0s	7.20nm			4.9mb		WJPM	1.01	6	P	37	50.02	-1.6	PSRM 2.09 319 P 17 31.12 -1.6					
LOR	83.78	35	eP	33	09.90	1.8	CRGC	1.24	313	P	37	53.56	-2.0	PHAM 2.14 317 eP 17 31.38 -2.1					
	1.2s	14.90nm			5.1mb		ISA	1.27	5	ePc	37	54.20	-1.7	PKEM 2.16 326 eP 17 32.58 -1.2					
Z	23s	1.08um			5.2mszX		PEC	1.31	112	eP	37	53.30	-3.3	CTM 2.17 320 P 17 32.62 -1.5					
BGF	83.79	36	eP	33	09.80	1.6	BCH	1.44	303	eP	37	56.14	-2.7	WKR 2.19 315 P 17 32.45 -1.7					
	0.8s	7.80nm			5.0mb		YEG	1.51	313	P	37	57.30	-2.5	PSTM 2.27 317 P 17 33.52 -1.8					
AVF	83.87	36	eP	33	10.00	1.4	WCHM	1.54	16	P	37	58.04	-2.3	PADM 2.30 307 P 17 33.41 -2.4					
	1.2s	12.20nm			5.0mb		GSC	1.74	58	eP	38	00.74	-2.2	PHBM 2.31 329 P 17 35.14 -0.7					
MAF	83.89	37	eP	33	10.50	1.8	PLM	1.79	125	eP	38	00.38	-3.5	PCRM 2.35 321 P 17 34.66 -1.8					
	1.2s	16.35nm			5.1mb		PTRM	1.81	314	P	38	01.98	-2.1	PANM 2.41 309 P 17 34.65 -2.7					
LBF	84.04	35	eP	33	11.00	1.5	PMGM	1.87	304	P	38	01.92	-3.0	PSMM 2.42 318 P 17 36.27 -1.3					
	1.4s	16.55nm			5.1mb		PAGM	1.89	315	P	38	02.95	-2.2	PDRM 2.51 326 P 17 37.61 -1.1					
SMF	84.21	36	eP	33	11.70	1.4	PMCM	1.96	313	P	38	03.40	-2.7	PTV 2.51 317 P 17 36.77 -2.1					
	0.9s	7.35nm			4.9mb		PHAM	2.05	315	eP	38	04.22	-3.2	PSAM 2.55 314 P 17 36.95 -2.4					
LPO	84.26	38	eP	33	12.60	2.0	WKR	2.10	313	P	38	05.84	-2.4	PRCM 2.57 321 P 17 38.34 -1.3					
	0.8s	7.00nm			4.9mb		PSTM	2.18	315	P	38	06.63	-2.7	MOP 2.63 318 P 17 38.41 -2.2					
HAU	84.41	34	eP	33	13.10	1.8	PHBM	2.20	327	P	38	08.53	-1.1	PJLM 2.76 312 P 17 39.54 -2.8					
	1.0s	8.80nm			4.9mb		PADM	2.22	304	P	38	05.94	-4.0	LRV 2.91 318 P 17 42.20 -2.3					
Z	18s	1.40um			5.4msz		PANM	2.33	307	P	38	07.80	-3.7	MTUM 3.07 1 eP 17 46.42 -0.5					
CDF	84.53	33	eP	33	13.50	1.5	PDRM	2.41	324	P	38	10.06	-2.5	BCWM 3.15 311 P 17 44.75 -3.3					
	1.2s	10.70nm			5.0mb		PSAM	2.47	312	P	38	10.18	-3.3	TPNV 3.29 35 s eP 17 48.08 -1.9					
CAF	84.54	38	eP	33	13.80	1.8	LRC	2.71	314	P	38	12.97	-3.9	BSRM 3.36 316 P 17 47.72 -3.2					
	1.0s	9.00nm			5.0mb		PAPM	2.71	305	P	38	12.72	-4.3	GLA 3.38 110 ePn 17 50.50 -0.8					
MOX	84.69	29	eP	33	14.60	1.9	BMSM	2.87	322	P	38	16.19	-3.0	MRCM 3.39 1 (Pn) 17 50.49 -1.0					
	Z 18s	1.00um			5.2msz		MTUM	2.95	1	ePn	38	18.81	-1.6	SAO 3.39 318 eP 17 48.02 -3.3					
CLL	84.73	28	eP	33	13.00	0.2	BPOM	3.16	306	P	38	18.62	-4.6	MEMM 3.39 356 (Pn) 17 51.07 -0.2					
BSF	84.74	33	eP	33	14.60	1.5	TPNV	3.19	36	ePn	38	20.21	-3.6	LTR 3.41 321 P 17 49.74 -1.8					
	0.9s	4.60nm			4.7mb		BPRM	3.24	309	P	38	20.01	-4.4	HSFM 3.46 318 P 17 50.31 -1.9					
GRF	85.27	30	eP	33	18.50	2.9	MRCM	3.27	1	ePn	38	23.57	-1.4	HCOM 3.63 317 P 17 51.84 -2.8					
	Z 21s	1.60um			5.4msz		MEMM	3.27	355	ePn	38	23.79	-1.0	CBC 3.63 318 P 17 53.20 -1.5					
BRG	85.44	28	eP	33	18.80	2.4	BSRM	3.28	314	P	38	21.19	-3.7	BONR 3.68 4 ePn 17 55.60 -0.1					
PRU	86.37	28	eP	33	23.80	2.8	GLA	3.43	112 (Pn)	38	23.08	-4.1	JELM 3.72 316 P 17 53.61 -2.4						
	Z 13s	1.20um			5.5mszX		DIL	3.46	315	P	38	23.52	-4.0	ARN 3.88 323 eP 17 54.90 -3.3					
	N 13s	0.10um					BONR	3.56	4	ePn	38	26.78	-2.4	JRGM 3.88 316 P 17 54.56 -3.6					
	E 13s	1.00um					JBZM	3.67	316	P	38	27.71	-2.8	COE 3.88 321 eP 17 55.20 -3.0					
GEC2	86.95	29	P	33	25.50	1.5	ARN	3.78	322	eP	38	28.20	-3.9	MHC 3.93 322 eP 17 56.03 -3.0					
	1.2s	1.76nm			4.2mb		COE	3.78	320	eP	38	28.58	-3.6	TNP 3.96 16 ePn 17 58.76 -0.8					
ZAK	87.92	335	eP	33	29.30	0.8	TNP	3.84	17	ePg	38	41.80	8.6	CMB 4.01 340 eP 17 58.95 -1.2					
	2.0s	26.00nm			5.2mb		CMB	3.90	339	eP	38	30.12	-3.7	BKS 4.64 322 eP 18 05.59 -3.4					
		e		44	07.00		LT3	4.09	315	P	38	32.40	-4.0	HMR 4.65 327 eP 18 07.72 -1.4					
OBN	88.44	14	eP	33	31.00	0.1	HMR	4.55	326 (P)	38	41.48	-1.4	KVN 4.78 5 ePn 18 10.81 -0.4						
	Z 18s	2.40um			5.7msz		KVN	4.66	5 (Pn)	38	44.80	0.0	NTYM 5.25 323 eP 18 13.57 -4.0						
	N 18s	2.00um							ePg		38	57.03		ARUT 5.46 49 eP 18 20.70 -0.1					
	E 18s	1.20um					ARUT	5.38	50 (Pn)	38	52.65	-2.3	ORV 5.75 337 eP 18 22.46 -2.3						
		ePS		45	24.00		ORV	5.64	337	eP	38	55.03	-3.4	MSU 6.69 49 ePn 18 37.77 -0.5					
SVE	89.24	0	ePc	33	36.60	1.9	49 obs. associated							DUG 7.50 36 ePn 18 47.70 -1.8					
ARU	89.62	2	eP	33	36.00	-0.5													



29d 12h

ePg 19 16.15  
 LBFM 7.52 341 (Pn) 18 48.64 -1.1  
 SRU 8.09 51 (Pn) 18 56.10 -1.7  
 EMUT 8.33 46 (Pn) 19 00.79 -0.4  
 DAU 8.47 42 (P) 19 03.20 0.0  
 PV09 8.72 58 eP 19 06.27 -0.5  
 PV10 8.74 59 eP 19 06.44 -0.5  
 PV08 9.10 59 (P) 19 15.85 3.9  
 ALQ 10.04 83 (P) 19 22.71 -2.1  
 MCMT 11.43 21 eP 19 47.30 3.5  
 LRM 12.45 20 eP 20 11.20 13.6  
 LTX 13.63 107 (P) 20 09.90 -3.3  
 YKA 28.35 4 eP 22 52.00 -1.3  
 0.4s 0.10nm 3.0mb  
 IMA 37.97 338 (P) 24 16.12 -0.8  
 0.6s 0.88nm 3.7mb  
 77 obs. associated

? JAN 29, 1994 12h 20m 46.86±1.02s  
 26.966 S ±11.8km 26.716 E ±10.2km  
 DEPTH = 5.0km (geophysicist)  
 REPUBLIC OF SOUTH AFRICA (584)

BFS 0.09 42 iPd 20 48.00 -1.0  
 S 20 48.70  
 SWZ 1.26 260 eP 21 10.70 -0.1  
 S 21 26.10  
 SEK 1.57 149 eP 21 15.60 -0.1  
 S 21 34.60  
 SLR 1.86 49 eP 21 21.00 1.1  
 S 21 41.00  
 S.D. = 1.5 on 4 of 4 obs.

& JAN 29, 1994 12h 21m 11.06s  
 34.293 N 118.607 W  
 DEPTH = 2.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.2 (PAS), 3.6 (GS).

FTC 0.62 338 P 21 22.97 -0.5  
 RYS 0.71 300 P 21 25.22 0.0  
 ABL 0.75 318 ePd 21 25.19 -0.9  
 eS 21 37.35  
 SSK 0.76 96 eP 21 25.32 -1.0  
 eS 21 37.63  
 PLEC 0.77 331 P 21 26.34 -0.2  
 BMTC 0.84 1 P 21 26.53 -1.3  
 ARVC 0.85 348 P 21 26.45 -1.7  
 SNDC 0.88 16 P 21 28.80 0.0  
 MARC 0.93 320 P 21 28.73 -0.9  
 LPC 0.94 283 P 21 29.03 -0.8  
 TEJ 0.94 356 P 21 28.51 -1.2  
 WJPM 1.12 5 P 21 31.55 -1.3  
 PEC 1.27 108 eP 21 33.06 -2.2  
 eS 21 51.09  
 WBSM 1.30 17 P 21 35.27 -0.7  
 CRGC 1.32 316 P 21 35.68 -0.6  
 ISA 1.37 5 eP 21 36.00 -1.2  
 SCCM 1.44 297 P 21 38.20 -0.1  
 BCH 1.51 307 eP 21 37.79 -1.5  
 WSHM 1.62 34 P 21 39.08 -1.7  
 PLM 1.73 122 eP 21 40.44 -2.0  
 GSC 1.79 55 eP 21 41.82 -1.5  
 RCWM 1.83 25 P 21 42.54 -1.3  
 WLHM 1.87 7 P 21 44.75 0.1  
 PTRM 1.89 316 P 21 44.16 -0.6  
 PHAM 2.13 317 (P) 21 47.52 -0.6  
 PHBM 2.29 329 P 21 51.20 0.7  
 MTUM 3.05 1 (Pn) 22 00.19 -1.3  
 TPNV 3.27 35 ePn 22 03.33 -1.2  
 MEMM 3.38 356 ePn 22 05.60 -0.3  
 BONR 3.66 4 ePg 22 20.24 10.0  
 TNP 3.94 16 (Pn) 22 13.40 -0.8  
 ePg 22 24.65

31 obs. associated  
 & JAN 29, 1994 12h 29m 36.73s  
 40.410 N 125.256 W  
 DEPTH = 8.2km  
 OFF COAST OF NORTHERN CALIFORNIA (34)  
 <GM-P>. MD 3.0 (GM). ML 3.0 (GS).

KJJM 0.74 102 P 29 50.93 -0.6  
 KSMM 0.86 105 P 29 52.29 -1.2  
 KMPM 0.87 89 ePd 29 53.31 -0.3  
 eS 30 05.72

FHC 1.04 68 eP 29 55.05 -1.6  
 KCRM 1.10 89 P 29 56.86 -0.7  
 KRPM 1.20 51 P 29 57.86 -1.4  
 KBSM 1.36 111 P 30 00.29 -1.8  
 KKPM 1.49 100 P 30 01.50 -2.4  
 KFPM 1.60 118 P 30 03.63 -1.8  
 KOMM 1.62 57 P 30 03.61 -2.1  
 GCBM 1.68 127 P 30 04.63 -2.0  
 GNAM 1.74 134 P 30 03.82 -3.6  
 GBDM 1.78 122 P 30 05.97 -2.1  
 LGPM 1.91 74 eP 30 07.92 -2.1  
 GWRM 1.93 128 P 30 08.65 -1.5  
 LBKM 2.08 70 P 30 10.76 -1.7  
 GCWM 2.11 127 P 30 11.10 -1.8  
 GTSM 2.32 117 P 30 15.53 -0.3  
 GPM 2.37 130 P 30 15.06 -1.5  
 LBFM 2.72 69 eP 30 20.50 -1.2  
 MIN 2.79 90 P 30 20.46 -2.2  
 LMEM 2.81 86 eP 30 21.48 -1.5  
 NTYM 2.85 134 eP 30 21.05 -2.2  
 OGOM 2.90 104 P 30 22.20 -1.8  
 ORV 3.01 105 eP 30 22.37 -3.2  
 25 obs. associated

& JAN 29, 1994 12h 29m 57.53s  
 62.172 N 151.344 W  
 DEPTH = 89.7km  
 CENTRAL ALASKA (1)  
 <AEIC>.

SKT 0.21 205 eP 30 09.93 0.9  
 CUT 0.55 65 iP 30 12.15 -0.7  
 SUA 0.77 158 eP 30 14.72 -0.3  
 eS 30 28.88  
 NCG 0.86 207 eP 30 15.09 -1.0  
 eS 30 29.59  
 PWA 0.87 126 P 30 15.80 -0.2  
 S 30 30.60  
 CGLM 0.92 200 eP 30 15.71 -1.0  
 CRP 0.99 203 iPd 30 16.13 -1.4  
 eS 30 32.22  
 CP2 1.01 206 iPd 30 16.59 -1.2  
 CKN 1.03 203 eP 30 17.20 -0.7  
 BGL 1.04 209 eP 30 17.43 -0.6  
 SPU 1.05 199 eP 30 17.05 -1.1  
 eS 30 32.23  
 CKT 1.06 203 eP 30 17.22 -1.0  
 CKL 1.09 206 P 30 18.00 -0.7  
 HUR 1.13 44 eP 30 18.14 -0.9  
 eS 30 34.35  
 BKG 1.19 202 eP 30 18.68 -1.2  
 PLRM 1.20 118 eP 30 18.84 -1.0  
 PMR 1.20 118 eP 30 18.63 -1.2  
 GHO 1.21 108 eP 30 19.55 -0.6  
 PMS 1.26 137 eP 30 19.70 -1.0  
 TRF 1.37 20 iP 30 21.08 -1.1  
 eS 30 39.98  
 NKA 1.44 178 eP 30 24.21 1.4  
 SML 1.47 103 eP 30 22.36 -0.9  
 KNK 1.57 118 eP 30 23.49 -1.1  
 RND 1.69 42 eP 30 24.96 -1.2  
 eS 30 46.06

DFR 1.71 203 eP 30 25.61 -0.9  
 SLKM 1.76 162 eP 30 26.60 -0.4  
 NCT 1.79 206 eP 30 26.91 -0.6  
 REF 1.81 202 eP 30 27.15 -0.8  
 RDW 1.84 203 eP 30 27.63 -0.6  
 RS2 1.85 202 eP 30 27.78 -0.6  
 RSO 1.85 202 eP 30 27.75 -0.7  
 MCK 1.91 34 eP 30 27.92 -1.2  
 MPA 1.94 150 eP 30 28.34 -1.1  
 PWL 1.95 131 eP 30 27.85 -1.8  
 CFI 1.97 119 eP 30 28.28 -1.6  
 BWN 2.18 22 eP 30 31.41 -1.3  
 ILIM 2.24 201 eP 30 32.34 -1.2  
 SEW 2.27 155 eP 30 33.00 -0.9  
 TTA 2.29 291 eP 30 32.03 -2.2  
 SVW 2.30 244 eP 30 32.45 -2.0  
 TOA 2.43 89 P 30 35.00 -1.1  
 VZW 2.55 114 eP 30 36.11 -1.6  
 eS 31 07.58  
 VLZ 2.61 111 eP 30 36.35 -2.1  
 NEA 2.62 22 eP 30 36.31 -2.4  
 CNPM 2.66 179 eP 30 38.82 -0.4  
 KLU 2.66 102 eP 30 37.25 -2.1  
 WRH 2.74 31 eP 30 38.05 -2.2  
 FID 2.74 119 eP 30 37.55 -2.7

TZL 2.79 90 eP 30 41.12 0.2  
 PAX 2.84 71 eP 30 40.43 -1.3  
 MLY 2.88 5 eP 30 39.83 -2.5  
 HIN 2.94 125 eP 30 40.82 -2.2  
 CCB 2.95 31 eP 30 41.06 -2.1  
 DDM 2.98 55 eP 30 42.87 -0.8  
 HDA 2.99 40 eP 30 41.59 -2.2  
 MDM 3.13 25 eP 30 43.45 -2.2  
 CVA 3.15 119 eP 30 43.28 -2.6  
 FBA 3.17 29 eP 30 43.90 -2.3  
 DJE 3.18 52 eP 30 46.26 -0.1  
 IL1 3.29 36 eP 30 45.35 -2.5  
 GLM 3.33 30 eP 30 46.37 -2.1  
 DOT 3.65 63 eP 30 50.86 -2.0  
 GLB 3.65 98 eP 30 51.60 -1.3  
 IM3 3.97 346 eP 30 54.87 -2.4  
 TMW 4.01 70 eP 30 55.62 -2.2  
 IMA 4.04 346 eP 30 55.57 -2.8  
 KAIM 4.05 121 eP 30 56.51 -1.9  
 CRQM 4.18 106 eP 30 59.19 -1.2  
 PRP 4.23 35 eP 30 59.39 -1.7  
 BALM 4.45 101 eP 31 01.61 -2.4  
 BC3 4.51 74 eP 31 02.17 -2.6  
 BM3 6.00 26 eP 31 22.21 -3.3  
 72 obs. associated

& JAN 29, 1994 12h 35m 33.80s  
 34.311 N 118.562 W  
 DEPTH = 0.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SSK 0.73 98 eP 35 47.78 -0.5  
 eS 35 58.80  
 RYS 0.73 297 P 35 48.95 0.5  
 ABL 0.77 315 eP 35 48.58 -0.5  
 BMTC 0.82 358 P 35 49.06 -1.2  
 MARC 0.94 317 P 35 52.54 0.0  
 LPC 0.97 281 P 35 52.62 -0.5  
 WJPM 1.10 3 P 35 54.27 -1.1  
 PEC 1.24 109 eP 35 56.25 -1.4  
 CRGC 1.33 315 P 35 59.72 0.3  
 ISA 1.35 3 (P) 35 59.79 0.1  
 SCCM 1.47 296 P 36 01.39 -0.2  
 BCH 1.53 305 eP 36 01.39 -1.1  
 WSHM 1.58 33 P 36 02.49 -0.7  
 TOW 1.63 23 P 36 05.44 1.6  
 PLM 1.71 124 eP 36 03.07 -2.0  
 eS 36 28.03  
 GSC 1.75 55 eP 36 06.16 0.5  
 RCWM 1.80 24 P 36 09.22 2.9  
 WLHM 1.85 6 P 36 08.46 1.2  
 PHAM 2.14 316 (P) 36 10.74 -0.5  
 MTUM 3.04 360 (Pn) 36 24.89 0.8  
 TPNV 3.24 35 ePn 36 26.17 -0.8  
 MEMM 3.36 355 (Pn) 36 28.96 0.4  
 BONR 3.64 3 ePn 36 33.92 1.1  
 ARUT 5.41 49 (Pn) 36 58.72 0.9  
 24 obs. associated

& JAN 29, 1994 12h 47m 36.08s  
 34.348 N 118.610 W  
 DEPTH = 15.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.3 (GS).

ABL 0.71 315 eP 47 48.79 -1.0  
 SSK 0.77 100 ePc 47 50.22 -0.6  
 BMTC 0.79 1 P 47 50.38 -0.6  
 SNDC 0.83 18 P 47 51.97 0.2  
 TEJ 0.88 356 P 47 51.74 -0.8  
 LPC 0.92 280 P 47 53.02 -0.3  
 TMB 1.06 314 P 47 55.86 0.2  
 WJPM 1.07 6 P 47 55.34 -0.4  
 WBSM 1.25 18 P 47 58.77 -0.1  
 CRGC 1.28 315 P 47 59.41 0.0  
 PEC 1.29 110 ePc 47 58.14 -1.3  
 eS 48 15.56  
 ISA 1.32 5 eP 47 59.55 -0.4  
 WORM 1.38 13 P 48 01.48 0.7  
 WASH 1.39 2 P 48 01.30 0.3  
 SCCM 1.42 295 P 48 01.26 0.0  
 BCH 1.47 305 eP 48 01.34 -0.8  
 WSHM 1.58 35 P 48 02.58 -1.0  
 WCHM 1.59 16 P 48 03.52 -0.5  
 TOW 1.61 25 P 48 04.40 0.3  
 PLM 1.76 124 eP 48 04.93 -1.4



29d 12h

GSC	1.76	57	eP	48 05.85	-0.5	LIC	72.20	79 P	07 38.65	-1.8	GEC2	99.06	42 P	09 54.80	-0.1
RCWM	1.78	26	P	48 09.31	2.7		1.0s	20.00nm		4.9mb		0.8s	2.81nm		5.0mb
WLHM	1.82	8	P	48 07.27	0.0	TIC	72.32	79 P	07 39.59	-1.6	ASPA	133.62	218 ePKP	15 31.20	0.0
PHAM	2.09	316	(P)	48 11.10	0.2		1.0s	10.00nm		4.6mb		1.2s	8.50nm		
MTUM	3.00	1	(Pn)	48 23.52	-0.5	KIC	72.51	79 P	07 40.73	-1.6	WB2	136.09	222 ePKP	15 33.90	-2.1
TPNV	3.23	36	eP	48 26.48	-0.9		0.9s	31.00nm		5.1mb		1.1s	13.40nm		
MEMM	3.32	355	(Pn)	48 28.25	-0.2	LKO	72.61	75 P	07 41.31	-1.6			e	16 04.80	
GLA	3.41	111	(Pn)	48 28.65	-1.1		0.7s	10.50nm		4.7mb	WRA	136.10	222 PKP	15 34.70	-1.3
BONR	3.61	4	(Pn)	48 31.39	-1.5	LON	72.94	328 eP	07 43.82	-0.5		0.8s	4.70nm		
			ePg	48 41.67				ePp	08 10.16	103km	CN2	144.84	334 ePKP	15 59.00	8.1X
COE	3.82	320	(P)	48 35.53	-0.1	RMW	73.42	329 ePc	07 46.59	-0.4	WMQ	146.15	23 PKP	15 55.00	1.8
TNP	3.89	16	(Pn)	48 37.55	0.8			ePp	08 13.73	106km	POO	149.69	76 ePKP	16 05.80	6.4X
			ePg	48 47.71		BMW	73.49	328 eP	07 48.49	1.0	NDI	150.03	55 iPKP	16 06.20	6.5X
ARUT	5.41	49	(Pn)	48 59.56	1.2	GMW	73.97	329 eP	07 50.58	0.4	BJI	151.55	342 ePKP	16 08.50	6.9X
MSU	6.65	49	(Pn)	49 18.37	2.6			ePp	08 17.64	106km	HHC	151.92	349 PKP	16 10.00	7.7X
			ePg	49 37.83		FRB	76.94	3 eP	08 06.00	-0.5	BTO	152.41	352 ePKP	16 10.40	7.4X
33 obs. associated							0.7s	5.00nm		4.4mb	KOD	152.96	93 ePKP	16 13.50	8.8X
JAN 29, 1994 12h 56m 24.43± 0.25s						EVAL	81.54	48 iPc	08 33.30	1.4	GBA	153.27	86 PKP	16 12.80	8.1X
13.269 S ± 5.8km 75.079 W ± 4.7km						YKA	81.56	343 eP	08 31.20	-0.3		0.6s	6.50nm		
DEPTH = 103.9km ( 12 depth phases)							0.9s	19.00nm		4.9mb	GTA	153.57	9 PKP	16 06.50	1.8
4.9mb ( 39 obs.)						EJIF	82.03	50 eP	08 36.80	2.3			pPKP	16 13.00	
CENTRAL PERU (116)						EPRU	82.41	49 eP	08 38.90	2.4	HYB	154.25	77 ePKP	16 15.00	9.0X
Felt (III) at Ica and (II) at						EHOR	82.73	49 iPc	08 39.00	0.9	TIA	154.66	336 ePKP	16 07.60	1.6
Lima.						EPLA	83.02	46 iPc	08 40.90	1.3	TIY	154.75	346 ePKP	16 07.20	1.0
						ERUA	83.24	44 eP	08 41.80	1.2	S.D. = 1.0 on 99 of 112 obs.				
						ELUQ	83.35	49 eP	08 42.50	1.2	& JAN 29, 1994 12h 59m 43.63s				
PT03	1.00	224	iP	56 45.10	-0.4	EMON	83.55	43 iPc	08 43.10	0.9	34.312 N 118.562 W				
PT06	1.34	245	iP	56 48.70	-0.6	ECOG	83.76	50 iPc	08 44.30	0.8	DEPTH = 2.0km				
NNA	2.14	306	iPd	56 59.00	-0.6	EBAN	83.93	49 iPc	08 45.10	0.9	SOUTHERN CALIFORNIA ( 43)				
PT10	2.19	303	iP	57 00.00	-0.2	PAB	84.04	47 iPd	08 45.40	0.6	<PAS>P>. ML 3.1 (PAS), 3.3 (GS).				
			iS	57 24.70		GUD	84.60	46 eP	08 48.80	1.2	SSK	0.73	98 eP	59 57.43	-0.7
LPAB	7.36	115	iPc	58 10.40	-1.1	ENIJ	84.66	50 iPd	08 47.00	-0.9	ABL	0.76	315 eP	59 58.56	-0.3
LPB	7.49	117	iPc	58 13.20	0.1	EVIA	85.04	49 eP	08 49.00	-0.9	PEC	1.24	109 eP	00 05.62	-1.8
CCH	9.55	116	P	58 39.90	-1.1	ETOR	86.14	47 eP	08 56.30	1.0	ISA	1.35	3 eP	00 07.58	-1.8
SIV	13.82	103	P	59 33.90	-3.3X	SYO	86.17	161 iPd	08 56.40	1.6	BCH	1.53	305 eP	00 12.22	0.1
CFA	19.30	162	e(P)	00 44.70	0.8	ECHE	86.49	48 eP	08 58.00	1.0	PLM	1.71	124 eP	00 12.83	-1.9
SDV	22.45	12	eP	01 14.70	-1.2	RES	88.65	355 eP	09 07.00	0.5	GSC	1.75	55 eP	00 14.38	-0.9
TOV	23.50	13	ePc	01 25.60	-0.3		1.0s	9.00nm		4.8mb	PHAM	2.14	316 eP	00 20.41	-0.5
PPD	24.24	114	ePd	01 33.70	0.7	LPF	89.39	40 eP	09 10.10	-0.4	MTUM	3.03	360 (Pn)	00 33.76	0.0
			e	01 35.00	5kmX	MFF	89.47	42 eP	09 10.60	-0.3	TPNV	3.24	35 ePn	00 36.05	-0.5
RSTA	27.06	119	eP	01 57.40	-1.7		0.7s	8.80nm		5.0mb	MRCM	3.35	1 ePg	00 44.64	6.3
PRM	47.60	352	eP	04 55.54	3.9X	LFF	89.49	44 eP	09 10.90	-0.2	GLA	3.36	111 (Pn)	00 38.18	-0.1
UYO	50.65	339	iPd	05 14.10	-0.9		0.8s	10.75nm		5.0mb	MEMM	3.36	355 (Pn)	00 38.13	-0.1
TUL	52.69	339	iPd	05 29.40	-0.9	GRR	89.63	40 eP	09 11.20	-0.4	BONR	3.64	3 (Pn)	00 44.98	2.5
MEO	52.74	336	iPc	05 29.40	-1.4		0.7s	8.80nm		5.0mb	CMB	4.00	339 eP	00 46.72	-0.6
MCWV	52.84	355	(P)	05 37.13	5.8X	LPO	89.71	44 eP	09 11.90	-0.2	ARUT	5.41	49 (Pn)	01 07.26	-0.2
ACO	54.63	336	iPd	05 43.10	-1.6		0.7s	6.70nm		4.9mb	MSU	6.64	49 ePg	01 47.47	22.6
ALQ	56.44	329	iPd	05 57.11	-0.8	FLN	89.99	40 eP	09 13.20	-0.1	17 obs. associated				
	1.3s			19.08nm	5.0mb		0.9s	10.95nm		5.0mb	& JAN 29, 1994 13h 15m 49.19s				
			ePp	06 21.98	101km	RJF	90.13	43 eP	09 13.70	-0.4	34.285 N 118.631 W				
GAC	58.69	360	eP	06 12.00	-1.2		0.9s	8.20nm		4.9mb	DEPTH = 2.2km				
GLD	59.74	333	iPc	06 20.65	-0.1	LDF	90.16	40 eP	09 13.80	-0.3	SOUTHERN CALIFORNIA ( 43)				
	1.1s			13.37nm	5.0mb		0.8s	13.95nm		5.1mb	<PAS>P>. ML 2.9 (PAS), 2.9 (GS).				
			ePp	06 47.26	108km	CAF	90.38	44 eP	09 14.90	-0.4	ABL	0.75	319 eP	16 03.27	-0.8
PV08	60.38	330	iPc	06 24.92	-0.4		0.7s	5.75nm		4.8mb	SSK	0.78	95 eP	16 03.79	-1.0
			ePp	06 50.88	105km	LSF	90.44	42 eP	09 14.30	-1.2			eS	16 15.50	
PV10	60.41	330	ePc	06 24.33	-1.1		0.7s	4.50nm		4.7mb	PEC	1.28	107 eP	16 12.03	-1.7
			ePp	06 49.69	102km	MAF	91.12	43 eP	09 18.30	-0.3			eS	16 29.40	
SRU	61.72	329	ePc	06 33.93	-0.3		0.8s	4.05nm		4.7mb	ISA	1.38	5 eP	16 13.96	-1.5
ARUT	62.24	326	iPc	06 38.61	0.9	INK	91.28	342 eP	09 19.00	0.2	BCH	1.50	307 eP	16 16.06	-1.1
			ePp	07 03.39	99km		1.0s	5.00nm		4.7mb	PLM	1.74	122 eP	16 19.03	-1.7
EMUT	62.40	329	ePc	06 38.32	-0.5	BGF	91.40	42 eP	09 19.60	-0.3			eS	16 43.60	
RSSD	62.91	337	iPc	06 41.47	-0.6		0.8s	10.75nm		5.2mb	GSC	1.81	55 eP	16 20.09	-1.6
	1.1s			24.95nm	5.1mb	AVF	91.81	42 eP	09 21.00	-0.7	TPNV	3.29	35 ePn	16 41.45	-1.5
DAU	63.08	330	ePd	06 43.48	0.2		0.7s	3.65nm		4.8mb	BONR	3.67	4 ePg	16 58.90	10.4
			ePp	07 08.61	100km	SSF	91.99	42 eP	09 22.90	0.3	9 obs. associated				
TPNV	63.21	324	ePc	06 44.95	0.8		0.9s	5.55nm		4.9mb	JAN 29, 1994 13h 29m 58.89± 0.69s				
	0.8s			15.34nm	5.0mb	SMF	92.09	43 eP	09 22.70	-0.3	45.689 N ± 6.1km 14.164 E ± 5.3km				
			ePp	07 08.47	93kmX		1.1s	19.55nm		5.3mb	DEPTH = 10.0km (geophysicist)				
DUG	63.69	328	ePd	06 47.62	0.5	LOR	92.28	42 eP	09 23.20	-0.7	NORTHWESTERN BALKAN REGION (383)				
	0.8s			31.95nm	5.3mb		0.8s	4.15nm		4.8mb	MD 2.6 (LJU), 2.2 (TRI).				
BW06	64.11	332	eP	06 49.08	-0.9	MBC	93.13	350 eP	09 29.00	1.8	CEY	0.19	75 ePg	30 03.10	0.0
	1.1s			14.42nm	4.8mb		1.0s	7.00nm		4.9mb		0.3s	140.00nm		
HVU	64.86	330	ePd	06 54.22	-0.5	LPL	93.71	44 eP	09 31.50	0.7	TRI	0.28	274 iPg	30 05.00	0.2
			ePp	07 21.11	108km		1.0s	8.80nm		5.1mb			iSg	30 09.30	
PTI	65.49	331	ePc	06 58.82	0.1	LPG	93.72	44 eP	09 31.60	0.7	RIY	0.38	156 ePg	30 06.60	-0.1
			ePp	07 25.52	107km		0.9s	10.50nm		5.2mb			iSg	30 13.30	
ULM	65.83	346	eP	07 01.00	0.4	BSF	94.34	42 eP	09 33.00	-0.5	VOY	0.39	331 iPg	30 06.60	-0.3
CMB	66.37	322	ePc	07 04.83	0.5		0.9s	6.40nm		5.0mb			eSg	30 12.70	
	0.9s			9.62nm	4.7mb	FBA	94.75	336 iPc	09 34.93	0.0					
LRM	67.79	333	eP	07 13.10	-0.3		0.9s	4.90nm		4.9mb					
ORV	68.02	323	ePd	07 15.81	1.2	CDF	94.81	42 eP	09 35.30	-0.3					
			ePp	07 41.70	102km		0.9s	5.55nm		5.0mb					
LBFM	69.41	324	eP	07 23.70	0.3	CRP	95.42	332 eP	09 49.29	11.0X					
LGPM	69.67														



29d 13h

LJU 0.44 36 ePg 30 08.10 0.3  
eSg 30 13.00  
e 30 14.50  
VBY 0.79 103 ePg 30 14.20 0.0  
iSg 30 25.50  
S.D. = 0.3 on 6 of 6 obs.

% JAN 29, 1994 13h 40m 00.85± 0.90s  
38.659 N ±14.4km 27.421 E ±23.3km  
DEPTH = 10.0km (geophysicist)

TURKEY (366)  
ML 3.0 (ISK).

IZM 0.29 205 iPg 40 06.90 0.0  
iSg 40 12.00  
DST 1.33 44 iPn 40 25.30 -0.2  
EDC 1.72 11 ePn 40 31.00 0.0  
IZI 2.31 43 ePn 40 40.00 0.4  
YLV 2.43 38 ePn 40 41.00 -0.3  
S.D. = 0.4 on 5 of 5 obs.

JAN 29, 1994 13h 53m 14.09± 0.92s  
37.096 N ± 6.8km 20.917 E ± 6.2km  
DEPTH = 58.8 ± 9.8 km  
4.2mb (15 obs.)

IONIAN SEA (399)  
MD 4.1 (ATH).

VLI 1.66 103 ePn 53 41.00 -0.3  
AGG 2.22 30 iPnd 53 49.86 0.7  
iSn 54 19.46  
ATH 2.39 68 ePn 53 50.10 -1.4  
IGT 2.48 349 iPnd 53 53.94 1.2  
iSn 54 26.18  
SRN 2.87 346 ePn 54 00.00 1.7  
LSK 3.06 355 iPnd 54 02.40 1.3  
iSn 55 03.60  
VAM 3.14 121 ePn 53 59.00 -3.2X  
TPE 3.27 348 ePn 54 03.50 -0.5  
KZN 3.27 12 ePn 54 05.50 1.3  
VLO 3.55 342 ePn 54 08.50 0.7  
PAIG 3.56 37 ePn 54 08.26 0.2  
FNA 3.70 5 ePn 54 10.98 0.9  
iSn 54 56.18  
THE 3.88 24 ePn 54 12.22 -0.3  
eSn 54 59.50  
OHR 4.01 359 iPn 54 15.00 0.5  
i 54 30.00  
i 54 53.20  
i 55 01.80  
Lg 55 07.50  
GRG 4.02 16 ePn 54 15.02 0.4  
OUR 4.02 36 ePn 54 14.54 0.0  
SOH 4.18 26 ePn 54 17.50 0.7  
NPS 4.22 114 ePb 54 21.00 3.7X  
KNT 4.34 20 ePn 54 19.78 0.7  
VAY 4.41 16 iPn 54 20.30 0.3  
SRS 4.52 27 iPn 54 21.46 -0.1  
LACI 4.63 349 iP 54 22.20 -0.8  
SKO 4.89 5 iPn 54 26.30 -0.5  
HVAR 6.97 332 i(Pn) 54 52.30 -3.6X  
MLR 9.20 23 eP 55 26.00 -0.7  
PTJ 9.55 339 eP 55 34.00 2.5X  
VRI 9.79 25 eP 55 33.50 -1.1  
LJU 10.13 334 e(P) 55 37.00 -2.4  
eS 57 32.00  
PSZ 10.84 356 e(P) 55 47.00 -2.1  
GEC2 12.87 338 Pn 56 14.80 -1.3  
0.5s 1.31nm 4.0mb

KHC 13.16 338 eP 56 31.40 11.5X  
e 56 55.00  
e 58 23.80  
PRU 13.68 342 eP 56 24.70 -2.0  
e 56 35.30  
BSF 14.93 320 eP 56 42.00 -1.1  
0.8s 8.35nm 4.0mb  
CDF 15.08 323 eP 56 44.90 -0.1  
0.7s 4.85nm 3.8mb  
HAU 15.27 320 eP 56 46.60 -0.8  
0.8s 13.45nm 4.2mb  
CLL 15.29 341 e(P) 56 51.00 3.5X  
LDF 19.17 313 eP 57 36.60 1.1  
0.7s 9.15nm 4.1mb  
FLN 19.46 314 eP 57 39.30 0.7  
0.9s 6.90nm 3.9mb

OBN 20.95 26 iPd 57 53.20 -0.7  
1.0s 35.00nm 4.6mb  
i 57 56.00  
e 58 22.00  
e 58 40.00  
e 09 22.00

HFS 23.52 351 eP 58 19.40 0.2  
0.5s 6.40nm 4.4mb  
NUR 23.55 5 iP 58 20.10 0.5  
0.5s 9.30nm 4.5mb

EKA 24.49 326 P 58 33.00 4.2X  
2.0s 175.00nm 5.2mb  
NB2 24.74 349 P 58 32.10 1.0  
0.5s 2.20nm 3.9mb

KAF 25.27 6 iP 58 36.60 0.6  
0.5s 8.80nm 4.5mb  
BCAO 32.58 184 iPc 59 42.20 0.2  
0.2s 16.00nm 5.5mb X

LKO 36.42 228 P 00 14.90 0.0  
0.5s 2.50nm 4.4mb  
KIC 38.52 224 P 00 32.58 0.1  
0.9s 23.00nm 5.1mb

YKA 74.51 340 eP 04 48.90 1.2  
0.9s 0.90nm 3.7mb  
S.D. = 1.0 on 41 of 48 obs.

& JAN 29, 1994 14h 03m 06.90s  
34.298 N 118.568 W  
DEPTH = 2.9km  
SOUTHERN CALIFORNIA (43)  
<PAS>P>. ML 3.4 (PAS), 3.4 (GS).

FTC 0.63 335 P 03 19.15 -0.4  
SSK 0.73 97 eP 03 20.76 -0.7  
RYS 0.73 298 P 03 21.45 -0.1

ABL 0.77 316 eP 03 21.33 -1.0  
PLEC 0.79 328 P 03 22.50 -0.1  
BMT 0.84 358 P 03 22.23 -1.3

ARVC 0.85 345 P 03 22.86 -1.1  
SND 0.87 14 P 03 23.65 -0.7  
TEJ 0.93 354 P 03 24.40 -1.0

MARC 0.95 318 P 03 24.82 -0.8  
LPC 0.97 282 P 03 25.27 -0.8  
WJPM 1.11 4 P 03 27.19 -1.3

PEC 1.24 109 eP 03 28.93 -1.6  
WBSM 1.29 16 P 03 30.71 -0.8  
CRGC 1.34 315 P 03 31.81 -0.6

ISA 1.36 3 eP 03 31.38 -1.4  
SCCM 1.47 296 P 03 34.16 -0.2  
BCH 1.53 306 eP 03 34.00 -1.3

WSHM 1.60 33 P 03 34.88 -1.3  
TOW 1.65 23 P 03 36.38 -0.5  
PLM 1.70 123 eP 03 35.69 -2.2

GSC 1.76 55 eP 03 37.41 -1.2  
RCWM 1.81 24 P 03 41.15 1.8  
WLHM 1.86 6 P 03 42.79 2.5

PHAM 2.15 316 eP 03 43.92 -0.2  
PAPM 2.80 306 P 03 50.66 -2.9  
BHPR 3.00 1 P 04 02.48 6.1

MTUM 3.05 0 (Pn) 03 57.05 -0.1  
ePg 04 02.51  
TPNV 3.25 35 eP 03 58.38 -1.6

GLA 3.36 111 ePn 03 58.45 -3.0  
MRCM 3.37 1 ePn 04 00.99 -0.7  
MEMM 3.37 355 ePn 04 00.50 -1.1

SAO 3.40 317 eP 03 59.26 -2.7  
HCOM 3.64 316 P 04 02.87 -2.4  
BONR 3.66 3 (Pn) 04 04.37 -1.5  
ePg 04 13.30

ARN 3.88 323 ePn 04 06.53 -2.3  
COE 3.88 320 (P) 04 08.31 -0.5  
TNP 3.93 16 (Pn) 04 12.04 2.3  
ePg 04 20.44

CMB 4.01 339 ePn 04 07.87 -2.7  
HMR 4.65 327 (P) 04 21.76 2.1  
ARUT 5.42 49 (Pn) 04 29.95 -0.9  
ePg 04 47.33

MSU 6.65 49 (Pn) 04 46.36 -1.9  
ePg 05 09.38  
42 obs. associated

& JAN 29, 1994 14h 03m 47.50s  
34.296 N 118.565 W  
DEPTH = 3.2km  
SOUTHERN CALIFORNIA (43)  
<PAS>P>. ML 2.9 (PAS), 3.0 (GS).

SSK 0.73 96 eP 04 01.54 -0.5  
ABL 0.77 316 eP 04 02.61 -0.4  
PEC 1.23 109 (P) 04 11.55 0.5  
eS 04 27.28  
BCH 1.53 306 (P) 04 15.93 0.0  
4 obs. associated

& JAN 29, 1994 14h 23m 20.82s  
64.756 N 146.741 W  
DEPTH = 12.4km  
CENTRAL ALASKA (1)  
<AEIC>. ML 2.8 (AEIC), 2.7 (PMR).

BC3 0.65 244 eP 24 03.99 -0.5  
BM3 0.65 244 eP 24 05.59 -0.5  
BWN 0.65 244 eP 23 44.52 -0.5

CCB 0.65 244 iPc 23 29.76 -0.5  
CUT 0.65 244 eP 24 06.24 -0.5  
DDM 0.65 244 eP 23 40.83 -0.5

DHY 0.65 244 eP 23 51.21 -0.5  
DJE 0.65 244 eP 23 37.48 -0.5  
eS 23 48.19

DOT 0.65 244 eP 23 48.27 -0.5  
eS 24 11.28  
FBA 0.65 244 eP 23 29.79 -0.5

FYU 0.65 244 eP 23 53.61 -0.5  
GLB 0.65 244 eP 24 16.99 -0.5  
GLM 0.65 244 iPc 23 28.18 -0.5

HDA 0.65 244 iPd 23 27.91 -0.5  
eS 23 32.43  
HUR 0.65 244 eP 24 01.32 -0.5

IL1 0.65 244 ePc 23 23.34 -0.5  
eS 23 24.77  
ILB 0.65 244 ePc 23 23.32 -0.5

eS 23 24.86  
IM3 0.65 244 eP 24 10.17 -0.5  
IMA 0.65 244 eP 24 12.94 -0.5

KLU 0.65 244 eP 24 12.92 -0.5  
MCK 0.65 244 eP 23 45.89 -0.5  
MDM 0.65 244 iPc 23 33.61 -0.5

eS 23 43.51  
MLY 0.65 244 eP 23 49.75 -0.5  
NCG 0.65 244 eP 24 25.05 -0.5

NEA 0.65 244 eP 23 39.84 -0.5  
PAX 0.65 244 eP 23 52.94 -0.5  
PLRM 0.65 244 eP 24 13.38 -0.5

PMR 0.65 244 (P) 24 13.70 -0.5  
PRP 0.65 244 ePd 23 38.17 -0.5  
eS 23 51.08

PWA 0.65 244 P 24 17.30 -0.5  
RND 0.65 244 eP 23 49.62 -0.5  
eS 24 12.11

SKT 0.65 244 eP 24 15.88 -0.5  
SML 0.65 244 eP 24 09.36 -0.5  
THY 0.65 244 eP 23 47.10 -0.5

TMW 0.65 244 eP 23 57.48 -0.5  
TOA 0.65 244 P 24 05.60 -0.5  
TRF 0.65 244 eP 23 55.95 -0.5

TZL 0.65 244 eP 24 05.55 -0.5  
VLZ 0.65 244 eP 24 19.55 -0.5  
WRH 0.65 244 ePc 23 33.07 -0.5

BALM 4.24 150 (P) 24 25.92 -0.8  
41 obs. associated

& JAN 29, 1994 14h 58m 11.17± 3.23s  
36.400 N ±27.8km 2.808 W ±10.9km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 3.4 (MDD). Felt (III) in the Adra area, Spain.

ENIJ 0.75 40 iPg 58 25.35 -0.5  
eSg 58 34.70  
EGUA 0.75 306 iPg 58 24.90 -0.9

eSg 58 33.90  
ECOG 1.07 325 iPg 58 30.17 -1.2  
ELOJ 1.31 305 eP 58 36.11 0.6  
eS 58 51.30

EMAL 1.35 286 ePg 58 35.41 -0.6  
EHUE 1.42 7 ePn 58 37.18 0.1  
eSn 58 52.70

ELUQ 1.65 315 ePn 58 43.21 2.9X  
eSn 59 02.80  
EBAN 1.93 336 iPnc 58 45.66 1.4

eSn 59 08.30  
EPRU 2.03 287 ePn 58 50.29 4.5X



EVIA 2.25 6 iPnd 59 14.90 2.3X  
 EHOR 2.41 307 eP 59 16.10  
 eS 58 52.45 1.2  
 59 19.00

S.D. = 1.1 on 8 of 11 obs.

& JAN 29, 1994 15h 00m 59.05s  
 34.641 N 116.655 W  
 DEPTH = 0.1km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.1 (PAS).

RMR 0.43 171 P 01 07.63 -0.1  
 CPM 0.62 142 P 01 11.22 -0.1  
 GSC 0.67 349 iPd 01 12.04 -0.4  
 CSP 0.67 240 P 01 11.85 -0.7  
 HYS 0.78 287 P 01 13.86 -0.9  
 SS2 0.82 238 P 01 14.73 -0.7  
 PEC 0.86 209 ePc 01 15.05 -1.1  
 GRP 0.88 79 P 01 15.59 -1.1  
 SHH 0.94 118 P 01 17.18 -0.7  
 SSK 0.96 244 eP 01 17.08 -1.2  
 XMS 1.05 327 P 01 19.09 -0.7  
 LRRC 1.14 265 P 01 20.14 -1.2  
 WSHM 1.20 326 P 01 21.03 -1.4  
 PLM 1.30 188 eP 01 23.34 -0.8  
 COY 1.31 167 P 01 22.85 -1.3  
 CLC 1.40 327 P 01 24.11 -1.7  
 LHM 1.45 272 P 01 25.79 -0.8  
 YAU 1.49 170 P 01 26.85 -0.3  
 STTC 1.50 276 P 01 27.61 0.3  
 NMC 1.58 320 P 01 28.95 0.5  
 WORM 1.67 309 P 01 31.42 1.6  
 THC 1.67 280 P 01 30.27 0.3  
 WHFM 1.74 308 P 01 32.38 1.6  
 ISA 1.81 305 eP 01 29.60 -2.1  
 LOK 2.01 273 P 01 36.09 1.3  
 ABL 2.12 276 eP 01 32.42 -4.1  
 GLA 2.20 136 ePn 01 36.57 -0.8  
 TPNV 2.33 8 ePn 01 37.52 -1.8  
 BCH 2.87 282 (P) 01 48.30 1.2  
 MEMM 3.54 329 ePg 02 04.07 7.7  
 BONR 3.56 339 ePg 02 05.06 8.0  
 ARUT 4.08 39 eP 02 01.42 -2.8

32 obs. associated

? JAN 29, 1994 15h 15m 20.03± 2.97s  
 28.868 N ± 8.4km 34.794 E ± 23.0km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)

SRFA 0.35 80 iPc 15 26.67 -0.6  
 eS 15 32.00  
 BADA 0.39 152 eP 15 27.87 -0.1  
 eS 15 33.67  
 HQL 0.46 29 eP 15 29.33 0.0  
 AYN 1.06 90 eP 15 40.67 0.7

S.D. = 0.9 on 4 of 4 obs.

% JAN 29, 1994 15h 16m 51.60± 1.08s  
 38.730 N ± 7.1km 27.342 E ± 12.9km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 3.3 (ISK).

IZM 0.34 191 iPg 16 58.20 -0.2  
 iSg 17 03.30  
 DST 1.33 48 iPn 17 16.20 -0.4  
 EDC 1.66 14 ePn 17 22.00 0.5  
 KHL 1.76 103 iPn 17 23.90 0.9  
 ALT 2.18 81 ePn 17 28.60 -0.6  
 IZI 2.30 45 ePn 17 31.00 0.2  
 HRT 2.75 40 ePn 17 37.00 -0.3

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

? JAN 29, 1994 15h 18m 18.49± 3.12s  
 28.882 N ± 8.5km 34.781 E ± 23.8km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)

SRFA 0.36 82 iPc 18 25.33 -0.6  
 eS 18 30.00  
 BADA 0.41 151 eP 18 26.67 -0.1  
 HQL 0.45 31 eP 18 27.67 0.0  
 AYN 1.07 90 eP 18 39.33 0.7  
 eS 18 55.00

S.D. = 0.9 on 4 of 4 obs.

% JAN 29, 1994 15h 30m 22.09± 1.09s  
 38.693 N ± 7.5km 27.333 E ± 15.1km  
 DEPTH = 5.0km (geophysicist)

TURKEY (366)  
 ML 3.0 (ISK).

IZM 0.30 191 iPg 30 28.00 -0.2  
 eSg 30 33.00  
 DST 1.36 47 iPn 30 47.10 -0.6  
 EDC 1.70 14 ePn 30 53.00 0.4  
 KHL 1.76 101 ePn 30 53.90 0.4  
 IZI 2.33 45 ePn 31 02.00 0.2  
 YLV 2.45 39 ePn 31 03.00 -0.4

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

JAN 29, 1994 15h 46m 01.97± 0.22s  
 11.713 S ± 5.2km 72.443 W ± 6.1km  
 DEPTH = 33.0km (normal)  
 5.2mb (16 obs.)

CENTRAL PERU (116)

NNA 4.32 266 iP 47 06.70 -0.3  
 0.8s 70.90nm  
 ARE 4.81 169 eP 47 15.00 0.7  
 LPZ 6.18 138 Pnd 47 33.80 -0.2  
 0.5s 17.90nm

Pg 47 48.70  
 S 48 46.60  
 Lg 49 12.20  
 LPB 6.38 139 P 47 36.00 -0.6  
 CCH 8.31 133 P 48 03.50 0.0  
 SIV 11.83 112 P 48 47.40 -4.1X  
 CFA 20.17 170 e(P) 50 35.00 -1.6  
 SDV 20.54 5 eP 50 39.60 -1.1  
 eS 56 18.00  
 TOV 21.52 7 eP 50 51.20 0.7  
 BAO 24.07 102 eP 51 16.50 0.9

i 51 19.00  
 i 56 49.10  
 i 58 41.80  
 i 58 55.80  
 i 59 18.50  
 i 59 22.00  
 i 00 14.40  
 i 02 33.30  
 BDF 24.16 102 eP 51 18.10 1.6  
 e 51 36.80  
 i 57 24.80  
 i 57 43.40  
 e 58 33.90  
 e 58 39.00  
 i 59 11.90  
 i 59 33.70  
 i 59 46.80  
 i 01 10.30  
 e 06 39.50  
 RSTA 25.64 123 eP 51 18.50 -12.0X  
 GOGA 46.09 347 eP 54 24.90 0.2  
 1.5s 115.03nm 5.6mb

JSC 46.50 350 eP 54 27.68 -0.3  
 PRM 46.51 349 eP 54 28.23 0.2  
 LHS 46.62 350 eP 54 29.12 0.2  
 MYNC 47.83 347 eP 54 38.01 -0.5  
 1.3s 58.75nm 5.4mb

OXF 48.71 341 eP 54 44.65 -0.6  
 NAV 49.39 351 eP 54 50.46 -0.1  
 e 55 16.06  
 CVL 49.75 354 eP 54 53.35 0.1  
 UYO 50.20 336 iPd 54 57.40 0.7  
 LTX 50.73 324 eP 54 59.93 -1.0  
 FVM 52.23 342 eP 55 10.56 -1.5

1.3s 79.03nm 5.5mb  
 TUL 52.25 336 iPc 55 03.00 -9.3X  
 ACO 54.32 334 iPc 55 27.20 -0.4  
 GLD 59.58 331 eP 56 04.88 -0.2

1.3s 23.54nm 5.2mb  
 PV08 60.38 328 eP 56 10.12 -0.7  
 PV10 60.44 327 eP 56 10.03 -1.1  
 PV09 60.58 327 eP 56 11.19 -0.9  
 SRU 61.77 327 eP 56 19.32 -0.7  
 MSU 62.24 325 eP 56 23.04 -0.2  
 EMUT 62.43 327 eP 56 24.23 -0.3  
 ARUT 62.45 324 eP 56 24.86 0.3  
 RSSD 62.55 335 eP 56 25.20 0.0

1.2s 44.26nm 5.5mb  
 GSC 62.82 320 eP 56 27.13 0.1  
 DAU 63.10 328 eP 56 28.83 -0.2  
 TPNV 63.54 322 eP 56 32.21 0.4  
 1.1s 14.34nm 5.0mb  
 DUG 63.77 326 eP 56 33.28 0.0  
 1.1s 13.73nm 5.0mb  
 BW06 63.99 330 eP 56 33.84 -0.9  
 1.3s 15.57nm 4.9mb  
 ABL 64.09 318 (P) 56 35.47 -0.1  
 TNP 64.86 322 eP 56 39.94 -0.5  
 1.2s 15.09nm 5.0mb  
 ULM 65.02 344 eP 56 43.50 2.5X  
 BONR 65.44 321 eP 56 44.58 0.3  
 PTI 65.45 329 eP 56 45.60 1.5  
 MEMM 65.65 321 eP 56 46.83 1.6  
 MMPM 65.67 321 eP 56 46.09 0.3  
 HHAI 65.76 329 eP 56 45.93 -0.1  
 LRM 67.64 331 eP 56 58.50 0.4  
 ORV 68.39 321 eP 57 03.28 0.7  
 LIC 69.38 79 P 57 07.73 -1.4  
 1.1s 21.00nm 5.1mb  
 TIC 69.49 78 P 57 08.65 -1.2  
 1.2s 26.50nm 5.2mb  
 KIC 69.69 79 P 57 09.61 -1.4  
 1.1s 44.50nm 5.4mb  
 LBFM 69.71 322 eP 57 10.36 -0.6  
 LKO 69.73 75 P 57 09.73 -1.5  
 1.3s 57.50nm 5.5mb  
 LGPM 70.02 322 eP 57 13.18 0.5  
 KMPM 70.52 321 eP 57 16.47 0.7  
 VGB 71.68 326 eP 57 23.49 0.9  
 DPW 71.88 330 eP 57 24.34 0.6  
 LON 73.01 327 eP 57 29.89 -0.6  
 RMW 73.46 328 eP 57 32.90 -0.2  
 GMW 74.03 327 eP 57 35.93 -0.4  
 MCW 74.76 328 eP 57 41.15 0.6  
 FRB 75.29 2 eP 57 43.50 0.4  
 YKA 80.88 342 eP 58 13.70 -0.2  
 1.0s 11.30nm 4.8mb  
 SYO 86.78 160 ePc 58 44.30 0.5  
 RES 87.36 354 eP 58 47.50 1.1  
 1.0s 6.00nm 4.8mb  
 MBC 92.05 350 Pd 59 10.60 2.2  
 1.7s 273.00nm 6.4mb X  
 SKSsac 09 33.00  
 MAIO 130.37 52 ePKP 05 13.00 1.7  
 WB2 138.95 220 ePKP 05 25.60 -2.2  
 0.9s 4.30nm  
 WRA 138.96 220 PKP 05 28.20 0.4  
 0.9s 2.10nm  
 WMQ 143.70 25 ePKP 05 34.20 -1.4  
 POO 146.80 74 ePKP 05 43.00 1.6  
 SNY 146.89 338 ePKP 05 44.20 3.4X  
 NDI 147.04 55 iPKP 05 43.00 1.5  
 KOD 150.43 90 ePKP 05 53.00 5.5X  
 GBA 150.56 83 PKP 05 47.30 0.0  
 1.2s 4.00nm  
 HHC 150.76 354 ePKP 05 50.30 3.2X  
 BJI 150.77 346 ePKP 05 52.00 5.1X  
 BTO 151.15 356 ePKP 05 52.00 4.3X  
 HYB 151.38 75 ePKP 05 49.00 0.5  
 1.0s 45.00nm  
 GTA 151.57 13 PKP 05 49.50 1.1  
 pPKP 05 55.00  
 TIY 153.74 351 ePKP 05 54.00 2.6X  
 LZH 155.50 7 ePKP 06 06.00 12.0X  
 1.5s 24.00nm  
 sP 06 21.00

S.D. = 0.9 on 72 of 83 obs.

\* JAN 29, 1994 16h 03m 58.12± 1.06s  
 35.785 S ± 9.1km 70.979 W ± 13.1km  
 DEPTH = 140.0km (geophysicist)  
 4.3mb (3 obs.)

CHILE-ARGENTINA BORDER REGION (127)  
 MD 4.3 (SAN).

CACH 1.69 11 iP+ 04 30.04 0.5  
 iS 04 54.88  
 LNV 1.86 349 iP+ 04 31.31 0.0  
 iS 04 56.80  
 CHCH 1.87 8 iP+ 04 31.64 0.1  
 iS 04 58.22  
 TACH 2.13 1 iP+ 04 34.63 0.0  
 PCH 2.19 10 iP+ 04 35.98 0.5  
 iS 05 06.26



29d 16h

SAN 2.34 7 iP+ 04 37.39 0.1  
 LCCH 2.36 348 iP+ 04 36.77 -0.6  
 IS 05 07.85  
 FCH 2.52 13 iP+ 04 40.11 0.3  
 PEL 2.65 5 iP+ 04 41.43 0.3  
 IS 05 15.49  
 ROCH 2.81 359 iP+ 04 43.41 0.0  
 IS 05 18.90  
 JACH 3.11 6 iP+ 04 46.97 -0.3  
 IS 05 26.08  
 RTCV 4.41 28 eP 05 04.00 -0.4  
 RTCB 4.66 24 ePc 05 08.00 0.3  
 S 06 04.00  
 RTLL 4.91 26 ePc 05 10.50 -0.6  
 S 06 07.50  
 LIC 74.53 70 P 15 23.13 -0.1  
 0.9s 4.00nm 4.2mb  
 KIC 74.84 70 P 15 25.03 0.0  
 0.7s 16.50nm 4.9mb  
 LKO 76.23 67 P 15 32.99 0.1  
 0.7s 3.00nm 4.1mb  
 S.D. = 0.4 on 17 of 17 obs.

& JAN 29, 1994 16h 19m 09.63s  
 34.184 N 118.622 W  
 DEPTH = 3.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 3.0 (GS).

SSK 0.77 88 iPc 19 23.73 -1.3  
 ABL 0.83 324 eP 19 24.65 -1.5  
 PEC 1.25 103 eP 19 31.31 -2.1  
 eS 19 49.27  
 ISA 1.48 5 eP 19 35.04 -2.1  
 BCH 1.56 310 eP 19 36.71 -1.7  
 PLM 1.68 119 eP 19 38.02 -2.2  
 GSC 1.87 53 eP 19 41.10 -1.6  
 MTUM 3.16 1 ePg 20 06.74 5.4  
 TPNV 3.37 34 ePg 20 13.77 9.5  
 MEMM 3.48 356 ePg 20 12.82 7.1  
 BONR 3.77 4 (P) 20 10.03 -0.1  
 11 obs. associated

% JAN 29, 1994 17h 05m 03.52± 0.60s  
 37.268 N ± 5.2km 4.211 W ± 5.6km  
 DEPTH = 10.0km (geophysicist)  
 SPAIN (377)  
 mbLg 2.7 (MDD).

ELOJ 0.13 159 iP 05 05.90 -0.8  
 eS 05 08.00  
 ELUQ 0.30 351 iPg 05 09.15 -0.6  
 eSg 05 14.20  
 ECOG 0.51 89 ePg 05 13.21 -0.8  
 eSg 05 20.30  
 EMAL 0.53 199 ePg 05 13.81 -0.5  
 eSg 05 21.60  
 EGUA 0.67 130 ePg 05 17.80 0.9  
 eSg 05 27.40  
 EPRU 0.87 250 ePg 05 21.60 1.3  
 eSg 05 34.10  
 EBAN 0.96 21 ePg 05 22.87 1.1  
 eSg 05 34.40  
 EHOR 0.99 304 eP 05 21.50 -0.8  
 eS 05 34.30  
 EHUE 1.40 67 ePn 05 30.20 1.1  
 eSn 05 48.40  
 EVIA 1.92 44 ePn 05 35.81 -0.9  
 eSn 06 01.00  
 S.D. = 1.1 on 10 of 10 obs.

& JAN 29, 1994 17h 22m 52.53s  
 34.297 N 118.567 W  
 DEPTH = 2.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.7 (GS).

SSK 0.73 97 ePc 23 06.43 -0.7  
 eS 23 17.36  
 ABL 0.77 316 eP 23 06.43 -1.5  
 PEC 1.24 109 eP 23 14.54 -1.6  
 eS 23 32.13  
 ISA 1.37 3 eP 23 17.20 -1.3  
 BCH 1.53 306 (P) 23 20.09 -0.9  
 PLM 1.70 123 eP 23 20.77 -2.7  
 GSC 1.76 55 eP 23 23.46 -0.8  
 eS 23 49.02

MEMM 3.38 355 ePg 23 54.12 6.9  
 BONR 3.66 3 ePg 24 00.41 8.9  
 9 obs. associated

? JAN 29, 1994 17h 59m 21.29± 4.37s  
 28.713 N ± 11.9km 34.700 E ± 31.0km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)

BADA 0.33 125 iPc 59 27.87 -0.2  
 SRFA 0.48 63 iPc 59 30.67 -0.4  
 eS 59 37.67  
 HQL 0.63 29 eP 59 34.00 0.0  
 AYN 1.15 82 eP 59 43.33 0.5  
 eS 59 58.67  
 S.D. = 0.7 on 4 of 4 obs.

& JAN 29, 1994 18h 20m 43.50s  
 34.294 N 118.632 W  
 DEPTH = 2.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.8 (GS).

ABL 0.74 319 eP 20 57.32 -0.9  
 SSK 0.78 96 eP 20 58.40 -0.7  
 PEC 1.29 108 eP 21 06.40 -1.6  
 ISA 1.37 5 eP 21 08.08 -1.5  
 eS 21 28.36  
 BCH 1.49 307 eP 21 09.82 -1.5  
 PLM 1.75 122 (P) 21 15.30 0.2  
 GSC 1.81 56 eP 21 15.24 -0.7  
 MEMM 3.37 356 ePg 21 45.38 7.2  
 BONR 3.66 4 ePg 21 52.91 10.3  
 9 obs. associated

JAN 29, 1994 18h 28m 34.23± 1.12s  
 24.643 N ± 9.0km 94.723 E ± 8.6km  
 DEPTH = 93.7 ± 13.6 km  
 4.5mb (10 obs.)  
 MYANMAR-INDIA BORDER REGION (294)

LSA 5.96 329 P 30 00.00 -2.0  
 CHTO 7.00 145 ePn 30 14.90 -1.1  
 KMI 7.30 85 eP 30 22.70 2.5  
 0.8s 10.00nm 4.5mb  
 BDT 8.38 151 eP 30 33.00 -1.7  
 0.8s 51.90nm 5.3mb  
 CD2 10.14 50 eP 31 05.50 6.7X  
 NST 10.27 149 eP 31 02.00 1.6  
 GYA 10.93 78 iPd 31 15.00 5.6X  
 0.8s 18.00nm 5.0mb  
 GTA 15.34 15 eP 32 11.50 4.7X  
 NDI 16.16 288 eP 32 18.00 1.0  
 eS 35 01.50  
 HYB 16.71 248 eP 32 23.40 -0.6  
 eS 35 25.50  
 GBA 19.66 239 P 33 00.00 1.8  
 WMQ 19.98 345 P 33 01.50 0.0  
 1.0s 7.70nm 4.0mb  
 POO 20.33 257 eP 33 06.00 0.8  
 HHC 21.43 37 eP 33 23.00 6.8X  
 KAF 58.44 329 eP 38 22.60 0.4  
 WRA 58.74 135 P 38 24.20 -0.6  
 0.6s 3.70nm 4.7mb  
 WB2 58.75 135 iPd 38 23.90 -0.9  
 0.3s 11.70nm 5.5mb  
 ASPA 61.23 139 eP 38 41.10 -0.7  
 0.4s 9.30nm 5.2mb  
 HFS 64.53 327 eP 39 03.10 0.0  
 0.2s 0.50nm 4.0mb  
 GEC2 66.10 314 P 39 13.20 -0.3  
 0.6s 0.76nm 3.8mb  
 e 39 16.80  
 e 39 26.90  
 YKA 90.06 13 eP 41 24.10 -0.4  
 0.6s 0.30nm 3.6mb  
 S.D. = 1.4 on 17 of 21 obs.

& JAN 29, 1994 19h 25m 44.58s  
 34.376 N 118.653 W  
 DEPTH = 11.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

ABL 0.67 315 ePd 25 56.85 -1.0  
 SSK 0.81 101 eP 25 59.57 -0.7  
 eS 26 11.95

ISA 1.29 6 eP 26 07.79 -0.6  
 PEC 1.33 111 eP 26 07.42 -1.5  
 eS 26 25.65  
 BCH 1.43 305 eP 26 09.18 -1.2  
 GSC 1.78 58 ePn 26 15.35 -0.1  
 PLM 1.81 124 eP 26 14.35 -1.6  
 MTUM 2.97 1 ePg 26 37.30 4.7  
 MPM 3.24 355 ePg 26 42.59 6.0  
 MEMM 3.29 356 (Pn) 26 37.25 0.3  
 BONR 3.58 4 (Pn) 26 41.64 0.3  
 11 obs. associated

\* JAN 29, 1994 20h 17m 40.23± 2.27s  
 58.131 N ± 20.5km 142.757 W ± 4.9km  
 DEPTH = 10.0km (geophysicist)  
 3.2mb (1 obs.)  
 GULF OF ALASKA (15)  
 ML 2.7 (AEIC).

CHX 2.12 23 eP 18 16.65 0.5  
 YKU 2.12 47 eP 18 16.72 0.5  
 YAH 2.30 13 eP 18 19.48 0.5  
 S 18 43.53  
 PNL 2.33 47 iP 18 18.86 -0.3  
 PCA 2.36 32 eP 18 19.66 0.0  
 BCPM 2.44 40 eP 18 20.42 -0.3  
 TGL 2.63 359 eP 18 23.47 -0.1  
 eS 18 52.84  
 CRQM 2.64 356 eP 18 23.51 -0.3  
 CVA 2.87 329 eP 18 28.02 1.2  
 BALM 2.92 4 eP 18 27.56 -0.1  
 eS 19 00.33  
 CTGM 2.93 14 eP 18 27.69 -0.2  
 HIN 2.98 321 eP 18 28.60 0.2  
 FID 3.24 326 eP 18 32.40 0.3  
 GLB 3.36 351 eP 18 33.40 -0.5  
 eS 19 10.80  
 VLZ 3.52 330 eP 18 36.49 0.6  
 KLU 3.73 336 eP 18 38.76 -0.4  
 CFI 3.98 322 eP 18 42.86 0.4  
 TZL 4.15 342 eP 18 43.60 -1.3  
 SLKM 4.51 305 eP 18 48.80 -1.3  
 SML 4.63 325 eP 18 51.28 -0.6  
 GH0 4.79 322 eP 18 55.64 1.4  
 YKA 14.55 61 eP 21 15.30 7.5X  
 0.8s 0.60nm 3.2mb  
 S.D. = 0.7 on 21 of 22 obs.

& JAN 29, 1994 21h 10m 53.73s  
 61.265 N 149.712 W  
 DEPTH = 17.4km  
 SOUTHERN ALASKA (2)  
 <AEIC>. ML 2.5 (AEIC).

BC3 1.54 96 eP 11 54.88 -1.5  
 BGL 1.54 96 eP 11 16.05 -1.5  
 BKG 1.54 96 eP 11 14.81 -1.5  
 CFI 1.54 96 eP 11 10.08 -1.5  
 CGLM 1.54 96 eP 11 12.95 -1.5  
 CKL 1.54 96 eP 11 15.77 -1.5  
 CKN 1.54 96 eP 11 14.96 -1.5  
 CKT 1.54 96 eP 11 14.51 -1.5  
 CNPM 1.54 96 eP 11 24.52 -1.5  
 CP2 1.54 96 eP 11 14.74 -1.5  
 CRP 1.54 96 P 11 14.00 -1.5  
 CUT 1.54 96 eP 11 13.43 -1.5  
 CVA 1.54 96 eP 11 27.32 -1.5  
 DFR 1.54 96 eP 11 20.66 -1.5  
 DHY 1.54 96 eP 11 28.09 -1.5  
 FBA 1.54 96 eP 11 49.20 -1.5  
 FID 1.54 96 eP 11 20.25 -1.5  
 GH0 1.54 96 iP 11 05.36 -1.5  
 eS 11 14.70  
 GLB 1.54 96 eP 11 37.03 -1.5  
 HIN 1.54 96 eP 11 22.73 -1.5  
 HUR 1.54 96 eP 11 22.47 -1.5  
 IL1 1.54 96 eP 11 51.40 -1.5  
 ILB 1.54 96 eP 11 51.12 -1.5  
 ILIM 1.54 96 eP 11 26.30 -1.5  
 IM3 1.54 96 eP 12 08.61 -1.5  
 KLU 1.54 96 eP 11 23.03 -1.5  
 KNK 1.54 96 eP 11 05.47 -1.5  
 KTH 1.54 96 eP 11 30.85 -1.5  
 MPA 1.54 96 eP 11 07.71 -1.5  
 eS 11 19.33  
 MTU 1.54 96 eP 11 19.39 -1.5  
 NCG 1.54 96 eP 11 14.44 -1.5



NCT	1.54	96	eP	11 22.31	-1.5
NKA	1.54	96	eP	11 11.47	-1.5
PAX	1.54	96	eP	11 34.54	-1.5
PLRM	1.54	96	iP	11 02.36	-1.5
			eS	11 09.06	
PMR	1.54	96	ePc	11 02.08	-1.5
			eS	11 08.42	
PWA	1.54	96	P	11 02.50	-1.5
PWL	1.54	96	eP	11 07.62	-1.5
			eS	11 19.97	
RDW	1.54	96	eP	11 21.51	-1.5
RED	1.54	96	eP	11 23.03	-1.5
REF	1.54	96	eP	11 21.50	-1.5
RND	1.54	96	eP	11 29.24	-1.5
RS2	1.54	96	eP	11 22.07	-1.5
RSO	1.54	96	eP	11 22.00	-1.5
SEW	1.54	96	eP	11 13.62	-1.5
SKT	1.54	96	eP	11 12.88	-1.5
			eS	11 27.77	
SLKM	1.54	96	eP	11 08.14	-1.5
			eS	11 19.55	
SML	1.54	96	eP	11 08.44	-1.5
SPU	1.54	96	eP	11 12.93	-1.5
SUA	1.54	96	eP	11 04.30	-1.5
SVW	1.54	96	eP	11 35.36	-1.5
TOA	1.54	96	P	11 24.70	-1.5
TRF	1.54	96	eP	11 28.39	-1.5
TZL	1.54	96	eP	11 29.58	-1.5
VLZ	1.54	96	eP	11 20.23	-1.5
VZW	1.54	96	eP	11 19.04	-1.5

56 obs. associated

\* JAN 29, 1994 21h 18m 31.77± 1.04s  
 21.531 S ±20.4km 179.343 W ±14.0km  
 DEPTH = 619.7 ± 12.5 km  
 5.0mb ( 7 obs.)

FIJI ISLANDS REGION (181)

VUN	4.07	329	eP	19 59.30	-0.2
SGE	4.69	326	iPd	20 00.10	-4.0X
MBU	4.89	338	iPd	20 05.20	-0.3
DZM	13.21	265	iPd	21 23.50	1.2
ARMA	27.49	245	iPd	23 33.90	1.1
	0.2s	7.00nm			4.9mb
CAN	30.90	237	iPd	24 02.60	0.9
BWA	31.09	239	eP	24 02.00	-1.3
PMG	34.38	285	iP	24 31.10	0.2
	0.8s	41.79nm			5.1mb
ASPA	43.07	258	iPd	25 41.00	0.1
	0.6s	47.40nm			5.2mb
		iS	31 22.60		
		iScS	34 33.60		
WRA	43.23	263	P	25 37.50	-4.6X
	0.8s	9.60nm			4.3mb
KNA	49.33	267	eP	26 28.50	0.2
	0.3s	20.00nm			5.1mb
WARB	49.33	253	iPd	26 27.90	-0.3
	0.3s	8.00nm			4.7mb
MBL	56.32	258	iPd	27 17.40	-0.5
	0.2s	16.00nm			4.9mb
MEEK	56.40	252	eP	27 17.50	-0.9
KLB	56.48	246	eP	27 18.40	-0.5
BAL	57.50	247	eP	27 25.20	-0.6
MRWA	58.30	248	eP	27 31.00	-0.2
SYO	85.47	193	ePd	30 05.90	-0.1
GEC2	150.82	342	PKP	37 17.00	6.9X
	0.7s	1.76nm			
LIC	163.82	159	PKP	37 26.80	0.3
KIC	164.04	160	PKP	37 26.90	0.2
TIC	164.22	159	PKP	37 27.40	0.6

S.D. = 0.7 on 19 of 22 obs.

& JAN 29, 1994 21h 45m 14.05s  
 34.311 N 118.473 W  
 DEPTH = 7.6km

SOUTHERN CALIFORNIA ( 43)

&lt;PAS-P&gt;. ML 3.0 (PAS), 3.1 (GS).

SCY	0.20	176	P	45 17.96	-0.4
SADC	0.28	215	P	45 19.43	-0.4
LHU	0.36	8	P	45 20.84	-0.6
JNH	0.45	72	P	45 22.36	-0.8
STTC	0.48	1	P	45 23.35	-0.3
ECF	0.53	286	P	45 23.71	-1.1
LJB	0.59	61	P	45 24.64	-1.2
SBB	0.65	55	P	45 25.89	-1.4
SSK	0.65	99	eP	45 26.20	-1.1

FTC	0.66	328	P	45 26.21	-1.1
DBM	0.67	8	P	45 26.61	-1.0
TJR	0.75	343	P	45 27.60	-1.4
RYS	0.80	295	P	45 28.92	-1.0
ABL	0.82	311	eP	45 28.46	-1.8
PLEC	0.82	323	P	45 29.72	-0.5
SNDC	0.84	10	P	45 29.78	-0.8
CIW	0.85	184	P	45 29.42	-1.2
ARVC	0.87	340	P	45 29.87	-1.1
CALC	0.90	29	P	45 30.43	-1.1
CSP	0.92	90	P	45 31.06	-0.9
MARC	0.99	314	P	45 32.25	-0.9
DTP	1.09	28	P	45 33.59	-1.1
WJPM	1.10	360	P	45 33.86	-1.1
HOD	1.14	62	P	45 34.62	-1.1
PEC	1.17	111	eP	45 34.45	-1.6
			eS	45 50.69	

TMB	1.17	312	P	45 35.47	-0.7
WHVM	1.20	358	P	45 35.56	-1.1
WBSM	1.25	13	P	45 36.95	-0.8
BLKC	1.29	53	P	45 37.38	-0.9
ISA	1.35	360	eP	45 37.89	-1.3
SIL	1.36	88	P	45 39.25	-0.3
CRGC	1.39	312	P	45 39.20	-0.6
WORM	1.40	8	P	45 40.20	0.3
WSHM	1.55	31	P	45 41.52	-0.5
BCH	1.59	304	eP	45 41.53	-1.1
NMC	1.60	17	P	45 43.60	0.8
WCHM	1.60	12	P	45 44.50	1.5
TOW	1.60	21	P	45 43.41	0.6
PLM	1.65	125	eP	45 40.92	-2.7
YEG	1.66	313	P	45 43.29	-0.4
GSC	1.69	54	eP	45 42.85	-1.3
VPDM	1.72	18	P	45 46.02	1.4
RCWM	1.77	22	P	45 46.77	1.5
PTRM	1.96	314	P	45 45.56	-2.4
HVC	2.81	318	P	45 59.20	-1.0
BHPR	2.98	360	P	46 08.52	5.7
MTUM	3.04	359	(Pn)	46 03.91	0.4
			ePg	46 09.27	
MMPM	3.32	352	(Pn)	46 06.81	-0.9
MRCM	3.35	360	ePg	46 15.56	7.5
MEMM	3.37	354	(Pn)	46 06.81	-1.2
			ePg	46 14.78	
BONR	3.64	2	ePg	46 20.36	8.2
TNP	3.90	15	ePg	46 27.34	11.6

52 obs. associated

? JAN 29, 1994 22h 02m 26.62±10.98s  
 31.732 S ±93.2km 69.534 W ±95.8km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.67	69	ePd	02 44.00	-0.1
			S	02 59.00	
RTLL	0.99	66	ePd	02 47.20	-0.1
			S	03 03.70	
CFA	1.11	84	ePc	02 48.80	0.2
			S	03 05.70	
RTRS	1.56	2	eP	02 54.00	0.0

S.D. = 0.3 on 4 of 4 obs.

\* JAN 29, 1994 22h 17m 31.04± 0.69s  
 36.523 N ±11.9km 71.613 E ±14.8km  
 DEPTH = 33.0km (normal)  
 4.1mb ( 3 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

NDI	9.13	147	eP	19 44.50	1.0
			eS	21 21.00	
MAIO	9.77	272	iPc	19 53.00	0.6
			eS	21 34.00	
HYB	20.00	160	eP	22 02.50	-1.3
GBA	23.41	166	P	22 38.00	0.0
HFS	43.35	322	eP	25 31.00	-0.4
	0.4s	1.90nm			4.2mb
NB2	44.66	323	P	25 41.60	-0.5
	0.4s	0.60nm			3.8mb
MBC	67.29	3	eP	28 25.50	1.5
YKA	81.20	3	eP	29 43.50	-0.9
	0.6s	1.20nm			4.1mb

S.D. = 1.1 on 8 of 8 obs.

\* JAN 29, 1994 22h 27m 06.08± 0.69s  
 7.345 S ± 7.1km 128.643 E ±16.6km  
 DEPTH = 142.2 ± 8.4 km  
 4.7mb ( 4 obs.)

BANDA SEA (280)

MTN	5.99	156	eP	28 34.20	0.6
	0.3s	321.00nm			6.0mb X
KNA	8.35	179	eP	29 04.60	-0.9
	0.2s	73.00nm			6.0mb X
		eS	30 32.20		
WB2	13.69	157	eP	30 13.00	-2.5X
		i	30 15.30		
		eS	32 33.20		
MBL	16.16	211	eP	30 47.00	0.5
		eS	33 33.00		
QIS	16.89	142	eP	30 56.30	0.9
ASPA	17.00	163	eP	30 55.70	-1.1
		eS	33 53.90		
PMG	18.43	98	eP	31 18.10	4.7X
	0.9s	47.06nm			4.8mb
WARB	18.83	186	eP	31 18.00	0.4
		eS	34 43.00		
MEEK	21.43	205	eP	31 52.00	8.0X
WHN	40.09	341	eP	34 30.00	0.9
XAN	45.20	337	P	35 10.00	-0.6
	1.0s	18.00nm			4.7mb
TIY	47.31	342	eP	35 26.40	-0.8
LZH	49.09	333	Pc	35 41.70	0.6
	1.4s	36.00nm			4.9mb
WMQ	62.96	328	P	37 20.00	0.3
	1.0s	8.50nm			4.6mb
YKA	108.65	26	ePKP	45 18.50	-0.7
	0.6s	0.20nm			
LPZ	151.24	145	PKP	46 46.10	6.6X

S.D. = 0.9 on 12 of 16 obs.

& JAN 29, 1994 22h 33m 08.81s  
 37.891 N 118.570 W  
 DEPTH = 2.3km  
 CALIFORNIA-NEVADA BORDER REGION ( 40)  
 <GM-P>. MD 2.8 (GM).

BONR	0.22	73	iPc	33 13.60	0.3
MRCM	0.22	167	iPc	33 13.64	0.3
MEMM	0.37	233	eP	33 16.52	0.3
MMPM	0.46	232	eP	33 17.98	0.0
MTUM	0.54	179	eP	33 19.44	-0.1
TNP	1.09	79	eP	33 29.31	-0.8
KVN	1.22	18	eP	33 31.31	-1.0
CMB	1.44	276	eP	33 34.92	-1.1
ORV	2.83	307	eP	33 57.87	2.0
BCH	2.96	205	eP	33 59.31	1.5
PEC	4.15	164	eP	34 14.97	0.4

11 obs. associated

\* JAN 29, 1994 23h 45m 07.40± 2.82s  
 44.436 N ± 7.5km 11.273 E ±25.1km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.9 (LDG).

TRI	2.18	53	e(Pg)	46 16.90	32.8X
			e(Sg)	46 27.10	
PGF	2.51	222	Pn	45 48.50	-0.5
			Sn	46 18.50	
SBF	2.82	260	Pn	45 53.70	0.3
			Sn	46 25.70	
LPL	3.40	290	Pn	46 01.90	0.2
FRF	3.45	257	Pn	46 03.00	0.7
			Sn	46 41.80	
LMR	3.62	254	Pn	46 04.80	0.2
			Sn	46 44.10	
LRG	3.68	256	Pn	46 05.50	0.0
			Sn	46 47.60	
GEC2	4.72	20	Pn	46 23.80	3.5X
	0.3s	0.18nm			
		e	46 25.40		
CDF	4.84	327	Pn	46 22.80	0.7
			Sn	45 15.70	
HAU	4.94	318	Pn	46 23.50	0.1
			Sn	47 17.40	
SMF	5.67	296	Pn	46 33.20	-0.5
			Sn	47 35.10	
LBF	5.71	299	Pn	46 34.00	-0.3
			Sn	47 36.30	
LOR	5.90	301	Pn	46 36.20	-0.8
			Sn	47 40.	



29d 23h

31.269 S  $\pm 37.2$ km 68.665 W  $\pm 37.3$ km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.18	110	ePd	46	42.80	-0.1
RTCB	0.25	208	ePd	46	43.20	0.1
CTA	0.50	133	eP	46	44.30	0.1
			S	46	56.90	
RTCV	0.60	170	iPd	46	45.00	-0.1
			S	46	58.00	

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

& JAN 30, 1994 00h 12m 28.65s  
 34.270 N 118.464 W  
 DEPTH = 7.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.6 (PAS), 2.9 (GS).

SCY	0.16	177	P	12	31.92	-0.3
PYR	0.38	322	P	12	35.77	-0.5
JNH	0.46	67	P	12	36.99	-0.9
PEM	0.50	102	P	12	37.99	-0.8
ECF	0.55	290	P	12	39.25	-0.5
TPO	0.64	18	P	12	40.00	-1.5
SSK	0.64	95	eP	12	40.49	-1.1
			eS	12	47.47	
DBM	0.71	7	P	12	41.52	-1.5
CIW	0.81	185	P	12	43.22	-1.3
ABL	0.85	313	eP	12	43.36	-2.1
BMTC	0.87	353	P	12	44.02	-1.7
SNDC	0.88	9	P	12	44.47	-1.4
CSP	0.92	88	P	12	45.38	-1.1
SME	1.02	116	P	12	46.79	-1.4
DTP	1.12	27	P	12	48.45	-1.4
PEC	1.15	109	ePc	12	48.58	-1.7
			eS	13	04.78	

BTL	1.21	90	P	12	51.08	-0.5
MDA	1.27	106	P	12	51.02	-1.4
ISA	1.39	360	eP	12	52.24	-2.2
			eS	13	11.27	
POB	1.41	114	P	12	52.58	-2.1
WHFM	1.43	4	P	12	53.97	-1.0
WWPM	1.49	12	P	12	54.75	-1.2
RMR	1.57	92	P	12	56.43	-0.6
BCH	1.62	305	eP	12	56.00	-1.7
PLM	1.62	124	eP	12	55.45	-2.3
GSC	1.71	53	eP	12	57.55	-1.5
MEMM	3.41	354	ePg	13	31.05	7.8
BONR	3.68	2	ePg	13	35.50	8.1

28 obs. associated

& JAN 30, 1994 00h 50m 16.59s  
 34.270 N 118.465 W  
 DEPTH = 6.9km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.5 (PAS), 2.7 (GS).

TWL	0.11	274	P	50	18.93	-0.2
FIL	0.34	297	P	50	23.87	0.3
LEOC	0.38	20	P	50	23.40	-1.0
FOXG	0.50	23	P	50	25.87	-0.8
LJB	0.60	58	P	50	27.39	-1.3
SSK	0.64	95	eP	50	28.42	-1.1
SBB	0.67	52	P	50	28.69	-1.4
DBM	0.71	7	P	50	29.57	-1.3
TJR	0.79	343	P	50	32.41	0.2
CIW	0.81	185	P	50	31.52	-1.0
ABL	0.85	313	eP	50	31.52	-1.9
CALC	0.93	27	P	50	33.34	-1.4
HYS	0.95	51	P	50	33.63	-1.4
SME	1.02	116	P	50	35.90	-0.4
PEC	1.15	109	eP	50	36.84	-1.5
			eS	50	52.05	
HOD	1.16	60	P	50	37.32	-1.2
BTL	1.21	90	P	50	39.06	-0.6
BLKC	1.31	51	P	50	40.13	-1.0
ISA	1.39	360	eP	50	40.85	-1.6
POB	1.41	114	P	50	40.82	-1.9
XMS	1.55	36	P	50	44.47	-0.2
WSHM	1.58	30	P	50	44.09	-1.0
BCH	1.62	305	(P)	50	45.03	-0.7
PLM	1.62	124	eP	50	42.95	-2.9
CLC	1.70	25	P	50	47.95	1.1
GSC	1.71	53	eP	50	45.47	-1.6
TPC	2.01	94	P	50	50.40	-1.0

27 obs. associated

? JAN 30, 1994 00h 56m 04.09 $\pm$  1.22s  
 38.529 N  $\pm 22.4$ km 27.454 E  $\pm 25.0$ km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.9 (ISK).

IZM	0.20	229	iPg	56	08.50	0.0
			iSg	56	13.50	
DST	1.41	40	iPn	56	29.80	0.0
EDC	1.84	10	ePn	56	36.00	0.0
IZI	2.39	40	ePn	56	44.00	0.1

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

% JAN 30, 1994 01h 16m 12.97 $\pm$  0.63s  
 44.547 N  $\pm 4.8$ km 7.295 E  $\pm 5.5$ km  
 DEPTH = 10.0km (geophysicist)  
 NORTHERN ITALY (545)  
 ML 2.3 (GEN).

PZZ	0.15	253	P	16	16.27	-0.2
			S	16	18.83	
BHB	0.30	356	P	16	19.34	0.2
			S	16	23.36	
STV	0.30	176	P	16	19.43	0.1
			S	16	23.50	
ENR	0.33	164	P	16	19.98	0.1
			S	16	24.33	
ROB	0.48	121	P	16	22.82	0.0
			S	16	29.68	
FIN	0.74	117	P	16	27.35	-0.1
			S	16	37.28	
IMI	0.77	146	P	16	28.08	0.1
			S	16	38.47	
PCP	0.89	90	P	16	29.95	-0.2

S.D. = 0.2 on 8 of 8 obs.

JAN 30, 1994 03h 03m 44.42 $\pm$  0.38s  
 34.316 N  $\pm 3.4$ km 118.507 W  $\pm 2.7$ km  
 DEPTH = 5.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.6 (GS).

TWL	0.08	243	P	03	46.10	-0.3
FIL	0.29	292	P	03	51.00	0.7
STTC	0.47	4	P	03	54.06	0.1
ECF	0.50	287	P	03	55.40	0.9
PVRC	0.57	169	P	03	56.08	0.2
LOK	0.63	310	P	03	56.79	-0.3
DBM	0.67	10	P	03	57.40	-0.5
SSK	0.68	99	eP	03	58.00	-0.1
ABL	0.80	312	eP	03	59.53	-1.0
BMTC	0.82	355	P	03	59.65	-1.2
ARVC	0.85	342	P	04	00.40	-0.9
HYS	0.95	54	P	04	02.35	-0.6
MARC	0.97	315	P	04	02.95	-0.4
DTP	1.09	30	P	04	06.47	1.0
HOD	1.16	63	P	04	06.51	-0.2
PEC	1.19	110	eP	04	06.74	-0.4
			eS	04	23.70	
BLKC	1.31	54	P	04	09.89	0.7
ISA	1.34	1	eP	04	08.54	-1.2
CRGC	1.36	313	P	04	10.57	0.4
WSCM	1.48	20	P	04	12.53	0.8
WSHM	1.56	32	P	04	13.31	0.5
BCH	1.56	304	eP	04	13.08	0.1
YEG	1.64	314	P	04	14.35	0.3
PLM	1.67	125	eP	04	13.98	-0.7
GSC	1.71	54	eP	04	14.97	-0.2
RCWM	1.78	23	P	04	18.23	2.2
MEMM	3.36	354	ePg	04	46.79	8.2X

S.D. = 0.8 on 26 of 27 obs.

& JAN 30, 1994 03h 13m 49.36s  
 63.256 N 151.104 W  
 DEPTH = 11.5km  
 CENTRAL ALASKA (1)  
 <AEIC>. ML 2.7 (AEIC).

BC3	1.81	46	eP	14	54.88	-0.3
BGL	1.81	46	eP	14	24.99	-0.3
BKG	1.81	46	eP	14	27.17	-0.3
BM3	1.81	46	eP	15	03.14	-0.3
BWN	1.81	46	eP	14	12.06	-0.3
CCB	1.81	46	eP	14	21.78	-0.3
			eS	14	50.70	
CFI	1.81	46	eP	14	30.23	-0.3
CGLM	1.81	46	eP	14	22.99	-0.3

CKN	1.81	46	eP	14	24.82	-0.3
CKT	1.81	46	eP	14	25.44	-0.3
CP2	1.81	46	eP	14	24.19	-0.3
			eS	14	52.45	
CRP	1.81	46	eP	14	23.48	-0.3
			eS	14	50.95	
CUT	1.81	46	eP	14	07.11	-0.3
DFR	1.81	46	eP	14	34.69	-0.3
DHY	1.81	46	eP	14	19.22	-0.3
			eS	14	42.33	
FBA	1.81	46	eP	14	25.11	-0.3
GHO	1.81	46	eP	14	20.11	-0.3
GLB	1.81	46	eP	14	50.22	-0.3
GLM	1.81	46	eP	14	27.18	-0.3
HDA	1.81	46	eP	14	27.37	-0.3
HUR	1.81	46	eP	14	03.03	-0.3
			eS	14	13.26	
IL1	1.81	46	eP	14	30.61	-0.3
			eS	15	00.70	
ILB	1.81	46	eP	14	30.66	-0.3
			S	15	01.36	
IM3	1.81	46	eP	14	35.41	-0.3
IMA	1.81	46	eP	14	35.91	-0.3
KLU	1.81	46	eP	14	38.24	-0.3
			eS	15	15.54	
KNK	1.81	46	eP	14	26.90	-0.3
MCK	1.81	46	eP	14	09.56	-0.3
			eS	14	24.54	
MDM	1.81	46	eP	14	23.60	-0.3
MLY	1.81	46	eP	14	19.04	-0.3
MPA	1.81	46	eP	14	35.74	-0.3
NCG	1.81	46	eP	14	22.00	-0.3
NCT	1.81	46	eP	14	35.29	-0.3
NEA	1.81	46	eP	14	18.26	-0.3
			eS	14	39.71	
NKA	1.81	46	eP	14	33.08	-0.3
PAX	1.81	46	eP	14	32.04	-0.3
PLRM	1.81	46	eP	14	21.90	-0.3
			eS	14	46.36	
PMR	1.81	46	eP	14	21.53	-0.3
PWA	1.81	46	eP	14	19.20	-0.3
PWL	1.81	46	eP	14	34.78	-0.3
			eS	15	08.92	
RDW	1.81	46	eP	14	36.76	-0.3



e 25 03.00  
 eS 28 49.50  
 NWA0 21.42 186 eP 25 12.80 6.8X  
 eS 29 08.80  
 S.D. = 1.2 on 6 of 9 obs.

\* JAN 30, 1994 03h 21m 21.80± 1.19s  
 10.796 S ±13.6km 165.938 E ±16.4km  
 DEPTH = 33.0km (normal)  
 4.6mb ( 7 obs.)

SANTA CRUZ ISLANDS (184)

BKM 7.19 162 iPc 23 07.90 0.6  
 iS 24 47.50  
 DZM 11.22 178 iPc 24 01.90 -1.2  
 iS 26 01.20  
 ARMA 23.63 212 iPd 26 32.50 1.4  
 0.6s 12.00nm 4.6mb  
 STK 30.76 223 eP 27 36.10 -0.3  
 0.6s 2.90nm 4.3mb  
 WB2 31.74 250 eP 27 42.10 -3.1X  
 0.6s 14.10nm 5.0mb  
 WRA 31.75 250 P 27 45.70 0.4  
 0.8s 5.10nm 4.4mb  
 TOO 32.38 211 iPd 27 51.00 0.3  
 0.3s 13.00nm 5.3mb  
 ASPA 33.08 243 iPc 27 55.80 -1.1  
 0.6s 7.50nm 4.8mb  
 YKA 94.67 27 eP 34 40.40 -0.1  
 0.7s 0.20nm 3.7mb  
 S.D. = 1.0 on 8 of 9 obs.

† JAN 30, 1994 03h 55m 49.29± 1.15s  
 38.682 N ± 7.8km 27.326 E ±15.5km  
 DEPTH = 5.0km (geophysicist)  
 TURKEY (366)  
 ML 3.1 (ISK).

IZM 0.29 190 iPg 55 55.10 0.0  
 iSg 55 59.90  
 DST 1.37 47 iPn 56 14.70 -0.4  
 EDC 1.71 14 ePn 56 20.00 0.1  
 KHL 1.76 101 ePn 56 20.80 0.1  
 IZI 2.34 44 ePn 56 29.40 0.2  
 S.D. = 0.3 on 5 of 5 obs.

? JAN 30, 1994 04h 22m 09.88± 6.78s  
 35.241 S ±60.2km 71.311 W ±22.3km  
 DEPTH = 110.0km (geophysicist)  
 CENTRAL CHILE (136)  
 MD 3.8 (SAN).

CACH 1.27 28 eP 22 34.33 -0.1  
 iS 22 55.86  
 LNV 1.29 356 iP+ 22 34.77 0.3  
 iS 22 55.27  
 CHCH 1.41 23 iP+ 22 36.01 -0.1  
 iS 22 58.34  
 TACH 1.61 11 iPd 22 38.39 -0.1  
 iS 23 02.14  
 PCH 1.75 22 iP 22 40.28 0.1  
 iS 23 05.66  
 LCCH 1.77 353 iP 22 40.17 -0.3  
 iS 23 05.50  
 FCH 2.09 24 iPd 22 44.89 0.1  
 PEL 2.16 14 iPd 22 45.64 0.2  
 iS 23 15.13  
 ROCH 2.28 6 iP 22 47.32 0.1  
 eS 23 17.48  
 JACH 2.62 13 iP+ 22 51.45 -0.2  
 iS 23 25.47  
 S.D. = 0.2 on 10 of 10 obs.

& JAN 30, 1994 04h 22m 55.65s  
 34.961 N 116.560 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.4 (GS).

GSC 0.39 330 iPc 23 02.97 -0.7  
 BLKC 0.56 283 P 23 06.11 -0.7  
 GRP 0.80 101 P 23 10.03 -1.6  
 HYS 0.83 264 P 23 10.75 -1.5  
 CSP 0.93 225 P 23 12.67 -1.2  
 RAY 0.95 193 P 23 13.14 -1.1  
 WSHM 1.01 312 P 23 13.75 -1.5  
 SBB 1.08 256 P 23 15.01 -1.3

SS2 1.08 226 P 23 15.57 -0.9  
 MDA 1.11 199 P 23 16.11 -0.7  
 PEC 1.18 205 iPd 23 17.04 -1.0  
 eS 23 32.78  
 SSK 1.20 232 iPd 23 17.31 -1.2  
 eS 23 34.06  
 CLC 1.20 316 P 23 16.77 -1.7  
 SRTC 1.22 307 P 23 17.57 -1.1  
 WSCM 1.31 305 P 23 18.42 -2.0  
 RCWM 1.33 318 P 23 18.71 -1.9  
 PEM 1.34 234 P 23 19.62 -1.1  
 FOXC 1.39 261 P 23 21.34 -0.3  
 WBSM 1.41 294 P 23 21.79 -0.4  
 WWPM 1.47 302 P 23 22.47 -0.3  
 DBM 1.48 271 P 23 23.02 0.1  
 CO2 1.50 138 P 23 20.29 -2.8  
 PLM 1.62 189 ePd 23 23.58 -1.5  
 WHVM 1.69 289 P 23 26.51 0.5  
 ISA 1.71 295 ePnc 23 24.12 -2.2  
 iPg 23 26.84  
 ABL 2.19 268 ePn 23 32.12 -1.2  
 GLA 2.39 142 ePn 23 32.34 -3.6  
 MTUM 2.89 326 ePn 23 41.08 -2.1  
 TNP 3.16 351 (Pn) 23 47.40 0.3  
 BONR 3.30 335 ePn 23 47.14 -2.1  
 ePg 23 57.64  
 ARUT 3.78 41 (Pn) 23 54.05 -1.9  
 MSU 5.00 44 ePn 24 13.07 -0.1  
 DUG 6.01 29 ePg 24 47.28 19.9  
 SRU 6.36 48 ePg 24 56.15 23.7  
 34 obs. associated

& JAN 30, 1994 04h 59m 39.49s  
 34.253 N 118.466 W  
 DEPTH = 14.6km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.5 (PAS), 2.7 (GS).

TWL 0.11 283 P 59 42.54 -0.4  
 LEOC 0.40 20 P 59 47.12 -0.7  
 LRRC 0.45 53 P 59 48.34 -0.4  
 PEM 0.50 100 P 59 49.32 -0.2  
 STTC 0.53 0 P 59 50.20 0.1  
 SSK 0.64 94 iPd 59 51.77 -0.2  
 TPO 0.65 17 P 59 51.77 -0.4  
 DBM 0.73 7 P 59 53.29 -0.2  
 CIW 0.79 185 P 59 54.47 0.1  
 ABL 0.86 314 eP 59 55.04 -0.8  
 BMTc 0.89 353 P 59 55.80 -0.4  
 SNDC 0.90 9 P 59 56.36 0.0  
 HYS 0.96 50 P 59 57.18 -0.2  
 DTP 1.13 27 P 00 00.16 -0.2  
 PEC 1.14 108 eP 59 59.81 -0.6  
 eS 00 15.46  
 HOD 1.16 60 P 00 00.85 0.0  
 WHVM 1.25 358 P 00 02.49 0.1  
 BLKC 1.32 51 P 00 03.70 0.3  
 SIL 1.36 86 P 00 04.84 0.8  
 ISA 1.41 360 ePn 00 04.12 -0.5  
 eS 00 23.18  
 WHFM 1.44 4 P 00 05.26 0.1  
 WSHM 1.59 30 P 00 06.88 -0.4  
 PLM 1.61 123 eP 00 06.91 -0.7  
 NMC 1.65 16 P 00 09.52 1.4  
 GSC 1.72 52 ePn 00 09.10 -0.1  
 ePg 00 11.16  
 RCWM 1.82 21 P 00 13.00 2.4  
 MEMM 3.43 354 ePn 00 35.34 1.9  
 BONR 3.70 2 ePg 00 48.50 10.9  
 28 obs. associated

? JAN 30, 1994 05h 33m 24.15± 5.81s  
 28.685 S ±47.8km 70.909 W ±27.4km  
 DEPTH = 151.5 ± 35.2 km  
 CENTRAL CHILE (136)

RTRS 1.95 140 iPd 33 58.90 -0.2  
 RTCB 3.34 147 ePc 34 16.70 0.1  
 RTLL 3.38 142 ePc 34 17.00 -0.1  
 ZON 3.44 146 eP 34 17.20 -0.7  
 eS 34 46.20  
 RTCV 3.77 148 iPc 34 22.00 -0.2  
 JACH 3.99 176 iPd 34 26.03 0.9  
 RTPR 4.16 114 iPd 34 27.50 0.3  
 S 35 07.00  
 ROCH 4.27 181 iP+ 34 28.91 -0.1  
 PEL 4.45 178 iPd 34 31.54 0.4

FCH 4.66 174 ePd 34 35.25 1.1  
 LCCH 4.81 187 iPd 34 35.76 -0.1  
 PCH 4.93 176 eP 34 38.16 0.6  
 TACH 4.95 180 iP 34 37.57 -0.2  
 CHCH 5.24 178 eP 34 40.39 -1.2  
 LNV 5.27 185 iPd 34 41.25 -0.7  
 CACH 5.42 177 eP 34 44.26 0.1  
 LPB 12.37 13 (P) 36 34.00 17.4X  
 LPAZ 12.60 12 P 36 29.80 10.0X  
 i 36 36.40  
 S.D. = 0.7 on 16 of 18 obs.

& JAN 30, 1994 06h 35m 36.12s  
 34.365 N 118.562 W  
 DEPTH = 4.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.7 (PAS), 2.7 (GS).

ABL 0.73 312 eP 35 49.61 -1.1  
 SSK 0.74 102 eP 35 49.93 -0.9  
 PEC 1.25 112 eP 35 58.52 -1.4  
 eS 36 15.85  
 ISA 1.30 3 eP 35 59.26 -1.4  
 GSC 1.72 57 eP 36 05.65 -1.4  
 PLM 1.74 125 eP 36 05.83 -1.5  
 eS 36 30.00  
 MTUM 2.98 360 ePg 36 29.55 4.3  
 MEMM 3.31 355 ePg 36 35.87 6.2  
 BONR 3.59 3 ePg 36 43.83 9.9  
 9 obs. associated

JAN 30, 1994 07h 47m 00.51± 0.55s  
 41.000 N ± 4.4km 22.829 E ± 4.7km  
 DEPTH = 5.0km (geophysicist)  
 NORTHWESTERN BALKAN REGION (383)  
 ML 2.5 (SKO), 2.2 (THE).

KNT 0.17 18 ePg 47 04.12 0.1  
 eSg 47 06.72  
 GRG 0.33 263 ePg 47 07.16 0.1  
 eSg 47 12.28  
 VAY 0.38 329 iPg 47 08.20 0.1  
 0.2s 80.00nm  
 iSg 47 13.70  
 THE 0.38 164 ePg 47 07.76 -0.4  
 iSg 47 13.80  
 SOH 0.44 114 iPg 47 08.92 -0.3  
 SRS 0.59 78 iPg 47 11.64 -0.7  
 eSg 47 21.32  
 LIT 0.93 196 iPg 47 18.16 -0.7  
 OUR 1.10 127 ePg 47 22.52 0.9  
 PAIG 1.25 149 ePb 47 25.12 0.9  
 S.D. = 0.7 on 9 of 9 obs.

& JAN 30, 1994 08h 19m 06.05s  
 34.280 N 118.482 W  
 DEPTH = 3.0km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.9 (PAS), 3.0 (GS).

SCY 0.17 172 P 19 09.56 0.0  
 CJV 0.37 48 P 19 12.81 -0.8  
 LHU 0.39 8 P 19 13.23 -0.7  
 JNH 0.47 69 P 19 14.61 -0.8  
 FOXC 0.50 25 P 19 15.28 -0.7  
 PEM 0.52 102 P 19 15.89 -0.6  
 TPO 0.63 19 P 19 17.52 -1.2  
 SSK 0.66 96 iPc 19 18.31 -0.9  
 LOK 0.67 312 P 19 18.31 -1.1  
 FTC 0.68 330 P 19 18.44 -1.2  
 ELMC 0.74 70 P 19 19.48 -1.3  
 RYS 0.80 297 P 19 20.87 -1.3  
 CIW 0.81 184 P 19 20.81 -1.5  
 ABL 0.83 313 eP 19 20.89 -1.8  
 BMTc 0.86 354 P 19 21.34 -1.9  
 ARVC 0.89 341 P 19 22.04 -1.8  
 CALC 0.93 28 P 19 22.78 -1.8  
 HYS 0.95 52 P 19 23.11 -1.8  
 TEJ 0.96 350 P 19 23.90 -1.1  
 MARC 1.01 316 P 19 24.17 -1.7  
 LPC 1.04 282 P 19 24.79 -1.6  
 SME 1.04 116 P 19 24.64 -1.7  
 WJPM 1.13 0 P 19 26.40 -1.5  
 HOD 1.16 61 P 19 26.85 -1.6  
 PEC 1.16 109 ePc 19 26.22 -2.2  
 eS 19 42.06  
 BTL 1.22 91 P 19 28.61 -1.1



30d 08h

MDA 1.28 106 P 19 28.94 -1.6  
 SIL 1.37 87 P 19 31.25 -0.9  
 ISA 1.38 0 ePn 19 29.67 -2.5  
 CRGC 1.40 314 P 19 31.27 -1.3  
 POB 1.42 114 P 19 30.46 -2.4  
 PLM 1.64 124 eP 19 32.91 -3.1  
 TOW 1.64 21 P 19 37.18 1.3  
 GSC 1.72 53 eP 19 35.13 -1.9  
 PHAM 2.21 315 (P) 19 43.24 -0.9  
 MTUM 3.07 359 ePn 19 56.08 -0.4  
 ePg 20 01.63  
 MRCM 3.38 360 ePg 20 07.71 6.6  
 MEMM 3.40 354 ePn 20 00.36 -0.7  
 BONR 3.67 2 (Pn) 20 03.18 -2.0  
 TNP 3.93 15 (Pn) 20 08.24 -0.6  
 ARUT 5.38 48 ePn 20 28.75 -0.6  
 41 obs. associated

& JAN 30, 1994 09h 19m 56.42s  
 34.315 N 118.556 W  
 DEPTH = 1.5km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.5 (GS).

TPRS 0.23 186 P 20 01.13 0.2  
 LEOC 0.38 33 P 20 03.67 -0.3  
 ECF 0.46 288 P 20 06.73 1.0  
 LRRC 0.48 64 P 20 05.75 -0.4  
 LOK 0.60 313 P 20 08.22 -0.2  
 FTC 0.62 334 P 20 08.39 -0.4  
 DBM 0.68 14 P 20 09.34 -0.7  
 SSK 0.72 98 eP 20 10.37 -0.5  
 RYS 0.73 297 P 20 11.30 0.2  
 ABL 0.77 314 eP 20 10.92 -0.8  
 eS 20 22.96  
 PLEC 0.78 327 P 20 12.14 0.2  
 ELMC 0.79 74 P 20 11.30 -0.8  
 BMTC 0.82 358 P 20 11.53 -1.3  
 ARVC 0.84 345 P 20 12.18 -1.0  
 CALC 0.93 32 P 20 13.72 -1.3  
 MARC 0.94 317 P 20 14.61 -0.6  
 LPC 0.97 281 P 20 15.22 -0.6  
 HYS 0.98 56 P 20 14.50 -1.4  
 WJPM 1.10 3 P 20 16.89 -1.0  
 SME 1.11 116 P 20 16.70 -1.4  
 TMB 1.12 314 P 20 17.98 -0.2  
 WHVM 1.19 1 P 20 18.29 -1.2  
 HOD 1.20 64 P 20 19.80 0.2  
 PEC 1.23 110 eP 20 18.42 -1.7  
 CRGC 1.33 314 P 20 21.37 -0.6  
 ISA 1.35 3 eP 20 20.43 -1.7  
 WORM 1.40 11 P 20 23.31 0.2  
 SIL 1.43 88 P 20 23.90 0.3  
 SCCM 1.47 296 P 20 23.40 -0.7  
 POB 1.49 114 P 20 22.85 -1.6  
 SRTC 1.52 26 P 20 25.73 0.9  
 BCH 1.53 305 eP 20 23.87 -1.1  
 XMS 1.56 39 P 20 24.65 -0.7  
 RMR 1.64 93 P 20 27.14 0.5  
 PLM 1.71 124 eP 20 24.89 -2.7  
 GSC 1.75 55 eP 20 27.03 -1.0  
 WLHM 1.84 6 P 20 31.37 1.7  
 PHAM 2.14 316 eP 20 31.82 -1.9  
 MTUM 3.03 360 (Pn) 20 45.10 -1.5  
 MRCM 3.35 1 (Pn) 20 49.25 -1.9  
 GLA 3.35 111 (Pn) 20 50.22 -0.8  
 MEMM 3.36 355 ePn 20 49.23 -1.8  
 BONR 3.64 3 ePn 20 53.66 -1.6  
 ePg 21 02.64  
 ARN 3.87 322 eP 20 57.82 -0.6  
 TNP 3.91 16 (Pn) 20 58.13 -1.0  
 ePg 21 09.68  
 CMB 4.00 339 eP 20 59.22 -0.9  
 KVN 4.74 4 ePg 21 24.73 13.8  
 ARUT 5.40 49 ePn 21 19.25 -1.0  
 MSU 6.63 49 (Pn) 21 37.39 -0.3  
 DUG 7.44 36 ePg 22 15.93 27.0  
 50 obs. associated

? JAN 30, 1994 10h 16m 14.96± 4.13s  
 38.842 N ±13.8km 30.189 E ±43.7km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 2.8 (ISK).

ALT 0.22 344 iPg 16 20.00 0.2  
 KHL 0.74 225 iPg 16 29.50 0.0

eSg 16 39.50  
 DST 1.43 303 ePn 16 41.00 0.0  
 IZI 1.59 340 ePn 16 43.10 -0.2  
 S.D. = 0.3 on 4 of 4 obs.  
 & JAN 30, 1994 10h 44m 40.45s  
 34.378 N 118.568 W  
 DEPTH = 2.7km  
 SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 3.3 (PAS), 3.3 (GS).

FIL 0.23 282 P 44 45.47 0.5  
 SADC 0.31 195 P 44 46.14 -0.5  
 QAL 0.39 342 P 44 48.04 -0.2  
 FOXC 0.45 38 P 44 49.27 -0.2  
 THC 0.54 352 P 44 50.72 -0.4  
 FTC 0.56 332 P 44 51.18 -0.5  
 TPO 0.57 29 P 44 51.27 -0.6  
 DBM 0.62 16 P 44 52.25 -0.7  
 TJR 0.66 348 P 44 52.79 -0.9  
 RYS 0.70 292 P 44 54.77 0.3  
 ABL 0.72 311 eP 44 53.74 -1.0  
 SSK 0.74 103 ePc 44 54.28 -1.0  
 BMTC 0.76 358 P 44 54.36 -1.2  
 ARVC 0.78 344 P 44 54.95 -1.0  
 TEJ 0.86 353 P 44 56.36 -1.2  
 MARC 0.89 315 P 44 57.24 -1.0  
 LPC 0.95 277 P 44 58.72 -0.7  
 HYS 0.96 59 P 44 57.82 -1.6  
 CSP 1.00 94 P 44 58.97 -1.3  
 WJPM 1.03 4 P 44 59.36 -1.4  
 TMB 1.07 312 P 45 01.39 0.1  
 DTP 1.07 34 P 44 59.95 -1.3  
 HOD 1.18 67 P 45 01.92 -1.3  
 PEC 1.26 112 iPc 45 02.82 -1.8  
 eS 45 20.50  
 SNS 1.27 138 P 45 02.93 -1.7  
 CRGC 1.28 313 P 45 04.57 -0.4  
 ISA 1.28 3 eP 45 03.61 -1.4  
 BTL 1.30 95 P 45 04.73 -0.7  
 WORM 1.34 11 P 45 06.01 0.0  
 WJPM 1.41 16 P 45 06.05 -1.1  
 SCCM 1.44 293 P 45 07.03 -0.5  
 BCH 1.49 303 eP 45 07.28 -1.0  
 XMS 1.52 41 P 45 08.03 -0.6  
 POB 1.53 116 P 45 06.67 -2.2  
 TOW 1.57 25 P 45 09.26 -0.1  
 GSC 1.72 57 eP 45 10.46 -1.1  
 PLM 1.75 125 eP 45 09.94 -2.1  
 eS 45 34.60  
 PHAM 2.09 315 eP 45 17.38 0.5  
 MTUM 2.97 0 ePg 45 34.45 4.9  
 MRCM 3.29 1 (Pn) 45 33.11 -1.0  
 MEMM 3.30 355 ePn 45 32.09 -1.9  
 GLA 3.39 112 ePn 45 34.98 -0.4  
 BONR 3.58 3 (Pn) 45 37.42 -0.9  
 ARN 3.82 322 (P) 45 41.41 -0.1  
 TNP 3.85 16 ePg 45 52.41 10.2  
 ARUT 5.37 49 ePn 46 02.64 -1.0  
 MSU 6.60 49 (Pn) 46 21.27 0.2  
 ePg 46 43.54  
 DUG 7.40 37 ePg 47 00.51 28.4  
 48 obs. associated

& JAN 30, 1994 10h 53m 55.54s  
 67.900 N 144.178 W  
 DEPTH = 11.9km  
 NORTHERN ALASKA (676)  
 <AEIC>. ML 3.8 (AEIC), 4.1 (PMR).

BM3 0.51 199 iP 54 05.35 -0.6  
 eS 54 13.36  
 FYU 1.40 197 eP 54 20.40 -0.4  
 eS 54 39.50  
 GLM 3.20 205 eP 54 46.03 -0.6  
 eS 55 26.57  
 IL1 3.33 200 eP 54 46.97 -1.4  
 ILB 3.33 200 eP 54 46.85 -1.6  
 eS 55 28.15  
 FRA 3.35 207 ePc 54 47.11 -1.5  
 MDM 3.37 211 eP 54 47.84 -1.2  
 CCB 3.58 206 eP 54 50.95 -1.0  
 eS 55 34.40  
 HDA 3.69 199 eP 54 51.91 -1.6  
 WRH 3.79 207 eP 54 54.24 -0.8  
 NEA 3.88 213 eP 54 54.79 -1.5

MLY 3.90 225 eP 54 55.38 -1.2  
 DJE 3.94 190 eP 54 57.33 0.3  
 IMA 4.16 248 ePn 54 59.59 -0.7  
 ePg 55 12.45  
 DDM 4.19 190 eP 54 59.39 -1.3  
 IM3 4.23 247 eP 55 00.50 -0.7  
 eS 55 52.06  
 DOT 4.27 179 eP 54 59.51 -2.3  
 BWN 4.32 212 eP 55 00.46 -2.0  
 eS 55 51.63  
 MCK 4.62 207 eP 55 05.72 -1.0  
 TMW 4.62 173 eP 55 04.45 -2.3  
 RND 4.91 205 eP 55 09.30 -1.6  
 BC3 4.96 167 eP 55 08.18 -3.4  
 PAX 4.98 187 eP 55 10.43 -1.5  
 DHY 5.02 197 eP 55 12.03 -0.6  
 TRF 5.13 212 eP 55 12.44 -1.7  
 HUR 5.44 207 eP 55 17.90 -0.5  
 BRW 5.56 314 P 55 19.90 -0.1  
 TOA 5.88 189 eP 55 21.10 -3.5  
 TZL 5.90 186 eP 55 23.92 -0.9  
 CUT 6.08 208 eP 55 26.18 -1.2  
 SML 6.37 198 eP 55 31.20 -0.3  
 KLU 6.48 187 eP 55 32.00 -1.1  
 GLB 6.49 178 eP 55 31.40 -1.8  
 SKT 6.71 211 eP 55 34.84 -1.4  
 PWA 6.73 204 P 55 35.00 -1.5  
 KNK 6.77 198 eP 55 36.96 -0.1  
 VLZ 6.86 189 eP 55 37.81 -0.5  
 BALM 6.94 173 eP 55 36.77 -2.8  
 TTA 7.01 230 (P) 55 37.30 -3.2  
 SUA 7.04 207 eP 55 41.96 0.9  
 CTGM 7.07 169 eP 55 38.67 -2.8  
 TGL 7.20 175 eP 55 41.21 -2.0  
 PWL 7.29 196 eP 55 41.78 -2.6  
 NCG 7.36 211 eP 55 44.67 -0.7  
 CRP 7.48 211 (P) 55 44.85 -2.4  
 CP2 7.50 211 (P) 55 45.07 -2.5  
 SPU 7.54 210 eP 55 46.91 -1.0  
 CKT 7.56 211 eP 55 45.02 -3.1  
 HMT 7.60 180 P 55 50.20 1.5  
 YAH 7.64 171 eP 55 48.21 -1.3  
 SLKM 7.87 202 (P) 55 50.99 -1.5  
 MBC 11.20 31 eP 56 34.00 -4.3  
 YKA 13.44 100 eP 56 58.40 -9.8  
 0.4s 0.30nm 3.7mb  
 53 obs. associated

JAN 30, 1994 10h 54m 30.15± 0.32s  
 34.311 N ±2.6km 118.491 W ±2.5km  
 DEPTH = 5.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.7 (GS).

TWL 0.09 249 P 54 32.77 0.5  
 PYR 0.33 321 P 54 37.22 0.4  
 LHU 0.36 10 P 54 37.68 0.2  
 LRRC 0.44 61 P 54 39.54 0.6  
 STTC 0.48 3 P 54 40.13 0.4  
 ECF 0.52 287 P 54 41.56 1.0  
 LOK 0.64 310 P 54 42.88 -0.2  
 SSK 0.67 98 eP 54 43.85 0.3  
 DBM 0.67 9 P 54 43.47 -0.2  
 TJR 0.74 344 P 54 44.27 -0.7  
 ABL 0.81 312 eP 54 45.33 -1.1  
 eS 54 58.62  
 CIW 0.85 183 P 54 47.00 0.1  
 ARVC 0.86 341 P 54 46.49 -0.7  
 CALC 0.91 29 P 54 47.84 -0.2  
 HYS 0.94 54 P 54 48.34 -0.3  
 DTP 1.09 29 P 54 51.04 -0.2  
 SNS 1.18 138 P 54 52.27 -0.3  
 PEC 1.18 110 eP 54 52.13 -0.5  
 WHVM 1.20 359 P 54 53.10 0.1  
 BLKC 1.30 53 P 54 55.34 0.6  
 ISA 1.35 1 eP 54 55.30 -0.2  
 POB 1.44 115 P 54 56.40 -0.7  
 XMS 1.53 37 P 54 58.25 0.1  
 RMR 1.59 93 P 55 00.77 1.6  
 PLM 1.66 125 eP 54 58.97 -1.2  
 GSC 1.70 54 eP 55 01.06 0.3  
 MEMM 3.37 354 (Pn) 55 24.81 0.4  
 BONR 3.64 2 ePg 55 37.47 8.9X  
 TNP 3.90 15 ePg 55 44.29 12.0X  
 S.D. = 0.6 on 27 of 29 obs.

JAN 30, 1994 11h 15m 56.92± 1.16s



43.717 N  $\pm$  7.6km 138.882 E  $\pm$  9.4km  
 DEPTH = 247.2  $\pm$  11.1 km  
 4.3mb ( 12 obs.)  
 EASTERN SEA OF JAPAN (223)

MDJ	6.74	281	Pc	17	34.70	-0.2
	1.1s	50.00nm			4.4mb	
MAT	7.19	184	eP	17	41.00	0.4
CN2	9.72	275	iPd	18	12.40	-0.5
	0.8s	26.00nm			4.4mb	
		eP	18	16.00		
SNY	11.41	266	Pd	18	34.50	0.4
	1.0s	15.00nm			4.1mb	
TIA	18.25	253	eP	19	53.80	-0.6
TIY	20.88	262	eP	20	21.10	0.3
WMQ	36.48	288	P	22	40.80	0.9
LAT	50.68	170	e(P)	24	14.50	-18.8X
RES	56.63	15	eP	25	15.50	-0.4
	1.0s	3.00nm			3.8mb	
YKA	59.05	31	eP	25	32.40	-0.4
	0.5s	0.60nm			3.5mb	
GBA	60.14	260	P	25	40.00	-0.7
WB2	63.48	185	iPc	26	02.00	-0.6
	0.6s	10.40nm			4.7mb	
WRA	63.48	185	P	26	02.30	-0.4
	0.5s	6.40nm			4.6mb	
ASPA	67.21	185	iPc	26	27.00	0.7
	0.7s	6.50nm			4.5mb	
HFS	67.23	334	eP	26	25.20	-0.9
	0.3s	1.50nm			4.1mb	
FRB	70.70	13	eP	26	47.50	0.4
	0.5s	4.00nm			4.4mb	
ULM	74.97	33	eP	27	15.50	3.3X
KHC	75.88	326	eP	27	18.50	1.1
	1.0s	5.40nm			4.2mb	
		e	28	20.00		
		e	29	05.50		
		e	29	20.00		
GEC2	76.05	326	P	27	19.00	0.6
	0.6s	1.08nm			3.8mb	
	S.D. = 0.7	on 17 of 19 obs.				

& JAN 30, 1994 13h 22m 39.87s  
 34.335 N 118.539 W  
 DEPTH = 6.0km (geophysicist)  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.6 (PAS), 2.6 (GS).

SSK	0.71	100	eP	22	53.22	-0.9
ABL	0.76	313	eP	22	53.82	-1.4
		eS	23	05.69		
PEC	1.23	111	eP	23	01.61	-1.5
ISA	1.33	2	eP	23	03.39	-1.4
PLM	1.71	125	eP	23	08.97	-1.5
GSC	1.72	55	eP	23	09.73	-0.9
	6 obs.	associated				

& JAN 30, 1994 15h 50m 43.04s  
 35.824 N 121.285 W  
 DEPTH = 3.8km  
 CENTRAL CALIFORNIA ( 39)  
 <GM-P>. MD 2.8 (GM). ML 3.1  
 (GS), 2.8 (PAS).

PHCM	0.18	143	P	50	47.09	0.4
PSAM	0.38	58	P	50	50.75	0.1
BAPM	0.46	321	P	50	52.22	0.1
BCWM	0.53	335	P	50	53.65	-0.1
SHG	0.59	2	P	50	54.43	-0.4
PRI	0.59	58	P	50	55.00	0.1
PSMM	0.61	66	P	50	55.22	-0.1
BPRM	0.68	328	P	50	56.15	-0.6
PHAM	0.72	89	eP	50	55.85	-1.6
PMCM	0.75	97	P	50	58.64	0.6
BLRM	0.84	1	P	50	59.12	-0.7
EKH	0.84	6	P	50	59.90	0.1
BSRM	0.86	347	P	50	59.63	-0.6
BHRM	0.90	1	P	51	00.88	0.0
BMSM	0.92	25	P	51	01.69	0.4
SAO	0.95	352	ePc	51	00.68	-1.0
		eS	51	14.08		
HJSM	0.99	359	P	51	02.38	0.0
LTR	1.06	359	P	51	03.32	-0.2
OCR	1.11	351	P	51	04.75	0.4
YEG	1.15	109	P	51	04.34	-0.8
SFL	1.16	355	P	51	05.71	0.4
BCH	1.17	123	eP	51	04.57	-1.0

JBZM	1.26	341	P	51	06.07	-0.9
SCCM	1.27	134	P	51	07.00	-0.1
CBO	1.33	346	P	51	06.63	-1.5
JUCM	1.33	333	P	51	08.02	-0.1
CRGC	1.40	114	P	51	10.84	1.3
COE	1.46	348	eP	51	09.19	-1.1
PKM	1.51	127	P	51	12.25	1.1
ARN	1.54	353	eP	51	09.56	-1.8
FRI	1.72	47	P	51	13.26	-0.7
ABL	1.95	119	eP	51	14.72	-2.7
WHVM	2.27	97	P	51	17.71	-4.4
WHFM	2.39	92	P	51	24.35	0.6
WWPM	2.60	91	P	51	28.62	1.9
MTUM	2.67	54	eP	51	26.82	-1.0
LRRC	2.97	115	P	51	29.42	-2.5
SSK	3.36	118	eP	51	35.41	-2.2
GSC	3.69	97	(P)	51	41.06	-1.1

39 obs. associated

JAN 30, 1994 16h 04m 50.68  $\pm$  0.70s  
 24.982 S  $\pm$  4.4km 68.993 W  $\pm$  10.9km  
 DEPTH = 89.5  $\pm$  7.3 km  
 4.5mb ( 4 obs.)

CHILE-ARGENTINA BORDER REGION (127)

RTPR	5.74	158	e(P)	06	15.00	0.0
RTLL	6.34	176	iPc	06	23.30	-0.1
RTCB	6.48	179	iPc	06	25.50	0.1
CFA	6.63	174	ePd	06	27.20	-0.2
CCH	8.02	20	eP	06	46.00	-0.7
LPB	8.45	6	eP	06	53.00	0.3
LPBZ	8.69	5	P	06	56.10	-0.1
ARE	8.79	344	eP	06	50.00	-7.3X
		eS	08	31.00		
SIV	11.62	41	P	07	31.30	-3.8X
RSTA	18.12	93	(P)	08	59.00	1.0
LTC	69.46	73	P	15	51.06	-0.6
	0.8s	4.00nm			4.4mb	
KIC	69.78	73	Pd	15	53.28	-0.4
	0.7s	17.00nm			5.0mb	
LKO	70.64	69	P	15	58.42	-0.5
	0.5s	4.00nm			4.6mb	
LRM	80.77	331	eP	16	57.00	1.2
YKA	94.43	341	eP	18	01.20	0.0
	0.7s	1.00nm			4.4mb	
WB2	129.90	209	ePKP	23	51.70	-0.3
	0.4s	2.90nm				
WRA	129.91	209	PKP	23	51.20	-0.8
	0.6s	2.00nm				
GBA	146.45	103	PKP	24	23.00	0.9
HYB	148.88	98	ePKP	24	30.50	4.5X
	S.D. = 0.7	on 16 of 19 obs.				

& JAN 30, 1994 17h 01m 42.41s  
 34.306 N 118.445 W  
 DEPTH = 6.8km  
 SOUTHERN CALIFORNIA ( 43)  
 <PAS-P>. ML 2.7 (PAS), 2.9 (GS).

TWL	0.13	257	P	01	45.09	-0.1
PYR	0.36	317	P	01	49.61	-0.1
FOX	0.46	23	P	01	51.22	-0.5
STTC	0.48	358	P	01	51.84	-0.3
LJB	0.57	60	P	01	52.72	-1.1
SSK	0.63	98	eP	01	54.06	-1.0
		eS	02	03.50		
DBM	0.67	6	P	01	54.95	-1.0
TJR	0.76	341	P	01	56.54	-1.0
BMT	0.84	351	P	01	57.63	-1.3
ABL	0.84	311	eP	01	57.48	-1.6
CIW	0.84	186	P	01	58.06	-0.9
HYS	0.91	52	P	01	59.00	-1.2
SME	1.03	118	P	02	00.90	-1.2
DTP	1.08	27	P	02	01.88	-1.2
HOD	1.12	61	P	02	02.81	-1.0
PEC	1.14	111	eP	02	02.66	-1.5
		eS	02	18.37		
BLKC	1.28	52	P	02	05.77	-0.7
ISA	1.35	359	eP	02	06.32	-1.4
CRGC	1.41	312	P	02	08.35	-0.2
POB	1.41	116	P	02	06.86	-1.7
WSHM	1.54	30	P	02	09.73	-0.6
RMR	1.55	93	P	02	10.92	0.2
PLM	1.62	125	eP	02	09.87	-1.9
CLC	1.66	25	P	02	12.92	0.8
GSC	1.68	53	eP	02	11.43	-1.0
WLHM	1.85	3	P	02	16.78	1.7

PHAM	2.21	314	(P)	02	20.44	0.3
MTUM	3.04	358	ePc	02	37.48	5.4
MEMM	3.38	353	(Pn)	02	36.60	0.0
		ePc	02	43.72		
BONR	3.64	2	ePc	02	49.02	8.3
	30 obs.	associated				

& JAN 30, 1994 17h 53m 21.97s  
 35.829 N 121.286 W  
 DEPTH = 7.9km  
 CENTRAL CALIFORNIA ( 39)  
 <GM-P>. MD 2.9 (GM). ML 2.7  
 (PAS).

PHCM	0.18	143	P	53	26.02	0.1
PSAM	0.38	59	P	53	29.62	0.0
BCWM	0.53	335	P	53	32.50	-0.1
BTW	0.56	31	P	53	33.06	-0.3
PRI	0.59	58	P	53	33.84	-0.1
PSMM	0.61	67	P	53	34.04	-0.2
LRV	0.63	20	P	53	34.60	-0.1
HVC	0.66	35	P	53	35.04	-0.3
PHAM	0.72	89	eP	53	36.18	-0.2
		eS	53	47.20		
BLRM	0.84	1	P	53	37.97	-0.3
BSRM	0.86	347	P	53	38.49	-0.2
BCGM	0.88	357	P	53	38.72	-0.3
BHRM	0.90	1	P	53	39.75	0.4
BMSM	0.92	26	P	53	40.54	0.8
SAO	0.94	352	eP	53	39.77	-0.4
		eS	53	52.93		
HSFM	1.00	350	P	53	41.36	0.3
LTR	1.05	359	P	53	42.15	0.1
OCR	1.10	351	P	53	43.54	0.7
YEG	1.15	110	P	53	42.93	-0.8
BCH	1.17	123	eP	53	43.47	-0.7
		eS	54	01.78		
HGWM	1.22	346	P	53	44.00	-0.9
JBZM	1.25	341	P	53	44.93	-0.5
SCCM	1.27	134	P	53	44.74	-1.0
CBO	1.32	346	P	53	45.47	-1.1
ADR	1.36	348	P	53	46.29	-0.9
CRGC	1.40	114	P	53	46.77	-1.2
COE	1.46	348	eP	53	48.04	-0.6
PKM	1.52	127	P	53	48.24	-1.4
ARN	1.53	353	eP	53	48.46	-1.2
FRI	1.72	47	P	53	52.11	-0.3
MARC	1.79	117	P	53	52.54	-0.9
ABL	1.95	119	eP	53	54.30	-1.6
ECF	2.26	127	P	53	58.95	-1.4
CMB	2.32	18	eP	53	59.94	-1.1
WHFM	2.39	92	P	54	01.59	-0.6
PYR	2.43	120	P	54	01.63	-1.2
SWM	2.47	116	P	54	04.84	1.5
WWPM	2.60	91	P	54	05.07	-0.1
MEMM	2.63	45	ePn	54	05.34	-0.1
NTYM	2.78	337	eP	54	06.42	-1.2
SSK	3.36	118	eP	54	14.81	-1.2

41 obs. associated

? JAN 30, 1994 18h 15m 44.73  $\pm$  3.90s  
 33.885 S  $\pm$  15.0km 179.079 W  $\pm$  39.3km  
 DEPTH = 164.7  $\pm$  24.2 km  
 4.7mb ( 4 obs.)

SOUTH OF KERMADEC ISLANDS (179)

MRW	8.84	212	e(P)	17	50.00	-0
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30d 18h

OBN 147.41 322 iPKPc 35 12.00 5.0X  
1.5s 49.0nm  
e 35 51.00  
e 36 05.00  
KAF 147.47 338 iPKP 35 12.00 5.1X  
0.5s 5.30nm  
NUR 149.21 337 iPKP 35 17.00 7.3X  
0.5s 13.90nm  
LIC 151.93 167 PKP 35 26.46 11.3X  
0.7s 3.50nm  
NB2 152.02 349 PKP 35 23.90 9.9X  
0.5s 1.30nm  
KIC 152.11 168 PKP 35 27.58 12.1X  
0.7s 13.50nm  
TIC 152.34 167 PKP 35 26.26 10.5X  
1.0s 4.50nm  
HFS 152.44 346 ePKP 35 24.10 9.6X  
0.5s 2.50nm  
S.D. = 1.3 on 14 of 22 obs.  
JAN 30, 1994 19h 06m 07.20± 0.22s  
42.752 N ± 1.6km 111.124 W ± 3.0km  
DEPTH = 5.0km (geophysicist)  
EASTERN IDAHO (457)  
ML 3.2 (GS).  
ALPW 0.41 13 eP 06 15.50 0.1  
S 06 22.17  
CHOI 0.56 353 P 06 18.52 0.0  
S 06 26.82  
BEAW 0.62 37 P 06 20.03 0.3  
REDW 0.64 18 ePd 06 20.23 0.2  
S 06 29.59  
TPAW 0.75 10 P 06 21.68 -0.5  
SNOW 0.76 21 P 06 22.50 -0.1  
PINI 0.77 348 P 06 22.57 -0.3  
S 06 33.49  
MUDI 0.87 2 P 06 24.67 0.2  
AVOW 0.89 15 P 06 24.08 -0.8  
PTI 0.92 278 eP 06 25.29 -0.2  
eS 06 38.57  
LOHW 0.94 24 ePd 06 25.66 -0.1  
TARW 1.02 5 P 06 27.14 0.1  
MOOW 1.03 15 P 06 26.90 -0.5  
HAYW 1.06 33 P 06 28.66 0.8  
GRAI 1.07 352 P 06 28.58 0.6  
HHAI 1.07 301 eP 06 27.94 0.1  
eS 06 43.75  
TRXW 1.08 22 P 06 28.22 0.1  
RAMW 1.14 6 P 06 29.12 -0.1  
BW06 1.16 88 eP 06 29.00 -0.4  
COLW 1.24 14 P 06 31.21 0.3  
PACW 1.24 22 ePd 06 31.36 0.5  
ANGW 1.28 32 P 06 32.28 0.7  
STEW 1.34 14 P 06 32.41 -0.1  
S 06 51.83  
HVU 1.56 232 eP 06 34.85 -1.0  
DAU 2.34 182 eP 06 48.49 1.2  
DUG 2.85 207 eP 06 53.81 -0.6  
EMUT 2.94 175 eP 06 56.07 0.3  
SRU 3.67 173 (P) 07 06.05 0.1  
MSU 4.31 191 eP 07 15.70 0.6  
PV09 4.51 160 eP 07 18.38 0.3  
PV08 4.58 155 eP 07 19.09 0.1  
FV10 4.65 159 ePn 07 19.96 0.0  
GOL 5.30 123 (Pn) 07 28.52 -0.7  
RSSD 5.34 73 ePn 07 28.55 -1.2  
S.D. = 0.5 on 34 of 34 obs.  
JAN 30, 1994 19h 17m 13.15± 6.17s  
10.176 S ± 56.9km 119.851 E ± 30.8km  
DEPTH = 33.0km (normal)  
4.3mb ( 2 obs.)  
SUMBA REGION, INDONESIA (287)  
KNA 10.30 123 eP 19 42.20 0.4  
MBL 10.92 180 eP 19 48.50 -1.8  
eS 21 45.00  
MTN 11.37 105 eP 19 55.00 -1.4  
eS 22 01.00  
MEEK 16.42 184 eP 21 03.00 0.2  
eS 23 53.50  
WB2 17.03 126 iPc 21 11.00 0.5  
0.4s 7.40nm 4.2mb  
eS 24 17.60  
ASPA 18.97 137 iPc 21 35.70 1.2  
0.4s 10.60nm 4.4mb

MRWA 19.28 190 eP 21 39.00 0.8  
eS 24 59.50  
MUN 21.96 188 eP 22 16.00 10.1X  
eS 26 03.00  
S.D. = 1.4 on 7 of 8 obs.  
JAN 30, 1994 19h 29m 55.48± 0.29s  
46.554 N ± 3.1km 1.163 E ± 2.7km  
DEPTH = 13.9 ± 2.3 km  
FRANCE (538)  
ML 2.9 (LDG).  
LSF 0.40 140 Pg 30 03.40 -0.4  
Sg 30 08.30  
TCF 0.77 110 Pg 30 10.20 0.0  
Sg 30 20.30  
MFF 0.90 274 Pg 30 12.90 0.5  
MAF 1.03 108 Pg 30 14.90 0.4  
Sg 30 27.50  
BGF 1.16 89 Pg 30 17.30 0.5  
Sg 30 32.30  
HYF 1.24 54 Pn 30 18.40 0.3  
Sg 30 34.00  
RJF 1.27 169 Pg 30 19.00 0.3  
Sg 30 36.20  
AVF 1.53 80 Pn 30 22.40 0.1  
Pg 30 23.80  
Sg 30 42.10  
LFF 1.64 191 Pn 30 23.70 -0.3  
Pg 30 26.60  
Sg 30 48.60  
SSF 1.69 72 Pn 30 24.70 0.0  
Pg 30 26.40  
Sg 30 47.20  
CAF 1.75 158 Pn 30 25.30 -0.3  
Pg 30 28.50  
Sg 30 50.20  
SMF 1.85 86 Pn 30 26.60 -0.4  
Pg 30 29.50  
Sg 30 52.40  
LPO 1.87 179 Pn 30 27.50 0.2  
Pg 30 31.20  
Sg 30 54.60  
LBF 1.98 76 Pn 30 28.60 -0.4  
Pg 30 32.40  
Sg 30 56.00  
LOR 1.98 68 Pn 30 29.00 0.0  
Pg 30 31.90  
Sg 30 56.30  
LPF 2.11 315 Pn 30 30.90 0.2  
Pg 30 35.30  
Sg 31 01.80  
LDF 2.22 337 Pn 30 32.20 -0.2  
Pg 30 37.80  
Sg 31 05.40  
GRR 2.29 324 Pn 30 32.90 -0.5  
Pg 30 38.50  
Sg 31 07.20  
FLN 2.47 334 Pn 30 35.90 0.0  
Pg 30 41.30  
Sg 31 12.80  
S.D. = 0.3 on 19 of 19 obs.  
JAN 30, 1994 20h 10m 01.93± 1.95s  
24.009 N ± 9.7km 141.468 E ± 15.9km  
DEPTH = 152.6 ± 17.8 km  
4.0mb ( 7 obs.)  
VOLCANO ISLANDS REGION (213)  
WKYJ 11.39 335 eP 12 46.30 5.1X  
IIDJ 11.84 346 eP 12 47.60 0.5  
TKSJ 11.87 329 eP 12 52.80 5.5X  
CHJJ 12.19 350 eP 12 50.00 -1.5  
eS 14 55.50  
KAKJ 12.21 355 eP 12 50.40 -1.3  
eS 14 57.90  
KUMJ 12.64 315 P 13 02.30 4.8X  
MAT 12.80 348 (P) 13 00.00 0.5  
eS 15 13.00  
MTMJ 12.93 347 eP 13 01.70 0.5  
SHNJ 13.54 320 P 13 11.30 2.4X  
SNY 23.18 324 eP 14 57.80 2.0  
CN2 23.72 330 eP 15 02.00 1.0  
TIA 24.24 306 ePc 15 06.40 0.3  
WB2 44.23 190 iPc 17 57.40 -0.3  
0.5s 8.00nm 4.6mb  
WRA 44.23 190 P 17 57.80 0.1

0.7s 2.70nm 4.0mb  
DZM 51.84 150 iPc 18 57.10 0.4  
IMA 58.13 26 (P) 19 42.59 1.0  
1.0s 2.25nm 4.0mb  
FBA 60.36 28 (P) 19 56.70 0.1  
0.8s 3.10nm 4.3mb  
MBC 69.03 15 eP 20 53.00 0.7  
YKA 75.16 28 eP 21 27.80 -0.9  
0.6s 1.30nm 3.8mb  
RES 75.20 13 eP 21 29.00 0.2  
1.0s 3.00nm 4.0mb  
NEW 79.62 42 eP 21 54.79 1.2  
KAF 79.97 334 eP 21 54.10 -1.0  
NUR 81.52 333 eP 22 01.90 -1.3  
LRM 83.57 43 eP 22 14.50 0.1  
HFS 85.99 337 eP 22 23.50 -2.4  
0.4s 0.90nm 4.0mb  
LPAZ 151.21 80 PKP 29 40.40 6.6X  
LPB 151.33 81 ePKP 29 46.00 12.3X  
CCH 153.38 81 ePKP 29 24.00 -12.5X  
S.D. = 1.1 on 21 of 28 obs.  
JAN 30, 1994 20h 46m 21.05± 1.49s  
38.778 N ± 6.7km 27.220 E ± 18.4km  
DEPTH = 5.0km (geophysicist)  
TURKEY (366)  
ML 3.0 (ISK).  
IZM 0.38 175 iPg 46 28.60 -0.1  
iSg 46 34.10  
DST 1.37 52 iPn 46 46.60 -0.2  
EDC 1.64 17 ePn 46 51.00 0.3  
KHL 1.86 103 ePn 46 54.30 0.3  
IZI 2.34 47 ePn 47 00.80 0.0  
YLV 2.44 42 ePn 47 02.00 -0.3  
S.D. = 0.4 on 6 of 6 obs.  
JAN 30, 1994 20h 55m 45.58± 0.77s  
31.295 S ± 12.5km 68.665 W ± 13.6km  
DEPTH = 100.0km (geophysicist)  
SAN JUAN PROVINCE, ARGENTINA (137)  
RTLL 0.17 102 e(P) 56 00.00 -0.2  
RTCB 0.22 211 e(P) 56 00.20 -0.2  
S 56 11.50  
RTCV 0.57 169 e(P) 56 02.50 0.3  
S 56 15.00  
RTRS 1.31 328 iPd 56 10.00 0.1  
S 56 28.00  
RTPR 2.10 62 eP 56 20.00 0.0  
S.D. = 0.3 on 5 of 5 obs.  
JAN 30, 1994 20h 57m 43.48± 0.15s  
29.184 S ± 5.2km 177.589 W ± 3.6km  
DEPTH = 60.8km ( 10 depth phases)  
5.6mb ( 60 obs.)  
KERMADEC ISLANDS, NEW ZEALAND (178)  
Mw 6.0 (HRV). Ms 5.8 (BRK).  
Mo=1.6\*10\*\*18 Nm (PPT). Felt on  
Raoul Island.  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 48S, \*\*C  
Centroid Location:  
Origin Time 20:57:47.9 0.2  
Lat 29.05S 0.02 Lon 177.05W 0.01  
Dep 43.6 1.0 Half-duration 2.4  
Moment Tensor; Scale 10\*\*18 Nm  
Mrr=-0.93 0.01 Mtt= 0.09 0.02  
Mff=-1.02 0.02 Mrt= 0.14 0.02  
Mrf= 0.58 0.02 Mtf=-0.34 0.01  
Principal Axes:  
T Val= 1.09 Plg=75 Azm=279  
N 0.18 2 15  
P -1.27 15 105  
Best Double Couple:Mo=1.2\*10\*\*18  
NP1:Strike=198 Dip=30 Slip= 93  
NP2: 14 60 88  
RAO 0.30 257 iPc 57 55.80 2.1  
SVA 11.60 341 eP 00 29.70 1.2  
VUN 11.70 341 eP 00 31.00 1.1  
SGE 12.25 339 eP 00 37.50 0.1  
SNZO 13.63 205 eP 00 55.50 0.2  
eS 03 14.00  
DZM 16.04 293 iPc 01 33.60 7.0X  
AFI 16.13 21 eP 01 22.00 -5.8X



BKM	17.31	308	iPc	01	46.40	3.9X	BAG	74.93	299	ePc	09	19.00	-1.3	e	10	34.00				
ARMA	26.70	260	iPd	03	21.60	2.6X	KAKJ	76.21	326	eP	09	25.30	-1.6	iSS	20	46.00				
	0.5s	62.00nm				5.4mb	CHJJ	76.67	325	eP	09	28.00	-1.5	CMB	85.62	42	eP	10	15.71	-0.8
RIV	26.99	252	iPd	03	24.90	3.5X	IIDJ	76.78	324	eP	09	29.10	-1.0	0.8s	40.78nm		5.6mb			
	0.7s	904.11nm				6.5mb	WKYJ	77.04	322	P	09	32.40	0.8	Z	21s	4.59um	5.8Msz			
Z	19s	0.07um				3.2MszX	MAT	77.45	325	iPc	09	32.10	-1.7	epP	10	33.22	62km			
AFR	27.97	72	iPd	03	30.80	0.5		eS	19	23.00				NJ2	85.73	310	Pd	10	19.00	1.9
	1.9s	89.80nm				5.1mb	KAGJ	77.51	317	P	09	34.30	0.1	1.0s	98.00nm		5.9mb			
PAE	28.07	72	iPd	03	31.70	0.4	MTMJ	77.69	325	eP	09	33.90	-1.3	Z	22s	0.61um	5.0Msz			
	1.3s	114.80nm				5.3mb	TKSJ	77.71	321	P	09	35.70	0.5	pP	10	31.50	41kmX			
PPT	28.12	72	iPd	03	32.10	0.3	OFUJ	77.81	329	P	09	35.60	-0.1	GLA	85.83	48	eP	10	17.94	0.3
	0.9s	83.90nm				5.4mb	TSRJ	77.83	323	eP	09	35.80	0.0	epP	10	35.76	64km			
PPN	28.26	72	iPd	03	33.40	0.4	SYO	78.40	193	ePc+	09	38.60	0.1	GSC	85.98	46	eP	10	18.36	-0.1
	0.7s	33.10nm				5.1mb	KUMJ	78.50	318	P	09	39.60	0.0	ORV	86.02	40	P	10	17.70	-0.7
TVO	28.28	73	iPd	03	33.80	0.5	YONJ	78.92	321	P	09	44.20	2.3	WDC	86.15	39	eP	10	18.51	-0.5
	1.2s	168.40nm				5.5mb	SHNJ	79.48	319	P	09	44.10	-0.8	0.9s	48.12nm		5.6mb			
CAN	28.82	249	eP	03	39.50	1.5	HOJ	79.82	332	eP	09	48.00	1.5	Z	19s	2.47um	5.6Msz			
	i	03	41.20				KUSJ	79.83	333	eP	09	49.00	2.4	epP	10	35.53	60km			
BWA	29.27	251	eP	03	41.10	-1.0	KUR	80.46	336	(P)	09	52.00	2.1	LGPM	86.22	38	P	10	18.60	-0.9
	i	03	42.90				ASAJ	81.51	332	eP	09	56.60	1.2	MEMM	86.22	43	eP	10	20.37	1.0
	ipP	03	47.10			21kmX	SMY	81.89	355	P	10	10.00	12.9X	MTUM	86.24	43	eP	10	19.55	-0.3
PMO	30.81	69	iPd	03	55.90	0.2	SSE	83.58	311	P	10	03.00	-3.4X	SNG	86.35	280	eP	10	23.00	2.4X
	1.4s	119.40nm				5.4mb	1.0s	19.00nm					5.1mb	MRCM	86.49	43	eP	10	21.34	0.3
VAH	30.90	70	iPd	03	56.70	0.1	Z	20s	2.30um				5.6Msz	MIN	86.50	39	ePd	10	31.71	10.8X
	1.1s	92.80nm				5.4mb	N	20s	1.70um					Z	17s	3.00um	5.8MszX			
TPT	31.05	69	iPd	03	58.00	0.2	E	20s	1.90um					eLR	36	41.71				
	1.1s	73.30nm				5.3mb	pP	10	18.00				52km	BONR	86.79	43	eP	10	22.90	0.3
RUV	31.13	70	iPd	03	58.70	0.1	esS	20	40.00					YBH	86.86	38	eP	10	23.41	0.9
	1.2s	105.30nm				5.5mb	YSS	83.88	334	iPd	10	08.00	0.5	1.6s	90.00nm		5.7mb			
TOO	31.79	245	iPd	04	06.80	2.6X	Z	18s	2.30um				5.6Msz	Z	22s	2.30um	5.5Msz			
	iPcP	06	56.20				N	18s	1.10um					epPc	13	43.52				
	i	07	05.00				E	18s	1.10um					eSKS	20	49.52				
STK	35.12	255	iPd	04	33.90	0.8	e	10	17.30				29kmX	eS	21	01.52				
	0.8s	23.50nm				5.2mb	eP	21	38.00					epS	21	22.52				
ADE	37.25	250	e(P)	04	50.20	-0.9	BCH	83.88	44	eP	10	08.44	0.4	ePS	22	13.52				
QIS	39.60	273	eP	05	12.00	1.2	PHAM	84.13	43	eP	10	09.35	0.2	ePPS	22	52.52				
LAT	40.19	297	e(P)	05	16.50	0.8	SAO	84.14	42	P	10	20.00	10.9X	eSS	26	55.52				
ASPA	43.55	265	iPd	05	42.70	-0.4	Z	18s	6.10um				6.0Msz	eSSS	30	25.52				
	1.1s	121.00nm				5.6mb	ABL	84.19	45	eP	10	10.23	0.5	eLQ	33	17.52				
Z	22s	14.00um				5.8Msz	COE	84.34	42	eP	10	10.87	0.8	eLR	36	55.52				
	e	07	36.90			686kmX	GZH	84.34	300	P	10	12.00	1.6	LBFM	87.03	39	eP	10	23.20	-0.4
WB2	44.41	271	eP	05	49.10	-1.1	Z	26s	1.41um				5.2MszX	TNP	87.52	43	eP	10	25.76	-0.3
	0.8s	130.10nm				5.8mb	eS	20	32.00					0.8s	35.31nm		5.6mb			
WRA	44.42	271	P	05	49.80	-0.4	MHC	84.42	42	ePc	10	10.19	-0.5	KVN	87.63	42	eP	10	26.53	0.0
	0.7s	47.70nm				5.4mb	Z	17s	6.00um				6.0MszX	MDJ	87.83	325	eP	10	27.50	0.5
WB5	44.42	271	eP	05	49.50	-0.7	1.0s	50.00nm					5.5mb	Z	27s	48.00nm		5.6mb		
FORT	46.71	254	eP	06	07.20	-1.0	eS	20	28.19					WHN	87.90	307	Pc	10	29.20	1.5
SBA	49.27	184	eP	06	33.00	5.5X	eS	21	05.19					1.0s	45.00nm		5.6mb			
	S	13	48.00				ePPS	22	24.19					Z	24s	3.82um		5.7MszX		
MTN	50.16	278	eP	06	34.20	-0.9	eLQ	32	25.19					SNY	89.09	320	Pc	10	32.00	-1.1
KNA	50.95	273	eP	06	40.80	-0.2	eLR	36	04.19					1.0s	50.00nm		5.8mb			
	0.8s	81.00nm				5.8mb	PET	84.44	346	eP	10	08.00	-2.2	Z	25s	2.24um		5.5MszX		
COOL	52.47	252	eP	06	51.50	-0.9	BKS	84.44	41	eP	10	10.61	0.0	S	21	20.00				
MHA	53.36	26	(P)	06	57.97	-0.9	Z	18s	80.00nm				5.7mb	RTCB	89.34	126	ePd	10	30.00	-4.9X
HON	53.65	23	P	07	10.00	9.0X	6.00um						6.0Msz	CN2	89.39	323	eP	10	33.80	-0.7
Z	19s	1.07um				4.9Msz	eSKS	20	44.37					1.0s	84.00nm		6.0mb			
DHH	53.66	23	eP	06	59.03	-2.1	eS	20	52.37					Z	24s	1.34um		5.3MszX		
KLB	55.08	250	eP	07	09.50	-2.1	eSS	26	01.37					N	20s	0.83um				
	1.0s	88.00nm				5.7mb	eLQ	32	26.37					E	20s	0.50um				
NWAO	55.17	248	iPd	07	11.10	-1.0	eLR	35	40.37					epP	10	47.00		44kmX		
MEEK	55.81	256	eP	07	15.20	-1.7	ARN	84.49	42	eP	10	10.81	-0.1	eS	21	20.00				
	0.9s	74.00nm				5.7mb	NTYM	84.56	40	eP	10	11.08	0.0	TIA	89.41	313	eP	10	35.70	0.9
GUA	55.81	314	eP	07	15.20	-1.7	PLM	84.70	47	(P)	10	12.53	0.3	Z	28s	3.24um		5.6MszX		
	1.0s	264.00nm				6.2mb	SSK	84.72	46	eP	10	11.91	-0.4	E	27s	0.34um				
GUMO	55.88	314	eP	07	14.20	-3.2X	QIZ	84.80	295	eP	10	13.60	0.8	ARUT	89.65	45	P	10	36.50	0.4
	1.4s	229.40nm				6.0mb	PEC	84.85	47	eP	10	12.35	-0.4	RTL	89.66	126	ePd	10	36.30	-0.1
BAL	56.22	251	eP	07	17.00	-2.8X	0.9s	37.67nm					5.5mb	CFA	89.67	126	e(P)	10	36.80	0.4
MUN	56.25	249	eP	07	18.20	-1.7	HMR	84.88	41	eP	10	13.70	1.0	NNT	89.79	284	eP	10	36.60	-0.3
	1.0s	100.00nm				5.8mb	KMPM	85.17	38	eP	10	15.04	0.7	BMW	89.91	34	eP	10	36.86	-0.1
CSY	56.38	207	iPc	07	19.50	-0.9	ISA	85.18	45	eP	10	14.42	0.0	SHW	90.21	35	P	10	38.70	0.3
	0.6s	244.10nm				6.4mb	0.9s	57.48nm					5.7mb	VBV	90.48	36	P	10	38.40	-1.2
MBL	56.63	263	eP	07	20.60	-2.2	Z	18s	3.18um				5.7Msz	LOE	90.52	290	iPc	10	42.00	1.7
	0.8s	127.00nm				6.0mb	epP	10	31.62				61km	LON	90.81	35	P	10	40.00	-1.1
MRWA	57.22	252	eP	07	24.50	-2.3	SDN	85.45	10	P	10	20.00	4.8X	GMW	90.88	34	eP	10	41.50	0.2
	0.8s	83.00nm				5.9mb	Z	19s	1.56um				5.4Msz	MSU	90.88	46	eP	10	41.95	0.1
DAV	65.46	294	eP	08	21.00	-1.5	ARC	85.52	38	ePd	10	27.42	11.5X	NST	90.98	287	iPc	10	45.00	2.6X
GQP	71.99	298	eP	09	00.00	-2.9X	Z	22s	1.90um				5.4Msz	GYA	91.26	300	iPc	10	45.40	1.7
LEM	73.44	271	ePc	09	10.80	-0.9	eSS	26	21.42					1.0s	33.00nm		5.7mb			
	1.0s	230.00nm				6.1mb	eSSS	29	53.42					Z	28s	1.56um		5.3MszX		
	e(S)	19	45.00				eLQ	32	55.42					PP	14	28.00				
QCP	73.49	298	eP	09	19.00	7.3X	eLR	36	04.42					S	21	40.00				
MAW	73.57	200	iPd	09	18.60	7.3X	VLA	85.60	325	iPd	10	17.00	0.8	RMW	91.30	34	eP	10	43.34	0.0
	0.9s	47.21nm				5.4mb	1.0s	65.00nm					5.7mb	LTX	91.43	57	eP	10	43.18	-1.2
</																				



30d 21h

Z	19s	2.53um	5.7MsZ	SS	29	49.20	SDF	139.11	346	ePKP	16	56.00	-8.2X
		epP	11 01.78	LQ	39	07.00	TAB	142.66	295	ePKP	17	05.00	-6.7X
SLKM	92.14	13 eP	10 45.83	LR	43	46.30			i		17	08.00	
SRU	92.27	46 P	10 48.00	ACO	98.50	53 iPd	11 17.40	1.0	GRO	142.78	304	ePKP	17 08.00 -3.4X
BJI	92.31	315 eP	10 48.00	RSSD	99.10	44 eP	11 17.90	-1.3		1.0s	130.00nm		
	1.0s	28.00nm	5.6mb		1.0s	31.42nm		5.8mb	KAF	143.52	341	iPKP	17 07.50 -4.6X
Z	24s	2.25um	5.5MsZ	YAK	100.24	338 ePdiff11	24.00	0.2		0.6s	19.40nm		
					0.8s	16.00nm		5.7mb	MOS	143.53	327	ePKP	17 09.00 -3.3X
CP2	92.45	12 P	10 46.80			e	15 32.00			e		17 15.00	
CRP	92.47	12 eP	10 46.24	CIT	100.71	324 ePdiff11	30.00	3.8X	QASM	143.57	275	ePKP	17 11.67 -1.8
HVU	92.50	43 P	10 48.10	MIAR	101.45	57 Pdiff+11	33.16	3.3X	MTA	143.63	302	iPKPc	17 10.00 -2.9X
EMUT	92.51	45 P	10 48.80		Z	20s	1.96um	5.6MsZ		0.6s	110.00nm		
ALQ	92.54	51 P	10 49.00			SKS	22 07.45		PUL	144.04	336	ePKPd	17 11.00 -2.1
	0.9s	20.96nm	5.6mb			SP	24 46.42			1.0s	200.00nm		
Z	19s	1.83um	5.5MsZ	GTA	102.68	308 ePdiff11	36.70	1.3		Z	20s	1.80um	5.8MsZ
		pP	11 06.70		1.2s	10.00nm		5.4mb		N	20s	1.30um	
DAU	92.59	44 eP	10 49.94		Z	26s	2.29um	5.6MsZ			e	17 22.00	
BDT	92.69	288 eP	10 51.20		E	17s	0.90um		NSS	144.12	353	ePKP	17 09.46 -3.6X
PV10	92.78	47 P	10 50.20				PP	15 50.00	OBN	144.36	326	iPKPc	17 17.00 3.2X
		pP	11 06.50	BOD	103.68	329 ePdiff11	53.90	14.7X		1.5s	240.00nm		
PV09	92.79	47 P	10 50.30	YKA	104.19	25 ePdiff11	39.70	-1.7		Z	24s	2.20um	5.8MsZ
SIT	93.02	22 P	11 00.00		0.9s	0.60nm		4.5mb X		N	22s	1.60um	
	Z	19s	0.61um	OXF	104.52	58 Pdiff	11 50.00	6.5X		E	20s	1.10um	
PV08	93.15	47 P	10 51.60		Z	19s	1.10um	5.4MsZ			ipP	17 35.00	
TIY	93.33	312 eP	10 53.40	ZAK	105.49	319 ePdiff11	52.00	4.6X			isP	17 51.00	
	Z	26s	4.24um	GOGA	108.57	62 PKP	16 20.00	12.9X			eP	20 20.00	
E	26s	6.32um	5.8MsZ		Z	21s	1.63um	5.6MsZ			(SKS)	24 24.00	
		pP	11 07.50	MYNC	108.71	60 PKP	16 20.00	12.6X			ePS	31 12.00	
		SKS	21 20.00		Z	18s	1.20um	5.5MsZ			ePPS	33 20.00	
		S	21 48.50	GBA	109.46	275 PKP	16 09.00	-0.2			eSS	39 30.00	
PMR	93.35	13 P	11 00.00	HYB	110.14	279 ePKP	16 10.00	-0.5			eSSS	43 44.00	
	Z	19s	1.81um	MBC	111.15	13 PKP	16 13.80	3.1X			LR	50 00.00	
DPW	93.37	35 P	10 51.20			p'p'df	16 31.20		UQSK	144.52	274	ePKP	17 14.00 -1.1
TTA	93.40	10 eP	10 52.05			SKPdf	19 41.40		PYA	144.54	306	iPKPc	17 13.00 -1.5
	0.8s	6.78nm	5.1mb			SKSdf	23 15.40			1.0s	100.00nm		
PTI	93.40	42 eP	10 53.66			SKSdf	23 16.60		NUR	145.29	341	iPKP	17 12.70 -2.5
CHTO	93.51	289 ePc	10 56.00			SKSdf	23 16.90		MOL	146.44	356	ePKP	17 16.52 -0.5
	1.0s	14.75nm	5.4mb			SS	32 17.50		SOC	147.00	306	ePKP	17 20.00 1.5
KMI	93.59	297 Pd	10 57.00			SS	32 18.00		NB2	147.60	352	PKP	17 18.10 -0.9
	1.0s	20.00nm	5.5mb			SSS	36 34.20			1.0s	86.70nm		
Z	30s	2.30um	5.5MsZ			SSS	36 36.40		NRAO	147.86	352	PKP	17 20.60 1.2
		pP	11 05.40	WMQ	112.75	309 PKP	16 14.40	-0.4	NREO	147.86	352	PKP	17 32.40 13.0X
HHAI	93.66	42 eP	10 54.81		Z	20s	1.07um	5.4MsZ			PP	21 04.00	
XAN	93.67	307 eP	10 55.00	CEH	112.83	61 PKP	16 30.00	14.9X			SS	39 53.50	
	1.0s	31.00nm	5.7mb		Z	19s	1.31um	5.5MsZ			SSS	46 21.50	
Z	25s	1.98um	5.5MsZ			1.31um	16 30.00	13.6X	HFS	148.12	349	ePKP	17 19.70 -0.1
		SKS	21 24.00	MCWV	113.54	57 PKP		5.8MsZ		0.9s	196.50nm		
NEW	94.18	36 P	11 10.00		Z	18s	2.25um	10.2X	Z	19s	1.05um	5.6MsZ	
	Z	20s	2.65um	YSNY	115.35	54 PKP	16 30.00	-0.8		LR	09 46.00		
BALM	94.37	16 eP	10 56.63		Z	18s	1.35um	-11.9X	ANN	148.33	309	ePKP	17 24.00 3.4X
BW06	95.02	43 P	11 00.00	NDI	115.66	290 ePKPc	16 20.00			0.8s	80.00nm		
	1.0s	11.55nm	5.3mb	CER	115.77	196 ePKP	16 09.00	-1.0			e	24 11.00	
LRM	95.14	40 eP	11 01.00		0.5s	25.00nm			KONO	149.15	353	iPKPd	17 25.40 4.0X
		e	11 22.20	RES	115.98	17 ePKP	16 19.00	-1.0	MNK	149.26	331	ePKP	17 22.00 0.3
HHC	95.65	314 P	11 05.00		0.9s	4.00nm			GAZ	149.93	295	iPKP	17 28.40 5.1X
	0.9s	20.00nm	5.6mb	BINY	117.09	55 PKP	16 30.00	6.9X	KVT	150.22	303	iPKP	17 29.00 5.3X
Z	30s	5.01um	5.8MsZ		Z	18s	1.75um	5.7MsZ	SIM	150.44	311	ePKP	17 30.00 6.1X
E	30s	5.65um				1.75um	16 26.00	1.1		Z	30s	2.80um	5.9MsZ
CD2	95.74	302 iPc	11 06.30	BLF	117.74	203 ePKP	16 26.00	1.1	BNN	150.78	298	iPKP	17 30.00 5.2X
	1.0s	52.00nm	6.0mb	LSCT	118.94	56 PKP	16 40.00	13.4X	MDRJ	150.92	279	PKPc	17 32.84 7.7X
Z	28s	1.56um	5.3MsZ		Z	20s	2.38um	5.8MsZ	BCAO	151.02	215	iPKPc	17 29.00 3.3X
GOL	95.89	48 eP	11 04.16	BFT	119.34	209 ePKP	16 29.00	0.9		1.0s	280.00nm		
	0.9s	8.57nm	5.3mb		0.5s	12.00nm		0.3			i	17 35.00	
GLD	96.01	48 P	11 20.00	KSH	119.90	301 ePKP	16 29.00	5.8MsZ	SHMJ	151.25	286	PKPc	17 31.70 6.2X
	Z	19s	4.47um		Z	20s	2.46um		MKRJ	151.29	283	PKPc	17 29.60 3.9X
BTO	96.49	313 eP	11 09.00		N	10s	0.68um		SHWJ	151.31	281	PKP	17 32.55 6.7X
		0.86um	1.6		E	10s	0.63um		BHL	151.36	288	PKP	17 29.00 3.3X
N	20s	0.91um		KSR	120.43	206 ePKP	16 29.50	-0.7	SRFA	151.40	278	ePKP	17 33.33 7.6X
E	20s			NIL	120.46	294 iPKPd	16 32.00	2.2	BADA	151.49	277	ePKP	17 25.67 -0.2
FBA	96.61	12 P	11 05.40		0.8s	0.02nm			MUD	152.32	352	iPKPc	17 33.20 7.0X
	0.7s	5.57nm	5.2mb			(PP)	17 34.80			1.0s	76.00nm		
IMA	96.71	10 (P)	11 07.56	LBNH	120.46	53 PKP	16 40.00	10.6X			i	17 43.00	
	1.1s	2.24nm	4.6mb		Z	21s	1.55um	5.6MsZ	COP	152.56	348	iPKP	17 28.40 1.8
WMOK	97.78	55 P	11 20.00	LBTB	121.69	205 ePKP	16 32.24	-0.2		0.8s	118.16nm		
	Z	20s	2.21um	FRB	124.15	31 ePKP	16 34.50	-1.4	BSD	152.57	344	iPKP	17 31.80 5.2X
MEO	97.94	55 iPc	11 13.30		1.0s	21.00nm				0.7s	55.00nm		
LPB	98.20	114 P	11 23.00	LMN	125.71	53 ePKP	16 39.00	-0.5	KIS	152.80	318	iPKPc	17 34.00 6.8X
		ScS	22 02.00	SVE	131.18	322 ePKPd	16 49.00	-0.6		Z	22s	2.20um	5.9MsZ
		LR	24 12.00		Z	20s	2.50um	5.9MsZ			e	17 39.00	
LZH	98.28	307 Pd	11 18.00		N	20s	1.00um				e	17 42.00	
	1.4s	28.00nm	5.6mb	DAG	131.29	6 iPKPd	16 47.80	-1.4	CSS	153.24	290	ePKP	17 36.50 8.2X
Z	22s	1.37um	5.4MsZ		0.7s	12.33nm			EKA	153.56	7	PKP	17 44.00 16.0X
E	20s	0.90um				ipP	17 28.00			0.6s	7.20nm		
		eSKS	21 52.00			i	20 17.00	1.0	CFR	154.16	315	ePKP	17 32.00 2.9X
LPAZ	98.31	114 P	11 18.50	MAIO	132.05	294 ePKP	16 53.00		VRI	154.67	318	ePKP	17 38.50 8.7X
	0.8s	2.00nm	4.7mb			i	20 17.00		UZH	155.30	327	ePKP	17 31.00 0.4
Z	28s	3.27um	5.7MsZ	ARU	132.36	321 ePKP	16 51.00	-0.8			i	17 40.00	
		S	21 56.60		Z	20s	1.50um	5.7MsZ					
		SP	24 13.80	ASH	133.18	296 ePKP	16 55.00	1.0					



MNR	155.33	318	ePKP	17 29.00	-1.9
ELL	155.78	295	ePKP	17 42.50	10.7X
SPC	155.82	331	ePKP	17 30.80	-0.8
LIC	156.11	161	PKP	17 33.43	0.7
	1.0s	16.00nm			
OKC	156.16	334	e(PKP)	17 32.00	0.3
		e		18 00.50	
KIC	156.31	162	PKP	17 33.74	0.7
	1.0s	27.50nm			
TIC	156.51	161	PKP	17 34.01	0.7
	1.0s	11.50nm			
CLL	156.52	343	iPKP	17 31.60	-0.5
	2.8s	90.00nm			
BRG	156.66	341	iPKP	17 33.40	1.0
	1.9s	44.00nm			
		i		18 02.20	
PSZ	156.93	329	e(PKP)	17 33.60	0.7
WTS	156.98	353	ePKP	17 33.00	0.3
	0.9s	18.90nm			
		e		17 46.50	
		e		18 00.50	
PRU	157.27	339	ePKP	17 28.20	-4.9X
	1.0s	28.90nm			
		e		17 35.50	
		i		18 04.40	
MOX	157.47	345	ePKP	17 33.90	0.5
Z	21s	1.30um			5.7Msz
		i		18 05.00	
SRO	157.70	331	ePKP	17 34.20	0.5
ZST	157.89	333	ePKP	17 32.60	-1.3
VKA	158.14	334	ePKP	17 34.00	-0.2
		e		18 08.00	
ENN	158.28	354	ePKP	17 35.50	1.2
	0.8s	20.20nm			
		e		17 56.00	
		e		18 07.00	
KHC	158.33	340	ePKP	17 34.50	0.0
	1.1s	10.90nm			
Z	22s	3.60um			6.2Msz
N	22s	2.30um			
E	22s	1.10um			
		i		18 09.30	
		e		18 33.50	
GRF	158.45	344	ePKP	17 32.10	-2.5
Z	24s	1.80um			5.8MszX
		e		17 46.20	
		e		18 08.90	
TNS	158.49	349	ePKPc	17 46.60	11.9X
		ePKPab18		08.50	
GEC2	158.54	339	PKP	17 34.00	-0.8
	1.6s	11.09nm			
		e		17 38.90	
		e		17 46.70	
		e		17 50.00	
KDS	158.59	138	iPKP	17 36.50	0.8
LKO	159.07	157	PKP	17 37.42	1.1
	1.0s	15.00nm			
VAY	159.62	312	ePKP	17 33.30	-2.8X
	0.8s	80.00nm			
		i		18 15.00	
SKO	160.00	315	ePKP	17 35.00	-1.5
	1.1s	8.00nm			
		i		18 17.70	
		i		18 57.20	
		iPP		22 03.00	
KBA	160.21	337	iPKPc	17 35.70	-1.1
		i		18 17.10	
FLN	160.32	6	ePKP	17 36.20	-0.4
	0.9s	18.65nm			
Z	28s	1.25um			
LDF	160.52	5	ePKP	17 36.20	-0.6
	1.5s	36.05nm			
WTTA	160.57	341	iPKP	17 47.10	10.0X
		i		18 17.90	
GRR	160.66	7	ePKP	17 36.50	-0.4
	1.3s	49.80nm			
LJU	160.66	334	ePKP	17 37.00	0.0
		ePKPab18		18.50	
SQTA	160.73	342	iPKPc	17 42.40	5.2X
		i		18 19.80	
OHR	160.87	313	ePKP	17 37.00	-0.4
VOY	160.91	335	ePKP	17 37.20	-0.2
		ePKPab18		19.40	
HAI	160.96	352	ePKP	17 36.70	-0.6
	1.3s	15.90nm			
Z	23s	1.80um			
LPF	160.99	7	ePKP	17 37.00	-0.2



SWI	5.98	10	ePc	29	33.20	-0.1
			iS	30	33.00	
MTN	6.08	172	eP	29	40.20	5.4X
	0.2s	622.00nm				6.9mb X
			eS	30	48.00	
KNA	9.02	189	eP	30	15.60	-0.1
	0.2s	98.00nm				6.6mb X
			eS	31	58.80	
WB2	13.67	163	iPc	31	17.30	-1.4
	0.4s	161.80nm				6.2mb X
			e	31	31.80	
			eS	33	45.00	
QIS	16.43	147	eP	31	54.20	-0.3
			eS	34	45.40	
PMG	16.96	100	eP	32	02.00	0.8
ASPA	17.15	169	iPd	32	04.40	0.8
	0.5s	81.80nm				5.1mb
			eS	35	12.00	
			i	35	37.60	
MBL	17.47	214	eP	32	12.50	4.9X
			eS	35	19.50	
FORT	23.95	185	eP	33	22.00	5.0X
STK	27.12	158	eP	33	48.50	1.7
	0.4s	1.70nm				4.0mb
			epP	34	10.90	101kmX
			eS	39	02.90	
CHTO	39.99	310	eP	35	40.00	1.7
YKA	107.46	26	ePKP	46	27.50	-1.8
	0.6s	0.30nm				
GEC2	112.41	320	ePKP	46	38.30	-1.0
	0.4s	0.63nm				
LKO	136.21	277	PKP	47	25.39	-0.3
	0.7s	3.50nm				
LPB	150.57	142	PKP	47	57.50	6.8X
LPaz	150.74	142	iPKPc	47	57.50	6.3X
	S.D. = 1.3	on	11 of	16	obs.	
-----						
? JAN	31, 1994	01h	33m	24.67±	1.00s	
	38.632 N	±18.6km		27.507 E	±24.1km	
	DEPTH = 10.0km	(geophysicist)				(366)
TURKEY						
	ML 2.9	(ISK).				
-----						
IZM	0.30	219	iPg	33	31.00	0.0
			iSg	33	36.30	
DST	1.31	42	ePn	33	48.90	0.0
EDC	1.73	9	ePn	33	55.00	0.0
IZI	2.28	41	ePn	34	03.00	0.0
	S.D. = 0.1	on	4 of	4	obs.	
-----						
% JAN	31, 1994	01h	34m	41.85±	0.66s	
	26.868 S	± 6.6km		26.832 E	± 8.1km	
	DEPTH = 5.0km	(geophysicist)				(584)
REPUBLIC OF SOUTH AFRICA						
	ML 2.4	(PRE).				
-----						
BFS	0.05	234	eP	34	43.90	0.5
			S	34	44.30	
KSR	1.00	3	eP	35	01.50	0.1
			S	35	14.00	
SWZ	1.38	257	eP	35	07.50	-0.4
			S	35	25.70	
SEK	1.61	154	iPc	35	11.20	0.0
			S	35	32.60	
SLR	1.72	49	eP	35	12.80	0.0



BAO	26.45	110	(P)	41	52.80	1.5				Pg	41	27.40			TNP	3.95	16	(Pn)	56	53.41	0.1
			i	50	14.40					Sn	41	53.70						ePg	57	04.76	
			i	50	42.20					Sg	42	07.20			CMB	4.00	340	eP	56	53.96	0.2
			i	51	06.90					Pn	41	19.70	-0.4		ARUT	5.46	49	ePn	57	15.12	0.4
RSTA	29.12	129	(P)	42	14.00	-1.3				Pg	41	29.30			MSU	6.69	49	ePg	57	54.31	22.2
LTX	46.61	323	eP	44	43.19	0.9				Sg	42	07.00			DUG	7.49	36	eP	58	10.35	27.1
			e	44	49.01	19km				Pn	41	20.50	-0.5		34 obs. associated						
MEO	48.19	332	iPc	44	54.60	0.1				Pg	41	29.10			& JAN 31, 1994 05h 20m 15.77s						
YSNY	49.95	355	ePc	45	08.64	0.7				Sg	42	08.10			34.289 N 118.619 W						
	0.3s	12.66nm		45	14.02	18km				Pn	41	19.80	-1.8		DEPTH = 3.1km						
RSNY	51.83	359	(P)	45	22.40	0.2				Pg	41	30.90			SOUTHERN CALIFORNIA (43)						
PV10	56.25	327	(P)	45	53.20	-1.9				Sg	42	09.80			<PAS-P>. ML 2.9 (PAS), 2.9 (GS).						
PV09	56.39	327	(P)	45	56.21	0.0				Pn	41	35.10	-1.5								
MSU	58.09	325	eP	46	08.56	0.5				Pg	41	51.20									
DAU	58.90	327	eP	46	13.80	-0.1				Sn	42	22.20			ABL	0.75	319	eP	20	29.85	-0.9
BW06	59.74	330	(P)	46	18.77	-0.7				Sg	42	47.40			SSK	0.77	96	eP	20	30.08	-1.1
ULM	60.66	344	eP	46	27.00	1.6				Pg	42	00.30	15.6X					eS	20	42.16	
BONR	61.40	321	(P)	46	29.08	-1.9				Sg	43	01.50			PEC	1.27	108	eP	20	38.13	-1.9
LRM	63.38	331	eP	46	44.40	0.4				Pg	42	05.70	17.0X					eS	20	55.67	
			e	46	50.60	20km				Sg	43	10.40			ISA	1.38	5	eP	20	40.63	-1.2
ORV	64.36	321	eP	46	50.88	0.7				S.D. = 0.8 on 18 of 22 obs.				BCH	1.50	307	(P)	20	42.68	-1.1	
			e	46	57.11	20km				? JAN 31, 1994 04h 30m 50.05± 5.58s				PLM	1.74	122	eP	20	44.85	-2.3	
GMW	69.84	327	(P)	47	24.99	0.3				32.421 S ±35.1km 71.804 W ±26.1km				GSC	1.80	55	eP	20	46.76	-1.3	
LIC	69.88	81	P	47	24.80	-0.7				DEPTH = 10.0km (geophysicist)				MEMM	3.38	356	ePg	21	14.52	4.0	
TIC	69.96	80	P	47	26.00	0.0				NEAR COAST OF CENTRAL CHILE (135)				BONR	3.67	4	eP				



31d 07h

S 13 24.19  
PCP 0.97 121 P 13 15.38 0.5  
FIN 1.03 144 P 13 15.23 -0.5  
IMI 1.19 162 P 13 17.65 -0.5  
S.D. = 0.5 on 14 of 14 obs.

JAN 31, 1994 07h 23m 33.88 ± 0.85s  
43.774 N ± 5.2km 8.604 E ± 7.3km  
DEPTH = 14.1 ± 4.0 km  
CORSICA (380)  
ML 2.6 (GEN), 2.3 (LDG), 1.9 (STR).

FIN 0.52 327 P 23 43.79 -0.5  
S 23 50.51  
IMI 0.53 285 P 23 44.10 -0.5  
S 23 50.96  
ROB 0.74 315 P 23 47.63 -0.5  
S 23 56.90  
PCP 0.77 357 P 23 48.80 0.3  
S 23 58.36  
SAOF 0.79 286 Pg 23 49.91 1.1  
Sg 23 58.43  
SBF 0.85 276 Pg 23 50.00 0.0  
Sg 24 00.00  
AUTN 0.88 285 Pg 23 50.80 0.3  
Sg 24 01.72  
AURF 0.93 277 Pg 23 52.27 0.9  
ENR 0.97 298 P 23 51.94 0.0  
S 24 03.41  
TOUF 1.01 284 Pg 23 53.16 0.4  
STV 1.04 297 P 23 53.15 0.0  
S 24 05.93  
PGF 1.26 167 Pn 23 57.30 0.3  
Sn 24 12.30  
PZZ 1.31 305 P 23 57.80 0.1  
S 24 13.27  
FRF 1.44 262 Pg 23 58.80 -0.6  
Sg 24 15.00  
BHB 1.44 318 P 23 59.51 0.1  
S 24 16.19  
LMR 1.59 255 Pg 24 00.30 -1.2  
Sg 24 18.40  
LRG 1.66 260 Pg 24 02.80 0.2  
Sg 24 20.80  
S.D. = 0.6 on 17 of 17 obs.

JAN 31, 1994 07h 23m 56.18 ± 0.90s  
39.445 N ± 8.6km 21.330 E ± 6.2km  
DEPTH = 5.0km (geophysicist)  
GREECE (364)  
ML 2.6 (THE).

IGT 0.78 277 ePg 24 11.38 -0.4  
eSg 24 22.11  
AGG 0.88 118 ePg 24 13.82 0.2  
eSg 24 26.60  
LIT 1.11 53 iPg 24 16.86 -0.6  
eSg 24 32.80  
FNA 1.34 1 ePb 24 21.42 0.0  
OHR 1.71 346 ePn 24 27.70 0.8  
PAIG 1.88 74 ePb 24 29.32 0.1  
SOH 2.07 48 ePn 24 32.82 0.7  
KNT 2.09 34 ePn 24 31.34 -1.0  
VAY 2.10 26 ePn 24 37.00 4.6X  
S.D. = 0.7 on 8 of 9 obs.

? JAN 31, 1994 07h 43m 58.29 ± 0.88s  
42.697 N ± 11.2km 2.060 E ± 9.1km  
DEPTH = 10.0km (geophysicist)  
PYRENEES (378)  
ML 2.7 (LDG).

VDCF 0.25 115 Pg 44 03.84 0.2  
Sg 44 07.61  
LSPF 0.28 336 Pg 44 04.08 0.0  
Sg 44 08.28  
ETER 0.71 124 eP 44 12.00 -0.3  
eS 44 22.00  
EPF 1.31 285 Pg 44 25.40 2.9X  
Sg 44 42.40  
EGRA 1.83 255 eP 44 30.00 0.0  
eS 44 50.00  
LPO 2.08 343 Pg 44 36.80 3.1X  
Sg 45 02.60  
CAF 2.23 0 Pg 44 38.30 2.5X  
Sg 45 05.50

S.D. = 0.4 on 4 of 7 obs.

JAN 31, 1994 07h 49m 15.44 ± 0.37s  
0.174 S ± 6.3km 122.962 E ± 7.2km  
DEPTH = 94.7km (2 depth phases)  
4.8mb (8 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

PCI 3.21 257 ePc 50 03.00 -1.7  
MKS 6.10 215 iPc 50 43.90 -0.9  
iS 51 50.50  
DAV 7.67 20 eP 51 08.00 1.7X  
SWI 8.33 95 ePc 51 14.00 -1.3  
eS 52 50.00  
BAG 16.65 352 eP 53 09.00 4.4X  
CVP 17.80 356 ePd 53 21.00 2.4X  
WB2 22.59 151 iPd 54 07.00 -1.9  
0.6s 26.90nm 4.8mb  
iPp 54 26.00 87km  
eS 58 09.10  
iScP 01 27.90  
PMG 25.77 112 e(P) 54 40.50 1.2  
QIS 25.99 142 eP 54 41.00 -0.2  
LOE 27.24 311 eP 54 51.00 -1.7  
NST 27.50 306 eP 54 57.00 2.0  
BDT 29.26 307 eP 55 11.00 0.1  
CHTO 30.20 310 eP 55 20.00 0.8  
GYA 30.79 331 iPc 55 25.20 0.8  
0.8s 11.00nm 4.6mb  
CD2 35.89 331 iPc 56 08.00 -0.3  
STK 36.12 153 eP 56 09.40 -0.8  
0.4s 6.90nm 4.9mb  
WKYJ 36.21 18 P 56 10.50 -0.4  
XAN 36.50 340 P 56 13.50 0.2  
1.0s 8.90nm 4.6mb  
pP 56 37.50 103km  
YONJ 36.52 15 P 56 14.20 0.7  
TSRJ 37.55 18 P 56 22.10 0.0  
CHJJ 39.00 21 P 56 32.90 -1.4  
MTMJ 39.08 19 eP 56 34.60 -0.5  
MAT 39.18 20 eP 56 34.00 -1.8  
LZH 40.22 336 eP 56 45.00 0.5  
1.4s 21.00nm 4.8mb  
Z 20s 0.25um 4.1Msz  
BJI 40.50 352 eP 57 09.00 22.5X  
ARMA 40.58 140 iPd 56 48.30 0.8  
0.5s 9.00nm 4.9mb  
BWA 41.58 148 eP 57 00.90 5.4X  
LSA 42.45 317 iPc 57 04.40 1.1  
0.6s 10.00nm 4.8mb  
CAN 42.57 148 iPc 57 04.80 1.2  
TOO 42.63 153 eP 57 06.00 1.9  
CNB 42.76 148 eP 57 06.20 1.0  
GTA 44.73 334 P 57 21.50 0.3  
1.4s 6.00nm 4.2mb  
GBA 47.12 289 P 57 51.00 10.8X  
LPB 160.14 147 PKP 09 05.00 -1.0  
LPAZ 160.32 147 PKP 09 07.70 1.2  
S.D. = 1.2 on 29 of 35 obs.

JAN 31, 1994 08h 38m 46.94 ± 1.26s  
29.552 N ± 7.9km 81.790 E ± 5.3km  
DEPTH = 35.2 ± 12.3 km  
4.7mb (22 obs.)

NEPAL (310)

NDI 4.09 259 iPnd 39 50.50 1.8  
0.5s 56.34nm  
ePg 40 07.20  
eSn 40 35.50  
eSg 40 55.50  
LSA 8.15 87 P 40 47.20 1.0  
S 42 15.80  
KSH 10.98 336 eP 41 23.60 -1.2  
0.3s 40.00nm 6.1mb X  
Z 20s 0.62um  
N 14s 1.07um  
E 14s 1.00um  
HYB 12.44 194 eP 41 40.00 -4.4X  
0.8s 138.50nm 6.1mb X  
eS 43 51.00  
POO 13.14 215 iPc 41 49.00 -4.8X  
1.0s 120.00nm 5.9mb X  
WMQ 15.00 17 P 42 17.00 -1.1  
GBA 16.37 195 P 42 32.00 -3.8X  
S 45 24.00  
GTA 17.79 52 P 42 51.50 -2.1

1.0s 17.00nm 4.1mb  
CHTO 18.93 121 eP 43 11.90 4.4X  
CD2 19.03 80 eP 43 09.30 0.6  
KMI 19.12 98 eP 43 08.00 -2.0  
1.0s 20.00nm 4.3mb  
LZH 19.63 65 iPc 43 15.00 -0.6  
1.4s 46.00nm 4.6mb  
Z 14s 0.34um 4.9Msz  
KOD 19.64 193 eP 43 16.00 -0.1  
eS 47 14.00  
MAIO 19.87 296 eP 43 22.00 3.9X  
BDT 19.96 124 eP 43 17.00 -2.0  
NST 21.81 125 eP 43 44.00 6.1X  
LOE 21.88 119 eP 43 44.00 5.3X  
GYA 22.17 92 P 43 42.40 0.8  
1.0s 29.00nm 4.7mb  
pP 43 48.60 22kmX  
XAN 23.46 72 Pd 43 55.00 0.9  
0.6s 16.00nm 4.7mb  
pP 44 05.60 40kmX  
BTO 25.49 57 eP 44 15.00 1.3  
HHC 26.69 57 P 44 26.50 1.8  
1.2s 24.00nm 4.7mb  
TIY 26.69 64 eP 44 25.90 1.1  
Z 20s 0.50um 4.1Msz  
E 14s 0.46um  
BJI 29.95 60 eP 44 56.00 2.0  
1.0s 11.00nm 4.6mb  
CN2 37.36 55 eP 45 59.00 1.1  
MLR 46.14 306 eP 47 10.50 0.6  
KAF 48.30 329 eP 47 29.70 3.3X  
NUR 48.67 326 eP 47 27.70 -1.6  
HFS 54.02 325 eP 48 08.90 -0.7  
0.4s 2.10nm 4.5mb  
NB2 55.27 326 P 48 18.90 0.0  
0.8s 1.30nm 4.0mb  
LPG 59.53 308 eP 48 49.80 0.4  
0.8s 6.70nm 4.8mb  
LPL 59.54 308 eP 48 49.90 0.5  
0.7s 8.05nm 5.0mb  
TCF 62.43 310 eP 49 08.90 0.2  
0.8s 4.45nm 4.6mb  
RJF 63.16 309 eP 49 14.10 0.6  
0.7s 4.95nm 4.7mb  
LDF 63.36 313 eP 49 14.50 -0.3  
0.5s 3.05nm 4.7mb  
EKA 63.48 320 P 49 24.00 8.5X  
1.3s 20.60nm 5.1mb  
DAG 63.85 345 iPc 49 17.10 -0.6  
0.8s 6.72nm 4.8mb  
GRR 63.89 313 eP 49 17.90 -0.4  
0.8s 6.70nm 4.8mb  
MFF 63.92 311 eP 49 18.10 -0.4  
0.6s 3.70nm 4.7mb  
LPF 64.10 312 eP 49 19.30 -0.4  
WRA 70.60 128 P 50 00.40 -0.6  
0.6s 2.00nm 4.3mb  
WB2 70.61 128 iPc 49 59.60 -1.4  
0.5s 6.30nm 4.9mb  
ASPA 72.86 131 iPd 50 14.60 0.2  
0.3s 4.80nm 5.0mb  
MBC 73.62 5 eP 50 19.50 1.5  
YKA 87.34 8 eP 51 30.60 -0.6  
0.6s 1.30nm 4.4mb  
S.D. = 1.2 on 35 of 44 obs.

% JAN 31, 1994 08h 52m 21.57 ± 1.72s  
38.783 N ± 9.2km 27.241 E ± 26.1km  
DEPTH = 5.0km (geophysicist)  
TURKEY (366)  
ML 3.1 (ISK).

IZM 0.38 178 iPg 52 29.30 0.0  
eSg 52 34.00  
DST 1.36 52 iPn 52 46.90 -0.2  
EDC 1.63 17 ePn 52 51.00 -0.1  
IZI 2.32 47 ePn 53 01.30 0.2  
EYL 2.87 51 ePn 53 09.00 0.0  
S.D. = 0.2 on 5 of 5 obs.

% JAN 31, 1994 09h 29m 34.65 ± 2.96s  
36.667 N ± 28.7km 3.016 W ± 8.0km  
DEPTH = 10.0km (geophysicist)  
STRAIT OF GIBRALTAR (385)  
mbLg 2.7 (MDD).

EGUA 0.47 291 iPc 29 44.61 0.4



ENIJ 0.72 65 eS 29 51.00  
 ECOG 0.75 324 iPd 29 48.39 -0.4  
 EBAN 1.62 338 eS 29 58.40  
 EVIA 2.01 12 eS 29 48.34 -1.1  
 29 56.00  
 30 03.39 0.1  
 30 23.60  
 30 10.05 1.0  
 30 34.00  
 S.D. = 1.1 on 5 of 5 obs.

JAN 31, 1994 09h 34m 31.36± 0.37s  
 34.319 N ± 3.4km 118.499 W ± 2.6km  
 DEPTH = 5.0km (geophysicist)  
 SOUTHERN CALIFORNIA (43)  
 ML 2.7 (GS).

TWL 0.09 243 P 34 33.09 -0.3  
 FIL 0.30 291 P 34 38.10 0.7  
 CJV 0.36 54 P 34 38.93 0.3  
 QAL 0.47 338 P 34 40.56 -0.1  
 ECF 0.51 286 P 34 42.49 0.9  
 LJB 0.60 63 P 34 43.22 -0.2  
 LOK 0.63 310 P 34 44.20 0.1  
 SSK 0.68 99 eP 34 45.07 0.2  
 TJR 0.73 344 P 34 45.24 -0.8  
 ABL 0.80 312 eP 34 46.54 -0.9  
 BMTC 0.82 354 P 34 46.79 -1.0  
 CIW 0.85 183 P 34 48.15 -0.1  
 CALC 0.90 30 P 34 48.81 -0.4  
 CSP 0.95 91 P 34 50.08 0.2  
 DTP 1.09 29 P 34 51.93 -0.4  
 HOD 1.16 63 P 34 53.25 -0.2  
 PEC 1.19 111 eS 34 53.00 -1.0  
 35 10.40  
 BLKC 1.30 54 P 34 56.61 0.6  
 ISA 1.34 1 eP 34 55.87 -0.8  
 WHFM 1.38 5 P 34 57.63 0.3  
 RAY 1.43 101 P 34 59.32 1.1  
 SRTC 1.50 24 P 35 00.73 1.7  
 BCH 1.57 304 eP 34 59.39 -0.6  
 YEG 1.64 313 P 35 02.04 1.0  
 CLC 1.67 26 P 35 03.00 1.6  
 PLM 1.67 125 eP 35 00.62 -0.9  
 GSC 1.70 54 eP 35 02.01 0.0  
 BONR 3.63 2 ePn 35 28.66 -1.1  
 S.D. = 0.8 on 28 of 28 obs.

\* JAN 31, 1994 09h 57m 35.78± 0.41s  
 37.132 S ±14.0km 52.395 E ± 7.9km  
 DEPTH = 10.0km (geophysicist)  
 5.2mb (15 obs.) 4.8Msz (2 obs.)  
 SOUTH INDIAN OCEAN (425)  
 Mw 5.2 (HRV).  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 19S, 20C  
 Centroid Location:  
 Origin Time 09:57:40.7 0.6  
 Lat 36.67S 0.05 Lon 52.38E 0.08  
 Dep 15.0 FIX Half-duration 2.2  
 Moment Tensor: Scale 10\*\*16 Nm  
 Mrr=-8.30 0.38 Mtt= 8.15 0.56  
 Mff= 0.15 0.42 Mrt= 0.00 0.00  
 Mrf= 0.00 0.00 Mtf= 0.74 0.55  
 Principal Axes:  
 T Val= 8.21 Plg= 0 Azm=175  
 N 0.08 0 85  
 P -8.30 90 180  
 Best Double Couple: Mo=8.3\*10\*\*16  
 NP1: Strike=265 Dip=45 Slip= -90  
 NP2: 85 45 -90

BFT 22.17 295 iPc 02 34.50 0.7  
 1.0s 50.00nm 4.9mb  
 BLF 23.31 282 iPd 02 45.40 0.5  
 0.7s 20.00nm 4.8mb  
 SLR 23.44 292 iPd 02 45.60 -0.5  
 1.5s 180.56nm 5.4mb  
 18s 3.09um 4.8Msz  
 KSR 24.40 290 eP 02 53.00 -2.5  
 LBTB 25.84 290 eP 03 07.05 -2.1  
 0.9s 34.08nm 5.0mb  
 GBA 55.70 30 P 07 14.00 -0.6  
 HYB 59.60 29 eP 07 41.50 -0.7  
 KIC 68.60 296 Pd 08 41.61 0.4  
 1.1s 36.50nm 5.5mb

LIC 68.71 296 Pd 08 42.21 0.3  
 1.1s 38.00nm 5.5mb  
 TIC 68.99 296 Pd 08 44.09 0.4  
 0.8s 312.00nm 6.6mb X  
 ASPA 69.63 105 iPd 08 47.70 0.2  
 0.6s 21.50nm 5.5mb  
 i 08 57.30  
 BDT 69.66 48 eP 08 40.60 -7.0X  
 CHTO 70.85 47 eP 08 54.90 0.0  
 STK 71.01 116 iPd 08 55.80 0.0  
 0.8s 6.40nm 4.8mb  
 i 09 05.40

LKO 71.40 298 Pd 08 59.23 0.9  
 1.0s 47.50nm 5.6mb  
 WRA 71.99 102 P 09 01.50 -0.3  
 WB2 72.00 102 iPc 09 00.80 -1.1  
 0.6s 15.00nm 5.3mb  
 i 09 09.20

MAIO 73.36 6 eP 09 10.00 0.5  
 TAB 75.04 355 iP+ 09 22.00 2.8X  
 KMI 77.96 46 eP 09 34.50 -1.5  
 ARMA 78.93 120 eP 09 50.30 9.0X  
 1.1s 15.00nm 4.9mb  
 VAY 82.71 338 eP 09 54.40 -6.3X  
 i 10 02.00

OHR 83.07 336 eP 09 57.50 -5.1X  
 SKO 83.65 337 iP 10 06.00 0.5  
 i 10 15.00  
 RSTA 83.96 244 (P) 10 09.00 1.4  
 MLR 85.64 342 ePd 10 16.50 0.9  
 VRI 85.80 342 eP 10 15.00 -1.2  
 LZH 87.08 39 Pd 10 24.00 1.1

2.0s 73.00nm 5.6mb  
 Z 20s 0.35um 4.8Msz  
 pP 10 35.00 35kmX  
 sP 10 41.50

BAO 88.73 251 eP 10 33.00 1.7  
 VOY 89.74 334 eP 10 36.50 1.2  
 e 10 46.00  
 SPC 90.55 340 eP 10 38.50 -0.6  
 ZST 90.59 337 eP 10 39.40 0.4  
 KBA 90.84 334 iP 10 22.50 -17.9X  
 i 10 47.20

WTTA 91.59 334 iP 10 45.30 1.4  
 GEC2 92.24 336 eP 10 45.70 -1.1  
 0.9s 1.99nm 4.5mb  
 e 10 56.40

KHC 92.53 336 eP 10 48.50 0.5  
 1.0s 3.50nm 4.7mb  
 e 11 12.50  
 e 13 06.00  
 BRG 93.93 337 iP 10 56.00 1.7  
 1.3s 20.00nm 5.3mb

FRB 136.15 327 ePKP 16 56.00 -2.0  
 NAV 143.03 285 ePKP 17 08.97 -2.5X  
 ANM 144.58 27 ePKP 17 13.30 0.1  
 MYNC 145.04 280 ePKP 17 14.07 -0.8  
 IMA 147.31 19 ePKP 17 19.66 1.8  
 TTA 148.88 25 ePKP 17 21.81 1.5  
 OXF 149.05 277 ePKP 17 20.10 -1.3  
 FBA 149.72 17 ePKP 17 22.62 1.2

SVW 150.24 27 ePKP 17 28.90 6.5X  
 0.9s 21.60nm  
 FVM 150.64 283 ePKP 17 24.04 0.4  
 PMR 152.06 22 ePKP 17 32.10 7.1X  
 0.6s 10.80nm

MIAR 152.38 275 ePKP 17 24.69 -1.7  
 TOA 152.47 19 ePKP 17 34.20 8.5X  
 YKA 153.37 347 ePKP 17 26.60 -0.2  
 0.8s 5.40nm

ULM 153.80 310 ePKP 17 31.00 3.2X  
 WMOK 156.58 273 ePKP 17 31.21 -0.9  
 FV10 165.26 280 (PKP) 17 39.96 -1.4  
 LRM 165.72 312 ePKP 17 36.40 -5.1X  
 e 17 42.60

SRU 166.40 284 ePKP 17 43.22 1.0  
 S.D. = 1.2 on 44 of 56 obs.

? JAN 31, 1994 09h 58m 56.40± 1.78s  
 31.400 S ±24.7km 69.100 W ±34.8km  
 DEPTH = 100.0km (geophysicist)  
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.27 109 ePd 59 11.20 -0.2  
 S 59 24.00  
 RTLL 0.54 83 ePd 59 12.50 -0.3  
 RTCV 0.66 134 iPd 59 13.50 -0.3

S 59 28.00  
 CFA 0.76 106 ePc 59 14.70 0.0  
 S 59 30.00  
 RTRS 1.26 346 Pd 59 20.00 -0.1  
 S 59 39.50  
 S.D. = 0.2 on 5 of 5 obs.

\* JAN 31, 1994 10h 06m 59.48± 1.54s  
 6.687 S ± 8.8km 131.333 E ±24.4km  
 DEPTH = 65.0 ± 27.2 km  
 4.9mb (1 obs.)

TANIMBAR ISLANDS REG., INDONESIA (281)

SWI 5.79 359 iPd 08 24.50 -0.3  
 eS 09 23.50  
 MTN 6.12 182 eP 08 30.50 1.0  
 0.2s 561.00nm 6.6mb X

KNA 9.35 195 eP 09 13.60 -0.5  
 0.3s 72.00nm 6.2mb X  
 eS 10 52.20  
 WB2 13.50 168 iPd 10 04.70 -5.0X  
 i 10 06.30  
 eS 12 27.00

QIS 15.95 151 eP 10 42.00 0.6  
 eS 13 24.40  
 ASPA 17.06 172 eP 10 54.00 -1.3  
 0.3s 28.30nm 4.9mb  
 eS 13 44.60

FORT 24.16 187 eP 12 14.00 3.2X  
 STK 26.83 160 eP 12 56.40 20.7X  
 0.6s 1.70nm  
 BDT 39.83 307 eP 14 28.80 0.4  
 MBC 101.01 13 ePd21 09.50 26.8X

S.D. = 1.4 on 6 of 10 obs.

\* JAN 31, 1994 10h 10m 47.58± 1.65s  
 14.894 N ±22.0km 93.418 W ± 8.0km  
 DEPTH = 10.0km (geophysicist)  
 NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 1.12 89 iP 11 08.50 -0.1  
 iS 11 22.50  
 SCX 1.98 22 iP 11 22.00 0.5  
 iS 11 42.50  
 OXX 3.85 305 iP 11 48.00 -0.4  
 (S) 12 27.00

IISM 5.56 318 (P) 12 12.00 -0.4  
 (S) 13 09.00  
 LVVM 5.62 329 (P) 12 10.00 -3.2X  
 PPM 6.48 311 iP 12 27.50 1.6  
 (S) 13 32.00

ACX 6.50 288 (P) 12 26.00 0.3  
 UNM 7.06 309 (P) 12 37.50 3.7X  
 CRX 7.48 308 (P) 12 37.50 -2.2  
 MRX 8.83 304 eP 12 59.50 1.3  
 UYO 19.21 357 iPc 15 08.30 -6.1X  
 MEO 20.34 348 e(P) 15 20.00 -6.9X  
 TUL 21.04 355 iPd 15 33.40 -0.6

S.D. = 1.3 on 9 of 13 obs.

JAN 31, 1994 11h 10m 06.51± 0.51s  
 33.781 N ± 8.9km 135.534 E ± 5.6km  
 DEPTH = 66.1 ± 10.0 km  
 4.7mb (2 obs.)

NEAR S. COAST OF WESTERN HONSHU (233)

WKYJ 0.44 6 iP 10 18.10 -0.5  
 S 10 24.90  
 TKSJ 1.25 280 iP+ 10 28.50 0.1  
 S 10 44.10  
 TSRJ 1.79 12 iPd 10 35.90 0.2  
 S 10 56.20

YONJ 2.21 310 iP 10 41.20 -0.4  
 S 11 06.80  
 IIDJ 2.59 48 P 10 47.00 0.0  
 MTMJ 3.36 33 P 10 57.70 -0.1  
 MAT 3.52 38 iPc 10 59.80 -0.2  
 eS 11 37.00

CHJJ 3.63 51 P 11 01.80 0.3  
 SHNJ 3.69 277 iP+ 11 02.30 -0.1  
 S 11 42.00  
 KUMJ 4.14 254 iP+ 11 09.20 0.5  
 S 11 54.70

NIJ 4.46 38 P 11 13.10 -0.1  
 KAKJ 4.51 56 P 11 13.70 -0.2  
 KAGJ 4.70 238 P 11 16.80 0.2



31d 11h

YAMJ 5.70 39 eP 11 30.90 0.3  
 OFUJ 7.24 41 eP 11 52.40 0.5  
 WB2 53.43 181 iPc 19 21.30 -0.5  
 0.6s 5.60nm 4.8mb  
 WRA 53.43 181 P 19 21.80 0.0  
 0.6s 4.40nm 4.7mb  
 S.D. = 0.4 on 17 of 17 obs.

% JAN 31, 1994 11h 12m 06.61± 1.72s  
 38.735 N ±10.5km 27.264 E ±29.6km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 3.0 (ISK).

Izm 0.34 180 iPg 12 13.60 0.0  
 DST 1.37 50 iPn 12 32.00 0.2  
 EDC 1.68 16 ePn 12 36.00 -0.1  
 IZI 2.34 46 ePn 12 45.00 -0.8  
 YLV 2.45 41 ePn 12 48.00 0.7  
 S.D. = 0.8 on 5 of 5 obs.

? JAN 31, 1994 11h 36m 18.23±12.18s  
 38.427 N ±97.1km 23.243 E ±38.6km  
 DEPTH = 33.0km (normal)

GREECE (364)

ML 2.7 (THE).

AGG 0.93 310 ePg 36 34.96 0.0  
 eSg 36 49.25  
 PAIG 1.54 13 iPb 36 43.52 -0.1  
 LIT 1.77 341 ePn 36 46.84 -0.2  
 eSn 37 13.00  
 KNT 2.74 355 ePn 37 01.16 0.3  
 S.D. = 0.4 on 4 of 4 obs.

? JAN 31, 1994 11h 40m 02.61± 2.59s  
 36.466 N ±25.4km 70.927 E ±22.6km  
 DEPTH = 181.3 ± 29.7 km  
 3.8mb ( 5 obs.)

HINDU KUSH REGION, AFGHANISTAN (718)

MAIO 9.22 272 eP 42 13.00 0.1  
 eS 43 48.00  
 NDI 9.40 144 ePn 42 15.00 -0.1  
 eSn 43 52.00  
 HYB 20.14 158 eP 44 25.00 0.6  
 HFS 43.06 322 eP 47 45.30 -0.3  
 0.6s 3.30nm 4.1mb  
 NB2 44.37 323 P 47 55.80 -0.4  
 0.6s 1.30nm 3.6mb  
 YKA 81.28 3 eP 52 00.30 1.1  
 0.7s 0.60nm 3.4mb  
 WRA 82.02 122 P 52 02.80 -0.9  
 0.5s 0.80nm 3.7mb  
 WB2 82.03 122 eP 52 00.50 -3.3X  
 0.4s 2.50nm 4.3mb  
 S.D. = 1.0 on 7 of 8 obs.

% JAN 31, 1994 11h 41m 15.51s  
 34.289 N 118.427 W  
 DEPTH = 6.7km

SOUTHERN CALIFORNIA (43)  
 <PAS-P>. ML 2.8 (PAS), 2.8 (GS).

TWL 0.14 266 P 41 18.18 -0.3  
 CJV 0.34 44 P 41 21.79 -0.6  
 LHU 0.38 2 P 41 22.44 -0.8  
 LRRC 0.41 54 P 41 23.20 -0.5  
 STTC 0.50 357 P 41 25.14 -0.4  
 LJB 0.57 58 P 41 25.84 -1.0  
 SBB 0.64 51 P 41 27.13 -1.2  
 DBM 0.69 5 P 41 28.22 -1.2  
 TJR 0.78 341 P 41 29.69 -1.3  
 BMT 0.86 351 P 41 31.01 -1.4  
 SNDC 0.86 7 P 41 31.22 -1.2  
 ABL 0.86 311 eP 41 30.60 -2.0  
 CSP 0.89 89 P 41 31.89 -1.0  
 ARVC 0.90 338 P 41 31.97 -1.1  
 HYS 0.91 51 P 41 32.09 -1.2  
 MARC 1.04 314 P 41 34.32 -1.1  
 DTP 1.09 26 P 41 35.06 -1.3  
 HOD 1.12 60 P 41 35.75 -1.1  
 WPM 1.12 358 P 41 36.14 -0.7  
 PEC 1.12 110 eP 41 35.23 -1.7  
 eS 41 50.18  
 BTL 1.18 91 P 41 37.52 -0.5  
 BLKC 1.28 51 P 41 38.62 -0.9

ISA 1.37 358 eP 41 39.83 -1.3  
 POB 1.39 115 P 41 39.79 -1.6  
 CRGC 1.43 312 P 41 41.45 -0.6  
 WWPM 1.47 11 P 41 42.06 -0.5  
 PLM 1.60 125 eP 41 42.41 -2.1  
 TOW 1.61 20 P 41 44.18 -0.3  
 BCH 1.63 304 eP 41 43.17 -1.7  
 GSC 1.67 52 eP 41 44.38 -1.1  
 ARUT 5.34 48 ePg 42 49.99 12.2  
 MSU 6.57 48 ePg 43 15.70 20.5  
 32 obs. associated

% JAN 31, 1994 12h 27m 09.92± 0.90s  
 38.728 N ± 6.6km 27.381 E ±11.2km  
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ML 3.4 (ISK).

Izm 0.34 196 iPg 27 17.10 0.1  
 eSg 27 22.00  
 DST 1.31 48 iPn 27 35.00 0.9  
 EDC 1.66 13 ePn 27 39.00 -0.2  
 KHL 1.73 103 ePn 27 40.40 0.1  
 ALT 2.15 80 ePn 27 46.00 -0.5  
 IZI 2.28 45 ePn 27 48.10 -0.2  
 ISK 2.67 28 ePn 27 54.00 0.3  
 HRT 2.73 39 ePn 27 54.00 -0.7  
 S.D. = 0.6 on 8 of 8 obs.

JAN 31, 1994 12h 39m 36.17± 0.58s  
 38.089 N ± 7.9km 113.114 W ± 5.5km  
 DEPTH = 5.0km (geophysicist)

UTAH (478)

ML 2.8 (GS).

ARUT 0.40 221 eP 39 43.77 -0.4  
 MSU 0.85 60 ePc 39 52.76 -0.5  
 DUG 2.12 6 eP 40 12.01 -0.8  
 SRU 2.27 63 eP 40 15.96 0.8  
 eS 40 47.04  
 EMUT 2.49 45 eP 40 19.80 1.6  
 DAU 2.73 31 eP 40 21.93 0.1  
 PV09 3.16 81 (Pn) 40 27.65 -0.1  
 PV10 3.22 84 (Pn) 40 28.47 -0.2  
 TNP 3.24 271 eP 40 28.08 -0.8  
 PV08 3.55 81 (Pn) 40 32.77 -0.6  
 HVU 3.70 4 (P) 40 34.48 -0.8  
 KVN 4.02 285 ePg 40 50.50 10.5X  
 GSC 4.07 228 (Pg) 40 49.46 9.0X  
 BONR 4.10 270 (Pn) 40 42.70 1.6  
 ePg 40 51.57  
 S.D. = 1.0 on 12 of 14 obs.

\* JAN 31, 1994 12h 57m 23.49± 0.89s  
 8.459 S ±13.2km 120.595 E ±11.8km  
 DEPTH = 154.6 ± 20.1 km  
 5.0mb ( 1 obs.)

FLORES REGION, INDONESIA (286)

MKS 3.41 341 iPd 58 17.40 0.6  
 KHKI 4.93 271 eP 58 36.00 -0.9  
 eS 59 32.00  
 e 01 32.50  
 KNA 10.78 133 eP 59 54.20 -0.6  
 eS 01 49.00  
 MTN 11.23 114 eP 00 00.50 -0.2  
 0.3s 212.00nm 6.3mb X  
 eS 02 01.00  
 MBL 12.65 183 eP 00 20.50 1.4  
 eS 02 36.50  
 WB2 17.54 132 eP 01 15.40 -4.7X  
 i 01 21.90  
 iS 04 26.20  
 ASPA 19.78 141 eP 01 43.20 -0.7  
 i 01 56.80  
 eS 05 15.10  
 QIS 21.95 125 iPc 02 05.70 0.2  
 STK 30.40 143 iPd 03 22.20 -0.9  
 0.4s 13.20nm 5.0mb  
 ARMA 36.31 131 eP 04 15.20 1.1  
 S.D. = 1.1 on 9 of 10 obs.

? JAN 31, 1994 12h 57m 42.15± 2.12s  
 45.657 N ±17.7km 13.824 E ±14.2km  
 DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)

MD 2.1 (TRI). ML 2.0 (VIE).

TRI 0.07 321 ePg 57 43.60 -0.3  
 iSg 57 48.10  
 VOY 0.38 7 e(Pg) 57 49.50 -0.3  
 e(Sg) 57 59.00  
 e 58 07.00  
 VBY 1.02 98 e(Pg) 58 01.80 -0.1  
 e(Sg) 58 18.30  
 KBA 1.46 347 iPg 58 09.90 0.5  
 iSg 58 32.80  
 S.D. = 0.7 on 4 of 4 obs.

JAN 31, 1994 13h 13m 06.16± 2.09s  
 31.676 S ± 9.6km 70.172 W ±10.3km  
 DEPTH = 133.9 ± 30.3 km

CHILE-ARGENTINA BORDER REGION (127)  
 MD 3.6 (SAN).

JACH 1.06 199 iPd 13 30.41 0.0  
 iS 13 47.91  
 RTCB 1.19 81 iPd 13 31.00 -0.6  
 S 13 49.50  
 RTCV 1.40 98 iPd 13 34.00 0.1  
 S 13 54.00  
 ROCH 1.47 209 iP+ 13 34.59 -0.3  
 iS 13 55.04  
 RTLL 1.49 77 iPd 13 34.20 -0.7  
 PEL 1.53 196 iP+ 13 35.47 0.2  
 iS 13 56.67  
 RTRS 1.62 22 eP 13 37.00 0.8  
 S 14 00.00  
 CFA 1.65 88 ePc 13 36.70 0.1  
 S 13 58.60  
 FCH 1.65 183 iPd 13 37.84 0.9  
 iS 14 01.76  
 PCH 1.96 188 iP+ 13 41.02 0.6  
 iS 14 07.01  
 TACH 2.07 198 iPd 13 41.37 -0.3  
 iS 14 07.53  
 LCCH 2.15 213 iP 13 41.98 -0.6  
 iS 14 08.63  
 CHCH 2.29 190 iP+ 13 44.48 0.1  
 iS 14 13.43  
 CACH 2.46 188 iP 13 47.32 0.6  
 iS 14 18.24  
 LNV 2.50 204 iPd 13 46.01 -1.0  
 iS 14 15.68  
 S.D. = 0.7 on 15 of 15 obs.

? JAN 31, 1994 13h 34m 57.50± 0.93s  
 16.707 N ± 8.5km 61.707 W ± 8.9km  
 DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)

ML 2.5 (FDF).

BPA 0.37 337 eP 35 05.15 0.1  
 S 35 10.00  
 MGH 0.49 272 eP 35 07.27 -0.1  
 PAG 0.67 178 eP 35 11.11 0.2  
 S 35 21.30  
 DEG 0.73 122 eP 35 11.80 -0.1  
 S.D. = 0.3 on 4 of 4 obs.

\* JAN 31, 1994 13h 58m 38.86± 0.66s  
 7.389 S ±11.8km 120.744 E ±11.9km  
 DEPTH = 489.4 ± 11.9 km  
 4.4mb ( 4 obs.)

FLORES SEA (279)

MKS 2.50 330 iPd 59 46.90 0.6  
 KHKI 5.18 259 eP 00 06.00 -1.7  
 eS 01 18.00  
 e 03 17.00  
 KNA 11.43 137 eP 01 13.00 0.3  
 MTN 11.57 119 iPc 01 14.90 0.7  
 0.3s 118.00nm 5.8mb X  
 iS 03 37.60  
 LEM 13.04 272 ePc 01 30.00 0.2  
 TPI 13.82 289 iPc 01 39.00 1.2  
 e 02 30.00  
 WB2 18.16 135 eP 02 18.90 -2.2  
 0.5s 15.60nm 4.9mb  
 i 02 19.80  
 eS 06 20.10  
 ASPA 20.53 143 eP 02 45.70 1.9  
 0.8s 7.60nm 4.4mb  
 eS 07 24.40  
 STK 31.17 144 eP 04 18.40 0.1



1.2s	1.80nm	3.5mb X	15.214 S ±19.5km	177.635 W ± 7.2km	DEPTH = 10.0km (geophysicist)
GYA	36.31 338 iPd	05 02.80 1.2	DEPTH = 411.0 ± 9.8 km	4.8mb ( 11 obs.)	OFF COAST OF CENTRAL CHILE (134)
NJ2	0.8s	11.00nm	FIJI ISLANDS REGION (181)		JACH 2.54 152 iP+ 47 00.70 -0.4
XAN	39.26 357 eP	05 21.00 -4.5X	VUN 4.66 233 iPc	24 55.50 1.3	ROCH 2.67 162 iP+ 47 03.18 0.2
TIY	42.70 345 P	05 53.00 -0.2	SVA 4.73 232 iPd	24 54.80 -0.1	IS 47 31.86
MAT	1.0s	13.00nm	AFI 5.82 78 eP	25 05.00 -1.4	IS 47 06.32 -0.1
MDJ	45.53 351 eP	06 14.80 -0.5	BKM 13.77 258 iPc	26 37.00 1.4	IS 47 37.82
YKA	46.67 19 iPc	06 23.20 -0.8	DZM 16.55 243 iPc	27 05.90 1.1	IS 47 07.20 0.3
	0.6s	0.70nm	TVO 27.32 99 eP	28 46.00 0.0	(S) 47 35.50
	S.D. = 1.2 on 15 of 16 obs.		PMO 28.70 94 eP	28 58.30 0.2	LCCCH 3.05 173 iPd 47 08.95 0.8
% JAN 31, 1994 14h 08m 22.68± 4.06s			VAH 28.94 94 eP	29 00.30 0.2	IS 47 40.77
43.825 N ±21.1km			0.7s	33.10nm	4.8mb
DEPTH = 10.0km (geophysicist)			TPT 28.97 94 eP	29 00.60 0.2	IS 47 38.00
NEAR SOUTH COAST OF FRANCE (379)			1.1s	58.10nm	4.8mb
ML 2.2 (GEN).			RUV 29.18 94 eP	29 02.40 0.2	IS 47 48.23
STV 0.44 18 P	08 31.62 -0.1		0.6s	44.70nm	5.0mb
ENR 0.45 27 P	08 31.98 0.1		PMG 34.85 275 eP	29 30.40 -20.2X	IS 47 50.96
IMI 0.55 81 P	08 34.04 0.1		STK 40.62 239 eP	30 36.90 -1.2	IS 47 13.32 -0.2
PZZ 0.68 358 P	08 36.24 0.0		0.4s	2.00nm	3.8mb
ROB 0.71 48 P	08 36.74 0.1		WB2 45.90 257 iPd	31 14.80 -5.3X	IS 47 49.00
FIN 0.86 63 P	08 39.24 -0.1		0.3s	12.10nm	4.7mb
PCP 1.24 54 P	08 45.31 -0.5		WRA 45.91 257 P	31 11.10 -9.1X	IS 47 14.89 -0.2
S.D. = 0.2 on 7 of 7 obs.			0.7s	6.90nm	4.1mb
% JAN 31, 1994 14h 39m 32.57± 1.74s			ASPA 46.29 252 iPd	31 21.60 -1.5	IS 48 02.49
15.293 N ± 7.8km			0.4s	262.70nm	5.9mb X
DEPTH = 70.0km (geophysicist)			IS 37 35.20		IS 47 32.00 -0.4
LEEWARD ISLANDS (92)			iScS 40 34.50		S.D. = 0.4 on 15 of 15 obs.
FDF 0.68 215 iPd	39 47.13 -0.4		MTN 49.67 266 iPc	31 47.00 -2.0	? JAN 31, 1994 16h 52m 41.62± 1.35s
MVM 0.75 191 iPd	39 48.03 -0.2		0.3s	37.00nm	5.2mb
MGG 0.83 319 iPc	39 49.23 0.0		FORT 51.86 243 iPc	32 02.90 -2.0	41.157 N ±18.2km 22.969 E ± 9.5km
BIM 0.83 202 iPd	39 49.83 0.6		0.6s	30.00nm	4.8mb
DEG 1.06 343 eP	39 52.11 0.0		MAT 66.22 322 iPc	33 40.70 -1.2	DEPTH = 10.0km (geophysicist)
PAG 1.16 309 eP	39 53.47 0.0		BJI 82.41 315 eP	35 14.00 0.8	NORTHWESTERN BALKAN REGION (383)
S.D. = 0.4 on 6 of 6 obs.			1.0s	11.00nm	4.5mb
JAN 31, 1994 15h 22m 05.69± 0.89s			BDT 88.29 288 eP	35 42.00 -0.2	KNT 0.05 276 ePg 52 43.92 0.1
39.802 N ±12.1km			CHTO 88.79 290 eP	35 46.00 1.4	eSg 52 46.64
DEPTH = 5.0km (geophysicist)			YKA 91.59 24 eP	35 56.20 -0.3	SOH 0.44 139 ePg 52 51.56 0.9
AEGEAN SEA (365)			0.4s	0.40nm	3.7mb X
ALN 1.16 20 ePb	22 27.98 0.1		PRU 143.93 347 PKP	42 22.00 -1.1	SRS 0.47 95 ePg 52 51.32 0.1
OUR 1.30 295 eSb	22 46.06		GRF 144.86 350 ePKP	42 25.50 0.7	eSg 53 00.04
PAIG 1.42 276 ePb	22 30.34 0.2		ZST 144.93 343 e(PKP)	42 25.50 0.6	OUR 1.13 137 ePb 53 01.65 -1.0
EDC 1.88 72 ePn	22 38.00 -0.7		KHC 144.95 347 PKP	42 25.60 0.6	S.D. = 1.4 on 4 of 4 obs.
SOH 1.95 302 ePn	22 39.86 0.1		1.0s	8.90nm	JAN 31, 1994 17h 20m 45.94± 0.60s
SRS 1.97 312 ePn	22 40.06 -0.1		GEC2 145.19 347 ePKPc	42 26.10 0.6	38.731 N ± 6.7km 27.473 E ± 4.6km
DST 2.40 94 ePn	22 47.00 0.6		0.5s	2.41nm	DEPTH = 5.0 ± 4.0 km
KNT 2.42 305 ePn	22 46.78 0.2		WLF 145.50 356 PKPc	42 31.90 3.2X	TURKEY (366)
S.D. = 0.5 on 8 of 8 obs.			FLN 146.46 3 ePKP	42 29.00 1.6	ML 3.6 (ISK), 3.2 (THE), MD
? JAN 31, 1994 15h 48m 14.14± 3.24s			0.7s	11.00nm	3.6 (ATH).
36.660 N ±33.9km			CDF 146.65 354 ePKP	42 30.20 2.4X	IZM 0.37 206 iPg 20 52.20 -1.2
DEPTH = 10.0km (geophysicist)			0.7s	4.95nm	eSg 20 57.00
STRAIT OF GIBRALTAR (385)			LDF 146.65 3 ePKP	42 29.50 1.8X	PRK 1.07 299 ePb 21 06.80 0.3
mbLg 2.6 (MDD).			0.9s	11.30nm	eSb 21 20.10
EGUA 0.51 290 iPg	48 24.45 0.1		GRR 146.81 4 ePKP	42 30.50 2.6X	DST 1.25 45 iPn 21 10.00 0.3
ENIJ 0.69 63 iPg	48 27.67 -0.1		1.0s	20.00nm	EDC 1.64 10 ePn 21 14.00 -1.5
ECOG 0.78 323 iPg	48 28.66 -0.7		HAU 147.14 355 ePKP	42 31.30 2.8X	KHL 1.66 104 ePn 21 17.50 1.6
EBAN 1.63 337 ePn	48 43.80 0.8		0.6s	7.60nm	ALT 2.08 80 iPn 21 22.20 0.1
S.D. = 1.0 on 4 of 4 obs.			LPF 147.16 4 ePKP	42 31.50 3.0X	IZI 2.23 43 ePn 21 23.90 -0.2
* JAN 31, 1994 16h 23m 34.52± 0.81s			0.9s	24.25nm	YLV 2.35 38 ePn 21 25.10 -0.8
			BSF 147.27 354 ePKP	42 31.20 2.3X	ALN 2.43 334 ePn 21 35.76 8.9X
			LOR 148.02 358 ePKP	42 33.10 3.1X	eSn 21 58.52
			0.7s	4.30nm	GBZT 2.56 36 ePn 21 35.20 6.5X
			SSF 148.23 359 ePKP	42 34.50 4.2X	ISK 2.63 27 ePn 21 29.00 -0.8
			1.0s	11.80nm	RDO 2.83 329 ePn 21 32.00 -0.7
			LBF 148.30 358 ePKP	42 34.50 4.0X	OUR 3.14 302 ePn 21 37.72 0.8
			0.8s	7.00nm	SOH 3.80 305 ePb 21 46.80 0.3
			AVF 148.51 359 ePKP	42 34.70 4.0X	SRS 3.82 310 ePn 21 46.08 -0.6
			0.9s	4.90nm	iSn 22 32.11
			MFF 148.64 3 ePKP	42 35.30 4.4X	KNT 4.27 306 ePn 21 53.20 0.1
			0.9s	7.35nm	GRG 4.49 301 ePn 21 57.16 0.9
			SMF 148.64 358 ePKP	42 35.10 4.2X	VAY 4.57 306 ePn 21 51.40 -5.9X
			0.6s	6.05nm	MLR 6.85 351 eP 22 31.00 1.4
			MAF 149.09 360 ePKP	42 36.50 4.9X	VRI 7.16 356 eP 22 39.00 5.2X
			0.7s	7.30nm	S.D. = 1.0 on 16 of 20 obs.
			LPL 149.57 354 ePKP	42 38.60 5.9X	& JAN 31, 1994 17h 38m 14.36s
			1.0s	8.40nm	34.326 N 118.614 W
			LPG 149.59 354 ePKP	42 39.50 6.7X	DEPTH = 15.4km
			0.6s	3.05nm	SOUTHERN CALIFORNIA (43)
			S.D. = 1.2 on 25 of 44 obs.		<PAS-P>. ML 2.5 (PAS), 2.9 (GS).
			* JAN 31, 1994 16h 46m 19.01± 4.27s		ABL 0.72 316 eP 38 27.45 -0.8
			30.440 S ±26.5km 72.014 W ±27.6km		SSK 0.77 98 eP 38 28.61 -0.5
					eS 38 40.55



31d 17h

PEC 1.28 109 eP 38 36.72 -0.9  
 ISA 1.34 5 eP 38 38.19 -0.3  
 BCH 1.48 306 eP 38 39.99 -0.5  
 PLM 1.75 123 eP 38 44.87 0.4  
 GSC 1.78 56 eP 38 44.47 -0.3  
 MTUM 3.02 1 (Pn) 39 02.41 -0.2  
 TPNV 3.25 36 ePn 39 05.16 -0.7  
 MMPM 3.29 354 (Pn) 39 06.77 0.1  
 MEMM 3.34 356 ePg 39 14.60 7.6  
 BONR 3.63 4 (Pn) 39 10.30 -1.1  
 TNP 3.91 16 ePg 39 27.27 11.9  
 13 obs. associated

JAN 31, 1994 17h 45m 33.92± 0.71s  
 35.487 N ± 5.6km 3.516 W ± 10.0km  
 DEPTH = 10.0km (geophysicist)  
 STRAIT OF GIBRALTAR (385)  
 mbLg 3.0 (MDD).

EMEL 0.49 112 ePg 45 49.75 5.8X  
 eSg 45 58.50  
 TOU 0.56 200 iP 45 45.50 0.3  
 iS 45 55.00  
 ZAI 0.93 137 iP 45 52.00 0.4  
 iS 46 04.00  
 EGUA 1.34 358 ePn 45 58.45 -0.2  
 eSn 46 15.60  
 EMAL 1.47 330 ePn 46 09.60 9.2X  
 eSn 46 14.50  
 TZK 1.50 202 eP 46 00.00 -0.8  
 iS 46 20.50  
 EJIF 1.85 302 ePn 46 06.57 0.6  
 eSn 46 26.30  
 EPRU 2.03 317 ePn 46 08.96 0.4  
 eSn 46 31.80  
 EHOR 2.72 330 eP 46 17.80 -0.6  
 eS 46 47.30

S.D. = 0.7 on 7 of 9 obs.

JAN 31, 1994 18h 27m 56.15± 0.60s  
 41.753 N ± 6.4km 20.369 E ± 5.7km  
 DEPTH = 5.0km (geophysicist)  
 ALBANIA (391)  
 ML 2.5 (TTG).

OHR 0.72 153 iPg 28 10.50 0.0  
 0.4s 90.00nm  
 iSg 28 22.20  
 SKO 0.83 74 ePg 28 12.50 -0.2  
 iSg 28 25.00  
 Lg 28 25.50  
 ULC 0.86 285 iPg 28 12.59 -0.6  
 iSg 28 25.38  
 PVY 0.89 341 iPg 28 12.98 -0.8  
 iSg 28 26.45  
 TTG 1.07 310 iPg 28 16.38 -0.3  
 iSg 28 32.16  
 IVA 1.17 343 iPg 28 18.22 -0.3  
 iSg 28 35.72  
 BDV 1.27 295 iPg 28 19.80 -0.3  
 iSg 28 38.80  
 NKY 1.47 317 iPg 28 23.60 0.2  
 iSg 28 45.66  
 HCY 1.56 297 iPg 28 24.69 0.2  
 iSg 28 48.42  
 PLE 1.73 336 iPnc 28 28.25 1.1  
 iSn 28 53.00  
 BRY 1.77 311 iPnd 28 28.92 1.1  
 iSn 28 54.19

S.D. = 0.7 on 11 of 11 obs.

\* JAN 31, 1994 19h 26m 45.57± 1.11s  
 38.717 N ± 6.7km 27.299 E ± 15.3km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.3 (ISK).

Izm 0.32 185 iPg 26 52.30 0.1  
 eSg 26 56.80  
 DST 1.36 49 iPn 27 11.40 0.8  
 eSg 27 28.50  
 EDC 1.69 15 ePn 27 15.00 -0.2  
 iSg 27 16.50 -0.3  
 IZI 2.33 45 ePn 27 24.80 0.1  
 YLV 2.44 40 ePn 27 25.60 -0.6  
 ISK 2.71 29 ePn 27 30.00 0.1

S.D. = 0.5 on 7 of 7 obs.

JAN 31, 1994 19h 32m 52.68± 0.60s  
 41.739 N ± 6.4km 20.361 E ± 5.5km  
 DEPTH = 10.0km (geophysicist)  
 ALBANIA (391)  
 ML 2.4 (TTG).

OHR 0.71 152 ePg 33 06.50 -0.2  
 0.3s 50.00nm  
 iSg 33 19.40  
 SKO 0.84 74 ePg 33 09.00 0.1  
 iSg 33 21.00  
 Lg 33 22.00  
 ULC 0.86 285 iPg 33 08.56 -0.7  
 iSg 33 22.45  
 PVY 0.90 342 iPg 33 09.32 -0.7  
 iSg 33 23.85  
 TTG 1.07 310 iPg 33 12.56 -0.3  
 iSg 33 29.91  
 IVA 1.18 343 iPg 33 14.35 -0.4  
 iSg 33 33.21  
 BDV 1.27 296 iPg 33 16.14 -0.1  
 iSg 33 36.18  
 NKY 1.47 317 iPg 33 19.94 0.6  
 iSg 33 42.62  
 HCY 1.56 298 iPnc 33 21.12 0.7  
 iSn 33 44.74  
 PLE 1.74 336 iPnc 33 23.79 0.5  
 iSn 33 49.06  
 BRY 1.78 311 iPnd 33 24.24 0.4  
 iSn 33 50.01

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

? JAN 31, 1994 19h 34m 36.43± 1.11s  
 38.703 N ± 13.3km 27.390 E ± 24.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.0 (ISK).

Izm 0.32 198 iPg 34 43.10 0.0  
 eSg 34 47.80  
 DST 1.32 46 ePn 35 00.80 0.0  
 EDC 1.68 12 ePn 35 06.00 0.0  
 IZI 2.29 44 ePn 35 15.00 0.0

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

\* JAN 31, 1994 19h 40m 45.83s  
 59.844 N 136.816 W  
 DEPTH = 1.2km  
 SOUTHEASTERN ALASKA (19)  
 <AEIC>. ML 3.0 (AEIC).

PNL 1.32 263 eP 41 08.28 -2.8  
 eS 41 26.71  
 BCPM 1.43 276 eP 41 10.21 -2.6  
 eS 41 29.92  
 YKU 1.51 260 eP 41 13.07 -0.9  
 eS 41 32.90  
 PCA 1.75 280 eP 41 16.37 -1.2  
 CHX 2.17 278 eP 41 22.23 -1.5  
 CTGM 2.51 299 eP 41 26.84 -1.7  
 eS 41 58.01  
 SIT 2.90 164 eP 41 31.29 -2.7  
 eS 42 07.38  
 BALM 2.99 296 eP 41 32.38 -3.0  
 TGL 3.13 290 eP 41 35.77 -1.5  
 GLB 3.80 298 eP 41 44.53 -2.3  
 KLU 4.77 294 eP 41 57.20 -3.5  
 VZW 4.97 288 eP 42 01.63 -1.8  
 YKA 11.03 67 eP 43 21.00 -6.7  
 0.5s 0.40nm 4.1mb X  
 13 obs. associated

\* JAN 31, 1994 20h 05m 00.98± 0.75s  
 41.891 N ± 6.5km 20.083 E ± 7.1km  
 DEPTH = 10.0km (geophysicist)  
 ALBANIA (391)  
 ML 2.3 (TTG).

ULC 0.63 277 iPg 05 13.25 -0.3  
 iSg 05 23.32  
 PVY 0.71 353 iPg 05 14.17 -0.9  
 iSg 05 25.32  
 TTG 0.81 312 iPg 05 16.41 -0.3  
 iSg 05 29.64  
 OHR 0.95 145 ePg 05 19.00 -0.1  
 0.6s 80.00nm

iSg 05 33.80  
 IVA 0.99 352 iPg 05 19.61 -0.2  
 iSg 05 34.53  
 BDV 1.01 293 iPg 05 20.09 -0.1  
 iSg 05 36.20  
 NKY 1.22 319 iPg 05 23.82 0.0  
 iSg 05 43.25  
 HCY 1.30 296 iPg 05 25.00 -0.1  
 iSg 05 45.81  
 BRY 1.52 312 iPg 05 29.23 0.8  
 iSg 05 52.43  
 PLE 1.53 341 iPg 05 29.50 1.1  
 iSg 05 52.09

S.D. = 0.7 on 10 of 10 obs.

\* JAN 31, 1994 20h 48m 52.16± 0.88s  
 40.188 N ± 7.8km 110.027 E ± 9.9km  
 DEPTH = 10.0km (geophysicist)  
 WESTERN NEI MONGOL, CHINA (323)  
 ML 3.6 (BJI).

BTO 0.41 359 iPg 49 01.10 0.5  
 Sg 49 06.40  
 HHC 1.34 60 iPg 49 16.00 -1.0  
 Sg 49 34.30  
 TIY 3.10 142 Pnc 49 43.40 1.3  
 Pg 49 48.50  
 Sg 50 21.30  
 Sg 50 27.90  
 BJI 4.72 90 ePg 50 17.50 12.5X  
 eSg 51 17.50  
 XAN 6.20 189 ePn 50 25.20 -0.8  
 Pg 50 41.00  
 Sg 52 04.00  
 TIA 6.85 123 Pg 50 56.50 21.3X  
 GTA 7.90 268 eP 50 50.00 0.0

S.D. = 1.3 on 5 of 7 obs.

\* JAN 31, 1994 21h 28m 06.48± 1.26s  
 28.372 N ± 9.8km 34.884 E ± 11.3km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)  
 MD 4.0 (HLW).  
 Felt.

BADA 0.18 35 eP 28 12.00 1.5  
 SRFA 0.62 26 iPc 28 18.00 -0.9  
 HQL 0.91 9 eP 28 22.00 -1.8  
 AYN 1.10 63 iPc 28 28.00 0.9  
 DHLJ 2.48 10 Pc 28 53.38 5.9X  
 WJH 2.65 145 eP 28 49.33 -0.6  
 LISJ 2.90 10 P 28 59.69 6.2X  
 MKRJ 3.24 12 P 29 00.41 2.0  
 MASJ 3.42 12 Pc 28 59.77 -1.3  
 HLW 3.43 296 ePn 29 02.00 0.9  
 (S) 29 41.00  
 SALJ 3.69 11 Pc 29 04.12 -0.7  
 SHMJ 4.41 10 Pc 29 24.86 9.9X  
 BHL 5.55 7 Pg 29 48.00 16.7X  
 Sg 30 08.00

S.D. = 1.5 on 9 of 13 obs.

? JAN 31, 1994 22h 19m 41.72± 10.18s  
 8.101 S ± 87.9km 128.617 E ± 17.4km  
 DEPTH = 151.8 ± 40.9 km  
 3.6mb (1 obs.)  
 TIMOR SEA (290)

MTN 5.32 153 eP 21 00.50 0.2  
 eS 22 05.00  
 KNA 7.60 179 eP 21 31.20 0.2  
 0.2s 55.00nm 5.7mb X  
 eS 22 59.20  
 WRA 13.01 155 P 22 24.50 -17.6X  
 1.6s 0.30nm  
 WB2 13.02 155 iPc 22 36.60 -5.6X  
 eS 25 00.10  
 MBL 15.51 212 eP 23 13.40 -0.2  
 eS 26 01.50  
 ASPA 16.29 162 eP 23 23.00 -0.2  
 eS 26 25.10  
 QIS 16.32 141 eP 23 23.20 -0.4  
 eS 26 20.20  
 MEEK 20.74 206 eP 24 26.50 14.5X  
 STK 26.57 155 eP 25 07.80 0.4  
 1.4s 2.10nm 3.6mb  
 e 25 31.90



S.D. = 0.5 on 6 of 9 obs.  
 \* JAN 31, 1994 22h 57m 18.71± 2.50s  
 28.423 N ± 9.2km 34.535 E ±21.2km  
 DEPTH = 10.0km (geophysicist)  
 EGYPT (553)

MD 4.0 (RYD).  
 BADA 0.42 76 iPd 57 27.33 0.0  
 SRFA 0.76 48 iPc 57 33.33 -0.3  
 eS 57 41.67  
 HQL 0.96 28 eP 57 37.00 0.1  
 eS 57 50.00  
 AYN 1.36 71 iPc 57 44.00 0.3  
 eS 57 59.80  
 WAJH 2.88 141 eP 58 05.33 -0.1  
 HLW 3.14 298 eP 59 03.00 53.9X  
 S.D. = 0.3 on 5 of 6 obs.

? JAN 31, 1994 23h 26m 03.80± 8.55s  
 38.919 N ±17.5km 26.370 E ±75.1km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 ML 3.3 (ISK).

IZM 0.87 126 iPg 26 20.60 0.0  
 eSg 26 33.10  
 EDC 1.83 39 iPn 26 35.50 -0.1  
 DST 1.88 68 iPn 26 36.10 -0.2  
 IZI 2.78 58 ePn 26 49.60 0.3  
 S.D. = 0.4 on 4 of 4 obs.

% JAN 31, 1994 23h 37m 03.42± 1.04s  
 38.728 N ± 5.8km 27.281 E ±12.6km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.3 (ISK).

IZM 0.33 183 iPg 37 10.20 -0.1  
 iSg 37 15.10  
 DST 1.37 50 iPn 37 28.00 -0.5  
 EDC 1.68 15 ePn 37 33.00 0.1  
 KHL 1.80 102 ePn 37 35.20 0.3  
 ALT 2.23 81 ePn 37 41.00 -0.1  
 IZI 2.34 46 ePn 37 42.60 0.1  
 YLV 2.44 41 ePn 37 44.00 -0.1  
 ISK 2.71 30 ePn 37 48.00 0.3  
 S.D. = 0.3 on 8 of 8 obs.

% JAN 31, 1994 23h 38m 58.03± 1.27s  
 38.753 N ± 5.7km 27.202 E ±14.4km  
 DEPTH = 10.0km (geophysicist)  
 TURKEY (366)  
 ML 3.3 (ISK).

IZM 0.36 172 iPg 39 05.40 0.0  
 eSg 39 09.90  
 DST 1.40 52 iPn 39 23.10 -0.5  
 EDC 1.67 18 ePn 39 27.50 0.0  
 KHL 1.87 103 iPn 39 30.70 0.3  
 ALT 2.29 82 ePn 39 36.00 -0.5  
 IZI 2.36 47 ePn 39 38.10 0.6  
 YLV 2.47 42 ePn 39 39.50 0.5  
 CTT 2.57 21 ePn 39 40.00 -0.4  
 S.D. = 0.5 on 8 of 8 obs.

? JAN 31, 1994 23h 46m 48.18± 2.28s  
 19.376 N ±26.6km 99.047 W ±28.2km  
 DEPTH = 5.0km (geophysicist)  
 CENTRAL MEXICO (523)

IIP 0.13 103 iP 46 51.00 0.0  
 iS 46 55.00  
 IIA 0.43 121 iPd 46 56.88 0.0  
 IIC 0.44 333 iP 46 57.00 0.0  
 (S) 47 08.00  
 PPM 0.50 128 eP 46 58.30 0.0  
 iS 47 06.49  
 S.D. = 0.1 on 4 of 4 obs.

? JAN 31, 1994 23h 55m 30.60± 8.82s  
 38.919 N ±18.1km 26.350 E ±77.0km  
 DEPTH = 10.0km (geophysicist)  
 AEGEAN SEA (365)  
 ML 3.2 (ISK).

IZM 0.88 126 iPg 55 47.60 0.0

EDC 1.84 39 eSg 56 00.60  
 DST 1.90 68 ePn 56 02.60 0.1  
 IZI 2.80 59 ePn 56 03.60 0.2  
 S.D. = 0.4 on 4 of 4 obs.



X = data received for this 6-hour time period

DATE	1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   31																														
AAB			X X		X						XX						X		X	X				X		X				X	
AAI		X											XX X		X X		X			X X				XXX							
ABH					X						X	X					X		X	X	X X				X	X X			X		
ABHA		X	X X		X			X			XX							X		X				X		X			X		
ABL	XX	X X	X X	XX X	X X	X X	X X	X XX	X	XX XX					XXXXX	X	XX							XX							
ACO		X	XX X	X X	XX	XX	XX XX	XX X	XX X	X	X		X		X X X	XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX				XX	X	
ACTO			X		X			X X	X	XX					X					X X											
ACU			X	X	X			X		X				X						XX	X							X			
ACX																				X											
ADAT	X		XX X	X X	X X		X X		X X		XX				XX X	XX			X	X	X			X		XX	XX XX		X X		
ADE	X		XX	X		XX X		X X X		XX	X X	XX	X X	XXX X	X X	XX		X X	X X	X X	XXXX XX		X X					X			
ADK	X			XXX X	X	X	X	X X		X	X		X		XXX	X	XXX X	XXX		X				X		X					
AFI	XXX X	XXXXXXXXXX			X X	XX X	X	XXX X	X XX	X X	XX	X	X XX	XXX XXX	XXXXXXXXXX		XXXXXXXXXX	XXX XXX	XX X	XX	XX	XX	X	XX XXXXXX	XX	X X X				XXXX	
AFIF	X X	X X	X X		X X	X X		X X	X	X					X		X		X					X							
AFR			X X	XX X	X			X X						X		XX	XXX	X X						X		X				X	
AGG	X XX	X XXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXX X	XXXXXXXX	XX						XXXX	X XX	X	X					XXXX	XX	X	XX XXX			X	
AGU	X				X			X		X					X				XX					X X X	XX		X				
ALJ	X		X	XX X	X			X		X X					X			X	X	X	X				X X		X				
ALN	X		XXX X	XXXXX		XXXX	XX	XXXXXXXXXX				X XXX				X	X X	XX		X X	X			X X	XX	X	XXX X		X X		
ALQ	X	X	XXXXXX	XXXXXX		XX		X X		XX XX	XX XX	XXXXXXXXXXXX				XXXXX	X XXX	X XXX	X XXX	X XXX	X XXX		X	XXX	XX X		XX XX		XX XX		X
ALT		X X	XXXX XX	XXXXXX	XXXX	XX	XXX	XXXXXX		XXXX XX	XX	XX XX	XX	X X X	XX	XX	XXX XX	XXXX	X				XX XXX	XXX	XX	XX XX		X X XX			
AMW														X	XXXX X	XX X	X X	XX X					X XX		X X X X				X	X	
ANM	XX	X	XXXXXX		X X			X X	XX XXX	X X		X XX		XXXX		XXXX	X X X	X X	X X	X X				X X		XX X	X X X	X			
AOMJ				X		X X			X	X	X	X			X X				X				X								
APO		X	X X					X		X		XXX			XX X		XX X														
APR	X XX	X				X X	X	X	X X	X XX		X		X	X	X	X						XXX	XX X X							
AQU			X	X	X XX			X		X				X X					X X		XX										
ARA0			X		X	X		X X		X X				X X X	X	X	X X	X					X		X X	X X		X			
ARC					X			X X		X X				X			X X X	X X						X X	X X		X			X	
ARE			XXX		XXX X	X	XX		XX X	XXX		XXX X	X XX	XX X	XX	XXX	X XXX	XXX X	X X	X	XXX	XXX		XXX	XXX		XX X	XX X	X XXX		
ARMA	XXXX	X	XXXX	XXXXX	X	XX XX		XX XX	X X	XXXX	XX X		XXXX	XXXXXX	X XX	XX X	XX XXX	X X	XX X		XX X		XX X		XX				XXX X	XX	
ARN		XX XX	X	XX X		XX X X		X	XX X	X XXX				XXX X	X X	XXXXXXXXXXXXXXXXXXXX		XXX X X	XXXXXXXXXXXX					XXXXXX	X	X X X	XXX XX	XXXX			
ARO			X		X				X X							X		X													
ARU	X	X	X X	X XX	X	XX X X		X	XX							X			X X					X X	X X X	XX X	X X X		X		
ARUT	X X	XXX	X XX	XXX	XX	X X	X	X	XXX X	XX	XXX			XXXXXXXX	X	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXX	XX XX	XXXX			
ARV				X	X X		X	X		X				X X					X X		XX										
ARVC	X						X	X X	X		X						XXXXXXXXXXXXXXXXXXXX								XXXX X	XXXX X	XXXXXX	XX			
ASAJ	X		X	XX X X	X X	X X		X XX	X	X X X				XXX	X	X X X	X X	X XX	X X	XXX		XXX		X XX	X X	X X		X			
ASH	X	X	X X	XX X	XX X X		X XX	X	X									X XX						X X X	XX X	X				X	
ASK			X		X			X				X XX	X		X				XX							X X X					
ASPA	XX	XX	XX	XX																											
ASR		XX		XX X X	XX X	X X	X							X			XX XX	X X	XX X	X X	XX X		XX	XX	X						
ASS				X		X	X					X X X					X X		XX												
ATE		X		X	X					X X		X					X			X							X				
ATH		X X		X X XX			XX	X	X XXX	X X				X			X		X		X				XX	XX X XX	XXX XX		X		
AUE	XX XX			XXXX	X				X	XX	X X	X X	XXX X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	X	X XX					
AUH	XX XX	X		XXXX	X				X	XX	XXX X	XX	XX X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	X		XX XX					
AUI	XX XX			XXXX	X				X		X X	X		XX X	XX	XX	XX	XX	XX	XX	XX	XX	X XXX	X							
AUL	XX XX	X										X X	XX	XXX X	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	X							
AUP	X X		X	XXXX	X				XX		X	XX X	X	XX X	X	X	X		X			XX		X	X X			X			
AURF			XX	X	X X			X XX	X X X	X X	X			X		X	X		XXXXXXXX	XXX		X X		X XXX	X					X	
AUTN			XX	XX	X X	X		X XX	X X X	X X				X		X	X		XXXXXXXX	XXX		X X		X XXX	X					X	
AUW	XX X	X	X	XXXX	X			X		XX	X X	XX	XX X	XX	XX	X	XX		XXXXXXXX	XXX		XX X		XXXX	X	X XX					
AVE		XXX	XXXX	X	X		X X																								
AVF	X XX	XXXX	X X	X X X	XX XX	X XXX	X XX	X XX	X XX	X XX	X XX	XX				XXXX XX								XXXXXX	XXX XXX		XX X				
AYN	X	XXXXXXXX		XX		X XX	XXXXXXXXXXXXXXXXXXXX		X XX	X X	X			X		X	X		XX XX	XX					XX XX	X XX	X			X X	
BADA														X		XX	XXXX	XX	XX X	XX				X		XX XX	X XX	X			
BAG	XX	XXX X		XXX		X XX			XX XX	XX	X X		XXX	XX	XX	XXX	XX	X X	X					XXXX	X XX						
BAL	X X		XX XXXX	X X	X X		X X	XX X		XX	X X		XX	X X	XX	XXX	XXX	XXX	XXX	XXX	XXX	X XXX		X XX	X XXX				XXX XX X		
BALM	X XX	X	XXXXXXXXXX	X X	XX X X		XX XX	XX X	XXXXXXXXXXXX	XXXXXXXXXX													XXXXXXXXXXXX	X XX	XXX				XXXX X	X	
BAO	XX XX	XX	X	XXX		XXX X	X XX	XX	XXXX	X X																	X XX	X		XXX	
BAPM																															
BBOR				X		XXXX	X X					X X				X		X XX	XX								X			X	
BBS			X		X		X	X X	X		X			X			XX	X X	X X	X X	X X			X X	X		X				
BCA3	X X		XXX XXX	X		X X X	X X	X	X XXX					XXXX	X	X X	XX X	X XXX	X X	X X	X X	X X	X X	X X	X X	X X	X	X	X XXX		
BCAO	XXX XX	X	XXXXXXXXXXXX		XXXX XXXXX	X X	XXXXXX	XXXXXXX	XXXX	X X X	X			XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BCH	XX		X X	XX X		X	X X	X	X X					XXXX		X	XX														
BCK																															
BCP				X		XX	X XX		X X XX	X X X				X		XXXX	X		XX					X XX	X X					X	
BCWM										X							XXXX	XX										XX	X		
BDF				X	X X	X					X									X				X X			X	X	X		
BDFB			X	X XX	X		X X	X XX	XXXX	X X X				X XX		XXXX		XXXX	XX X					XXX			X X				
BDI		X	X	X X	X		X				X					X			X												
BDT	XX XX	X	XXXXXXXXXXXX	XX	XX XXX	XX X	XXXXXXXXXXXX		XX X X	XXXXXXXXXXXX	XX	X X	XXXXXXXXXXXX	XXXX	XXXX		XXXXXX							XX	XX XXX	XXXXXX	XXX XXX	XXXX	XXXX		
BDV	X	X	X X	XX			X X X	XX XX	XX X	XX X	XX	X X	X XX	X X	X				X	X X	X			X X X	X X X	XX X	X X				



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CCH																																	
CCM			X	X																													
CD2	X	X	XX	XX	XXXXXX	X		XX	XX	XX	X	XX	XX																				
CDCB																																	
CDD	XX	XX	X	X		XXXX	XX		X	X																							
CDF	XXXXX		XXXXXX	XXXX	X		XX	X	X	XX	X	XX																					
CDFW							XX																										
CDM		XXX		X			X																										
CEH		X	XXX	X	X	X		X	X	X	X																						
CEOS				X			X		XXX	X	XX	X																					
CER		X	XX	X	XX	XX		X	X	XX	X	XXXX																					
CEY			X		X	X	X				X																						
CFA	X	XXXXXXXXXXXXXXXXXXXX						XXXXXXXXXXXXXXXXXXXX		XXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXX	XXXXXXXXXXXXXXXXXXXX				
CFI	XX	XX	X	XXXXXXXXXX	XX		X	X	X	X	X		X	XXXX	X	XXXXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XX	XXXX	XX	XXXX	XX	XXXX			
CFR		X	X	XX	X	X	XX	X	XXXX	XXXX	XXXX																						
CGLM	XX	XX	X	X	X		XXXX	XX		X	X	X		XX		XXXX	X	XXXXXX	X	XXXXXX	X	XX	X		XX	X	X	XXXX	XX	XXXX	XX		
CGP	XX			XXXX	X	XX	X	XXXX	XXXX	XX	X	X	X																				
CHCH																																	
CHJJ	X	XX	X		XXXX	X	XX	X	XXXX		XX	X	X	XX	XX	XXXX	X		X	X	X												
CHTO	XXXXXXXXXXXXXXXXXXXX		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CIA				X			X				X																						
CIN	XXX	XX	XXX	XXXXXXXXXXXXXXXXXXXX					XXXX	XXXXXXXXXXXXXXXXXXXX		XX	XX	XXXX	XX	XX	XX	XX	XX	XX	XXXX												
CIR			X	XX	X						X	XXXX																					
CIS																																	
CIT	X	X	X	X	XX		XX	X			X	X																					
CIW																																	
CJV																																	
CKL	X	X		XXXX	XX		X	X	X		X	X	XX	X	X	XXXX	X	XX	XXXX	X	XX												
CKN	X	X	X	XXXX	XX		X	X	X	X		X	XXXX	X		XXXX	X	XXXX	XXXX	X	X	X											
CKT	X	X	X	XXXX	XX		X	X	X	X	X	X	XXXX	X		XXXX	X	XXXX	XXXX	X	X	X											
CLC																																	
CLKR			X	X																													
CLL	XXX	XXXXXXXXXXXXXXXXXXXX	XX			XX	XX	X	X		X	XX	XXXX	XXXX	XX		XXXXXXXX	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XX	X	X		X	XXXXXXXXXXXXXXXXXXXX	XXXX	X	XXXX	X	XXXX		
CLLP	X	XX	XX			X	X	X	X		X	X	XX	X	X		XX	X	X		XX												
CMB			XXXX	X	XX	X			XX	XXXX	X		XXXX	XXXX																			
CMCZ																																	
CML			X		X																												
CMP			X	X	X	X		X	X		XX	X	XX	X	X		X	X	XX	X	X	X	X	X									
CN2	X	X	X	XX	XXXXXX		XX	XX	X	X	XX	XX	XX	X	X		XXXX	XX	XXXX	X	XXXXXXXX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XX	X	XX	X	X
CNB	X			XX	X	XX	X		XXXX	XX	X	XXXX	XX	X	XXXX	XX	XX	XXXX	XX	XXXX	XX	XXXX	X	XXXX	X	XXXX	XXXX	XX	X	XX	X	X	
CNIL				X	X				X		X	X	X																				
CNPM	XX	XX	X	X	XXXXXX	XX		X	X	X		XX	XXXX	X		XXXXXX	X	XXXXXX	X	XX	X		XX	XX	X	XXXX	X		XX	XX	XX		
COE	XXX		X	X	XX	X		X	X	X		X	XX	X		X	X		X	XXXXXXXXXXXXXXXXXXXX		X	X	XX	XX		XX	X	X	XX	XX	XXX	
COL			XXXX	XX	X		X																										
COLF		X	X		X																												
COOL	X			XXX	XX	X		XXXX	X	X	XX	X	XX	X		XX	X	X	XX	X	XX	X	XX	X	XX		X	XX	X	XX		X	
COP				X	X																												
COTA			X				X	X	X																								
COY																																	
CP2	XX	XX	X	XXXXXXXXXX	XXXX		XX	X	X	X		X	XX	XX	XXXXXXXXXXXX		XXXXXXXX		XXXXXX	X	X	XX	X	XX	XX		XXXXXXXX	X		XX	XX	X	
CPD		X	XX	X																													
CPM							X	X	X	X		X	X	X	X																		
CRE																																	
CRGC			X																														
CRM	XX		X	X	X	XX		XX		XX		X																					
CROR			X		XX	X	X		XX	XX		X	X																				
CRP	XX	XX	X	XXXXXXXXXX	XXXX		XX	X	X	X		XX	XXXX	XXXX																			
CRX			X		X	X																											
CSP																																	
CSS			X		X	X	X		XX		X	X	X	XX	X	XXXX	X	X	X	XX	X	X											
CSY				XXX	XX	XX																											
CTA				XX			X		XX																								
CTAO				XX		XX	X																										
CTB	X		XX	X	XXXX	X	X	XXXX	X	X	X		XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		XXXX		X	X					
CTCR		XX		X			X	X		X																							
CTGM	X			XX	XXXX																												
CTI				X	X	X	X		X	X																							
CTM				X																													
CTT	X	XXXX	X	XXX	XX		X	X	XX	XXXX	XXXX		X	XX	XXXX	XXXX	X		X	X	X	X	X	X	X	X		XX	XX	XXXX		X	
CUT	XX	X	X	X	X	XXXX		X	X	X	X	X		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CVA	XX	X		X	XXXX	XX		X	X	X		X	XXXX	X		XXXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XXXX	XX		XX			
CVL				X		X																											
CVP	XX	XX	X	X	XXXXXXXXXXXX		XXXX	X		XXXXXXXXXXXX	X	X	XX	XXXX	X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X		X	XXXX	X	XXXX	XX	X	XX	
CWCR			X																														
CYK	X			X		X																											
CZD	X			X		X																											
DAG	X	XXXXXXXXXXXX		XXXX	XXXX		XX	X	X	X	XX	XXXX	XXXX	XXXXXXXXXXXX		XXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XXXX	X	XX	XXXX	XXXX	XXXX	
DAU			XXX	X	XX	XXXX		XX	X	X		X	XX	X																			
DAV	X		XX	X	XXXX		X	XX			X	X	X							</													



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MKS	X	X	X												X	X		X	X	X	X	X				X	X	X			X	XXX	
MLR	X	XX		XXXXXXXXXXXX		X	XXXXXXXXXX	XXX	X	XXX	XX	XXXXXXXXXXXX	XX		XXX	X	X	X	X	X	XX	XXXXXXXXXX	X	XXXX				XXXXXXXXXX	X	X	XX		
MLY	X	X		X	X	X	XXX	X		X		X	XX			XXX	X	X	X	X	X	XX	X	X	X	X	X	X			X	XX	
MMB				XX	X	XX		X				XXX																					
MME				X		X																				XXX		XXX					
MMK				X	X		X	X				X	X							X	X	X											
MMPM		XX		X	X	X		X		XX		X	X	X						XX	X	X				XXXX	X	X			X		
MNDI	X	X	X	X		X	XXX	XX	XXXXXXXX											XX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXX	XXXXXXXXXX	XX					X	
MNG													X	X							XXXXXXXXXXXXXX	XX	XXX	X	XXX	XXX	X	XX	XXX	XXX	XXXX	X	X
MNI		X	XX																														
MNK			X		XXX	X	X		X			X	X													X	X	XX			X		
MNS																																	
MOCB																																	
MOE	X			X		XX	XX	X		X		X		XXXX	X		X		X	X	X				X	X		XXXXXXXXXX			X	X	
MOF				X																													
MOL																																	
MOMI	X			X		XX	X																										
MOR8		X					X	XX	X	X																							
MORO	X	X			XX	X	XX	XXX		XX		XX	X																				
MOS	X	X		XXXX	X	XX	X		X	X																							
MOTA	X	XX		XXX	X			XX																									
MOW																																	
MOX	X	X		XXXXXXXXXX	XX	XX	XX	X		X	X	XXX	X	X	X																		
MOZ																																	
MPA	XX	XX	X		X	XXXX	XX		X	X	X		XX	XXXX	X																		
MQZ																																	
MRCM		X		X	X																												
MRRJ	X		X			XX	X																										
MRW																																	
MRWA	XX	X		X	XXXXXXXXXX	X	X	XX		X	X	X	X		X	XX	XXXX	XXX	XXX	X		X	X	XXXXXX	X	XXXXXX	XXXX						
MRX																																	
MSC																																	
MSCZ																																	
MSU	X	X	X	XXXX		XX	XX	X	X	X	X	XXXXXX	XX	X	XXXX	X	X	XXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XX	XX	XX	X	XXXXXXXXXX	X	X	XXXX	XX	XX	XXXX			
MTA		X		XXXX		X	X	XX		X	X																						
MTD	X	X		X		XXX	X																										
MTE																																	
MTMJ	X		XX	X	XXXX	X	XX	X	X	XX	X	XX	XX	XXX	X																		
MTMW			X				X	XX	X																								
MTN	X	XXX	X	XXXXXXXXXXXXXX	XXXXXXXXXX	X	XXXX	X	XXXXXX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
MTU	X	X	X		XXX																												
MTUM	XXX	X	X	X	XX																												
MTW																																	
MUD		X		XXX	X		XX																										
MUN	X	X		XXXXXXXXXX	X	X	XXXX																										
MVIF				X	X		X																										
MVM	XX		X	X	X	XX	XXX	XX	X	XX	X	X	X																				
MVO	XX		X	XX																													
MWC																																	
MYNC																																	
MZX																																	
NAI																																	
NAV																																	
NB2																																	
NCG	XX	X	X	X	XX	XX	X	X	X	X	XX	XXXX	X	XXXX	X	X	XXXX	X	X	X	X	X	X	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
NCOR																																	
NCT	XX	XX	X	X	XXXX	XX		X	X																								
NDI	XX	XXX	XXXX	XXXXXX	X	XX	X	X	XX	X	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
NEA	X	X		X	X	XXX		X	X																								
NEW	XX	XX	XXXX	X	XX	XXX		X		X	X	X		XX	XX	X	X	X	XX	X	X	X	X	X	XX	XX	XX	XX	XX	XX	XX	XX	
NEZ																																	
NGZ																																	
NIJ	X		X		XXXX	X																											
NIL																																	
NJ2	X	X		XXXX	X	XXXX		XX	X		X	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
NKA	X	XX	X		XXXX	XX		X	X	X	XX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
NKY		X	X	X	XX	XX		XX	X	X	X	XX	XX	XX	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
NMC																																	
NNA	XX	X	XX		XX	X	X	XXX	X	X		X	XX	X	X	X	XX	XXX	X	XXXX	X	XX	X	X	XXXX	XX	XX	XX	XX	XX	XX	XX	
NNP	XXX	X		XXX		X	XXX	X	X																								
NOZ																																	
NPS																																	
NRA0																																	
NRE0																																	
NR2																																	
NSD																																	
NSS																																	
NST	X	X		X	XX	XXXX	X	XX	XXX	X	X	XX	XXX	XX	X																		
NTYM		XX	X		X	X																											
NUR	X	X		XXXX	XXXX	X	X	XXXX																									



DATE		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NVL			X		XXXX		XXXXXX	X	X	X	XX		XXXX	XXXX	XXXXXX	XX	X	X	XXX		X	XXX		XXXX	X	X	X	X	X	XXX		XXXX	X	X	X	X	X	XXX		XXXX	X	X	X	X	XXX		XXXX	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		



DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
POF											X	X		X			X	XX		X		X			X	X	X	X		X	X			
POO	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XX	XX	XXXXXXXXXXXXXXXXXXXX	XX	XX	XXXXXXXXXXXXXXXXXXXX	XX	XX	XXXXXXXXXXXXXXXXXXXX	XXXX	XX	XX	XX	XX	XX	X	X	XX	XXXXXXXX	XXXX	XXXX	XXXX	X	XX	XXXXXXXX	XXXX	XXXX	X	XX			
PORP	X	XX				X	X	X		X									X															
PPCY		X	XX						X	X	X	XX		X	X	X	XXX	X				X				X	X			XX		X		
PPD			X			X	X	XX	XX	X	XX	XXXX		X	X	X	X	XXXX								X	X			XX		X		
PPM		X	XX	X	XX	XXXX	XX	XX	XX	XX	X	XX	XX	X	X	XXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX		X		XXXX	XX	XX	XXXX	XXXX		X	X	
PPN			X	X	XX	X		X		X	X					XX	XX	XXXX	X	X					X	X			XXXX			X	X	
PPR							X				X			X	X	X	XXX	X	XXXX	X	X				X				X					
PPT			X	X	XX	X		X		X	X					X	XX	XXXX	X	X					X									
PRCM				X						X	X		X				XX	X	XXXX						X		X			XX		X		
PRI				X		X				X	X		XX		X		XXXX	XXXX			X		X	X		X			X			X		
PRK			XX	X	X	XX		X	X	X		X		X						X	XX	X				X	XX	X		XX	X	X	X	
PRM			X	X		X	XX	XX	X		X	XXX		XX		X	X	XXX	X	XX	X	X	XX			XXXX	XX	X	X	XX		X	X	
PRP		X			X					X																XX	X	X	X		XX		X	
PRU	X	X	X	X	XXXXXXXXXXXX	XX	XX	X	X	X	XX	XXXXXXXXXXXX	X	X	XXXXXXXX	XXXXXXXX	XXXX	XXXX	XXXX	XX	X				XX	XXXX	XX	XXXX	XXXX	XXXX	X	X	X	
PRY			X			X	X	X	XX	X	X					X	X							X	XXXX	X		X						
PSAM				X							X		X				XX	X	XXXXXXXX													X	X	
PSMM				X							X	X					X	XX	XX	XXXX	X						X			X	X	X		
PSO		X	X			X	X	X		X	X	X					X	X	XX	X	X	X				XXXX								
PSRM				X							X						X	X		XX	X									XX				
PSTH				X							X	X					XX	XX	XXXXXXXX								X	X	X	X	XX			
PSZ						XX		XX			X	X	XX	X	X	X	X	XX								XXXX	XX	XX	X		X	X		
PTI			XX	X	XX	X	X	XX	X	X	X	X	X		X	XX	XX							X	XXXX	XX		X	X	XX		X	X	
PTJ			XX	XX	X	XX	X	X	XX	XX	X	X	XX	XX	X	X	XX	XX	XXXX	XX	XXXX	XX	X	XX	X	XX	X	XX	X	X	X		X	
PTO			X		X						X								X	XXXX	XX	XX	X	X	XX	X	XX	X	X	X	X	X		
PTRM				X																X	X	X												
PTV				X									X						XXXX	XXXX	XX						X		X	X	XX			
PUL			X	X		X		X	X										XXXX	XXXX	XX						X		X	X	XX			
PUZ																						X	X			X	X	X		X		X		
PV08	X		XXX	X	XX	X	X	XX	XX	X	X	X	X	XX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX		X	XX	XX	X	XX	X	X	X	XX	X	XX	
PV09	X		XXX	X	XX	XXX		X	X	X	X	XX	X	XX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX		X	XX	XX	X	XX	X	X	X	XX	XX	X	
PV10	X	X	XXXX	X	XXXX	XX	XXXX	X	X	XXXX	XX	X	X	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XX	XX	XX	XX	X	X	X	XX	XX	XX	
PVC			X	X		X	XX	X	X		X								XXXX	XXXX	XX	XXXX					X	X						
PVL					X				XXX																		XX		XXX					
PVRC											X								XXX								X	X	X	X		X		
PVY		X	X	X	XX	XX		XX	X	X	XX	XX		XX	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	
PWA	XX	XX	X	X	XXXX	XXXX	X	X	X	X		XX	XXXX	XX	XXXX	X	XXXX	X	XXXX	X	XX	XX	X	XX	XX	XX	XX	XX	XX	XXXX		XXXX		
PWL	XX	XX	X		XXXXXXXX	XX		X	X	X		XX	XXXX	X	XXXX	X	XXXX	XX	XXXX	X	XX	X	XX	XX	X	XXXX	XX	XX	XX	XXXX		XXXX		
PYA	X	X	XX	X	X	X		XX	X		X	X															X	X	XX	X			X	
PYR																										X	X	X	X			XXX		
PZZ		X	XX	XXX	X	X	X	XXXX		X	XX	XXXXXXXX	X	X	XX	X	X	XX	XXXXXXXXXXXX	XXXX					XX	X	XX	X	XX	XX	X	X	XX	
QAL												X							XX	X					XX	X		X	X	X	X	X		
QASM	X	X	X	X	X	X	X	X		X		XX				X	X	X	X	X		X	X			X	X		X			X		
QCP	X		XX	X		XX		X			X	X		X	X	X	X	X	X	X	X	X	X			X	X					X	X	
QIS	XX	X	X	XX		XXXX		XX	XX		X	X		X	XXX	XX	XXXX	X	X	X	XX	XXXX	XX		X	X	X	XX		X	X	XXXX		
QIZ			X	X	XXXX	X		XX	X		X	X		X	X	X	X	XX	X	X	X	X	X	X			X					X		
QPS		XXX		X			X				X			XX	X		X	X		X	X													
QRZ																			XXX	XXXX	XXXX	XX	XXXX											
QTFJ							X				X	X							XXX	XXXX	XXXX	XX	XXXX	X				X	X	X	X	X	X	
QTFJ																			X															
QUE	XX	XX		X	XX	XXXX	XXXX	X		XX	X	XX	X	XX	X	XX	XX	X	XX								X	X						
QVP		XX	X	X	X			X		X	X			X	X	X	X	X	XX	XX	X	X	XXXX			X		X		X			X	
QZH			XXXX		XXXX		X	X		X	X	X	X		XX		X	XX	X	X	X	X	X				XX		X	X				
RAB	XXXX	X		XX	X	XXXX		X		XXXX	X	XXXX	X	XXXX	XXXX		X	X	XX	X	X	X	X	X			X	X	X		XXXX			
RAGM	X			X			X		X		X		X	XXXX	X	X	X	X									X	X	X					
RAO				X			X			X	X	X																					X	
RAY																			X	X	X											X	X	
RCWM		XX		X				X						X		X	X	XXXXXXXXXXXXXXXXXXXX	X							XXXX	XX	XXXX	XXXX	XXXX		X		
RDO				XX	X	XX		X	XX	X	X	XX	X	X	XX		X	X				X	XX	X			X	XX		XXXX	X		X	
RDW	XX	XX	X	X	X	XXXX	XX	X	X	X		XX	XXXX	X	XXXX	X	XXXX	XX	XXXX	X	XX	X	X	XX	XX	XXXX	X		XX	XX	XXXX		X	
RED		X	XX	X		XXXX	XX	X	X	X		XX	X	X	X	XXXX	X	XXXX	XX	XX	X	X	XX	XX	XXXX	X		XX	XX	XXXX			X	
REF	XX	XX	X		XXXX	XX		X	X	X		XX	XXXX	X	XXXX	XX	XXXX	X	XX	X	XX	XX	XX	XXXX	XX		XX	XX		XXXX				
RES	XXXXXXXXXXXX	X	XXX										XXXX	XXXX	X	XX	XX	XXXX	XXXX	X	XXXX					X	XX	X	X	XX	XX	X	XX	
REVF			X		X	X				XX	X	X					X				XX	XX	XX		X		X	X	XX					
RIN3		X					X	X					X	X					X								X		X	X			X	
RIY			XXXX		XX			X	XX	X	XX		X	X	X	X		X	XX	XX	XX	XXXX		XX	X	X	XX	XXXX	X	X	X			
RJF	X	XX	XX		X		XX	XX	X	XX	X	XX	X	XXX	X	XX	X		XXXX	X							X	XXX		X	X	X	XXX	
RKG				XX	X	X				X				X	XX																			
RMR																																		
RMW			XXX		XX	X	X	XX	X	X	X	XX	X		X	XX	XXXX	X	XX	X		XXXX				XXXXXXXX	X	XX		X	XXX			
RND	X	X	X	X	X	XXXX	X		X	X	X	X	X		X		XXXX	X	X	XXXX	X	XX		X	XX		XX	XX	XX	XX	XXXX		X	
RNO				X		XX	X		X	X	X	X		X			XX	X	XX	X	X	X	X	X	X	X								
ROB		X	XX	XX		X	X	X	XXXX	X	XX	XXXXXXXX	X	X	X	X	X	XXXXXXXXXXXX	XXXX						XX	X	XX	X	XXXX	XX	X	X	X	XX
ROCH	XX	X	XX	XXXX	XXXX	XX	XXXXXXXX	XX	XXXXXXXX	X	XXXX	X																						



[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	31			
SRU	XXX	XX	XX		X	XXXXXX		XX	X		X	X	X			X	XXXXXXX	XXXXXX	XXXXXX	X	X	XX	XX	X	XX	X	X	X	XX	XX	X	XX		
SS2																	XX	X							X	X	XXX	X	X	X				
SSB			XX		X						X	XX	X	X			X			X	X				X	X	X							
SSE	X	X	XXXXXXXXXXXXXXXXXXXX					X	XXX	XX	XX	XXXXX	XXXXX	XXXXX	XX	XXXX	XX	XXXXXX	XXXXXX	X	XX			X	X	XXXX	X	XXXX	XX	XX	X	XX		
SSF	XXX	X	XXXXXX	XX	X	X	XX	X	X	XXXX	X	XX	X	XX	X	XX	XXXX	X	XXXX	XX					X	X	XXXX	X	XXXX	XX	XX	X	XX	
SSK		X	X	X	X	X	X		X	XXX	X	XX	X	XX	X	XX																		
SSOR				XX			X		X	X	X		X																					
SSR				X	X				X		XX			X	X	X								X	X	X		XX	X					
STAN		X	X		X					X	X		X			X			XX	X	X	X	X	X							X			
STCO			X		X					X	X	X				X		X				X												
STK	XXXX		XXXXXXXXXX		X	XXX	XX	XX	X	XXXXXXXXXXXX					XXX	XXXX	XXXX				XXXXXXXXXX	XXXXXXXXXXXX	XXXXXX	XX	XXXX			X	XX	XXX	XXXX			
STKA	XX																																	
STS				X			X				X					X	XX	X	X					X	X		XX	X		X		X		
STTC											X						X	X	X							XX	X	XX	X	X	XXXX	X		
STV		X	XX	XXX		X	X	X	X	XX		X	X	XXXXXX	X	X	XX	X	XXXXXXXXXXXX	XXXX	X	X			X	X	XX	XXX	XXX	X	X	X	XX	
STW			X		X						X					X	XX	X	X	X	X			X		X		X						
SUA	XX	XX	X		X	XXX	XX		X	X	X	X	XX	XXXX	X	XXXXXX	X	XX	X	X	XX	XX	X	XXXXXX	XX	XX	XX		XXXX					
SUE		X		XX	X	X			X	X	X	X	X	XX	X		X	XX	XX						X	X	X	X	X	X	X			
SUR			XX	XX	XX	XXX		XX	X	XX	X	X		X	X	XX		XX	X	XX	X	X	X	X	X	XX	X	XX	XX	X	X	X	X	
SVA			X	X	X	X	X	X						X	X	X				XXXX	XXXX	X				X				X	X	X		
SVB					XXXXX	X		X		X	X				X	X	XX	X		XX	X			X		X	X	X	X	X				
SVE	X	X	X	X	X	XX	X		XX	X	X														X	X	X	XX	X	X	X			
SVV					XXX	X		X	X	X						X	X	X		X				X			X	X	X					
SVW	XX	XX	XXXXXXXXXXXX	XXX		XX	XXX	X		X	XX	XX	XX	XXXXXX	XXXXXX	X	XXXXXX	XXXX	XX	X	X	XX		X	XX	XXXX	X	XX	XXX	X	XXXX		X	
SWI															XXX	X	X	XXX										X				XX		
SWZ			X	XXXX	X		X	X	XX	XX	X	XXX					XX		XX	X	X			XXX			XX	X	XXX	X	X	XX		
SYI	XX	XX	X	X	XXXX	XX			X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXX			XX	X	XXX	X	X	XX		
SYO	X			XXX	XXX	XX		XXX	X	X	XX		XXX	X	X	XXXX	X	XX	X	XX	X	X	XX		X	X	XX	X	X		XX	X		
SZP		XX	XXX	XX	XXX	XX	X		XXXX	X	X	X	XXXX	X	X	XXXX	X	XX	XX	X	X	XXXX	X	XXXX		X	X	XXXX	XXXX	X	X	XX	XX	
TAB	X	XX	XXXXXX	XX	X		XXX	X		XXXXXXXXXX	X	X	X	X	X	XX	X	XXXX	X	XXXX	X	XX	X	XX	X	XX	XX	XX	XX	X	X	XX	XX	
TACH	XX	X	XX	XXX	XXX	XX	XXXXXXXXXX	XX	XXXXXXXXXX	X	XXX	X		X	XXXXXX	X	XXXX	XXXX										XX	XXX	X	XXXX			
TATO			X	X	XX					X							X	XX	X	X														
TBH		X				X	X	XX	X		X				XX	X		X	X	X	X						X	X	X					
TCE		X				X	X	XX	X		X				XX	X		X	X	X							X	X						
TCF	X	XXX		XXX	X	X	X		X	X	XXXX	X	XX	XXXX		XX	XX	X	XXXX	XX							XXXX	X	XX		XXX			
TCO						X	XX	X	X								X	X	X															
TCW																X	X	XXXX	XX	X	X	XX	X		XXX	X		X	XXX		X	X	X	
TEHZ																X	XXXX	XX	X	X	XXXX	X						X	X		X	X	X	
TEJ										X	X																							
TER		X	X							X						X										X	X	XXXX	X	XX	X	X		
TGL	X	X		XX	XX		X		XX	X	X	XX	X	X	X	XX	X	X	X	X	X	XX	XX	X	XX	X	X	XX	X	XX	X	XX	XX	
TGY	XX		X		XXX		X	X		X			XX	X	X		XX	XXXX	X	X	XX	X	X	X	X	XX	XX	X	XX	XX	XX	XX	XX	
THE	XX		XXXXX	X	XXXX	X	XXXX	XXX	X	XXXX		X	XX	XX	XX		XX		X	X	XX	X	X	X	XXXX	X	X	XXXX	X	X	XX	XX	XX	
THZ																																		
TIA	X	X	XX	XX	XXXXXX		XX	XX		X	X	XX	XX	X	XX	XXXX	X	XX	XX	XX	XX	X	XXXX		XXXX		X	XXX	X	X	X	X	X	
TIC	X	X	X	XXX	XXXXXXX	X	XXXXXXX	XXX	XXXXXX	XXX	XXXXXX	XXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XX	XXX	
TIG		XXX		X			X																											
TIO	X	X	XXXX	XX	X	X	XX		XX	X																								
TIR	X	X	X	XXX	X	XX	XXXXXX	XX		X	X	XXX	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TIY	X	X	XX	XXXXXXXXXX	X	XX	XX	X	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TJR																																		
TKSJ	X		XX	X	XXX	X	X	XX	XX	X	X	X	XX	X	XX	XXXX	X	XX	X	XX	X	X		X	X	X	X	X	X	X	XXXX	X		
TLE															XXXX	XX	XXXX				X													
TMA				X	X	X				X	X						XX	X	XX	X	X	X	X	X	X	XXXX	X	X		X	X			
TMB										X																	XXXX	X	X	XXXX	XXX	X	X	
TMW	X	X		X					X		X					X	X	X		X			XX	X			X	X		X	X			
TNE															XXX	X		X	X								XX							
TNP	XXXX	X	X	X	XX	X	X		X	XX		X	X	XX	XX		XX	X	X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	X	XXXXXX	XX	XXXX	XX	XXXX	XXXX	XX	XX	XXXX	XX	X
TNR					X												X	X	X	X	X	X												
TNS			X		X				X	X	XX		X	X	X	X	XX	X	X	X	X	X				X	X	X	X	XX	X	X		
TOA	XX	XX	XXXXXX	XXX	X	X	XX	X	X	XX	XX	XX	X	X	XXXX	X	XXXXXX	XXXX	XX	X	X	XX	XX	XX	XX	XXXX	X	XX	XX		XXXX	X		
TOO	XXXX	XX	XXX	XXXXXX	X	X	XX	X	X	XX	X	XXXXXX	XX	XX	XXXX	XXXX	XX	XXXXXX	X	X	XXXX	X	X	XXXX	X	X	X	X		X	X	X	X	
TOUF			XX	XX	X	X			X	XX	X	X	X	X			X	X	X	XXXXXXXXXXXX	XXXX	X	X	X	X	XXXX	X							
TOV	XXXX	XX	XXXX	XXXX	XXXX	XX	XXXX	X	XX	XX	XX	XX	XXXX	XX	XX	XX	XX	XX	XXXXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
TOW		X					X		X	X		X	XX			X		X	XXXXXXXXXXXXXXXXXXXX	X						XXXX	XX	XXXX	XXX	X	XX			
TPC																																		
TPE		XX	X	XXX	X	XX		X															X	X										
TPI														X	XX	X	X		X	X														
TPNV	XX	X	XXXXX		XX	XXXX	X	X	X	XX		X	XXX	X	XXXXXX	X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
TPO																																		
TPP								X	X		X					XX	X					X					X	X	X					
TPRS																																		



DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
TSY	X		X	X	X				X		X	X					X								X	X		X	X				
TTA	XX	XX	XXXXXXXXXX	XXXX		XX	XX	X	X	XX	XX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XX	X	XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XX	X	
TTG	X		X	X	XX	XX			XX	X	X	X	XX	XX	X	XX	X	X				X	X	X	X	X	X	X	X	X	X		
TTH																																	
TUC	X		XXXX	X	XX	XXXX		XX	X	X	X	XXXX		X	XX	X		XX	XXXX	XXXXXX	XXXXXX	X	X	XX	X	X	XXXX	XX	X	X	X		
TUL			X	X	XXXXXXXX	XXXX	XX	XX	XX	XX	X	XX		XX	XX		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX	XX	X	XXXXXXXX	XXXX		XXXX			XX		X	
TUZ																X	X	X		X	X	X			XX	X		X	X		X		
TVO			X	X	XX	X		X		X	X					X		XX		XX	X	X				X		X		X	X		
TWL																																	
TYNO			X		X					X	X	XX				X		X			X	X	X			XXXX	XX	XXXX	X	X	XXXX	X	
TZK	X		XX		X	X					X			X								X						X	X	X		X	
TZL	X	X		X	XXX	X		X	X		X	X		XXX		X	XXX	X	X			X	XX	X	X		X	XX		XX	X		
UCC			X	X	X		X			X	X	X			X		XX		X		X	X								X			
UER					XX	X																											
ULC		X	X	X	XX	XX		X	X	X	XX	XX		X	X	X	XX	X	X	X		X	X	X	X	X	XX	X		X	X	X	
ULM	X	XX	XXXX	XXXX	XXXX								XX	X	XX	X	XX	XX	XXXXXXXX	XXXX						XXXX	X	X	XXXX	X	XXXX	X	
UNM		X			X	X		X	X	X		X		X	X											XXXX	X	X	XXXX		X	XXXX	
UPA		XX		X	X	X		XX		X	X		X	X		X	X		X		X	X				X	X	X		X			
UPP		X	XX	X	XX	X		XX	X	XX	X	X		XX			XXX	XXX	XXX	XX	X	X				X	X	X	X	X	X		
UQSK	X	X	X	X	X	X		X	XX				X			X		X		X		X					X	X		X		X	
UYO		XX	X	X	X	XXXX	X	XXXX	XX	XX		X	XXXX	X	XXXXXXXX	XXXXXX	X	XX	XXXX	X	XXXX	XX	XXXXXXXX	XXXXXXXX	X	XXXXXX	X	XX	XXXX	X	XX	X	
UZD			XX	X	X		X			X	XX	X		X	XX		X	X	X	X	X				X	X	X						
UZH	X	X	XXXX	X	X	X	XX	X		X	X	X					XX				X	X				X	X	X	X		X	X	
VAH			X	X	XX	X	X		X		X						XX	XX	XXX	X	X					X						X	
VAI		X	X	X	X	X	X		X			X	X													X						X	
VAM			X		X	XXXX	X	XX	X	X		X	XXXXXXXX	X	X	X	XXXXXX	XX	XX	X	X	X	XX	XXXX		X	XX	XXXX	X	X	XX	XX	
VAO					XXXX	X	XX	X	X		X	X	XX	X	XX		X	X	XX		XX					X	X	X	X	X	X	X	
VAO2																																	
VAY	XX	X	XXXXX	XXXXXXXX	X	XXXXXXXXXXXX	X		X	XXXXXX	XXXX	XX	XXXXXXXXXXXX	XXXXXX	XXXX	XX	XXXX	XXXX	XX	XX	XX	XX	XXXX	X	XXXXXX	XX		XXXX	X	XXXX			
VBEM			X		X	X										X	X	XXXX	X	X	XX	X	XXXX	X	XXXX	XX		XX	XX				
VBV	XX	X	X	X	X	XXXX	X	XXXX	X		XX	XX	XXXX	X	XXXX	XXXXXX	XX	XX	XXXX	XX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXXXX	XX	XX	X	X	X	XX	
VC1			X			X	X	X		X							X					XXXX	X			X		X					
VDL			X	X	X	X	X		X	X	X		X					X	X	X		X				X							
VGB		X	XXX	X	XX	X	X	XXXX	X	XX	X	X	XX	X	X		XX	XXXX	X	XX	XXXX	X	X	XX	X	XXX	XXXX	X	X		XX	X	
VIM			X	XX	X	X	XXXX	X	XX	X		X			X		XXXX	X	X	X	X	X		X	XX	XX	X	X		X	XX	X	
VITF			XX		X	X		X	X	XX		X		X	X		XX	XXX	XXX	X	X	X		X									
VKA			X	XX	XX	X	XX		X		X	X	XXX				X		X	X	X	XX										X	
VLA			X					X	X		X	X										X										X	
VLI		X	X	XX	X	X	XX	X		X	XXXXXXXX	X	X	XX	XXXXXX	XXXX	XX	X	X	X	XX	XXX		X	XX	XX	X	XX	XX	X		X	
VLO	X	XX	X	X	XX		X	XXX	X	X	XX	X	X	X	X		X				X	XX	X		X		X		XX	XX		XX	
VLS	X	X	X	X	X	XX		X	X	XXX	X	XXXXXX	X	X			XX	X		X	X	XXXX		X	XX	XX	X	XX					
VLZ	X	X		XXXXXXXX		X	X	X	XX	X		X	XXXX	XXXXXX	X	XX	XXXX	XX	XX	XX	XX	XX	X	XX	XX	X	XX	XX		XXXX			
VOY	X	XX	XX	X	XX		X	X	XXXX	X	XXX		X	X	X	X	X	XX	XX	XX	XX	X	X	XX	XX	XXXX	XX	XX	X	X	X	XX	
VPBM		X	X				X								X		X	XXXXXXXXXXXX	X						X	X	XXX	XXX	X	X	X		
VRC					X	XXXX	X	XX							X	X		X								X	X	XXX	XXX	X	X	X	
VRI	X		X	XX	X	X	XX	X	XXXX	XXXX	X	XX	XXXX	XXXXXX	XX	XX	XX		X	XX	XX	X		XXX					XXXXXX	XXXX	XX		
VTS			X	X	XXX		XX		XX																								
VTU		X	X		X		X						XX			X	X			X	X					X		X		X			
VUN			X	X		X	X		X				X	X	X	X			XXX	X	XX	X	XXX										
VZW	X	X		X	XX	X						X	XXXX	X	XXXXXX	X	XXXXXX	X	XXXX	X	XX	X	X	XX	X		XX		X	XX	X	X	X
WAH2			X		XX	X	X		XX	X		X	X			X	XXX	X	X	X	X	X	X		X								
WAH2																X	X	XXXX	XX	X	X	X	XXXX	XXXX	X	X		X	XX	X		X	X
WAJH																	X				X	X	X	X									
WABW	XX	X	XX	XXXXXXXXXXXX	X		XXXX	XXXX		XX	X	X	XXX	XX	X	XXXXXXXXXXXX			XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X
WASM		XX																															
WATA	X	XX	XXXX	X	X		XX		XX	X	XXX	X	X	XX	X		X	X	X	XX	X	XX	X		X	X	XXXX	XXXX	XXXX	XXXX	X		
WB2			XXXXXXXXXXXX				XXXXXXXXXXXX						XXXXXXXXXXXX						XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
WB5			X	X	X	X		X		X	X						X	X		X	X					X	X						
WBSM		XX	X				X	X	X				XX													XX	X	X	XXXX	X	XXXX		
WCHM		XX	X				X	X				X														X	X	XX	XXXX	XXXX	XXXX		
WDC			XXXX	X	XX	X		XXX	X	X	X	XX	X		XX	X	X	XXXX	X	X	XX	X	X	X		X	XXX	XX	X		X	X	
WEL																	X	XX	X	X													
WET			X	X		XX	X	XX		X	X	XXX	X	X	X	X		XX			X	XX				X	X	X	XX		X	X	
WHFM																																	
WHN	X		XX	XX	XX	X		XX	X		X	X	XX	XX		X	X	XX	XX	X	XX	X	X	X	X	XX	X	X	X	X	X	X	
WHVM																																	
WHZ																																	
WIN			XX		XXXXXX				XX	XXXX	X	X		X	XXX		XX		X	X	X	XX	XX	X		XX	X		X	X	X	XX	
WIT			X				XX		X	X	XX																						
WJPM		X						X						X				X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
WKR				X							X	X																					
WKYJ	X		XX	X	XXX	X	X		XX	XX	X	X	XX	X	XX	XX	X	XX	X	XX	X		X			X	X	X	XX	X		X	X
WLF	X	X	X	XX	XX	X		XXXX		X	X	XX	X	X	X	X	X	X	XXXX	XXXX	X	XX	XX	X	X	XXXX	X	X	X	XX	XX	X	XX
WLHM		XX		X	X			X				X																					
WLS			X			X					X	X	XX	X	X		X	X	</														



DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
WORM	X	X								X			X				X	XXXXXXXXXXXXXXXX							XXX	X	X	XXX		XX	X	X				
WPW					X		X	XX									X		XX		X					X	X									
WRA						XXXXXXXXXXXXXXXX							XXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXX								XXXXXXXXXXXXXXXX												
WRH	X	X	X	X	XXX	X		X	X	X	X		X	XX		XXXX	X	X	X	XX	XX	X	X	XX	X	X	XX		X	XX		X	XX			
WSCM																	X	XXX		X							X	X	XXX	X		X				
WSHM	XX							X		X															XXXXXXXX	XXXXXXXXXX	X	XXXX	X							
WTS					X		XX	X		XX	X	XX		X		X	XXX	X	XXXX	X	X	X			XXXX	X	X		X	X		X				
WTTA	X	XX	XXXX	X	XX	X	XX		X	XX	X	XXX	X	X	XX	X	X	X	X	X	XX	X	XX	XX	X	X	XX	XXXX	XX	XXXX	X		X	X		
WTV			X		XX	X	X		X		X	X		X	X	X		XXXX	X	X	X	X		X	X	XX	X	X								
WWKX	XXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX				XXXXXXXXXX		XXX	XX	XXX	X	XX	X	XX	X	XX	X	X	X	X	XXX	X		XXX	XXXXXXXX	XXX	XXXX		XX	XX	X	X			
WWPM																	X	XX	XX	XX					XX	X	X			X	XXX	X				
XAN	X	XX	XX	XX	XXXXXX	X		XX	XX	XX	XX	XX	XXX	XXXX	XXXX	XXXXXXXXXXXXXXXX	XXXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XX	X	XXX	X		
XLV	X	X			XXX						X		XX	X	X		XX	X				X	X		XXX	X		X								
XMS																		XX	XX	XX	X				XX	XXXXXX	XX		XX	XX						
YAH	X									X	X		X	XX				X	X									XX			X	X				
YAK	XX	X	XXXXXX	XXXXXX	X	XXX	XXX	X	X	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XX	XXXXXX	X	X	XXXX	X	X	X	XX	X	X	X		X		
YAMJ	X		X	XXX	X	X	XX	X		X	X		XXX	X	XXXX	X			X	X		X		X		X	X	X	X				X			
YBH			X	X			XX	X	X	X	X	X				XX		X		X	XX	XX	X	XX		X	XX	X					X			
YEG			X									X					XX	XXXXXXXX								X	X	X	X	X	XXXX	X	X			
YKA	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	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
YLV																	XX	X	X	X	XX	XX	XXXX	XX	XX	XX	X	XX	XXX	X	XXXXXXXX		X	XXX	X	
YONJ	X		XX	X	XXX	X		XX	XX		X	X	XX	X	X	XXX	X	XX	X	X	X	X		X		X	X	XX	X				X	X		
YSNY			XXXX	X	X	X	X			X	XX			X	X		XX	X	X	X	X	X			XXX	XX		X					XX			
YSS	X	X	X	XX	XX	X	XX	X		X	X	X					XX		X		X	X			X	X	X	X	X	X	X	X		X		
YYYY	XXX	XXX	X	XXXXXXXXXX	XXX												X	XXXXXX	XXXXXX	XXXX					XX	X	X	XX	XX	X	X	XX	X	X		
ZAG			XXX	X	X	X	XX	X		X	X	XX		X	X	X		X		X	X	X		X		X	XX	X								
ZAK	X	X	X	X	X	XX	X		XX	X		X	XX				X			X		X	XX		X	X	X	XX	X	X	X	X		X		
ZLA			X		X		X		X		X	X		X				X		X	X	X				XXX	X			X						
ZON			X	X	XX	X	X	X	X		XX	XX	X	X	X		X	X	XX				XXX	X	XX	XXX		X	X	X	X	X	X		X	
ZSP		X		X	X						XX			XX				X	X		XX															
ZST	X	X	X	XXXXXX	XXXX	XX	XX	X	X	X	X	X	XXX	XX	XXXXX	X	XXX						XXXXX	X	XXXXX	XXXXXXXXXX	XXXXXXXXXXXX	X	XXX	X	X			X	XX	

The following stations each reported less than 10 readings:

AAK	AARM	ADES	ADH	ADI	ADL	ADR	AEKI	AFDM	AFRM	AGC	AGO	AHRM	AKU	ALB	ALE	ALMG	ALPW
AMC	ANAT	ANCC	ANGS	ANGW	ANMO	ANN	ANZ	AODM	AOHM	APM	APRM	AQBJ	ARJM	ARS	ARVI	ASMM	ATA
ATZ	AVOW	AVRM	AZUC	BAK	BATC	BAVM	BBR	BCGM	BCKR	BCPM	BEAW	BER	BEW	BGC	BGG	BGH	BGIO
BGM	BHRM	BIB	BJO	BKC	BLN	BLO	BMK	BMNM	BNN	BNT	BOB	BOH	BOQS	BORS	BOT	BPBC	
BRGC	BRN	BRNI	BRNL	BRVW	BTB	BUD	BUNI	BUT	BVA	BVD	BVW	BWD	BZK	BZS	CALA	CASR	CAYA
CBKC	CBSW	CCW	CCYM	CDC	CDVM	CEI	CFT	CFTV	CHAF	CHOI	CHX	CIGS	CKI	CLMC	CMCM	CME	CMNM
CMPM	CNI	CNZ	CO2	COI	COLW	COR	COSM	CPE	CPIM	CPNM	CPS	CRF	CRNM	CRNY	CRPM	CRQM	CSB
CSLM	CSPM	CSR	CSSM	CSTL	CSVM	CTFE	CTW	CUSS	CVAL	CVN	CVPM	CVR	CVT	CWF	CYBM	DAF	DBN
DCO	DEV	DH2	DHW2	DIAC	DNP	DOI	DOMF	DOMO	DPC	DFMT	DRA	DRZ	DSI	DSVT	DUC	DUI	DYA
EAB	EAU	EBH	EBL	ECB	EDB	EDR	EDU	EKR	ELO	ELYF	EPH	ERK	ERM	ERPC	ERZ	ESD	ESK
ESY	ET3	ETB	ETW	EWC	EWZ	EZAM	FAI	FAR	FG2	FG3	FG4	FGO	FIR	FL2	FRGC	FTR	FUL
FXI	GACM	GARM	GAS	GAV	GAXM	GBDM	GBGM	GBL	GBMM	GCBM	GCG	GCRM	GCVM	GCWM	GDCM	GDR	GFP
GGC	GGUM	GHC	GHCM	GHGM	GHLM	GHEM	GHOM	GHS	GHVM	GHW	GIB	GL2	GLH	GLI	GLK	GMB	GMCM
GMKM	GMO	GNAM	GPMM	GRAI	GRB2	GRB4	GRB5	GRC1	GRC2	GRC4	GRDS	GROM	GRP	GRT	GSGM	GSI	GSM
GSNM	GTSM	GUAN	GULW	GUM2	GVMR	GVR	GVRG	GWKM	GWRM	GZR	HAE	HAY	HAYW	HBTM	HCG	HDW	HERM
HEX	HGH	HGWM	HIA	HITJ	HJGM	HKL	HLD	HMDT	HNB	HOBC	HOFF	HOLB	HOQC	HOR	HPE	HPO	HRI
HRSH	HRY	HSA	HSPM	HSR	HTL	HTR	HTW	HUTI	HVD	HYA	IAS	IIA	IIC	IIP	IKP	ILT	ILT
INDC	INGI	INMG	INS	INW	IXG	JAT	JAU	JAY	JBLM	JBMM	JCHM	JCPM	JEHI	JELM	JHA	JHLM	JHPM
JJRM	JLK	JLP	JMPM	JNAM	JPRM	JRDJ	JRGM	JRRM	JRS	JSBM	JSTM	JUCM	JVI	KAB	KARM	KALI	KBNM
KBRM	KBSM	KCPM	KCRM	KCTM	KEDI	KEE	KELI	KEV	KFPM	KGMM	KHEM	KHMM	KIB	KIPM	KJJM	KKH	KKPM
KLD	KLL	KMO	KMR	KNIM	KOE	KPPM	KRKM	KRPM	KSD	KSMH	KSPM	KSXM	KTD	KUF	KUR	LAQC	LAQC
LARI	LAZ	LBL	LBPM	LBRS	LCBS	LCFM	LCI	LCL	LCMM	LCR2	LDBM	LFRS	LFO	LHCM	LHE	LHEM	LHKM
LIS	LKC	LMW	LOC	LOCW	LOHW	LOMS	LPDM	LRCZ	LRDM	LRV	LSLM	LSPF	LT3	LTC	LTMT	LVP	LVP
LVZ	LXR	MAK	MAMI	MBET	MBH	MBW	MCO	MCT	MDA	MDI	MDRJ	MDW	MECC	MEMT	MENF	MEU	MEW
MGA	MGB	MGD	MGL	MGZ	MHR	MID	MIRC	MJ2	MKT	MLL	MLS	MMCZ	MML	MMR	MNHM	MNO	MNR
MOH	MOOW	MOP	MOR	MOY	MPOR	MRFM	MRL	MRPI	MSI	MSJ	MSTM	MTHF	MTR	MUDI	MVL	MXC	MZDA
NAB	NAC	NAO	NAQJ	NBPM	NCFM	NED	NEV	NFIM	NINI	NIZ	NKM	NLO	NLW	NMHM	NMTM	NNL	NOLM
NPRM	NSHM	NTBM	NVS	OBC	OBHM	OCM	OCR	OD2	OFK	OGOM	OLYC	ONR	OOW	OPA	ORL	ORO	OSD
OSG	OSR	OSUM	OT2	OTR	OWYM	OZB	PACI	PACW	PAGN	PAGV	PAS	PASI	PATZ	PCA	PCBI	PCF	PCG
PCL	PCRV	PDA	PDRM	PENI	PEV	PFB	PFO	PGB	PGC	PGO	PHC	PICS	PINI	PKA	PKH	PLD	PLDF
PMSA	PNJ	PNL	PNP	POA2	PRNI	PRS	PRW	PSD	PSI	PSN	PSP	PT03	PT06	PT10	PTE	PTS	PTT
PULI	PURC	PV01	PV03	PV04	PV06	PV07	PVPS	PWMM	PYM	PZI	QZG	RAMW	RANB	RANI	RAR	RATI	RCS
RDG	RDN	RDP	RDT	REDW	REMR	REMW	REY	RIB	RIFB	RIV	RNM	RMP	RSA	RSM	RSW	RWC	RWC
RUN	RVC	RVR	RW1	RW2	RW4	RW5	RW6	SAC	SADC	SAGE	SAL	SAP	SAPN	SARO	SBZC	SBI	SBM
SBO	SCE	SEC	SEG	SEMI	SET	SFL	SFS	SFT	SGAM	SAGI	SGH	SGL	SHE	SHH	SHK	SHWJ	SILC
SIMI	SINI	SIO	SIZ	SJAS	SJH	SJI	SKG	SKI	SKR	SLEB	SLW	SMNM	SNB	SNOW	SNT	SOB1	SOE
SOP	SOS	SOSW	SPA	SPBA	SRBF	SRDI	SRTC	STB	STEW	STR	SUP	SWM	SXM	SYF	TAF	TAHZ	TAIF
TAL	TANI	TARW	TAU	TAZ	TBM	TBR	TBT	TCC	TDD	TDH	TDL	TDS	TEH	TGRV	TGT	THC	THRI
THY	TKO	TLC	TME	TNF	TOD	TOU	TPAW	TPMT	TPR	TRGS	TRT	TRKW	TZC	UPI	USI	UTU	VAL
VDB	VDCF	VFP	VG2	VGZ	VLL	VLMM	VNDA	VPD	VSM	VSS	VTHM	VVI	VVO	WAX	WCZ	WFB	WIW
WFB	WFO	WRD	WSI	WVZ	WWR	YAO	YEL	YKU	YLL	YPE	YRC	YRH	YTIR	YUH	YUP	ZAI	ZNT



## STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
A11	R	St. Roch-des-Aulnaies ..... Quebec, Canada opened 19770830.	47 14 33.0 N (47.2425)	70 11 52.0 W ( 70.1978)	61.0	CLTN
A16	R	Riviere Ouelle ..... Quebec, Canada opened 19770830.	47 28 14.0 N (47.4706)	70 00 23.0 W ( 70.0064)	15.0	CLTN
A21	R	St. Andre ..... Quebec, Canada opened 19770830.	47 42 13.0 N (47.7036)	69 41 23.0 W ( 69.6897)	46.0	CLTN
A54	R	Misere ..... Quebec, Canada opened 19770830.	47 27 24.0 N (47.4567)	70 24 45.0 W ( 70.4125)	381.0	CLTN
A61	R	Sainte Mathilde ..... Quebec, Canada opened 19810605.	47 41 35.0 N (47.6931)	70 05 24.0 W ( 70.0900)	358.0	CLTN
A64	R	Saint Simeon ..... Quebec, Canada opened 19770830.	47 49 35.0 N (47.8264)	69 53 32.0 W ( 69.8922)	137.0	CLTN
AAHD		Abu Hadid ..... Egypt opened 1982? HLW code AHD.	23 44 46.8 N (23.7463)	32 45 10.2 E ( 32.7528)	...	HLW
AAK	D	Ala-Archa ..... Kyrgyzstan	42 38 20.4 N (42.6390)	74 29 38.4 E ( 74.4940)	1645.0	IRIS
AAPN		Arroyo Pinares ..... Spain	37 18 27.6 N (37.3077)	4 07 15.6 W ( 4.1210)	1160.0	CRT
AASM		Arroyo Seco ..... Sacramento County, California, U.S.A. opened 19841207. MNLO code AAS.	38 25 48.0 N (38.4300)	121 06 30.6 W (121.1085)	65.0	MNLO
AAT	R	Alma-Ata ..... Kazakhstan	...	...	...	
ABH		Alteburg ..... Rheinland-Pfalz, Germany	49 52 54.0 N (49.8817)	7 32 51.0 E ( 7.5475)	620.0	KRW
ABHA		Abha ..... Saudi Arabia opened 198811.	18 15 .. N (18.2500)	42 45 .. E ( 42.7500)	2200.0	RYD
ABKT	D	Alibek ..... Turkmenistan	37 55 49.4 N (37.9304)	58 07 08.0 E ( 58.1189)	678.0	MOSR IDA IRIS
ABM		Ambohimiarambe ..... Madagascar 198203-199010; reopened 199206.	19 46 48.0 S (19.7800)	47 21 36.0 E ( 47.3600)	1843.0	TAN
ABR	R	El Abra ..... Veracruz, Mexico	19 48 25.2 N (19.8070)	96 32 02.4 W ( 96.5340)	520.0	IIM
ABT		Abant ..... Turkey opened 1991.	40 36 17.0 N (40.6047)	31 19 15.0 E ( 31.3208)	1794.0	DDA
ABVM	R	Arroyo Blanco ..... Veracruz, Mexico	...	...	...	UNM
ACHM		Chimeneas ..... Spain	37 06 18.0 N (37.1050)	3 49 46.8 W ( 3.8297)	862.0	CRT
ACP	R	Acatlan ..... Puebla, Mexico	18 12 28.2 N (18.2078)	98 03 34.8 W ( 98.0597)	1250.0	UNM
ACTN	C	Antioch Church ..... Tennessee, U.S.A. closed 199306.	36 20 49.2 N (36.3470)	89 18 36.0 W ( 89.3100)	143.0	SLM
ACTO		Acton ..... Ontario, Canada opened 19910709.	43 36 31.5 N (43.6087)	80 03 45.3 W ( 80.0626)	360.0	LDN
ADAT		Adana ..... Turkey opened 19920101.	37 03 44.4 N (37.0623)	35 21 18.0 E ( 35.3550)	150.0	GBZT
ADEN	R	Aden ..... Yemen	12 47 .. N (12.7833)	45 00 .. E ( 45.0000)	...	
ADES		Adelaida ..... El Salvador opened 199112.	13 39 30.0 N (13.6583)	89 21 30.0 W ( 89.3583)	1200.0	SSS
AECU	C	Ecuador Network ..... Ecuador	0 16 13.8 S ( 0.2705)	78 24 25.2 W ( 78.4070)	3000.0	QUI
AEI	F	(magnitude source code for AEIC)				
AEIC	F	Alaska Earthquake Information Center, Fairbanks				
AEKI		Aeknabara ..... Sumatera, Indonesia opened 1991.	2 06 06.0 N ( 2.1017)	98 27 13.0 E ( 98.4536)	840.0	DJA
AEU	RD	East Anglia University ..... England, United Kingdom	52 37 12.4 N (52.6201)	1 14 04.9 E ( 1.2347)	15.0	BGS
AFAR		Ash Flat ..... Arkansas, U.S.A.	36 08 00.0 N (36.1333)	91 31 52.2 W ( 91.5312)	239.0	TEIC
AFH	RD	Ashford Hill ..... England, United Kingdom	51 20 38.0 N (51.3439)	1 13 11.0 W ( 1.2197)	91.0	BKN
AFIF		Afif ..... Saudi Arabia opened 199003.	24 06 03.6 N (24.1010)	43 10 48.0 E ( 43.1800)	950.0	RYD
AFL	R	Alpe Faloria ..... Veneto, Italy	...	...	...	TRI
AGAL		Gebel Alisa ..... Egypt opened 1982? HLW code GAL.	23 25 42.6 N (23.4285)	32 49 31.8 E ( 32.8255)	...	HLW
AGD	D	Arta Grotte ..... Djibouti opened 19850509.	11 31 48.0 N (11.5300)	42 49 12.0 E ( 42.8200)	450.0	ARO GEOS



## STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
AGG	Agios Georgios ..... Greece	39 01 20.0 N (39.0222)	22 19 49.0 E ( 22.3303)	540.0	THE
AGMR	Gebel Marawa ..... Egypt opened 1982? HLW code GMR.	23 32 15.6 N (23.5377)	32 32 25.8 E ( 32.5405)	...	HLW
AGO	Saint Agoulin ..... Auvergne, France opened 1984?	46 03 08.6 N (46.0524)	3 07 51.8 E ( 3.1311)	523.0	CFP
AGRI	Agrihan Island ..... Northern Marianas, Mariana Islands opened 19940423.	18 43 58.8 N (18.7330)	145 39 10.8 E (145.6530)	25.0	
AGRW	Gebel Rewraw ..... Egypt opened 1982? HLW code GRW.	23 38 42.0 N (23.6450)	32 48 34.8 E ( 32.8097)	...	HLW
AGU	Augustine-Summit ..... Western Alaska, Alaska, U.S.A. opened 19900901. GIA code AUS.	59 21 36.0 N (59.3600)	153 25 50.4 W (153.4307)	1226.0	GIA
AGVB	Aqua Vermelha ..... Minas Gerais, Brazil opened 199303.	19 44 22.0 S (19.7394)	50 13 59.0 W ( 50.2331)	393.0	VAO
AGX	D Aguascalientes ..... Aguascalientes, Mexico opened 1988.	21 52 43.2 N (21.8787)	102 18 03.6 W (102.3010)	...	UNM
AIS	RD Amsterdam Island ..... Amsterdam Island	37 47 47.8 S (37.7966)	77 34 09.8 E ( 77.5694)	36.0	STR GEOS
AKB	RD Aktyubinsk ..... Kazakhstan	50 15 36.0 N (50.2600)	58 06 00.0 E ( 58.1000)	...	MOS IDA IRIS
AKGH	Akosombo ..... Ghana opened 1987.	6 14 36.0 N ( 6.2433)	0 02 25.0 E ( 0.0403)	377.0	KUK
AKIJ	R Akita 2 ..... Honshu, Japan opened 19900425.	39 45 00.0 N (39.7500)	140 08 30.0 E (140.1417)	65.0	JMA
AKKT	Akkus ..... Turkey opened 1992.	40 46 42.0 N (40.7783)	37 00 47.0 E ( 37.0131)	1593.0	DDA
AKL	Akola ..... Maharashtra, India	20 07 .. N (20.1167)	77 07 .. E ( 77.1167)	310.0	NDI
AKRL	Khor El Raml ..... Egypt opened 1982? HLW code KRL.	23 39 36.0 N (23.6600)	32 42 36.0 E ( 32.7100)	...	HLW
AKSR	Khor Sakr ..... Egypt opened 1982? HLW code KSR.	23 38 13.8 N (23.6372)	33 01 15.0 E ( 33.0208)	...	HLW
AKUR	Kurkur ..... Egypt opened 1982? HLW code KUR.	23 53 38.4 N (23.8940)	32 46 33.6 E ( 32.7760)	...	HLW
AL5	Alaska LP Array Site 5 ..... Central Alaska, Alaska, U.S.A. opened 199307.	64 56 40.9 N (64.9447)	147 51 34.2 W (147.8595)	...	GIA
ALBI	R Allahabad ..... Uttar Pradesh, India	25 29 .. N (25.4833)	81 50 .. E ( 81.8333)	107.0	NDI
ALJ	Aljibe ..... Spain	36 40 25.2 N (36.6737)	5 36 14.4 W ( 5.6040)	1091.0	SFS
ALME	R Alemaya ..... Ethiopia	9 25 48.0 N ( 9.4300)	42 02 24.0 E ( 42.0400)	2133.0	
ALMG	Alamagan ..... Northern Marianas, Mariana Islands opened 1991.	17 36 03.6 N (17.6010)	145 50 16.8 E (145.8380)	490.0	
ALN	Alexandroupolis ..... Greece opened 198906.	40 53 50.0 N (40.8972)	26 02 44.0 E ( 26.0456)	110.0	THE
ALQJ	Loja ..... Spain	37 06 32.4 N (37.1090)	4 06 18.0 W ( 4.1050)	1340.0	CRT
ALPW	Alpine ..... Wyoming, U.S.A. opened 198601.	43 09 02.3 N (43.1506)	110 59 52.1 W (110.9978)	1792.0	USBR
ALZ	R Aoulouz ..... Morocco	...	...	...	CNRM
AMAN	Manam ..... Egypt opened 1982? HLW code MAN.	23 56 00.0 N (23.9333)	32 56 02.4 E ( 32.9340)	...	HLW
AML	RD Almayashu ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
AMRP	Almeirim ..... Portugal opened 199002?	39 09 30.0 N (39.1583)	8 34 30.0 W ( 8.5750)	160.0	INMG
AMW	Mount Adams ..... North Island, New Zealand opened 19910211.	41 18 34.0 S (41.3094)	175 45 39.0 E (175.7608)	400.0	WELW
ANAL	New Alisa ..... Egypt opened 1982? HLW code NAL.	23 24 36.0 N (23.4100)	32 40 40.8 E ( 32.6780)	...	HLW
ANAT	Anatahan ..... Northern Marianas, Mariana Islands	16 21 10.8 N (16.3530)	145 39 21.6 E (145.6560)	510.0	
ANCC	Alto Anchicaya ..... Colombia opened 1987.	3 30 55.2 N ( 3.5153)	76 52 00.0 W ( 76.8667)	540.0	UVC
ANGC	R Angol ..... Araucania, Chile	37 47 00.0 S (37.7833)	72 42 30.0 W ( 72.7083)	...	

CODES



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
ANGL	Ecuador opened 199008.	0 23 34.4 S ( 0.3929)	77 32 39.8 W ( 77.5444)	3360.0	QUI
ANGS	El Angel ..... El Salvador opened 199112.	13 48 00.0 N (13.8000)	89 11 30.0 W ( 89.1917)	850.0	SSS
ANGV	R Angostura ..... Venezuela opened 1984.	9 42 18.0 N ( 9.7050)	69 31 18.1 W ( 69.5217)	680.0	CAR
ANGW	Angle Mountain ..... Wyoming, U.S.A. opened 199009.	43 49 54.6 N (43.8318)	110 11 24.8 W (110.1902)	2743.0	USBR
ANMR	North Mavawa ..... Egypt opened 1982? HLW code NMR.	23 40 37.2 N (23.6770)	32 32 32.4 E ( 32.5423)	...	HLW
ANTI	Antisana ..... Ecuador opened 19910805.	0 27 30.0 S ( 0.4583)	78 09 41.4 W ( 78.1615)	4500.0	QUI
ANTR	Antelope Ridge ..... New Mexico, U.S.A. opened 1991.	32 15 49.2 N (32.2637)	103 24 38.4 W (103.4107)	1056.0	SNM
ANTT	..... Turkey opened 1992.	36 13 13.0 N (36.2203)	36 09 25.0 E ( 36.1569)	60.0	GBZT
ANTZ	Aouinet Torkoz ..... Morocco opened 19911218.	28 28 29.0 N (28.4747)	9 51 17.0 W ( 9.8547)	300.0	SPGM
AOI	Ancona (Monte Conero) ..... Marche, Italy .....	43 33 00.0 N (43.5500)	13 36 07.2 E ( 13.6020)	530.0	SSO
AOM3	R Aomori 3 ..... Honshu, Japan opened 19900421.	40 46 36.0 N (40.7767)	140 49 00.0 E (140.8167)	150.0	JMA
APHE	Pico Herrero ..... Spain .....	36 57 07.2 N (36.9520)	3 41 16.8 W ( 3.6880)	1360.0	CRT
APKP	F (phase code designation)				
APL	Alpnach ..... Switzerland .....	46 56 58.6 N (46.9496)	8 14 34.1 E ( 8.2428)	880.0	ZUR
APM	Augspurger Mountain ..... Washington, U.S.A. opened 198110. SEA code AUG.	45 44 10.0 N (45.7361)	121 40 50.0 W (121.6806)	865.0	SEA
APW	Alpha Peak ..... Washington, U.S.A. .....	46 39 06.0 N (46.6517)	122 38 51.0 W (122.6475)	457.0	SEA
AQBJ	Al 'Aqabah ..... Jordan opened 19891023.	29 43 40.8 N (29.7280)	35 03 00.0 E ( 35.0500)	170.0	JSO
ARA0	Arcess ..... Norway .....	69 32 05.6 N (69.5349)	25 30 21.2 E ( 25.5059)	403.0	BER
ARL	..... Chiapas, Mexico .....	17 24 43.2 N (17.4120)	93 07 04.8 W ( 93.1180)	...	UNM
ARMA	Armidale ..... New South Wales, Australia .....	30 25 11.3 S (30.4198)	151 37 40.8 E (151.6280)	1130.0	AUST
ARNI	Argonne North ..... Idaho, U.S.A. opened 19900814.	43 40 00.0 N (43.6667)	112 37 24.6 W (112.6235)	1553.0	USGS
ARTJ	Al Aritein ..... Jordan opened 1987.	32 14 48.0 N (32.2467)	36 49 42.0 E ( 36.8283)	1058.0	JSO
ARTL	Arthez-de-Bearn ..... Aquitaine, France .....	43 27 22.0 N (43.4561)	0 35 17.0 W ( 0.5881)	210.0	STR
ARVI	'Arava Valley ..... Israel .....	30 39 00.0 N (30.6500)	35 10 48.0 E ( 35.1800)	...	JER
AS01	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 53.0 S (23.6647)	133 57 03.0 E (133.9508)	550.0	AUST
AS02	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 40 45.0 S (23.6792)	133 56 13.0 E (133.9369)	550.0	AUST
AS03	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 40 28.0 S (23.6744)	133 55 11.0 E (133.9197)	550.0	AUST
AS04	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 35.0 S (23.6597)	133 55 45.0 E (133.9292)	550.0	AUST
AS05	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 38 57.0 S (23.6492)	133 56 51.0 E (133.9475)	550.0	AUST
AS06	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 38 51.0 S (23.6475)	133 58 17.0 E (133.9714)	550.0	AUST
AS07	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 56.0 S (23.6656)	133 58 11.0 E (133.9697)	550.0	AUST
AS08	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 40 53.0 S (23.6814)	133 57 36.0 E (133.9600)	550.0	AUST
AS09	R Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 41 58.0 S (23.6994)	133 56 29.0 E (133.9414)	550.0	AUST



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AS10	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 41 49.0 S (23.6969)	133 54 50.0 E (133.9139)	550.0	AUST
AS11	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 40 42.0 S (23.6783)	133 53 52.0 E (133.8978)	550.0	AUST
AS12	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 59.0 S (23.6664)	133 54 16.0 E (133.9044)	550.0	AUST
AS13	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 07.0 S (23.6519)	133 53 40.0 E (133.8944)	550.0	AUST
AS14	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 06.0 S (23.6517)	133 54 37.0 E (133.9103)	550.0	AUST
AS15	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 38 08.0 S (23.6356)	133 54 44.0 E (133.9122)	550.0	AUST
AS16	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 38 13.0 S (23.6369)	133 55 48.0 E (133.9300)	550.0	AUST
AS17	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 39 52.0 S (23.6644)	133 59 30.0 E (133.9917)	550.0	AUST
AS18	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 41 24.0 S (23.6900)	133 58 51.0 E (133.9808)	550.0	AUST
AS19	R	Alice Springs Array ..... Northern Territory, Australia AUST opened 1986.	23 42 16.0 S (23.7044)	133 57 45.0 E (133.9625)	550.0	AUST
ASAR	R	..... Northern Territory, Australia	...	...	...	AUST
ASAT	R	Asagiariakuru ..... Turkey	40 41 37.0 N (40.6936)	30 44 38.0 E ( 30.7439)	100.0	DDA
ASCN	RD	Ascension ..... Ascension	...	...	...	IDA IRIS
ASKD		Sinn el Kaddab ..... Egypt opened 1982? HLW code SKD.	23 39 34.8 N (23.6597)	32 23 04.8 E ( 32.3847)	...	HLW
ASME	R	Asmera ..... Ethiopia	15 21 00.0 N (15.3500)	38 55 48.0 E ( 38.9300)	2420.0	
ASMM		Slate Mountain ..... El Dorado County, California, U.S.A. opened 19841204. MNLO code ASM.	38 49 24.0 N (38.8233)	120 41 00.0 W (120.6833)	1214.0	MNLO
ASMO		Sierra Morrones ..... Spain	37 21 28.8 N (37.3580)	3 44 34.8 W ( 3.7430)	1170.0	CRT
ASPF		Aspremont ..... Provence-Cote d'Azur, France	43 46 05.4 N (43.7682)	7 15 29.9 E ( 7.2583)	850.0	STR
ASR		Mount Adams--Stagman Ridge ..... Washington, U.S.A.	46 09 02.4 N (46.1507)	121 35 33.6 W (121.5927)	1280.0	SEA
ATAQ	R	'Ataq ..... Yemen	14 32 00.0 N (14.5333)	46 48 30.0 E ( 46.8083)	...	
ATD	RD	Arta Cave ..... Djibouti	...	...	...	GEOS
ATEJ		Tejeda ..... Spain	36 54 54.0 N (36.9150)	4 00 50.4 W ( 4.0140)	1480.0	CRT
ATN		Antennamare (Messina) ..... Sicilia, Italy	38 09 38.0 N (38.1606)	15 27 46.0 E ( 15.4628)	350.0	ERC
ATR1	R	Atar 1 ..... Israel	30 58 12.0 N (30.9700)	34 37 48.0 E ( 34.6300)	200.0	JER
ATZ		Mount Atzmon ..... Israel opened 19860528.	32 49 17.8 N (32.8216)	35 16 11.0 E ( 35.2697)	510.0	JER
AUP		Augustine Pinnacle ..... Western Alaska, Alaska, U.S.A. opened 19770922.	59 21 44.4 N (59.3623)	153 25 13.8 W (153.4205)	1033.0	AGS
AURF		Auriere ..... Provence-Cote d'Azur, France	43 53 14.4 N (43.8873)	7 19 39.0 E ( 7.3275)	1040.0	STR
AUW		Augustine West ..... Western Alaska, Alaska, U.S.A. 198607-19900829. Reopened 199008.	59 22 12.3 N (59.3701)	153 28 14.9 W (153.4708)	276.0	GIA
AVN		Avellanes ..... Spain Sent to NEIS by MDD.	41 53 01.2 N (41.8837)	0 45 06.6 E ( 0.7518)	630.0	MRB
AVOW		Apres Vouz Peak ..... Wyoming, U.S.A. opened 198601.	43 36 39.8 N (43.6111)	110 48 50.3 W (110.8140)	2036.0	USBR
AWAL		West Alisa ..... Egypt opened 1982? HLW code WAL.	23 22 45.0 N (23.3792)	32 34 57.0 E ( 32.5825)	...	HLW
AWDQ		Awoonga Dam No. 3 ..... Queensland, Australia opened 19870701. QDM code AWD.	24 02 52.1 S (24.0478)	151 18 56.5 E (151.3157)	110.0	QDM
AWKL		West Kalabsha ..... Egypt opened 1982? HLW code WKL.	23 25 30.6 N (23.4252)	32 26 49.2 E ( 32.4470)	...	HLW
AYK	R	Aydincik ..... Turkey opened 198801.	36 09 08.0 N (36.1522)	33 19 37.0 E ( 33.3269)	50.0	ISK



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AYN	Al 'Uyaynah ..... Saudi Arabia opened 1986.	28 52 12.0 N (28.8700)	36 00 00.0 E ( 36.0000)	...	RYD
AZI	C Avezzano ..... Abruzzo, Italy 1987-1994.	41 59 18.4 N (41.9884)	13 26 08.4 E ( 13.4357)	...	ROM
AZO	R ..... Oaxaca, Mexico	15 57 57.6 N (15.9660)	97 24 28.8 W ( 97.4080)	...	UNM
AZU	R Peninsula de Azuero ..... Panama	...	...	...	UPA
AZUC	..... Colombia opened 1992.	3 41 38.4 N ( 3.6940)	76 08 09.6 W ( 76.1360)	3680.0	UVC
BADA	Al Bad' ..... Saudi Arabia opened 1986.	28 31 22.8 N (28.5230)	35 00 07.2 E ( 35.0020)	...	RYD
BAE1	RD Brasilia Array Site E1 ..... Distrito Federal, Brazil opened 197101?	15 39 00.0 S (15.6500)	47 56 49.0 W ( 47.9469)	1200.0	BDF
BAE2	RD Brasilia Array Site E2 ..... Distrito Federal, Brazil opened 197101?	15 39 00.0 S (15.6500)	47 56 49.0 W ( 47.9469)	1200.0	BDF
BAE3	RD Brasilia Array Site E3 ..... Distrito Federal, Brazil opened 197101?	15 39 25.0 S (15.6569)	47 55 35.0 W ( 47.9264)	1200.0	BDF
BAE4	D Brasilia Array Site E4 ..... Distrito Federal, Brazil opened 197101?	15 39 51.0 S (15.6642)	47 54 11.0 W ( 47.9031)	1260.0	BDF
BAE5	RD Brasilia Array Site E5 ..... Distrito Federal, Brazil opened 197101?	15 40 21.0 S (15.6725)	47 52 51.0 W ( 47.8808)	1200.0	BDF
BAEE	RD Brasilia Array Site EE ..... Distrito Federal, Brazil opened 197101?	15 44 19.0 S (15.7386)	47 37 12.0 W ( 47.6200)	1200.0	BDF
BAKI	R Biak ..... Irian Jaya, Indonesia ( 1.0383)	1 02 18.0 S ( 1.0383)	136 20 46.0 E (136.3461)	...	DJA
BALA	C Baldy Mountain ..... Alaska Peninsula, Alaska, U.S.A. PAL code BAL. closed 1991.	55 11 35.6 N (55.1932)	162 47 12.5 W (162.7868)	360.0	PAL
BAM	Barrage Abdel Moumen ..... Morocco	30 39 57.6 N (30.6660)	9 09 57.6 W ( 9.1660)	...	CNRM
BAMB	RD Bambay ..... Gabon ( 1.6550)	1 39 18.0 S ( 1.6550)	13 26 48.0 E ( 13.4467)	320.0	IRIS
BAPM	Anderson Peak ..... Monterey County, California, U.S.A. opened 19850719. MNLO code BAP.	36 10 33.0 N (36.1758)	121 38 33.6 W (121.6427)	1219.0	MNLO
BARC	R Barichara ..... Colombia ( 6.6434)	6 38 36.3 N ( 6.6434)	73 10 35.1 W ( 73.1764)	1859.0	INGM
BARV	D Barcelona ..... Venezuela ( 9.9840)	9 59 02.4 N ( 9.9840)	70 44 45.6 W ( 70.7460)	...	INTV
BAS1	RD Brasilia Array Site S1 ..... Distrito Federal, Brazil opened 197101?	15 39 22.0 S (15.6561)	47 59 59.0 W ( 47.9997)	1200.0	BDF
BAS2	RD Brasilia Array Site S2 ..... Distrito Federal, Brazil opened 197101?	15 40 41.0 S (15.6781)	48 00 25.0 W ( 48.0069)	1200.0	BDF
BAS3	RD Brasilia Array Site S3 ..... Distrito Federal, Brazil opened 197101?	15 41 55.0 S (15.6986)	48 00 53.0 W ( 48.0147)	1200.0	BDF
BAS4	RD Brasilia Array Site S4 ..... Distrito Federal, Brazil opened 197101?	15 43 09.0 S (15.7192)	48 01 20.0 W ( 48.0222)	1200.0	BDF
BAS5	RD Brasilia Array Site S5 ..... Distrito Federal, Brazil opened 197101?	15 44 31.0 S (15.7419)	48 01 50.0 W ( 48.0306)	1200.0	BDF
BASE	RD Brasilia Array Site SE ..... Distrito Federal, Brazil opened 197101?	15 57 26.0 S (15.9572)	48 04 14.0 W ( 48.0706)	1200.0	BDF
BAUT	Bautismo ..... Venezuela opened 1984.	10 30 23.4 N (10.5065)	66 28 55.2 W ( 66.4820)	1976.0	CAR
BAW1	D Brasilia Array Site W1 ..... Distrito Federal, Brazil opened 197101?	15 37 42.0 S (15.6283)	48 00 46.0 W ( 48.0128)	1200.0	BDF
BAW2	RD Brasilia Array Site W2 ..... Distrito Federal, Brazil opened 197101?	15 37 17.0 S (15.6214)	48 01 07.0 W ( 48.0186)	1200.0	BDF
BAW3	RD Brasilia Array Site W3 ..... Distrito Federal, Brazil opened 197101?	15 36 46.0 S (15.6128)	48 03 27.0 W ( 48.0575)	1200.0	BDF
BAW4	RD Brasilia Array Site W4 ..... Distrito Federal, Brazil opened 197101?	15 36 19.0 S (15.6053)	48 04 46.0 W ( 48.0794)	1200.0	BDF
BAWE	D Brasilia Array Site WE ..... Distrito Federal, Brazil opened 197101?	15 35 28.0 S (15.5911)	48 04 50.0 W ( 48.0806)	1200.0	BDF
BAYK	RD Bayan-Aul ..... Kazakhstan (50.8200)	50 49 12.0 N (50.8200)	75 33 00.0 E ( 75.5500)	...	MOSR IDA IRIS
BBA	R Boulbra ..... Morocco	...	...	...	CNRM



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BBB	Bella Bella ..... British Columbia, Canada opened 19861205.	52 11 04.9 N (52.1847)	128 06 47.9 W (128.1133)	14.0	OTTR
BBEB	R Bay Bridge East .....	...	...	...	BRK
BBOR	Butler Butte ..... Oregon, U.S.A. opened 199206. SEA code BBO.	42 53 12.6 N (42.8868)	122 40 46.7 W (122.6796)	1671.0	SEA
BBTK	Belbasi ..... Turkey (39.8422)	39 50 32.0 N (39.8422)	32 45 37.0 E ( 32.7603)	1200.0	
BETN	C Blue Bank Bayou ..... Tennessee, U.S.A. closed 199306.	36 23 13.2 N (36.3870)	89 27 25.2 W ( 89.4570)	88.0	SLM
BBU	Al Budayyi' ..... Bahrain opened 1986.	26 12 54.0 N (26.2150)	50 27 24.0 E ( 50.4567)	...	BMU
BBW	R Black Birch ..... South Island, New Zealand (Alternate Abbreviation for BCA3)	41 42 45.0 S (41.7125)	173 52 42.0 E (173.8783)	250.0	WELW
BC3*					
BCA	Borcka ..... Turkey (41.4450)	41 26 42.1 N (41.4450)	41 37 20.3 E ( 41.6223)	500.0	ISK
BCA3	Beaver Creek Array Site 3 ..... Central Alaska, Alaska, U.S.A. opened 199307. GIA code BC3.	63 03 56.2 N (63.0656)	141 47 06.4 W (141.7851)	847.0	GIA
BCI	Bajram Curri ..... Albania (42.3666)	42 21 59.8 N (42.3666)	20 04 03.0 E ( 20.0675)	500.0	TIR
BCKR	Birch Creek ..... Mono County, California, U.S.A. opened 19840913. REN code BCK.	37 41 51.0 N (37.6975)	118 22 19.2 W (118.3720)	1634.0	REN
BCP	Baguio City ..... Luzon, Philippines (16.4180)	16 25 04.8 N (16.4180)	120 36 36.0 E (120.6100)	1500.0	MAN
BCWM	Chews Ridge ..... Monterey County, California, U.S.A. opened 19850712. MNLO code BCW.	36 18 24.0 N (36.3067)	121 33 57.6 W (121.5660)	1518.0	MNLO
BCYI	Bear Canyon ..... Idaho, U.S.A. opened 1992.	44 18 39.0 N (44.3108)	113 24 18.6 W (113.4052)	2194.0	USGS
BCZ	Braida Craggs ..... South Island, New Zealand opened 19900527.	46 00 24.0 S (46.0067)	167 50 23.0 E (167.8397)	120.0	WEL
BDBC	Bennett Dam ..... British Columbia, Canada opened 198510.	56 10 27.0 N (56.1742)	122 16 57.0 W (122.2825)	700.0	
BDHA	R Al Bayda' ..... Yemen (13.9745)	13 58 28.2 N (13.9745)	45 34 00.0 E ( 45.5667)	...	
BDID	Brownlee Dam ..... Idaho, U.S.A. opened 199007.	44 47 54.0 N (44.7983)	116 53 06.0 W (116.8850)	1400.0	BSE
BDMQ	Boondooma Dam ..... Queensland, Australia opened 19800729. QDM code BDM.	26 06 44.3 S (26.1123)	151 26 39.8 E (151.4444)	320.0	QDM
BDNM	Bernardo ..... New Mexico, U.S.A. opened 1990. SNM code BDO.	34 29 45.6 N (34.4960)	106 54 47.4 W (106.9132)	1505.0	SNM
BEAW	Beaver Mountain ..... Wyoming, U.S.A. opened 199009..	43 15 03.4 N (43.2509)	110 36 48.2 W (110.6134)	2960.0	USBR
BEB	Belem ..... Para, Brazil opened 1987.	1 27 00.0 S ( 1.4500)	48 26 42.0 W ( 48.4450)	15.0	
BECU	C Ecuador Network ..... Ecuador ( 0.4747)	0 28 28.8 S ( 0.4747)	78 35 46.2 W ( 78.5962)	3320.0	QUI
BEE	Al Areen ..... Bahrain opened 1986.	26 01 00.0 N (26.0167)	50 31 18.0 E ( 50.5217)	...	BMU
BENR	Benton ..... Mono County, California, U.S.A. opened 19830729. REN code BEN.	37 42 55.8 N (37.7155)	118 34 24.0 W (118.5733)	2490.0	REN
BERA	Berat ..... Albania (40.7027)	40 42 09.7 N (40.7027)	19 56 57.8 E ( 19.9494)	100.0	TIR
BERF	Bertagne ..... Provence-Cote d'Azur, France (43.3130)	43 18 46.8 N (43.3130)	5 41 26.5 E ( 5.6907)	1030.0	STR
BERT	Berda ..... Tunisia (34.2410)	34 14 27.6 N (34.2410)	9 00 42.6 E ( 9.0118)	320.0	SBS
BETC	Betania ..... Colombia ( 2.6814)	2 40 53.0 N ( 2.6814)	75 26 28.6 W ( 75.4413)	540.0	INGM
BETV	D Betijoque ..... Venezuela ( 9.3790)	9 22 44.4 N ( 9.3790)	70 40 22.8 W ( 70.6730)	...	INTV
BEVG	Clark Hill Reservoir ..... Georgia, U.S.A. (34.0893)	34 05 21.5 N (34.0893)	82 44 00.0 W ( 82.7333)	158.0	ATL
BEW	Beaufort West ..... Cape Province, South Africa opened 199304.	32 21 23.4 S (32.3565)	22 34 22.8 E ( 22.5730)	870.0	PRE
BFO	R Black Forest Observatory (Schiltach) ..... Rheinland-Pfalz, Germany opened before 197410.	48 19 52.0 N (48.3311)	8 19 49.0 E ( 8.3303)	589.0	KRW
BFT	Belfast ..... Transvaal, South Africa opened 1986.	25 41 12.0 S (25.6867)	30 02 36.0 E ( 30.0433)	1868.0	PRE



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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
BGCA	R	Bogoin ..... Central African Republic proposed GTSN station.	5 10 34.0 N ( 5.1761)	18 25 27.0 E ( 18.4242)	576.0	
BGK2	RD	Belogorka ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
BGL		Barrier Glacier ..... Western Alaska, Alaska, U.S.A. opened 1989.	61 15 48.6 N (61.2635)	152 23 25.8 W (152.3905)	1173.0	AGS
BGMT		Barton Gulch ..... Montana, U.S.A. opened 19871021.	45 14 00.0 N (45.2333)	112 02 25.8 W (112.0405)	2172.0	BUT
BGRM		Barrier Glacier Two ..... Western Alaska, Alaska, U.S.A. opened 19910701. AGS code BRG.	60 45 27.0 N (60.7575)	152 25 03.6 W (152.4177)	985.0	AGS
BGRQ	R	Glenroy ..... Queensland, Australia opened 19810216. QDM code BGR.	20 32 57.1 S (20.5492)	147 06 18.7 E (147.1052)	160.0	QDM
BGY	D	Belgrade ..... Yugoslavia opened 1990.	44 48 00.0 N (44.8000)	20 31 12.0 E ( 20.5200)	...	MEDN
BHB		Bricherasio ..... Piemonte, Italy opened 19900517.	44 50 30.0 N (44.8417)	7 15 48.0 E ( 7.2633)	530.0	GEN
BHC	R	Bohunice ..... Czech Republic	48 34 43.0 N (48.5786)	17 31 44.0 E ( 17.5289)	...	PRU
BHDI	R	Bhandari ..... India	...	...	...	JHI
BHM	D	Barham ..... England, United Kingdom	51 12 46.0 N (51.2128)	1 10 27.0 E ( 1.1742)	100.0	BKN
BHPR		Bishop ..... Inyo County, California, U.S.A. opened 19840810. REN code BHP.	37 17 58.2 N (37.2995)	118 29 14.4 W (118.4873)	2171.0	REN
BHRM		Hodges Ranch ..... San Benito County, California, U.S.A. opened 19810317. MNLO code BHR. (Alternate Abbreviation for DIAC)	36 43 40.2 N (36.7278)	121 15 49.8 W (121.2638)	213.0	MNLO
BIAC		Binghamton ..... New York, U.S.A. opened 19930817.	42 11 57.5 N (42.1993)	75 59 10.0 W ( 75.9861)	498.0	NEIS USNN
BIP		Bislig ..... Mindanao, Philippines	8 13 30.0 N ( 8.2250)	126 15 00.0 E (126.2500)	200.0	MAN
BISH		Bishah ..... Saudi Arabia opened 199105.	20 00 03.6 N (20.0010)	42 35 56.4 E ( 42.5990)	800.0	RYD
BIT		Barrage Ibn Batouta ..... Morocco	35 38 52.8 N (35.6480)	5 43 44.4 W ( 5.7290)	...	CNRM
BIX		Bixby ..... Oklahoma, U.S.A. opened 19900801. Sent to NEIS byt TUL.	35 58 40.8 N (35.9780)	95 50 46.0 W ( 95.8461)	195.0	
BJA		Jaww ..... Bahrain opened 1986.	25 59 30.0 N (25.9917)	50 36 30.0 E ( 50.6083)	...	BMU
BJM	R	Bujumbura ..... South Africa	...	...	...	PRE
BJO		Bjoja ..... Norway	74 30 19.8 N (74.5055)	19 11 17.9 E ( 19.1883)	18.0	BER
BJU	R	..... Chiapas, Mexico	16 52 36.5 N (16.8768)	93 10 44.8 W ( 93.1791)	...	IIM
BKE		Bekescsaba ..... Hungary opened 1987.	46 36 45.0 N (46.6125)	17 53 34.8 E ( 17.8930)	95.0	BUD
BKG		Blockade Glacier ..... Western Alaska, Alaska, U.S.A. opened 19910701.	61 04 12.6 N (61.0702)	152 15 45.6 W (152.2627)	1009.0	AGS
BKJ		Big Koniui Island ..... Alaska Peninsula, Alaska, U.S.A.	55 09 24.0 N (55.1567)	159 33 31.9 W (159.5589)	146.0	PAL
BKM		Butte a Klehm ..... Vanuatu	17 40 06.0 S (17.6683)	168 14 36.0 E (168.2433)	270.0	NOU
BKO		Bokosso ..... Cameroon opened 19850213.	4 25 04.8 N ( 4.4180)	9 08 27.6 E ( 9.1410)	380.0	YND
BKOA		..... Assam, India	25 59 .. N (25.9833)	91 16 .. E ( 91.2667)	50.0	JHI
BLGM	R	Bulgan ..... Mongolia	48 48 36.0 N (48.8100)	103 30 36.0 E (103.5100)	...	
BLH		Bald Hill ..... Washington, U.S.A. opened 198407. SEA code BHW.	47 50 12.6 N (47.8368)	122 01 55.8 W (122.0322)	198.0	SEA
BLHA	C	Black Hill ..... Alaska Peninsula, Alaska, U.S.A. closed 199007. PAL code BLH.	55 42 09.0 N (55.7025)	162 03 57.0 W (162.0658)	390.0	PAL
BLIT		Baltah ..... Tunisia	36 42 46.8 N (36.7130)	8 57 10.2 E ( 8.9528)	225.0	SBS
BLLO		Bulolo ..... New Guinea, Papua New Guinea opened 19880610.	7 12 07.2 S ( 7.2020)	146 37 12.0 E (146.6200)	700.0	PMG
BLPI		Bilaspur ..... Madhya Pradesh, India NDI code BLP.	22 05 .. N (22.0833)	82 25 .. E ( 82.4167)	85.0	NDI



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BLS		Blasjo ..... Norway opened 1985.	59 23 24.0 N (59.3900)	6 26 56.4 E ( 6.4490)	1170.0	BER
BLS1	C	Blasjo ..... Norway 198610-19910110.	59 23 27.6 N (59.3910)	6 49 37.2 E ( 6.8270)	1160.0	BER
BLS2	C	Blasjo ..... Norway 198610-19910110.	59 17 38.4 N (59.2940)	6 55 37.2 E ( 6.9270)	1190.0	BER
BLS3	C	Blasjo ..... Norway 198610-19910110.	59 25 30.0 N (59.4250)	6 30 54.0 E ( 6.5150)	1130.0	BER
BLS5		Blo ..... Norway (59.4229)	59 25 22.4 N (59.4229)	6 27 21.6 E ( 6.4560)	540.0	BER
BM3		Burnt Mountain Array Site 3 ..... Northern Alaska, Alaska, U.S.A. opened 199307.	67 25 09.1 N (67.4192)	144 36 25.6 W (144.6071)	802.0	GIA
BMD	R	Beni Messoud ..... Morocco (35.7803)	35 46 49.0 N (35.7803)	5 41 59.0 W ( 5.6997)	...	CNRM
BMNM		Bear Mountains ..... New Mexico, U.S.A. SNM code BMT.	34 16 30.0 N (34.2750)	107 15 36.6 W (107.2602)	1972.0	SNM
BMU	R	Al Muharraq ..... Bahrain opened 1986.	26 14 06.0 N (26.2350)	50 39 36.0 E ( 50.6600)	...	BMU
BMW	D	Boistfort Mountain ..... Washington, U.S.A. opened 198011. USTN opened 1988. SEA code BOW.	46 28 30.0 N (46.4750)	123 13 41.0 W (123.2281)	870.0	SEA USTN
BNAB		Bonilla ..... British Columbia, Canada opened 19871204.	53 29 36.0 N (53.4933)	130 38 14.0 W (130.6372)	16.0	OTTR
BNI	D	Bardonecchia ..... Piemonte, Italy (45.0527)	45 03 09.7 N (45.0527)	6 40 30.7 E ( 6.6752)	1395.0	ROM MEDN
BNM		Barren Site ..... New Mexico, U.S.A. SNM code BAR.	34 09 00.6 N (34.1502)	106 37 40.2 W (106.6278)	2121.0	SNM
BNN		Bunyan ..... Turkey (38.8461)	38 50 46.0 N (38.8461)	35 52 00.0 E ( 35.8667)	1350.0	ISK
BOB	D	Bobbio (Coli) ..... Emilia-Romagna, Italy (44.7670)	44 46 01.2 N (44.7670)	9 26 53.5 E ( 9.4482)	930.0	ROM
BOJ	R	Boujaouane ..... Morocco (32.0300)	32 01 48.0 N (32.0300)	9 04 01.2 W ( 9.0670)	...	CNRM
BOQS		Boqueron ..... El Salvador opened 199112.	13 44 06.0 N (13.7350)	89 16 48.0 W ( 89.2800)	1830.0	SSS
BORG	RD	Borgarnes ..... Iceland	...	...	...	IDA IRIS
BORS		Borseda ..... Liguria, Italy opened 199101.	44 14 42.0 N (44.2450)	9 49 33.0 E ( 9.8258)	510.0	GEN
BOSA	D	Boshof ..... South Africa opened 1993. PRE code BOS.	28 36 47.0 S (28.6131)	25 24 56.0 E ( 25.4156)	...	PRE GTSN
BPBC		Brooks Peninsula ..... British Columbia, Canada opened 199110.	50 09 25.9 N (50.1572)	127 46 14.9 W (127.7708)	732.0	WCTN
BPO		Bald Peter ..... Oregon, U.S.A. opened 198709.	44 39 06.9 N (44.6519)	121 41 19.2 W (121.6887)	1957.0	SEA
BPOM		Post Ranch ..... Monterey County, California, U.S.A. opened 19911217. MNLO code BPO.	36 13 43.2 N (36.2287)	121 46 00.0 W (121.7667)	354.0	MNLO
BPRM		Ponciano Ridge ..... Monterey County, California, U.S.A. opened 19840205. MNLO code BPR.	36 24 25.2 N (36.4070)	121 43 46.2 W (121.7295)	741.0	MNLO
BRCI		Bahraich ..... Uttar Pradesh, India NDI code BRC.	27 34 .. N (27.5667)	81 35 .. E ( 81.5833)	123.0	NDI
BRDG		Blue Ridge ..... Arizona, U.S.A. opened 1991.	34 37 33.6 N (34.6260)	111 10 33.6 W (111.1760)	2057.0	FLAG
BRF		Ar Rifa' ..... Bahrain opened 1986.	26 04 24.0 N (26.0733)	50 35 00.0 E ( 50.5833)	...	BMU
BRIB	R	Briones ..... ...	...	...	...	BRK
BRNI		Bet Oren ..... Israel opened 199112.	32 43 12.0 N (32.7200)	34 59 24.0 E ( 34.9900)	400.0	JER
BRNL	D	Berlin--Lankwitz ..... Berlin, Germany opened 19910406.	52 25 40.1 N (52.4278)	13 21 28.7 E ( 13.3580)	42.0	
BRTN		Brown Mountain ..... Tennessee, U.S.A. opened 19860605.	36 21 24.0 N (36.3567)	82 52 04.2 W ( 82.8678)	630.0	TVA
BRU		Baru ..... Panama opened 1992.	8 48 24.6 N ( 8.8068)	82 33 39.0 W ( 82.5608)	3425.0	UPA



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BRUT		Bromley ..... Salt Lake County, Utah, U.S.A. opened 19900822.	40 37 22.8 N (40.6230)	111 52 43.2 W (111.8787)	1337.0	SLC
BRVK		Borovoye ..... Kazakhstan MOS code BRV.	53 03 29.0 N (53.0581)	70 16 58.0 E ( 70.2828)	315.0	MOS
BRVW		Black Rock Valley ..... Washington, U.S.A. opened 198312. SEA code BRV.	46 29 07.2 N (46.4853)	119 59 29.4 W (119.9915)	925.0	SEA
BS01	R	Boso O.B.S. 1 ..... Honshu, Japan (34.6533)	34 39 12.0 N (34.6533)	140 58 42.0 E (140.9783)	-4011.0	JMA
BS02	R	Boso O.B.S. 2 ..... Honshu, Japan (34.7517)	34 45 06.0 N (34.7517)	140 45 18.0 E (140.7550)	-2090.0	JMA
BS03	R	Boso O.B.S. 3 ..... Honshu, Japan (34.8017)	34 48 06.0 N (34.8017)	140 30 36.0 E (140.5100)	-1898.0	JMA
BS04	R	Boso O.B.S. 4 ..... Honshu, Japan (34.9900)	34 59 24.0 N (34.9900)	140 20 18.0 E (140.3383)	-658.0	JMA
BSD		Bornholm Skovbrynet ..... Denmark opened 199003.	55 06 36.0 N (55.1100)	14 54 36.0 E ( 14.9100)	88.0	COP
BSLQ	RD	Bruslee ..... Queensland, Australia opened 19840302. QDM code BSL.	20 52 01.2 S (20.8670)	146 33 50.4 E (146.5640)	185.0	QDM
BSMM		Soledad Mission ..... Monterey County, California, U.S.A. opened 19851114; moved slightly 19880528. MNLO code BSM. Old position 36.3838N, 121.4272W, 927m.	36 23 00.0 N (36.3833)	121 25 40.0 W (121.4278)	939.0	MNLO
BSZ	D	Bushy Park ..... North Island, New Zealand opened 19900619.	39 47 55.4 S (39.7987)	174 55 52.4 E (174.9312)	150.0	WEL
ETA	R	Baja Talamanca ..... Costa Rica	...	...	...	HDC
BTE	R	Batoke ..... Cameroon opened 19850301.	4 02 52.8 N ( 4.0480)	9 05 13.2 E ( 9.0870)	90.0	YND
BTH		Betharram ..... Aquitaine, France opened 198608.	43 07 23.0 N (43.1231)	0 12 25.0 W ( 0.2069)	325.0	
BTHT	R	Jabal bu Thady ..... Tunisia (35.1323)	35 07 56.4 N (35.1323)	10 17 06.6 E ( 10.2852)	240.0	SBS
BUE	R	Buenavista ..... Veracruz, Mexico (19.4380)	19 26 16.8 N (19.4380)	96 33 32.4 W ( 96.5590)	200.0	IIM
BUGC		Buga ..... Colombia ( 3.8933)	3 53 35.8 N ( 3.8933)	76 15 24.7 W ( 76.2569)	1200.0	UVC
BUNI		Buntu Taipa ..... Sulawesi, Indonesia ( 3.6578)	3 39 28.0 S ( 3.6578)	120 19 23.0 E (120.3231)	240.0	DJA
BUTX		Baylor University ..... Texas, U.S.A. opened 199211.	31 41 30.0 N (31.6917)	97 20 54.0 W ( 97.3483)	183.0	
BUW	D	Bucklebury West ..... England, United Kingdom (51.4094)	51 24 34.0 N (51.4094)	1 13 28.0 W ( 1.2244)	125.0	BKN
BUWY		Burn ..... England, United Kingdom (53.7429)	53 44 34.4 N (53.7429)	1 03 59.4 W ( 1.0665)	5.0	QMB
BVTM	R	..... Michoacan, Mexico UNM code BVT.	18 53 36.0 N (18.8933)	102 15 54.0 W (102.2650)	...	UNM
BVW		Beverly ..... Washington, U.S.A. opened 198609.	46 48 37.8 N (46.8105)	119 52 54.1 W (119.8817)	707.0	SEA
BW01	R	Boulder Array ..... Wyoming, U.S.A. (42.7859)	42 47 09.1 N (42.7859)	109 34 49.7 W (109.5805)	2200.0	NEIS
BW02	R	Boulder Array ..... Wyoming, U.S.A. (42.7888)	42 47 19.8 N (42.7888)	109 33 49.6 W (109.5638)	2200.0	NEIS
BW03	R	Boulder Array ..... Wyoming, U.S.A. (42.7869)	42 47 12.7 N (42.7869)	109 32 46.8 W (109.5463)	2200.0	NEIS
BW04	R	Boulder Array ..... Wyoming, U.S.A. (42.7791)	42 46 44.8 N (42.7791)	109 34 18.3 W (109.5717)	2190.0	NEIS
BW05	R	Boulder Array ..... Wyoming, U.S.A. (42.7811)	42 46 52.0 N (42.7811)	109 33 50.0 W (109.5639)	2200.0	NEIS
BW06	D	Boulder Array ..... Wyoming, U.S.A. opened 19860718.	42 46 40.0 N (42.7778)	109 33 20.0 W (109.5556)	2200.0	NEIS USTN
BW07	R	Boulder Array ..... Wyoming, U.S.A. (42.7808)	42 46 51.0 N (42.7808)	109 32 30.5 W (109.5418)	2200.0	NEIS
BW08	R	Boulder Array ..... Wyoming, U.S.A. (42.7696)	42 46 10.4 N (42.7696)	109 34 51.9 W (109.5811)	2200.0	NEIS
BW09	R	Boulder Array ..... Wyoming, U.S.A. (42.7723)	42 46 20.2 N (42.7723)	109 33 50.9 W (109.5641)	2200.0	NEIS
BW10	R	Boulder Array ..... Wyoming, U.S.A. (42.7697)	42 46 10.8 N (42.7697)	109 33 13.8 W (109.5538)	2200.0	NEIS
BW11	R	Boulder Array ..... Wyoming, U.S.A. (42.7627)	42 45 45.8 N (42.7627)	109 34 26.7 W (109.5741)	2200.0	NEIS
BW12	R	Boulder Array ..... Wyoming, U.S.A. (42.7654)	42 45 55.5 N (42.7654)	109 33 36.3 W (109.5601)	2200.0	NEIS
BW13	R	Boulder Array ..... Wyoming, U.S.A. (42.7654)	42 45 55.5 N (42.7654)	109 32 46.8 W (109.5463)	2200.0	NEIS
BWN		Browne ..... Central Alaska, Alaska, U.S.A. opened 19890919.	64 10 18.0 N (64.1717)	149 27 55.2 W (149.4653)	365.0	GIA



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BWZ	D Berwen Station ..... South Island, New Zealand opened 19910120.	44 31 54.0 S (44.5317)	169 52 59.0 E (169.8831)	500.0	WEL
BYO	R Bayan-Olgii ..... Mongolia	48 57 36.0 N (48.9600)	89 57 36.0 E ( 89.9600)	...	
BZK	Bozkurt ..... Turkey opened 199207.	41 57 48.0 N (41.9633)	34 00 27.0 E ( 34.0075)	70.0	ISK
CABA	Caballo Blanco ..... Venezuela opened 1984.	7 51 20.9 N ( 7.8558)	71 30 07.9 W ( 71.5022)	1600.0	CAR
CACB	D Caconde ..... Sao Paulo, Brazil opened 199303.	21 40 48.7 S (21.6802)	46 43 57.4 W ( 46.7326)	1381.0	VAO
CACH	El Canelo ..... O'Higgins, Chile opened 19901106.	34 07 01.2 S (34.1170)	70 36 00.0 W ( 70.6000)	1300.0	SAN
CAE	D Caneva ..... Friuli-Venezia Giulia, Italy opened 19830423.	46 00 24.0 N (46.0067)	12 26 12.0 E ( 12.4367)	870.0	TRI
CAIV	Caiguire ..... Venezuela opened 199304.	10 28 10.2 N (10.4695)	64 10 23.2 W ( 64.1731)	40.0	CAR
CALD	R Caldeiras das Furnas ..... Azores, Portugal	...	...	...	PDA
CALV	..... Ecuador opened 199404.	1 31 19.2 S ( 1.5220)	77 54 31.8 W ( 77.9088)	1180.0	QUI
CAMM	R ..... Veracruz, Mexico IIM code CAM.	19 35 16.8 N (19.5880)	96 27 36.0 W ( 96.4600)	190.0	IIM
CANV	Cerro Antonio ..... Venezuela opened 199304.	11 02 20.4 N (11.0390)	68 49 40.8 W ( 68.8280)	450.0	CAR
CASR	Casa Diablo Mountain ..... Mono County, California, U.S.A. opened 19800601. REN code CAS.	37 34 29.4 N (37.5748)	118 33 05.4 W (118.5515)	2170.0	REN
CAY	D Cayenne ..... French Guiana opened 19850722.	4 57 00.0 N ( 4.9500)	52 19 12.0 W ( 52.3200)	25.0	GEOS
CAYA	Cayambe ..... Ecuador opened 198904.	0 04 48.0 N ( 0.0800)	77 59 00.0 W ( 77.9833)	4000.0	QUI
CBD	Cypress Bend ..... Missouri, U.S.A. opened 19850621. SLM code CBMO.	36 19 01.2 N (36.3170)	89 39 03.6 W ( 89.6510)	84.0	SLM
CBET	Carlsbad East Tower ..... New Mexico, U.S.A.	32 25 13.8 N (32.4205)	103 59 24.0 W (103.9900)	1042.0	SNM
CBLG	Bald Mountain Lookout ..... Mono County, California, U.S.A. opened 1984.	37 46 17.4 N (37.7715)	118 53 54.0 W (118.8983)	2560.0	CDMG
CBSW	Chelan Butte South ..... Washington, U.S.A. opened 1987. SEA code CBS.	47 48 16.7 N (47.8046)	120 02 27.6 W (120.0410)	1073.0	SEA
CBTI	Cedar Butte ..... Idaho, U.S.A. opened 19860711.	43 23 15.0 N (43.3875)	112 54 41.4 W (112.9115)	1754.0	USGS
CBZL	Buffer Zone ..... Alameda County, California, U.S.A. opened 19890207.	37 41 30.0 N (37.6917)	121 42 56.4 W (121.7157)	175.0	LVM
CBZM	R ..... Michoacan, Mexico UNM code CBZ.	18 00 54.0 N (18.0150)	102 24 18.0 W (102.4050)	...	UNM
CC5	R Presa El Caracol No. 5 ..... Guerrero, Mexico	17 32 24.0 N (17.5400)	99 16 40.8 W ( 99.2780)	...	IIM
CCHE	C Chesterland ..... Ohio, U.S.A. closed 19920615.	41 33 40.2 N (41.5612)	81 21 43.2 W ( 81.3620)	365.0	CLE
CCMO	Creve Couer ..... Missouri, U.S.A.	38 43 12.0 N (38.7200)	90 28 01.2 W ( 90.4670)	152.0	SLM
CCMX	Caleta de Campos ..... Michoacan, Mexico Strong-motion station.	18 03 12.0 N (18.0533)	102 45 00.0 W (102.7500)	...	LJC
CCOK	R Camp Classen ..... Oklahoma, U.S.A.	...	...	...	TUL
CDAL	Dalton Road ..... Alameda County, California, U.S.A. opened 19800201.	37 43 48.0 N (37.7300)	121 43 42.0 W (121.7283)	190.0	LVM
CDAM	R Ciudad Altamirano ..... Guerrero, Mexico UNM code CDA.	18 21 .. N (18.3500)	100 39 .. W (100.6500)	300.0	UNM
CDCB	D Carmo do Cajuru ..... Minas Gerais, Brazil opened 199301.	20 14 11.4 S (20.2365)	44 43 05.5 W ( 44.7182)	880.0	VAO
CDFW	Cedar Flats ..... Washington, U.S.A. opened 198003. SEA code CDF.	46 06 58.2 N (46.1162)	122 02 51.0 W (122.0475)	780.0	SEA
CDMG	F California Division of Mines and Geology				



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CDZ	UD	Cobb Dam ..... South Island, New Zealand 19891130-19900425.	41 05 43.8 S (41.0955)	172 42 46.8 E (172.7130)	780.0	WEL
CECL	C	East Claridon ..... Ohio, U.S.A. closed 19920615.	41 32 49.2 N (41.5470)	81 06 07.2 W ( 81.1020)	362.0	CLE
CECU	C	Ecuador Network ..... Ecuador ( 0.4762)	0 28 34.2 S ( 0.4762)	77 52 13.2 W ( 77.8703)	2220.0	QUI
CEDI		Cerro Diablo ..... Venezuela opened 1984.	7 39 14.4 N ( 7.6540)	71 53 06.0 W ( 71.8850)	900.0	CAR
CEIV	D	La Ceiba ..... Venezuela ( 9.4100)	9 24 36.0 N ( 9.4100)	71 21 03.6 W ( 71.3510)	...	INTV
CENE		Cerro Negro ..... Venezuela opened 1984.	7 45 50.4 N ( 7.7640)	71 19 22.1 W ( 71.3228)	400.0	CAR
CEO	R	Cerro Encantado ..... Oaxaca, Mexico (16.2333)	16 14 00.0 N (16.2333)	97 01 06.0 W ( 97.0183)	3000.0	UNM
CEOS		Cerro El Oso ..... Venezuela opened 198612.	9 01 50.5 N ( 9.0307)	68 20 02.8 W ( 68.3341)	800.0	CAR
CERV	D	Cerron ..... Venezuela (10.3110)	10 18 39.6 N (10.3110)	70 40 26.4 W ( 70.6740)	...	INTV
CESL		Cescau ..... Aquitaine, France (43.4019)	43 24 07.0 N (43.4019)	0 31 55.0 W ( 0.5319)	220.0	STR
CFC	R	Cairnmuir Flats ..... South Island, New Zealand (45.1842)	45 11 03.0 S (45.1842)	169 17 32.0 E (169.2922)	576.0	WELC
CFS		Cross Fire Station ..... South Carolina, U.S.A. opened 19880530.	33 16 43.3 N (33.2787)	80 10 09.5 W ( 80.1693)	26.0	USGS
CFTV		Fuerteventura ..... Canary Islands, Spain opened 198512.	28 24 49.8 N (28.4138)	14 05 00.0 W ( 14.0833)	540.0	MDD
CGAC	R	Cerro Gallo ..... Costa Rica (10.0310)	10 01 51.6 N (10.0310)	84 28 32.4 W ( 84.4757)	1300.0	SJR
CGG		..... Guerrero, Mexico (16.6750)	16 40 30.0 N (16.6750)	98 27 27.0 W ( 98.4575)	400.0	UNM
CGPM		Gavin Park ..... Alameda County, California, U.S.A. opened 19920205. Also borehole station opened 19920131 at elev 229m. MNLO code CGP.	37 38 43.2 N (37.6453)	122 00 37.2 W (122.0103)	366.0	MNLO
CGRR	C	Girdled Road ..... Ohio, U.S.A. closed 19920615.	41 40 43.4 N (41.6787)	81 08 30.6 W ( 81.1418)	334.0	CLE
CGY		Coligny ..... Transvaal, South Africa opened 1986.	26 20 54.0 S (26.3483)	26 22 30.0 E ( 26.3750)	...	PRE
CHAF		Chalampe ..... Alsace, France (47.8122)	47 48 44.0 N (47.8122)	7 32 25.0 E ( 7.5403)	-285.0	STR
CHHM	R	..... Chihuahua, Mexico	...	...	...	UNM
CHIC		Chingaza ..... Colombia ( 4.6330)	4 37 58.8 N ( 4.6330)	73 43 50.2 W ( 73.7306)	3102.0	INGM
CHIE		El Hierro Las Playas ..... Canary Islands, Spain opened 198906.	27 43 37.2 N (27.7270)	17 57 38.5 W ( 17.9607)	170.0	MDD
CHIM	C	Chimborazo ..... Ecuador 199001-1991?	1 25 13.0 S ( 1.4203)	78 51 41.0 W ( 78.8614)	4100.0	QUI
CHKI	R	Chanki ..... India	...	...	...	JHI
CHKT	R	Ch'eng-kung ..... China (Taiwan) (23.0992)	23 05 57.2 N (23.0992)	121 21 55.4 E (121.3654)	33.5	TAP
CHMZ		Choma ..... Zambia opened 1987.	16 50 .. S (16.8333)	27 04 .. E ( 27.0667)	1278.0	LSZ
CHOC	R	..... Czech Republic (49.7690)	49 46 08.4 N (49.7690)	18 33 39.6 E ( 18.5610)	...	PRU
CHOI		Coyote Hollow ..... Idaho, U.S.A. opened 198601.	43 18 45.0 N (43.3125)	111 12 45.9 W (111.2127)	2103.0	USBR
CHOR		Cabbage Hill ..... Oregon, U.S.A. opened 198608. SEA code CHO.	45 35 27.0 N (45.5908)	118 34 45.0 W (118.5792)	1076.0	SEA
CHPM		Chiautla de Tapia ..... Puebla, Mexico UNM code CHP.	18 17 55.0 N (18.2986)	98 36 47.6 W ( 98.6132)	1030.0	UNM
CIA		Chichaoua ..... Morocco (31.5560)	31 33 21.6 N (31.5560)	8 46 08.4 W ( 8.7690)	...	CNRM
CIGS		Centro Investigaciones Geotecnicas ..... El Salvador opened 199112.	13 41 53.0 N (13.6981)	89 10 24.0 W ( 89.1733)	616.0	SSS
CIO		Camerino (Monte d'Aria) ..... Marche, Italy (43.1950)	43 11 42.0 N (43.1950)	13 08 38.4 E ( 13.1440)	956.0	SSO
CIPM		..... Puebla, Mexico UNM code CIP.	17 57 43.2 N (17.9620)	97 51 14.4 W ( 97.8540)	...	UNM
CIQ	R	Chicoutimi ..... Quebec, Canada opened 19890511.	48 16 20.4 N (48.2723)	70 47 27.0 W ( 70.7908)	273.0	OTTR



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CJR1	Cluj ..... Romania opened 19851201.	46 45 58.0 N (46.7661)	23 33 05.0 E ( 23.5514)	345.0	BUC
CKL	Chakachamna Lake ..... Western Alaska, Alaska, U.S.A. opened 1989.	61 11 47.4 N (61.1965)	152 20 16.2 W (152.3378)	1265.0	AGS
CKN	Chakachatna North ..... Western Alaska, Alaska, U.S.A. opened 19910819.	61 13 26.4 N (61.2240)	152 10 53.4 W (152.1815)	735.0	AGS
CKT	Bend ..... Western Alaska, Alaska, U.S.A. opened 19920917.	61 12 03.0 N (61.2008)	152 12 22.2 W (152.2062)	1036.0	AGS
CLLP	Cerrillos ..... Puerto Rico opened 199104.	18 04 48.0 N (18.0800)	66 34 36.0 W ( 66.5767)	...	MPR
CLMC	Lago Calima ..... Colombia ( 3.8814)	3 52 52.9 N ( 3.8814)	76 33 46.8 W ( 76.5630)	1480.0	UVC
CLN6	Carlsbad ..... New Mexico, U.S.A. SNM code CL6.	32 31 15.0 N (32.5208)	103 52 45.0 W (103.8792)	1100.0	SNM
CLNB	Carlsbad ..... New Mexico, U.S.A. SNM code CL2B.	32 15 51.0 N (32.2642)	103 52 43.2 W (103.8787)	1045.0	SNM
CLTN	F G.S.C. Charlevoix Local Telemetered Network				
CMB	D Columbia College ..... Tuolumne County, California, U.S.A. opened 19861106. DWSS 19861106-19920601. USNN opened 19920910. MNLO code CMBB.	38 02 06.0 N (38.0350)	120 23 06.0 W (120.3850)	719.0	BRK DWSS USNN USTN
CMBC	Cumbal ..... Colombia ( 0.8594)	0 51 33.9 N ( 0.8594)	77 50 30.7 W ( 77.8419)	3420.0	INGM
CMCZ	Cairnmuir Mts. .... South Island, New Zealand (45.1492)	45 08 57.0 S (45.1492)	169 16 30.0 E (169.2750)	1039.0	WELC
CME	Menerdue Farm ..... England, United Kingdom opened 1982.	50 10 33.6 N (50.1760)	5 11 25.1 W ( 5.1903)	178.0	BGS
CMEN	C Mentor ..... Ohio, U.S.A. closed 19920615.	41 41 02.4 N (41.6840)	81 24 14.4 W ( 81.4040)	188.0	CLE
CMG2	La Cumbre 2 ..... Guatemala opened 1988. GCG code CM2.	14 39 39.0 N (14.6608)	89 47 12.0 W ( 89.7867)	1710.0	GCG
CMSA	RD Cobar Meteorology Station ..... New South Wales, Australia (31.5390)	31 32 20.4 S (31.5390)	141 41 25.1 E (141.6903)	220.0	AUST
CMX	(Alternate Abbreviation for COLM)				
CNBA	Chernabura Island ..... Alaska Peninsula, Alaska, U.S.A. PAL code CNB.	54 49 13.2 N (54.8203)	159 35 18.0 W (159.5883)	90.0	PAL
CNCI	Crows Nest Canyon ..... Idaho, U.S.A. opened 1992.	43 55 44.4 N (43.9290)	113 27 10.8 W (113.4530)	1914.0	USGS
CNI	Changuinola ..... Panama ( 9.4167)	9 25 00.0 N ( 9.4167)	82 31 00.6 W ( 82.5168)	20.0	UPA
CNIL	Conil ..... Spain (36.3695)	36 22 10.2 N (36.3695)	6 03 06.6 W ( 6.0518)	80.0	SFS
CNQ	Also sent to NEIS by MDD. Baie Comeau ..... Quebec, Canada opened 19910107.	49 18 08.0 N (49.3022)	68 04 28.0 W ( 68.0744)	200.0	ECTN
CNRM	F Centre National de Recherche, Morocco				
CNS	Constantine ..... Algeria opened 19870907.	36 22 12.0 N (36.3700)	6 36 45.0 E ( 6.6125)	670.0	ALG
COAS	Coatepeque ..... El Salvador SSS code COA.	13 53 12.0 N (13.8867)	89 34 19.0 W ( 89.5719)	1260.0	SSS
COLF	Collangettes ..... Auvergne, France (45.5179)	45 31 04.3 N (45.5179)	3 41 42.4 E ( 3.6951)	725.0	STR
COLM	Colima ..... Colima, Mexico opened 1986. UNM code COL.	19 10 51.0 N (19.1808)	103 41 27.5 W (103.6910)	779.3	UNM
COLW	Colter Canyon ..... Wyoming, U.S.A. opened 198601.	43 57 14.2 N (43.9539)	110 41 45.6 W (110.6960)	2079.0	USBR
COM2	R Comitán 2 ..... Chiapas, Mexico (16.2417)	16 14 30.0 N (16.2417)	92 08 13.8 W ( 92.1372)	...	UNM
COMI	Craters of the Moon ..... Idaho, U.S.A. opened 1992.	43 27 42.6 N (43.4618)	113 35 37.8 W (113.5938)	1890.0	USGS
COOL	Coolgardie ..... Western Australia, Australia opened 198808.	30 53 01.8 S (30.8838)	121 08 40.8 E (121.1447)	500.0	AUST
COTA	Cotacachi ..... Ecuador opened 198809.	0 20 06.0 N ( 0.3350)	78 20 16.2 W ( 78.3378)	4020.0	QUI
CP2	Crater Peak Two ..... Western Alaska, Alaska, U.S.A. opened 19921026.	61 15 51.0 N (61.2642)	152 14 30.6 W (152.2418)	1981.0	AGS
CPAM	Crater Peak Alternate ..... Western Alaska, Alaska, U.S.A. opened 19921029. AGS code CPA.	61 15 17.4 N (61.2548)	152 08 29.4 W (152.1415)	1192.0	AGS

CODES



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CPIM	Pinole Ridge ..... Contra Costa County, California, U.S.A. opened 19911010. MNLO code CPI.	37 59 20.0 N (37.9889)	122 12 52.8 W (122.2147)	226.0	MNLO
CPKM	Crater Peak Rim ..... Western Alaska, Alaska, U.S.A. opened 19911001. AGS code CPK.	61 15 48.0 N (61.2633)	152 14 00.0 W (152.2333)	2017.0	AGS
CPMM	Point Molate ..... Contra Costa County, California, U.S.A. opened 19910904. MNLO code CPM.	37 56 56.4 N (37.9490)	122 24 27.6 W (122.4077)	116.0	MNLO
CPO5	(Alternate Abbreviation for CPOT)				
CPRX	Cap Rock ..... New Mexico, U.S.A.	33 01 51.0 N (33.0308)	103 52 00.0 W (103.8667)	1356.0	SNM
CPS	Cap Spartel ..... Morocco	35 47 23.0 N (35.7897)	5 34 32.0 W ( 5.5756)	...	CNRM
CPUP	R Villa Florida ..... Paraguay proposed GTSN station.	26 19 50.0 S (26.3306)	57 19 45.0 W ( 57.3292)	5.0	
CPY	CP-1 ..... Nevada, U.S.A. opened 19910114.	36 55 43.8 N (36.9288)	116 03 31.8 W (116.0588)	1368.0	USGS
CPZ	Penzance ..... England, United Kingdom opened 1981.	50 09 21.6 N (50.1560)	5 35 00.6 W ( 5.5835)	198.0	BGS
CRBI	Circular Butte ..... Idaho, U.S.A. opened 198711.	43 49 49.2 N (43.8303)	112 38 04.2 W (112.6345)	1543.0	USGS
CRNM	Carthage ..... New Mexico, U.S.A. SNM code CAR.	33 57 09.0 N (33.9525)	106 44 04.2 W (106.7345)	1662.0	SNM
CROR	Criterion Ridge ..... Oregon, U.S.A. opened 198708. SEA code VCR.	44 58 58.2 N (44.9828)	120 59 17.4 W (120.9882)	1015.0	SEA
CRQ2	R Rosemanowes 2 ..... England, United Kingdom opened 1981.	50 10 00.8 N (50.1669)	5 10 07.3 W ( 5.1687)	152.0	BGS
CRQM	Cirque ..... Central Alaska, Alaska, U.S.A. opened 19880701. AGS code CRQ.	60 45 24.0 N (60.7567)	143 08 21.0 W (143.1392)	1853.0	AGS
CRUC	La Cruz ..... Colombia	1 29 55.2 N ( 1.4987)	76 57 08.2 W ( 76.9523)	2743.0	INGM
CRUV	Carupano ..... Venezuela opened 199304.	10 40 29.3 N (10.6748)	63 14 10.7 W ( 63.2363)	20.0	CAR
CRZC	R La Cruz ..... Costa Rica	10 57 12.0 N (10.9533)	85 35 48.0 W ( 85.5967)	325.0	SJR
CRZF	D Crozet Islands ..... Crozet Islands opened 19860201.	46 25 46.7 S (46.4296)	51 51 40.4 E ( 51.8612)	140.0	STR GEOS
CSLM	San Leandro Hills ..... Alameda County, California, U.S.A. opened 19910808. MNLO code CSL.	37 43 27.6 N (37.7243)	122 07 06.0 W (122.1183)	246.0	MNLO
CSO	D Casso ..... Friuli-Venezia Giulia, Italy opened 19880101.	46 16 24.0 N (46.2733)	12 19 26.0 E ( 12.3239)	1070.0	TRI
CSPM	San Pablo Ridge ..... Contra Costa County, California, U.S.A. opened 19820718. MNLO code CSP.	37 57 27.0 N (37.9575)	122 18 39.0 W (122.3108)	216.0	MNLO
CSTJ	Casr Tuba ..... Jordan opened 19900324.	31 07 12.0 N (31.1200)	36 40 37.2 E ( 36.6770)	760.0	JSO
CSTL	Corral Hollow ..... San Joaquin County, California, U.S.A. opened 19810218. MNLO code CST.	37 38 21.0 N (37.6392)	121 29 53.4 W (121.4982)	205.0	LVM
CSVM	Stone Valley ..... Contra Costa County, California, U.S.A. opened 19900503. MNLO code CSV.	37 51 52.8 N (37.8647)	122 00 09.6 W (122.0027)	238.0	MNLO
CSY	Casey Station ..... Greater Antarctica, Antarctica	66 17 21.8 S (66.2894)	110 31 44.0 E (110.5289)	56.0	AUST
CSZ	D Casera Razzo ..... Friuli-Venezia Giulia, Italy opened 19880101.	46 28 23.0 N (46.4731)	12 37 02.0 E ( 12.6172)	1825.0	TRI
CTAS	U Cauta ..... El Salvador SSS code CTA.	13 44 56.0 N (13.7489)	89 51 55.0 W ( 89.8653)	355.0	SSS
CTB	Cotabato ..... Mindanao, Philippines	7 12 .. N ( 7.2000)	124 12 .. E (124.2000)	50.0	MAN
CTFE	Tenerife--Las Mesas ..... Canary Islands, Spain opened 198301.	28 28 46.4 N (28.4796)	16 15 43.7 W ( 16.2621)	270.0	MDD
CTFL	Taylor Farm ..... Alameda County, California, U.S.A. opened 198007 or 19810218. MNLO code CTF.	37 38 46.8 N (37.6463)	121 40 21.0 W (121.6725)	295.0	LVM
CTHA	C Thorn Acres ..... Ohio, U.S.A. closed 19920615.	41 32 31.8 N (41.5422)	81 06 39.0 W ( 81.1108)	362.0	CLE
CTK	Catak ..... Turkey opened 1991.	40 41 24.0 N (40.6900)	34 49 34.0 E ( 34.8261)	1250.0	DDA



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CTOM	C Thompson ..... Ohio, U.S.A. closed 19920615.	41 41 30.0 N (41.6917)	81 08 50.4 W ( 81.1473)	387.0	CLE
CUMC	Nevado de Cumbal ..... Colombia opened 1989.	0 57 38.4 N ( 0.9607)	77 52 20.4 W ( 77.8723)	3950.0	UVC
CUPM	Cuyoaco ..... Puebla, Mexico UNM code CUP.	19 36 13.0 N (19.6036)	97 37 07.0 W ( 97.6186)	2450.0	UNM
CUSS	Cusmapa ..... El Salvador SSS code CUS.	13 54 33.0 N (13.9092)	89 56 50.0 W ( 89.9472)	678.0	SSS
CUT	Chulitna ..... Central Alaska, Alaska, U.S.A. opened 19860718.	62 24 16.8 N (62.4047)	150 16 10.2 W (150.2695)	168.0	GIA
CVAL	V.A. Hospital ..... Alameda County, California, U.S.A. opened 19810210. MNLO code CVA.	37 37 06.0 N (37.6183)	121 45 29.4 W (121.7582)	201.0	LVM
CVLQ	R Collinsville ..... Queensland, Australia opened 19850430. QDM code CVL.	20 35 24.0 S (20.5900)	147 36 32.4 E (147.6090)	102.0	QDM
CVM	R Colonia del Valle ..... Distrito Federal, Mexico	19 22 55.7 N (19.3821)	99 10 42.5 W ( 99.1785)	...	UNM
CVN	Calvinia ..... Cape Province, South Africa	31 27 00.0 S (31.4500)	19 45 42.0 E ( 19.7617)	1050.0	PRE
CVPM	Vollmer Peak ..... Contra Costa County, California, U.S.A. opened 19910426. MNLO code CVP.	37 53 02.4 N (37.8840)	122 13 19.2 W (122.2220)	568.0	MNLO
CVT	Castelvetrano ..... Sicilia, Italy	37 40 40.8 N (37.6780)	12 47 31.2 E ( 12.7920)	...	ERC
CVTM	R Ciudad Victoria ..... Tamaulipas, Mexico	...	...	...	UNM
CVVD	C Valverde--Aguarijo ..... Canary Islands, Spain 198502-199310.	27 49 15.0 N (27.8208)	17 56 10.0 W ( 17.9361)	450.0	MDD
CWCR	Coldwater Canyon ..... Inyo County, California, U.S.A. opened 19840810. MNLO code CWC.	37 29 41.4 N (37.4948)	118 18 22.8 W (118.3063)	2000.0	REN
CWZ	Cowlitz River ..... Washington, U.S.A. opened 198003. SEA code COW.	46 29 27.6 N (46.4910)	122 00 43.6 W (122.0121)	305.0	SEA
CXP	..... Puebla, Mexico	18 16 31.4 N (18.2754)	97 08 30.3 W ( 97.1418)	...	UNM
CYBM	Yerba Buena Island ..... San Francisco County, California, U.S.A. opened 19920604. MNLO code CYB.	37 48 40.8 N (37.8113)	122 21 39.0 W (122.3608)	24.0	MNLO
CYK	Cape Yakataga ..... Central Alaska, Alaska, U.S.A. opened 1989.	60 04 58.8 N (60.0830)	142 29 04.8 W (142.4847)	3.0	AGS
CZD	Col de Zad ..... Morocco CNRM code CLZ.	33 02 31.2 N (33.0420)	5 02 31.2 W ( 5.0420)	...	CNRM
CZM	Crazy Man Mountain ..... Washington, U.S.A. opened 198004. SEA code CMM.	46 26 07.0 N (46.4353)	122 30 21.0 W (122.5058)	620.0	SEA
DAQ	Lac Daran ..... Quebec, Canada opened 19881215.	47 57 52.0 N (47.9644)	71 14 33.0 W ( 71.2425)	939.0	ECTN
DAWY	D Dawson ..... Yukon Territory, Canada opened 19920930.	64 03 55.9 N (64.0655)	139 23 27.3 W (139.3909)	808.0	OTT
DBCT	Belle View Chopil ..... Dominica opened 198912.	15 16 10.6 N (15.2696)	61 21 12.2 W ( 61.3534)	527.0	TRN
DBG	R Daneborg ..... Greenland	...	...	...	
DBIC	R Dimbokro ..... Cote d'Ivoire proposed GTSN station.	6 40 12.3 N ( 6.6701)	4 51 22.7 W ( 4.8563)	25.0	LIC
DBO	Dodson Butte ..... Oregon, U.S.A. opened 199008.	43 07 09.0 N (43.1192)	123 14 34.0 W (123.2428)	984.0	SEA
DBOG	Casa Diablo ..... Mono County, California, U.S.A. opened 198407. MNLO code CDBO.	37 39 10.2 N (37.6528)	118 55 04.2 W (118.9178)	2243.0	CDMG
DBS	RD ..... Northern Ireland, United Kingdom	...	...	...	
DBV	R Dien Bien Phu ..... Vietnam	21 23 24.0 N (21.3900)	103 01 30.0 E (103.0250)	1050.0	PLV
DBVM	R Dos Bocas ..... Veracruz, Mexico	...	...	...	UNM
DBY	C Dobrovo ..... Slovenia 19890814-19890817.	45 59 56.4 N (45.9990)	13 31 40.8 E ( 13.5280)	100.0	LJU
DCO	Combe Farm ..... England, United Kingdom opened 1982.	50 19 12.0 N (50.3200)	3 52 20.6 W ( 3.8724)	410.0	BGS
DCP	Dickinson College ..... Pennsylvania, U.S.A. opened 19900114.	40 12 14.4 N (40.2040)	77 11 49.2 W ( 77.1970)	143.0	



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DCZ	D Deep Cove ..... South Island, New Zealand opened 19910528.	45 28 42.0 S (45.4783)	167 09 15.0 E (167.1542)	20.0	WEL
DDA	F Directorate of Disaster Affairs, Ankara, Turkey				
DEG	La Desirade ..... Guadeloupe opened 198803.	16 18 47.5 N (16.3132)	61 03 35.3 W ( 61.0598)	575.0	FDF
DEK	DeKalb ..... Illinois, U.S.A. opened 198701.	41 55 59.2 N (41.9331)	88 45 54.0 W ( 88.7650)	259.0	
DFE	RD Dawson Falls ..... North Island, New Zealand opened 199206.	39 19 39.0 S (39.3275)	174 06 13.0 E (174.1036)	...	WEL
DFR	Drift River ..... Western Alaska, Alaska, U.S.A. opened 19880815.	60 35 31.2 N (60.5920)	152 41 10.2 W (152.6862)	1097.0	AGS
DGBT	Grand Bay ..... Dominica (15.2390)	15 14 20.4 N (15.2390)	61 19 44.4 W ( 61.3290)	70.0	TRN
DGR	D Domenigoni Valley Reservoir ..... Riverside County, California, U.S.A. opened 19931703.	33 39 00.0 N (33.6500)	117 00 32.4 W (117.0090)	700.0	PAS
DHB	Downhole Baldwin Hills ..... Los Angeles County, California, U.S.A. opened 197303. MNLO code DHBS.	34 01 03.0 N (34.0175)	118 23 07.8 W (118.3855)	-1470.0	USC
DHJN	Dharan Janob ..... Saudi Arabia opened 19900613.	17 39 36.0 N (17.6600)	43 29 20.4 E ( 43.4890)	2400.0	RYD
DHLJ	Dahl ..... Jordan opened 19900223.	30 49 12.0 N (30.8200)	35 24 07.2 E ( 35.4020)	-80.0	JSO
DHMR	R Dhamar ..... Yemen (14.5612)	14 33 40.2 N (14.5612)	44 23 14.4 E ( 44.3873)	...	
DHW2	Dyer Hill 2 ..... Washington, U.S.A. opened 198506. SEA code DY2.	47 59 06.9 N (47.9853)	119 46 13.0 W (119.7703)	884.0	SEA
DHY	Denali Highway ..... Central Alaska, Alaska, U.S.A. opened 19930706.	63 04 34.8 N (63.0763)	147 22 24.0 W (147.3733)	1615.0	GIA
DIAC	La Diana ..... Colombia opened 1987.	3 17 28.8 N ( 3.2913)	76 11 50.4 W ( 76.1973)	1520.0	UVC
DIW	D D'Urville Island ..... South Island, New Zealand opened 199006.	40 48 08.0 S (40.8022)	173 55 19.0 E (173.9219)	460.0	WELW
DJE	Delta Junction East ..... Central Alaska, Alaska, U.S.A. opened 19900607.	64 01 40.8 N (64.0280)	145 40 45.0 W (145.6792)	378.0	GIA
DKH	R Dar Kharkhour ..... Morocco (35.4919)	35 29 31.0 N (35.4919)	5 21 39.0 W ( 5.3608)	...	CNRM
DLBQ	RD Dalbeg ..... Queensland, Australia opened 19840409. QDM code DLB.	20 09 03.6 S (20.1510)	147 15 50.4 E (147.2640)	70.0	QDM
DLF	Lyons Farm ..... Eire opened 199104.	53 17 45.0 N (53.2958)	6 31 53.0 W ( 6.5314)	96.0	DIAS
DLG	Dolgoi Island ..... Alaska Peninsula, Alaska, U.S.A. (55.1410)	55 08 27.6 N (55.1410)	161 50 09.0 W (161.8358)	367.0	PAL
DLI	R Dili ..... Timor, Nusa Tenggara, Indonesia ( 8.5669)	8 34 01.0 S ( 8.5669)	125 33 12.0 E (125.5533)	...	DJA
DMMT	C Dalton Mountain ..... Montana, U.S.A. opened 19871119.	46 51 44.4 N (46.8623)	112 42 52.8 W (112.7147)	2039.0	BUT
DMS	Dublin Merrion Square ..... Eire opened 199011.	53 20 26.0 N (53.3406)	6 14 55.0 W ( 6.2486)	5.0	DIAS
DMW	C Delta Microwave ..... Central Alaska, Alaska, U.S.A. opened 1986.	64 03 22.8 N (64.0563)	145 43 52.2 W (145.7312)	346.0	GIA
DNGQ	RD Doongara ..... Queensland, Australia opened 19840229. QDM code DNG.	20 33 18.0 S (20.5550)	146 28 30.0 E (146.4750)	280.0	QDM
DOI	D San Damiano Macra ..... Piemonte, Italy (44.5036)	44 30 12.8 N (44.5036)	7 14 43.4 E ( 7.2454)	1015.0	ROM
DOMF	Dompierre-sur-Helpe ..... Nord-Pas-de-Calais, France (50.1288)	50 07 43.7 N (50.1288)	3 51 39.6 E ( 3.8610)	145.0	
DOMO	..... Ecuador opened 199404.	0 18 12.0 N ( 0.3033)	78 21 33.0 W ( 78.3592)	3600.0	QUI
DOT	Dot Lake ..... Central Alaska, Alaska, U.S.A. opened 1986.	63 38 55.2 N (63.6487)	144 03 45.0 W (144.0625)	671.0	GIA
DPC	D Dobruska-Polom ..... Czech Republic (50.3583)	50 21 29.9 N (50.3583)	16 24 40.0 E ( 16.4111)	760.0	PRU
DPI	Dunn Peak ..... Idaho, U.S.A. opened 198710.	47 17 19.2 N (47.2887)	116 53 55.8 W (116.8988)	1709.0	
DPMT	Pointe Michel ..... Dominica (15.2590)	15 15 32.4 N (15.2590)	61 23 06.0 W ( 61.3850)	50.0	TRN
DPQ	Saint-Jean-des-Piles ..... Quebec, Canada (46.6805)	46 40 49.8 N (46.6805)	72 46 38.4 W ( 72.7773)	167.0	ECTN



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
DPW	D Davenport ..... Washington, U.S.A. opened 198611. USTN opened 1988.	47 52 14.3 N (47.8706)	118 12 10.2 W (118.2028)	892.0	SEA USTN
DR01	Juana Munez ..... Dominican Republic SDD code JUAN.	19 18 41.2 N (19.3114)	70 41 46.0 W ( 70.6961)	505.0	SDD
DR02	R San Jose de las Matas ..... Dominican Republic SDD code DR2 and SANJ.	19 21 15.0 N (19.3542)	70 46 18.5 W ( 70.7718)	420.0	SDD
DR03	Pinalito ..... Dominican Republic SDD code JANI.	19 16 21.0 N (19.2725)	70 46 07.8 W ( 70.7688)	...	SDD
DR04	Monte Llano ..... Dominican Republic SDD code SALD.	19 28 02.0 N (19.4672)	70 21 36.0 W ( 70.3600)	327.0	SDD
DR05	La Lomota ..... Dominican Republic SDD code ESPE.	19 38 05.8 N (19.6349)	70 51 34.5 W ( 70.8596)	660.0	SDD
DR06	La Diferencia ..... Dominican Republic	19 13 58.2 N (19.2328)	70 59 29.4 W ( 70.9915)	...	SDD
DR07	Jarabacoa ..... Dominican Republic SDD code DR7 and JARA.	19 05 08.0 N (19.0856)	70 35 53.0 W ( 70.5981)	1030.0	SDD
DR08	Loma La Naviza ..... Dominican Republic SDD code NAVI.	18 57 44.5 N (18.9624)	70 01 18.0 W ( 70.0217)	640.0	SDD
DR09	R Piedra Blanca ..... Dominican Republic SDD code DR9 and BNAO.	18 48 40.8 N (18.8113)	70 24 59.6 W ( 70.4166)	...	SDD
DR1	(Alternate Abbreviation for DR01)				
DR10	R Alto de la Bandera ..... Dominican Republic SDD code CONS.	18 48 29.4 N (18.8082)	70 41 16.2 W ( 70.6878)	...	SDD
DR11	La Yayitas ..... Dominican Republic SDD code SCRI.	18 28 19.0 N (18.4719)	70 14 04.5 W ( 70.2346)	750.0	SDD
DR12	Loma Yerba Buena ..... Dominican Republic SDD code HATO.	18 47 16.0 N (18.7878)	60 22 50.8 W ( 60.3808)	425.0	SDD
DR13	R Sanchez ..... Dominican Republic SDD code SANC.	19 14 25.8 N (19.2405)	69 35 19.2 W ( 69.5887)	...	SDD
DR14	R Sierra Prieta ..... Dominican Republic	18 38 40.8 N (18.6447)	70 00 28.2 W ( 70.0078)	...	SDD
DR15	Siete Picos ..... Dominican Republic SDD code VILA.	18 45 01.2 N (18.7503)	70 10 38.4 W ( 70.1773)	...	SDD
DR3	(Alternate Abbreviation for DR03)				
DR4	(Alternate Abbreviation for DR04)				
DR5	(Alternate Abbreviation for DR05)				
DR6	(Alternate Abbreviation for DR06)				
DR8	(Alternate Abbreviation for DR08)				
DRE	D Drenchia ..... Friuli-Venezia Giulia, Italy opened 19821220.	46 10 24.0 N (46.1733)	13 38 36.0 E ( 13.6433)	810.0	TRI
DRLN	RD Deer Lake ..... Newfoundland, Canada opened 19931214.	49 15 21.6 N (49.2560)	57 30 15.1 W ( 57.5042)	238.0	OTT
DRRA	Deer Island ..... Alaska Peninsula, Alaska, U.S.A. PAL code DRR.	54 55 24.6 N (54.9235)	162 16 59.4 W (162.2832)	380.0	PAL
DRTN	Dyersburg ..... Tennessee, U.S.A. opened 19890808.	36 08 13.2 N (36.1370)	89 21 54.0 W ( 89.3650)	137.0	TEIC
DSC	Scotts Head ..... Dominica	15 12 30.3 N (15.2084)	61 21 54.6 W ( 61.3652)	50.0	TRN
DSD2	Dead Sea Dam 2 ..... Israel opened 1994.	31 10 48.0 N (31.1800)	35 26 24.0 E ( 35.4400)	-390.0	JER
DSI	Dead Sea--Mount Hatzatzon ..... Israel opened 19860717.	31 34 12.0 N (31.5700)	35 22 48.0 E ( 35.3800)	200.0	JER
DSIT	F DSI--State Water Works Division, Ankara, Turkey				
DSVT	Soufriere Village ..... Dominica	15 13 44.4 N (15.2290)	61 22 12.0 W ( 61.3700)	5.0	TRN
DSZ	D Denniston North ..... South Island, New Zealand opened 19900219.	41 44 49.0 S (41.7469)	171 48 09.0 E (171.8025)	630.0	WEL
DTMT	Tete Morne ..... Dominica	15 13 58.8 N (15.2330)	61 21 07.2 W ( 61.3520)	496.0	TRN
DUT	Dutch Harbor ..... Aleutian Islands, Alaska, U.S.A.	53 53 54.0 N (53.8983)	166 32 12.0 W (166.5367)	60.0	GIA
DVD	David ..... Panama opened 198606.	8 26 09.0 N ( 8.4358)	82 27 02.0 W ( 82.4506)	20.0	UPA
DVR	Devrek ..... Turkey opened 1991.	41 09 40.0 N (41.1611)	32 00 30.0 E ( 32.0083)	960.0	DDA
DWK	..... Meghalaya, India	25 11 12.0 N (25.1867)	92 01 21.6 E ( 92.0227)	...	JHI



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
DYA	Yadsworth ..... England, United Kingdom opened 1982.	50 26 06.7 N (50.4352)	3 55 51.2 W ( 3.9309)	280.0	BGS
DZD	R Dalandzadgad ..... Mongolia	43 34 12.0 N (43.5700)	104 24 36.0 E (104.4100)	...	
EALH	Alhama de Murcia ..... Spain opened 198601.	37 51 29.0 N (37.8581)	1 25 11.0 W ( 1.4197)	294.0	MDD
EAP	F (phase code designation)				
EAPC	F (phase code designation)				
EAPD	F (phase code designation)				
EBAN	Banos de la Encina ..... Spain opened 198611.	38 09 51.6 N (38.1643)	3 47 08.4 W ( 3.7857)	460.0	MDD
EBCM	R Ensenada ..... Baja California, Mexico	...	...	...	UNM
EBG	Ellensburg ..... Washington, U.S.A. SEA code ELL.	46 54 35.0 N (46.9097)	120 34 06.0 W (120.5683)	805.0	SEA
EBI	Elk Butte ..... Idaho, U.S.A. opened 1987.	46 50 15.0 N (46.8375)	116 07 06.0 W (116.1183)	1765.0	
ECHE	Chera ..... Spain opened 198611.	39 35 27.0 N (39.5908)	0 58 04.0 W ( 0.9678)	643.0	MDD
ECO	Colon ..... Panama opened 19901017.	9 21 49.7 N ( 9.3638)	79 41 37.3 W ( 79.6937)	468.0	UPA
ECOG	Cogollos-Vega ..... Spain opened 19900613.	37 16 37.9 N (37.2772)	3 33 58.9 W ( 3.5664)	1176.0	MDD
ECRI	Cripan ..... Spain opened 198610.	42 36 32.0 N (42.6089)	2 30 36.0 W ( 2.5100)	807.0	MDD
EDR	D Drumtochty ..... Scotland, United Kingdom opened 19890112.	56 55 08.2 N (56.9189)	2 32 20.9 W ( 2.5391)	388.0	BGS
EDRZ	R Edgecumbe ..... North Island, New Zealand opened 199303.	38 06 27.5 S (38.1076)	176 44 17.0 E (176.7381)	780.0	WEL
EFI	RD East Falkland Islands ..... Falkland Islands	51 28 48.0 S (51.4800)	58 24 36.0 W ( 58.4100)	...	IDA IRIS
EGD	Espegrend ..... Norway opened 199103.	60 16 16.2 N (60.2712)	5 13 32.4 E ( 5.2257)	20.0	BER
EGRA	D Graus ..... Spain opened 19901212.	42 11 42.7 N (42.1952)	0 18 57.4 W ( 0.3159)	...	MDD
EGUA	D Guajares ..... Spain opened 19910110.	36 50 01.4 N (36.8337)	3 33 55.5 W ( 3.5654)	386.0	MDD
EHUE	D Huescar ..... Spain opened 19901113.	37 48 53.2 N (37.8148)	2 35 33.6 W ( 2.5927)	980.0	MDD
EJC	R Estacion Juarez ..... Chiapas, Mexico	17 36 16.0 N (17.6044)	93 11 44.0 W ( 93.1956)	...	UNM
EJIF	Jimena de la Frontera ..... Spain opened 19880520.	36 27 04.8 N (36.4513)	5 28 07.8 W ( 5.4688)	260.0	MDD
EJIM	C Jimena de la Frontera ..... Spain 198704-19880519.	36 27 05.0 N (36.4514)	5 28 08.0 W ( 5.4689)	260.0	MDD
EKB	RD Eskdalemuir ..... Scotland, United Kingdom	55 20 15.0 N (55.3375)	3 10 38.0 W ( 3.1772)	356.0	BKN
EKC	Ekona ..... Cameroon opened 19841201.	4 12 36.0 N ( 4.2100)	9 19 37.2 E ( 9.3270)	450.0	YND
EKR	Elk River ..... Humboldt County, California, U.S.A. opened 19740620; BRK opened 1986. MNLO code EKRT.	40 41 43.2 N (40.6953)	124 08 22.2 W (124.1395)	49.0	BRK
EKS	RD Erkin Say ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
ELIZ	D Elizondo ..... Spain opened 19921203.	43 09 50.2 N (43.1639)	1 31 42.6 W ( 1.5285)	523.0	MDD
ELLO	RD Elliot Lake ..... Ontario, Canada opened 198511.	46 22 59.5 N (46.3832)	82 39 50.0 W ( 82.6639)	328.0	OTTR
ELMO	Cerro Morro ..... Venezuela opened 1984.	8 00 46.8 N ( 8.0130)	71 43 00.8 W ( 71.7169)	2100.0	CAR
ELOJ	D Sierra Loja ..... Spain opened 19931129.	37 08 51.8 N (37.1477)	4 09 09.3 W ( 4.1526)	998.0	MDD
ELPA	Fila Paraiso ..... Venezuela opened 1984.	7 47 30.1 N ( 7.7917)	71 43 31.1 W ( 71.7253)	1285.0	CAR
ELUQ	Luque ..... Spain opened 19920123.	37 33 37.8 N (37.5605)	4 16 00.4 W ( 4.2668)	703.0	MDD



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ELYP	Elaudy ..... Aquitaine, France opened 198502?	43 10 12.0 N (43.1700)	0 59 30.0 W ( 0.9917)	700.0	PAR
EMAL	D Malaga-Limonero ..... Spain opened 19930520.	36 45 43.2 N (36.7620)	4 25 45.0 W ( 4.4292)	80.0	MDD
EMEL	Melilla ..... Ceuta and Melilla, Spain opened 198802.	35 18 00.0 N (35.3000)	2 57 24.0 W ( 2.9567)	85.0	MDD
EMI	Eightmile Canyon ..... Idaho, U.S.A. opened 1992.	44 04 27.0 N (44.0742)	112 55 34.2 W (112.9262)	1963.0	USGS
EMN	Eldorado Mountains ..... Nevada, U.S.A. opened 19880811.	35 55 17.9 N (35.9216)	114 45 15.2 W (114.7542)	789.5	USGS
EMON	Mondonedo ..... Spain opened 198807.	43 26 10.0 N (43.4361)	7 19 47.4 W ( 7.3298)	615.0	MDD
EMUT	Emma Park ..... Carbon County, Utah, U.S.A.	39 48 50.4 N (39.8140)	110 48 55.2 W (110.8153)	2268.0	SLC
ENH	D Enshi ..... Hubei, China (Mainland) opened 1987.	30 16 18.5 N (30.2718)	109 29 12.5 E (109.4868)	...	BJI
ENR	Entracque ..... Piemonte, Italy	44 13 35.8 N (44.2266)	7 25 13.1 E ( 7.4203)	1040.0	GEN
ENSF	Ens ..... Midi-Pyrenees, France	42 48 17.0 N (42.8047)	0 20 08.0 E ( 0.3356)	1300.0	STR
EPBC	F (phase code designation)				
EPBD	F (phase code designation)				
EPCP	F (phase code designation)				
EPCR	F (phase code designation)				
EPCS	F (phase code designation)				
EPCU	F (phase code designation)				
EPDR	F (phase code designation)				
EPDU	F (phase code designation)				
EPGC	F (phase code designation)				
EPGD	F (phase code designation)				
EPH	Ephrata ..... Washington, U.S.A. opened 198303.	47 21 12.8 N (47.3536)	119 35 46.2 W (119.5962)	628.0	SEA
EPKP	F (phase code designation)				
EPKS	F (phase code designation)				
EPM	Echo Peak ..... Nevada, U.S.A. opened 19900918.	37 13 34.2 N (37.2262)	116 20 04.8 W (116.3347)	2408.0	USGS
EPNC	F (phase code designation)				
EPND	F (phase code designation)				
EPP	F (phase code designation)				
EPPP	F (phase code designation)				
EPSP	F (phase code designation)				
EPRU	Pruna ..... Spain opened 198611.	36 57 57.6 N (36.9660)	5 13 52.8 W ( 5.2313)	560.0	MDD
EPS	F (phase code designation)				
EPSS	F (phase code designation)				
ERK	Elk Rock ..... Washington, U.S.A. opened 198005. SEA code ELK.	46 18 20.0 N (46.3056)	122 20 27.0 W (122.3408)	1270.0	SEA
ERON	D Agron ..... Spain opened 19940301.	37 01 06.7 N (37.0185)	3 48 20.9 W ( 3.8058)	1304.0	MDD
EROQ	Roquetas del Mar ..... Spain opened 198702.	40 49 23.4 N (40.8232)	0 24 31.8 E ( 0.4088)	284.0	MDD
ERT	C Erto ..... Friuli-Venezia Giulia, Italy 19821124-19880101.	46 16 36.0 N (46.2767)	12 22 36.0 E ( 12.3767)	775.0	TRI
ERUA	La Rua ..... Spain opened 198705.	42 23 33.6 N (42.3927)	7 08 33.0 W ( 7.1425)	431.0	MDD
ERZT	Erzurum ..... Turkey	39 54 24.1 N (39.9067)	41 15 11.9 E ( 41.2533)	1955.0	MTAT
ES01	RD SONSECA Array Site 01 ..... Spain opened 19890731.	39 40 12.9 N (39.6702)	3 56 50.9 W ( 3.9475)	743.8	MDD
ES02	RD SONSECA Array Site 02 ..... Spain opened 19890731.	39 40 37.5 N (39.6771)	3 56 07.7 W ( 3.9355)	734.5	MDD
ES03	RD SONSECA Array Site 03 ..... Spain opened 19890731.	39 39 58.8 N (39.6663)	3 56 00.3 W ( 3.9334)	732.6	MDD
ES04	RD SONSECA Array Site 04 ..... Spain opened 19890731.	39 39 20.7 N (39.6558)	3 56 32.2 W ( 3.9423)	740.9	MDD
ES05	RD SONSECA Array Site 05 ..... Spain opened 19890731.	39 39 44.6 N (39.6624)	3 57 32.3 W ( 3.9590)	763.0	MDD
ES06	RD SONSECA Array Site 06 ..... Spain opened 19890731.	39 40 32.6 N (39.6757)	3 57 07.6 W ( 3.9521)	745.8	MDD

CODES



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ES07	RD SONSECA Array Site 07 ..... Spain opened 19890731.	39 41 14.3 N (39.6873)	3 57 06.8 W ( 3.9519)	734.5	MDD
ES08	RD SONSECA Array Site 08 ..... Spain opened 19890731.	39 41 32.4 N (39.6923)	3 55 30.2 W ( 3.9251)	721.5	MDD
ES09	RD SONSECA Array Site 09 ..... Spain opened 19890731.	39 40 41.1 N (39.6781)	3 53 58.5 W ( 3.8996)	753.1	MDD
ES10	RD SONSECA Array Site 10 ..... Spain opened 19890731.	39 39 28.7 N (39.6580)	3 54 09.2 W ( 3.9025)	758.2	MDD
ES11	RD SONSECA Array Site 11 ..... Spain opened 19890731.	39 38 55.2 N (39.6487)	3 55 12.0 W ( 3.9200)	758.2	MDD
ES12	RD SONSECA Array Site 12 ..... Spain opened 19890731.	39 38 19.4 N (39.6387)	3 56 34.3 W ( 3.9429)	761.1	MDD
ES13	RD SONSECA Array Site 13 ..... Spain opened 19890731.	39 39 00.2 N (39.6501)	3 57 57.7 W ( 3.9660)	762.5	MDD
ES14	RD SONSECA Array Site 14 ..... Spain opened 19890731.	39 39 06.6 N (39.6518)	3 59 18.7 W ( 3.9885)	779.7	MDD
ES15	RD SONSECA Array Site 15 ..... Spain opened 19890731.	39 39 51.0 N (39.6642)	4 00 01.4 W ( 4.0004)	776.1	MDD
ES16	RD SONSECA Array Site 16 ..... Spain opened 19890731.	39 41 12.5 N (39.6868)	3 59 39.6 W ( 3.9943)	775.4	MDD
ES17	RD SONSECA Array Site 17 ..... Spain opened 19890731.	39 42 01.3 N (39.7004)	3 58 21.9 W ( 3.9728)	766.6	MDD
ES18	RD SONSECA Array Site 18 ..... Spain opened 19890731.	39 42 36.6 N (39.7102)	3 56 57.5 W ( 3.9493)	750.1	MDD
ES19	RD SONSECA Array Site 19 ..... Spain opened 19890731.	39 42 02.3 N (39.7006)	3 53 56.8 W ( 3.8991)	720.8	MDD
ESCM	R Escarcega ..... Campeche, Mexico	...	...	...	UNM
ESCP	F (phase code designation)				
ESCS	F (phase code designation)				
ESD	East Dome ..... Washington, U.S.A. opened 198006. SEA code EDM.	46 11 50.4 N (46.1973)	122 09 00.0 W (122.1500)	1609.0	SEA
ESE	Esentepe ..... Turkey opened 1991.	40 45 20.0 N (40.7556)	30 19 27.0 E ( 30.3242)	197.0	DDAT
ESEL	Selva ..... Balearic Islands, Spain opened 198807.	39 46 05.4 N (39.7682)	2 53 39.6 E ( 2.8943)	231.0	MDD
ESGS	El Segundo ..... Los Angeles County, California, U.S.A. opened 198204. USC code ESG.	33 54 58.8 N (33.9163)	118 25 11.4 W (118.4198)	-100.0	USC
ESKP	F (phase code designation)				
ESKS	F (phase code designation)				
ESLA	D SONSECA Array ..... Spain opened 19890731.	39 40 27.3 N (39.6742)	3 57 47.3 W ( 3.9631)	752.0	MDD
ESPP	F (phase code designation)				
ESSP	F (phase code designation)				
ESSS	F (phase code designation)				
ET2	Eltopia ..... Washington, U.S.A. opened 19890405.	46 32 06.0 N (46.5350)	118 57 01.2 W (118.9503)	330.0	SEA
ET3	Eltopia ..... Washington, U.S.A. opened 19900912.	46 34 37.0 N (46.5769)	118 56 11.0 W (118.9364)	305.0	SEA
ETER	Terradas ..... Spain opened 198803.	42 18 05.4 N (42.3015)	2 51 19.8 E ( 2.8555)	238.0	MDD
ETOR	Torete ..... Spain opened 198803.	40 49 10.0 N (40.8194)	2 03 18.6 W ( 2.0552)	1018.0	MDD
ETW	Entiat ..... Washington, U.S.A. opened 198610.	47 36 16.2 N (47.6045)	120 19 51.6 W (120.3310)	1475.0	SEA
EVE	Everglades ..... Florida, U.S.A.	25 23 14.4 N (25.3873)	80 40 58.2 W ( 80.6828)	1.0	
EVIA	Vianos ..... Spain opened 198511.	38 38 19.0 N (38.6386)	2 30 09.0 W ( 2.5025)	1110.0	MDD
EVN	RD Everest ..... Nepal opened 1991.	27 57 24.5 N (27.9568)	86 49 00.1 E ( 86.8167)	5037.0	MEDN
EVR	Evritania ..... Greece opened 198906.	38 55 00.0 N (38.9167)	21 48 31.2 E ( 21.8087)	1050.0	ATH



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EVV	El Vigia ..... Veracruz, Mexico opened 1988.	18 27 23.4 N (18.4565)	95 20 57.6 W ( 95.3493)	...	UNM
EWZ	D Erewhon ..... South Island, New Zealand opened 19910321.	43 30 42.0 S (43.5117)	170 51 09.0 E (170.8525)	650.0	WEL
EXP	F (phase code designation)				
EXPC	F (phase code designation)				
EXPD	F (phase code designation)				
EXS	F (phase code designation)				
EXSG	Experiment Station ..... Mono County, California, U.S.A. opened 198407. MNLO code CEXS.	37 36 49.2 N (37.6137)	118 49 49.8 W (118.8305)	2153.0	CDMG
EYL	Eskiyayla ..... Bangladesh opened 199001.	40 33 57.6 N (40.5660)	30 09 27.0 E ( 30.1575)	1160.0	ISK
EZAM	Zamans ..... Spain opened 198612.	42 08 56.4 N (42.1490)	8 41 42.0 W ( 8.6950)	398.0	MDD
EZM	R Erzurum ..... Turkey (39.9004)	39 54 01.4 N (39.9004)	41 13 44.0 E ( 41.2289)	1860.0	ISK
FALK	R Falkenberg ..... Bayern, Germany (49.8606)	49 51 38.1 N (49.8606)	12 13 29.4 E ( 12.2248)	465.0	
FAM	Famagusta ..... Cyprus opened 198702.	34 59 46.0 N (34.9961)	34 00 07.0 E ( 34.0019)	68.0	CSS
FARM	R ..... Veracruz, Mexico IIM code FAR.	19 37 33.6 N (19.6260)	96 23 34.8 W ( 96.3930)	...	IIM
FAU	R Forcella Aurine ..... Veneto, Italy	...	...	...	TRI
FBO	Farmers Butte ..... Oregon, U.S.A. opened 199109.	44 18 35.6 N (44.3099)	122 34 40.2 W (122.5778)	1080.0	SEA
FDKY	Freedom ..... Kentucky, U.S.A. opened 19870327.	36 47 24.0 N (36.7900)	85 47 39.0 W ( 85.7942)	306.0	TVA
FEF	Fern Forest ..... Hawaii, Hawaii, U.S.A.	19 28 42.0 N (19.4783)	155 08 54.6 W (155.1485)	691.0	HVO
FG2	Serracapriola ..... Puglia, Italy Sent to NEIS by ROM.	41 48 13.0 N (41.8036)	15 10 17.0 E ( 15.1714)	200.0	FOG
FG3	Monte Sant'Angelo ..... Puglia, Italy Sent to NEIS by ROM.	41 42 02.5 N (41.7007)	15 57 01.0 E ( 15.9503)	830.0	FOG
FG4	Candela ..... Puglia, Italy Sent to NEIS by ROM.	41 08 05.0 N (41.1347)	15 31 14.0 E ( 15.5206)	450.0	FOG
FG5	Orsara di Puglia ..... Puglia, Italy Sent to NEIS by ROM.	41 16 56.0 N (41.2822)	15 16 09.0 E ( 15.2692)	...	FOG
FGO2	Fuego 2 ..... Guatemala opened 198607. GCG code FG2.	14 26 19.2 N (14.4387)	90 50 09.0 W ( 90.8358)	1335.0	GCG
FGTN	Flat Gap ..... Tennessee, U.S.A. opened 19911219.	36 26 02.4 N (36.4340)	83 11 42.0 W ( 83.1950)	500.0	TEIC
FGTQ	R Fig Tree ..... Queensland, Australia opened 19870803. QDM code FGT.	20 58 12.4 S (20.9701)	147 46 35.4 E (147.7765)	220.0	QDM
FIA0	FINESA Array Site A0 ..... Finland (61.4444)	61 26 39.8 N (61.4444)	26 04 45.5 E ( 26.0793)	...	HEL
FIA1	R FINESA Array Site A1 ..... Finland opened 199006.	...	...	...	HEL
FIA2	R FINESA Array Site A2 ..... Finland	...	...	...	HEL
FIA3	R FINESA Array Site A3 ..... Finland	...	...	...	HEL
FIB0	R FINESA Array Site B0 ..... Finland	...	...	...	HEL
FIB1	R FINESA Array Site B1 ..... Finland	...	...	...	HEL
FIB2	R FINESA Array Site B2 ..... Finland	...	...	...	HEL
FIB3	R FINESA Array Site B3 ..... Finland	...	...	...	HEL
FIC0	R FINESA Array Site C0 ..... Finland	...	...	...	HEL
FIC1	R FINESA Array Site C1 ..... Finland	...	...	...	HEL
FIC2	R FINESA Array Site C2 ..... Finland	...	...	...	HEL
FIC3	R FINESA Array Site C3 ..... Finland	...	...	...	HEL
FID0	R FINESA Array Site D0 ..... Finland	...	...	...	HEL
FID1	R FINESA Array Site D1 ..... Finland	...	...	...	HEL



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
FID2	R FINESA Array Site D2 ..... Finland	...	...	...	HEL
FID3	R FINESA Array Site D3 ..... Finland	...	...	...	HEL
FIG	Monte Figo ..... Portugal opened 19840330.	37 06 02.0 N (37.1006)	7 49 42.0 W ( 7.8283)	310.0	INMG
FIN	Finale Ligure ..... Liguria, Italy	44 12 33.0 N (44.2092)	8 12 30.0 E ( 8.2083)	590.0	GEN
FINC	D Finschhafen ..... New Guinea, Papua New Guinea opened 199205.	6 37 00.0 S ( 6.6167)	147 51 24.7 E (147.8569)	7.0	PMG
FIPE	Fila de Piedra ..... Venezuela opened 1984.	7 58 10.9 N ( 7.9697)	71 15 04.0 W ( 71.2511)	600.0	CAR
FISA	Fila de Sacuragua ..... Venezuela opened 198612.	11 15 53.3 N (11.2648)	69 20 00.0 W ( 69.3333)	600.0	CAR
FITZ	R Fitzroy Crossing ..... Western Australia, Australia	18 06 54.0 S (18.1150)	125 38 21.6 E (125.6393)	...	AUST
FKBC	Forrest Kerr ..... British Columbia, Canada opened 19891010.	56 47 05.0 N (56.7847)	130 37 05.0 W (130.6181)	1175.0	OTTR
FKO	Franklin ..... Oklahoma, U.S.A. opened 1987.	35 15 40.7 N (35.2613)	97 23 10.0 W ( 97.3861)	351.0	TUL
FL2	Flat Top 2 ..... Washington, U.S.A.	46 11 47.0 N (46.1964)	122 21 01.0 W (122.3503)	1378.0	SEA
FLAS	Fullerton Airport ..... Orange County, California, U.S.A. opened 19860912. USC code FLA.	33 52 16.8 N (33.8713)	117 58 31.8 W (117.9755)	-400.0	USC
FLK	R Falkland Islands ..... Falkland Islands	51 50 11.4 S (51.8365)	58 26 47.4 W ( 58.4465)	10.0	BKN
FLKY	Flemingsburg ..... Kentucky, U.S.A. opened 19890215.	38 25 33.6 N (38.4260)	83 45 03.6 W ( 83.7510)	280.0	BHKY
FLOC	Florencia ..... Colombia	1 30 49.5 N ( 1.5138)	75 37 57.2 W ( 75.6326)	364.0	INGM
FLOM	R Florida ..... Guerrero, Mexico	17 13 31.8 N (17.2255)	100 23 19.2 W (100.3887)	840.0	UNM
FLOR	..... Azores, Portugal opened 19910909.	39 26 04.9 N (39.4347)	31 26 31.6 W ( 31.4421)	605.0	PDA
FMKY	Fulgham (Clinton) ..... Kentucky, U.S.A. opened 19861030.	36 39 50.4 N (36.6640)	88 54 32.4 W ( 88.9090)	152.0	BHKY
FNA	Florina ..... Greece opened 198912.	40 47 01.8 N (40.7838)	21 22 34.2 E ( 21.3762)	750.0	THE
FNO	Franklin ..... Oklahoma, U.S.A. opened 19920428.	35 15 25.7 N (35.2571)	97 24 02.1 W ( 97.4006)	357.0	TUL
FOE	R Fourare ..... Morocco	31 59 24.0 N (31.9900)	9 15 18.0 W ( 9.2550)	...	CNRM
FONT	Fontmartina ..... Spain Sent to NEIS by MDD.	41 45 42.0 N (41.7617)	2 26 00.0 E ( 2.4333)	...	
FORC	Fortuna ..... Costa Rica	10 28 18.0 N (10.4717)	84 40 06.0 W ( 84.6683)	400.0	SJR
FORR	C Forrest ..... Western Australia, Australia 1988-19910616.	30 51 .. S (30.8500)	128 06 .. E (128.1000)	...	AUST
FORT	Forrest ..... Western Australia, Australia opened 19920519.	30 46 44.4 S (30.7790)	128 03 32.4 E (128.0590)	165.0	AUST
FOXC	Fox Airport ..... Los Angeles County, California, U.S.A. opened 198103. PAS code FOX.	34 43 58.8 N (34.7330)	118 13 50.4 W (118.2307)	716.0	PAS
FRS	Fauresmith ..... Orange Free State, South Africa opened 1985.	29 45 00.0 S (29.7500)	25 19 18.0 E ( 25.3217)	...	PRE
FSI	Fosdinovo ..... Toscana, Italy	44 07 34.0 N (44.1261)	10 01 31.0 E ( 10.0253)	...	ROM
FSP	C False Pass ..... Alaska Peninsula, Alaska, U.S.A. closed 199007.	54 57 12.0 N (54.9533)	163 27 24.0 W (163.4567)	200.0	PAL
FST	C Fort Simpson ..... Northwest Territories, Canada 19860109-19870331.	61 50 24.0 N (61.8400)	121 16 30.0 W (121.2750)	175.0	OTTR
FST1	C Fort Simpson ..... Northwest Territories, Canada 19851006-19860109. Temporary station, replaced by FST.	61 47 09.0 N (61.7858)	121 15 32.0 W (121.2589)	175.0	OTTR
FUG	Fuego 3 ..... Guatemala opened 198703. GCG code FG3.	14 26 52.2 N (14.4478)	90 50 31.2 W ( 90.8420)	1505.0	GCG
FURI	RD Furi ..... Ethiopia	8 53 48.0 N ( 8.8967)	38 40 42.0 E ( 38.6783)	2560.0	IRIS
FVI	D Forni Avoltri ..... Friuli-Venezia Giulia, Italy	46 35 35.7 N (46.5932)	12 46 51.3 E ( 12.7809)	...	ROM



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FX1	Attu Island--Fox ..... Aleutian Islands, Alaska, U.S.A. opened 199307.	52 52 55.6 N (52.8821)	173 09 51.1 E (173.1642)	250.0	GIA
GACM	Adobe Creek ..... Sonoma County, California, U.S.A. opened 19860515. MNLO code GAC.	38 52 22.2 N (38.8728)	122 51 43.8 W (122.8622)	985.0	MNLO
GALE	Galera ..... Ecuador opened 19911103.	0 49 16.8 N ( 0.8213)	80 00 48.0 W ( 80.0133)	25.0	QUI
GAM	R Garm ..... Tajikistan	...	...	...	
GANF	Ganagobie ..... Provence-Cote d'Azur, France	43 59 51.3 N (43.9976)	5 54 31.2 E ( 5.9087)	650.0	STR
GARI	R Garurganga ..... Uttar Pradesh, India opened 19860726.	30 27 09.0 N (30.4525)	79 26 40.2 E ( 79.4445)	1500.0	WIHG
GARM	Arbuckle ..... Colusa County, California, U.S.A. opened 198103 or 19810520. MNLO code GAR.	38 57 18.6 N (38.9552)	122 15 07.8 W (122.2522)	268.0	MNLO
GAZ	Gaziantep ..... Turkey opened 198907.	37 10 19.7 N (37.1721)	37 12 40.8 E ( 37.2113)	100.0	ISK
GBMM	Baldy Mountain ..... Lake County, California, U.S.A. opened 19810513. MNLO code GBM.	39 08 30.6 N (39.1418)	122 29 38.4 W (122.4940)	975.0	MNLO
GBZT	Gebze ..... Turkey	40 47 20.0 N (40.7889)	29 26 42.0 E ( 29.4450)	184.0	GBZT
GCAZ	Grand Canyon ..... Arizona, U.S.A. opened 1987.	36 02 38.4 N (36.0440)	112 07 40.8 W (112.1280)	...	FLAG
GCD	Castle Douglas ..... Scotland, United Kingdom opened 1989.	54 51 49.7 N (54.8638)	3 56 30.1 W ( 3.9417)	189.0	BGS
GCL	Cushendall ..... Northern Ireland, United Kingdom opened 1989.	55 04 33.6 N (55.0760)	6 07 48.0 W ( 6.1300)	275.0	BGS
GCSM	U Cold Spring Mountain ..... Mendocino County, California, U.S.A. 19820419-19890711. MNLO code GCS.	39 01 22.2 N (39.0228)	123 31 16.2 W (123.5212)	695.0	MNLO
GDL2	Guadalupe Mountain ..... New Mexico, U.S.A.	32 12 01.2 N (32.2003)	104 21 48.6 W (104.3635)	1213.0	SNM
GEA0	R GERESS Array Site A0 ..... Bayern, Germany	48 50 12.5 N (48.8368)	13 42 06.8 E ( 13.7019)	1027.6	BUG
GEA1	R GERESS Array Site A1 ..... Bayern, Germany	48 50 10.6 N (48.8363)	13 42 14.1 E ( 13.7039)	1009.3	BUG
GEA2	R GERESS Array Site A2 ..... Bayern, Germany	48 50 19.0 N (48.8386)	13 42 06.5 E ( 13.7018)	1059.0	BUG
GEA3	R GERESS Array Site A3 ..... Bayern, Germany	48 50 06.0 N (48.8350)	13 42 00.1 E ( 13.7000)	1017.0	BUG
GEB1	R GERESS Array Site B1 ..... Bayern, Germany	48 50 20.0 N (48.8389)	13 42 27.1 E ( 13.7075)	1015.0	BUG
GEB2	R GERESS Array Site B2 ..... Bayern, Germany	48 50 22.3 N (48.8395)	13 41 55.0 E ( 13.6986)	1092.9	BUG
GEB3	R GERESS Array Site B3 ..... Bayern, Germany	48 50 13.0 N (48.8370)	13 41 45.5 E ( 13.6960)	1058.8	BUG
GEB4	R GERESS Array Site B4 ..... Bayern, Germany	48 49 57.8 N (48.8327)	13 41 55.9 E ( 13.6989)	1006.0	BUG
GEB5	R GERESS Array Site B5 ..... Bayern, Germany	48 50 04.4 N (48.8346)	13 42 21.4 E ( 13.7059)	976.9	BUG
GEC1	R GERESS Array Site C1 ..... Bayern, Germany	48 50 28.4 N (48.8412)	13 42 35.7 E ( 13.7099)	1027.7	BUG
GEC2	GERESS Array Site C2 ..... Bayern, Germany	48 50 42.4 N (48.8451)	13 42 05.6 E ( 13.7016)	1137.1	BUG
GEC3	R GERESS Array Site C3 ..... Bayern, Germany	48 50 32.5 N (48.8424)	13 41 30.1 E ( 13.6917)	1075.7	BUG
GEC4	R GERESS Array Site C4 ..... Bayern, Germany	48 50 06.7 N (48.8352)	13 41 15.0 E ( 13.6875)	1103.3	BUG
GEC5	R GERESS Array Site C5 ..... Bayern, Germany	48 49 46.6 N (48.8296)	13 41 44.5 E ( 13.6957)	1009.4	BUG
GEC6	R GERESS Array Site C6 ..... Bayern, Germany	48 49 36.4 N (48.8268)	13 42 32.6 E ( 13.7090)	942.2	BUG
GEC7	R GERESS Array Site C7 ..... Bayern, Germany	48 50 07.6 N (48.8354)	13 42 52.1 E ( 13.7145)	986.0	BUG
GECU	Ecuador Network ..... Ecuador	0 19 01.8 S ( 0.3172)	78 11 22.8 W ( 78.1897)	4350.0	QUI
GED1	R GERESS Array Site D1 ..... Bayern, Germany	48 51 06.5 N (48.8518)	13 42 53.2 E ( 13.7148)	1060.9	BUG
GED2	R GERESS Array Site D2 ..... Bayern, Germany	48 51 11.6 N (48.8532)	13 41 47.2 E ( 13.6964)	999.3	BUG
GED3	R GERESS Array Site D3 ..... Berlin, Germany	48 50 47.4 N (48.8465)	13 40 54.5 E ( 13.6818)	949.9	BUG
GED4	R GERESS Array Site D4 ..... Bayern, Germany	48 50 18.9 N (48.8386)	13 40 46.7 E ( 13.6796)	1039.8	BUG
GED5	R GERESS Array Site D5 ..... Bayern, Germany	48 49 28.6 N (48.8246)	13 40 50.5 E ( 13.6807)	1085.6	BUG
GED6	R GERESS Array Site D6 ..... Bayern, Germany	48 49 09.9 N (48.8194)	13 41 47.9 E ( 13.6966)	1083.5	BUG
GED7	R GERESS Array Site D7 ..... Bayern, Germany	48 49 15.3 N (48.8209)	13 42 57.3 E ( 13.7159)	959.6	BUG



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GED8	R GERESS Array Site D8 ..... Bayern, Germany	48 49 59.4 N (48.8332)	13 43 33.9 E ( 13.7261)	938.2	BUG
GED9	GERESS Array Site D9 ..... Bayern, Germany	48 50 36.3 N (48.8434)	13 43 25.6 E ( 13.7238)	987.0	BUG
GELF	Grande-Etoile ..... Provence-Cote d'Azur, France	43 23 00.9 N (43.3836)	5 25 39.0 E ( 5.4275)	550.0	STR
GFA	D Gafsa ..... Tunisia	31 20 24.0 N (31.3400)	9 43 48.0 E ( 9.7300)	...	SBS MEDN
GFP	Griffith Park ..... Los Angeles County, California, U.S.A. opened 197504. MNLO code GFPS.	34 07 45.6 N (34.1293)	118 18 35.4 W (118.3098)	...	USC
GFW	Glenfield ..... South Island, New Zealand	41 27 24.0 S (41.4567)	173 49 51.0 E (173.8308)	230.0	WELW
GGP	Guagua Pichincha ..... Ecuador opened 198809. QUI code REFU.	0 10 28.2 S ( 0.1745)	78 35 45.6 W ( 78.5960)	4600.0	QUI
GGUM	Gualala ..... Mendocino County, California, U.S.A. opened 19820419. MNLO code GGU.	38 51 23.4 N (38.8565)	123 29 52.2 W (123.4978)	661.0	MNLO
GHAT	Ghardimaou ..... Tunisia	36 29 45.0 N (36.4958)	8 18 17.4 E ( 8.3048)	400.0	SBS
GHOM	Hamilton Opening ..... Mendocino County, California, U.S.A. opened 19890712. MNLO code GHO.	39 02 40.0 N (39.0444)	123 32 24.6 W (123.5402)	687.0	MNLO
GHVM	High Valley ..... Lake County, California, U.S.A. opened 19810513. MNLO code GHV.	39 05 06.0 N (39.0850)	122 44 03.6 W (122.7343)	1036.0	MNLO
GHZJ	Ghuzeima ..... Jordan opened 19900112.	30 31 48.0 N (30.5300)	36 19 30.0 E ( 36.3250)	1048.0	JSO
GIBL	Gibalbin ..... Spain	36 49 35.4 N (36.8265)	5 57 10.2 W ( 5.9528)	412.0	SFS
GIM	North Isle of Man ..... Isle of Man, United Kingdom opened 1989.	54 17 32.3 N (54.2923)	4 28 01.2 W ( 4.4670)	366.0	BGS
GIO	Monte San Gregorio ..... Sicilia, Italy opened 198902.	37 34 00.0 N (37.5667)	15 06 30.0 E ( 15.1083)	330.0	ERC
GKN	Gorkha ..... Nepal opened 198307.	28 00 10.8 N (28.0030)	84 38 13.2 E ( 84.6370)	1478.0	DMN
GL2	New Goldendale ..... Washington, U.S.A.	45 57 35.0 N (45.9597)	120 49 22.5 W (120.8229)	1000.0	SEA
GLH	Golan--Tel Qazir ..... Israel opened 19860626.	32 42 36.0 N (32.7100)	35 39 36.0 E ( 35.6600)	330.0	JER
GLK	Glacier Lake ..... Washington, U.S.A.	46 33 50.2 N (46.5639)	121 36 30.7 W (121.6085)	1320.0	SEA
GMB	Gambarie d'Aspromonte ..... Calabria, Italy	38 10 03.0 N (38.1675)	15 51 48.0 E ( 15.8633)	1350.0	ERC
GMG	Grassy Mountain ..... Georgia, U.S.A. opened 198511.	34 51 45.6 N (34.8627)	84 40 13.2 W ( 84.6703)	1097.0	TEIC
GMK	Mull of Kintyre ..... Scotland, United Kingdom opened 1989.	55 20 45.2 N (55.3459)	5 35 37.0 W ( 5.5936)	160.0	BGS
GMM	R Mourne Mountains ..... Northern Ireland, United Kingdom opened 1989.	54 14 20.4 N (54.2390)	5 57 03.6 W ( 5.9510)	140.0	BGS
GMMM	U Mayacamas Mountains ..... Sonoma County, California, U.S.A. 19780421-19860226. MNLO code GMM.	38 50 17.4 N (38.8382)	122 47 55.8 W (122.7988)	963.0	MNLO
GMO	Grizzly Mountain ..... Oregon, U.S.A. opened 19870827.	44 26 20.8 N (44.4391)	120 57 22.3 W (120.9562)	1689.0	SEA
GNAM	Navarro Ridge ..... Mendocino County, California, U.S.A. opened 19810419. MNLO code GNA.	39 11 51.0 N (39.1975)	123 37 51.0 W (123.6308)	344.0	MNLO
GNI	Garni ..... Armenia	40 03 10.8 N (40.0530)	44 43 26.4 E ( 44.7240)	1460.0	MOSR
GOGA	D Godfrey ..... Georgia, U.S.A. opened 19930309.	33 24 40.3 N (33.4112)	83 27 59.8 W ( 83.4666)	150.0	NEIS USNN
GOGC	R Isla Gorgona ..... Colombia	...	...	...	UVC
GOLF	R Campo de Golfe ..... Azores, Portugal	...	...	...	PDA
GQP	..... Philippines	13 54 18.0 N (13.9050)	122 26 45.6 E (122.4460)	50.0	MAN
GRAI	Grandview Point ..... Idaho, U.S.A.	43 48 33.5 N (43.8093)	111 20 08.6 W (111.3357)	2231.0	USBR
GRBF	Gourbit ..... Midi-Pyrenees, France opened 198901.	42 50 29.0 N (42.8414)	1 32 12.0 E ( 1.5367)	875.0	STR
GRDS	Las Granadillas ..... El Salvador opened 199112.	13 45 30.0 N (13.7583)	89 17 30.0 W ( 89.2917)	1500.0	SSS
GRI	D Girifalco ..... Calabria, Italy	38 49 01.7 N (38.8171)	16 25 12.5 E ( 16.4201)	480.0	ROM
GRI*	(Alternate Abbreviation for GR1TX)				



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GROM		Round Mountain ..... Tehama County, California, U.S.A. opened 19901213. MNLO code GRO.	39 55 02.4 N (39.9173)	122 40 13.8 W (122.6705)	1274.0	MNLO
GROR		Grindstone Mountain ..... Oregon, U.S.A. opened 198605. SEA code GRO.	45 21 04.5 N (45.3512)	123 39 43.0 W (123.6619)	945.0	SEA
GT2		Goat Mountain ..... Oregon, U.S.A. opened 198509. SEA code VG2.	45 09 20.0 N (45.1556)	122 16 15.0 W (122.2708)	823.0	SEA
GTRI		Great Rift ..... Idaho, U.S.A. opened 1992.	43 14 38.4 N (43.2440)	113 14 27.6 W (113.2410)	1547.0	USGS
GTSM		Trough Springs ..... Colusa County, California, U.S.A. opened 19810514. MNLO code GTS.	39 18 42.0 N (39.3117)	122 36 09.0 W (122.6025)	1103.0	MNLO
GUAC		Guacamaya ..... Venezuela opened 198706.	10 11 31.2 N (10.1920)	67 16 16.0 W ( 67.2711)	1330.0	CAR
GUAN		Valle Guanape ..... Venezuela opened 1984.	9 57 27.0 N ( 9.9575)	65 38 52.1 W ( 65.6478)	1107.0	CAR
GUAY	R	Guayacanes ..... Dominican Republic opened 19860710.	18 26 24.0 N (18.4400)	69 26 00.0 W ( 69.4333)	...	SDD
GUB	R	Guba ..... (10.6667)	10 40 .. S ( 26.4333)	26 26 .. E ( 16.4405)	...	
GUI	R	Guimar ..... Canary Islands, Spain opened 19930615.	28 19 15.0 N (28.3208)	16 26 25.8 W ( 16.4405)	868.0	MDD
GULW		Guler Mountain ..... Washington, U.S.A. opened 19860731. SEA code GUL.	45 55 27.0 N (45.9242)	121 35 44.0 W (121.5956)	1189.0	SEA
GUM2		Guadalajara 2 ..... Jalisco, Mexico	20 40 .. N (20.6667)	103 18 .. W (103.3000)	1543.0	UNM
GUN		Gumba ..... Nepal opened 198503.	27 54 38.2 N (27.9106)	85 52 45.8 E ( 85.8794)	2900.0	DMN
GUO	R	..... Oaxaca, Mexico	16 05 55.2 N (16.0987)	97 03 39.6 W ( 97.0610)	244.0	UNM
GUSM	R	Guaymas ..... Sonora, Mexico	.....	.....	...	UNM
GVA	D	Apache Junction ..... Arizona, U.S.A. opened 19940105.	33 25 17.0 N (33.4214)	111 34 27.8 W (111.5744)	507.5	
GVMR		Giv'at Hamore ..... Israel opened 199112.	32 37 12.0 N (32.6200)	35 22 12.0 E ( 35.3700)	90.0	JER
GVRG		Garvey Reservoir ..... Los Angeles County, California, U.S.A. opened 19871008. PAS code GVR.	34 03 00.0 N (34.0500)	118 07 08.0 W (118.1189)	177.0	PAS
GWY		Greenwater Valley ..... Inyo County, California, U.S.A. opened 19880401.	36 11 06.6 N (36.1852)	116 40 10.8 W (116.6697)	1540.0	USGS
GYN		Goynuk ..... Turkey opened 1991.	40 21 01.0 N (40.3503)	30 43 36.0 E ( 30.7267)	1260.0	DDA
GZTT		..... Turkey opened 1992.	37 02 10.0 N (37.0361)	37 18 45.0 E ( 37.3125)	850.0	GBZT
HACJ	R	Hachinohe 2 ..... Aomori, Honshu, Japan opened 19910308.	40 23 49.8 N (40.3972)	141 32 45.0 E (141.5458)	230.0	JMA
HAE		Alders End ..... England, United Kingdom opened 1982.	52 02 15.4 N (52.0376)	2 32 51.0 W ( 2.5475)	224.0	BGS
HAH		Hahryggur ..... Iceland	64 07 06.6 N (64.1185)	21 16 58.1 W ( 21.2828)	...	
HAJJ	R	Hajjah ..... Yemen	15 42 27.0 N (15.7075)	43 37 00.0 E ( 43.6167)	...	
HAKY		Hadley Quad ..... Kentucky, U.S.A. opened 19870626.	37 06 20.5 N (37.1057)	86 35 05.8 W ( 86.5849)	169.0	TVA
HALM	R	Halim ..... Morocco	31 46 04.8 N (31.7680)	9 28 12.0 W ( 9.4700)	...	CNRM
HAMO		Hamaker Mountain ..... Oregon, U.S.A. opened 19931006. SEA code HAM.	42 04 08.3 N (42.0690)	121 58 16.0 W (121.9711)	1999.0	SEA
HARZ	RD	Haroharo ..... North Island, New Zealand opened 19920615.	38 05 28.0 S (38.0911)	176 30 07.0 E (176.5019)	740.0	WEL
HAT		Hattorf ..... Hessen, Germany opened before 1981.	50 49 46.9 N (50.8297)	9 56 39.1 E ( 9.9442)	-592.0	
HATI		Hayti ..... Missouri, U.S.A.	36 10 37.2 N (36.1770)	89 40 33.6 W ( 89.6760)	83.0	SLM
HAVC	R	Havirov ..... Czech Republic	49 45 46.8 N (49.7630)	18 28 37.2 E ( 18.4770)	...	PRU
HAYW		Haystack Fork ..... Wyoming, U.S.A. opened 199009.	43 38 22.5 N (43.6396)	110 19 57.0 W (110.3325)	2835.0	USBR

CODES



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HBL2	Bonnylands ..... England, United Kingdom opened 1991.	52 03 02.9 N (52.0508)	3 02 18.2 W ( 3.0384)	400.0	BGS
HBMT	Mount Humbug ..... Montana, U.S.A. opened 19900808.	45 47 34.8 N (45.7930)	112 36 28.2 W (112.6078)	2481.0	BUT
HBO	Huckleberry Mountain ..... Oregon, U.S.A. opened 19900919.	43 50 39.6 N (43.8443)	122 19 11.9 W (122.3200)	1615.0	SEA
HDW	Hoodsport ..... Washington, U.S.A.	47 38 54.6 N (47.6485)	123 03 15.2 W (123.0542)	1006.0	SEA
HEA	D Headley ..... England, United Kingdom	51 21 30.0 N (51.3583)	1 15 50.0 W ( 1.2639)	114.0	BKN
HELC	R Santa Elena ..... Colombia	6 14 02.6 N ( 6.2341)	75 32 51.7 W ( 75.5477)	2788.0	INGM
HERM	Elkhorn Road ..... Monterey County, California, U.S.A. opened 19891103. MNLO code HER.	36 47 54.0 N (36.7983)	121 42 38.4 W (121.7107)	69.0	MNLO
HEX	Exmoor ..... England, United Kingdom opened 1991.	51 04 00.5 N (51.0668)	3 48 09.0 W ( 3.8025)	278.0	BGS
HGH	Gray Hill ..... Wales, United Kingdom opened 1980.	51 38 16.8 N (51.6380)	2 48 23.0 W ( 2.8064)	210.0	BGS
HGN	Heimansgroeve ..... The Netherlands opened 19930301.	50 45 50.4 N (50.7640)	5 55 54.1 E ( 5.9317)	135.0	DBN
HHAI	D Hells Half Acre ..... Idaho, U.S.A. USTN opened 19920721.	43 17 42.0 N (43.2950)	112 22 46.2 W (112.3795)	1391.0	USGS USTN
HHH	Horse Heaven Hills ..... Washington, U.S.A. opened 198703. SEA code HH2.	46 10 18.0 N (46.1717)	119 23 01.0 W (119.3836)	490.0	SEA
HHO	R Hochatown State Park ..... Oklahoma, U.S.A.	...	...	...	TUL
HHWY	R High Hoyland ..... England, United Kingdom	53 35 12.1 N (53.5867)	1 35 50.6 W ( 1.5974)	205.0	QMB
HIA	D Hailar ..... Inner Mongolia, China (Mainland) opened 198703.	49 16 00.0 N (49.2667)	119 44 30.0 E (119.7417)	610.0	BJI
HIRJ	R Hiroshima 2 ..... Hiroshima, Honshu, Japan	34 25 42.0 N (34.4283)	132 33 54.0 E (132.5650)	412.0	JMA
HITJ	Hittiya ..... Jordan opened 19891029.	29 44 34.8 N (29.7430)	35 50 27.6 E ( 35.8410)	1235.0	JSO
HLBJ	Hallabat ..... Jordan 1987-19871024; reopened 1989.	32 04 39.0 N (32.0775)	36 18 09.0 E ( 36.3025)	827.0	JSO
HLGA	R Haflong ..... Assam, India opened 198408.	25 09 36.0 N (25.1600)	93 01 00.0 E ( 93.0167)	662.0	JHI
HLH	Cerro de Hule ..... Honduras opened 1990?	13 50 15.0 N (13.8375)	87 15 30.0 W ( 87.2583)	...	...
HLJ	Hailstone ..... Wasatch County, Utah, U.S.A. opened 19921022.	40 36 37.2 N (40.6103)	111 23 58.2 W (111.3995)	1926.0	SLC
HLZ	R Helez ..... Israel	31 36 00.0 N (31.6000)	34 38 24.0 E ( 34.6400)	100.0	JER
HMCY	Holy Mount Cemetery ..... New York, U.S.A. opened 198512. PAL code HMC.	40 57 53.4 N (40.9648)	73 48 11.4 W ( 73.8032)	245.0	PAL
HMDT	Nahal Hemdat ..... Israel opened 199105.	32 15 36.0 N (32.2600)	35 31 12.0 E ( 35.5200)	125.0	JER
HMNA	R Hamren ..... Assam, India opened 198501.	25 55 24.0 N (25.9233)	92 36 30.0 E ( 92.6083)	...	JHI
HNV	R Hanoi ..... Vietnam	21 02 53.0 N (21.0481)	105 47 50.0 E (105.7972)	6.0	PLV
HOBC	El Hobo ..... Colombia opened 1987.	4 21 17.4 N ( 4.3548)	76 08 07.8 W ( 76.1355)	1180.0	UVC
HOFF	Hoffen ..... Alsace, France	48 56 30.0 N (48.9417)	7 57 50.0 E ( 7.9639)	150.0	STR
HOGH	Ho ..... Ghana opened 1987.	6 36 33.0 N ( 6.6092)	0 26 42.0 E ( 0.4450)	372.0	KUK
HOI	Hoima ..... Uganda opened 199107.	1 25 04.8 N ( 1.4180)	31 20 31.2 E ( 31.3420)	1094.0	...
HOLB	Holberg ..... British Columbia, Canada opened 199108.	50 38 25.8 N (50.6405)	128 07 54.5 W (128.1318)	564.0	WCTN
HONU	Honeyville ..... Cache County, Utah, U.S.A. opened 19890613.	41 36 36.0 N (41.6100)	111 55 01.2 W (111.9170)	1515.0	SLC
HOQC	La Horqueta ..... Colombia opened 1987.	3 28 04.8 N ( 3.4680)	76 38 01.2 W ( 76.6337)	2220.0	UVC



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HOV	R	Hovd ..... Mongolia	48 00 36.0 N (48.0100)	91 39 00.0 E ( 91.6500)	...	
HPE		Pembroke ..... Wales, United Kingdom opened 1990.	51 56 13.6 N (51.9371)	4 46 28.2 W ( 4.7745)	355.0	BGS
HQL		Haql ..... Saudi Arabia opened 1986.	29 16 12.0 N (29.2700)	35 03 00.0 E ( 35.0500)	75.0	RYD
HRAD	R	Harad ..... Yemen	16 25 .. N (16.4167)	43 03 .. E ( 43.0500)	...	
HRSH		Kfar Ka'horesh ..... Israel	32 42 00.0 N (32.7000)	35 16 48.0 E ( 35.2800)	416.0	JER
HURU	R	..... .....	..... .....	..... .....	..... .....	
HSA		Swansea ..... Wales, United Kingdom opened 1987.	51 44 52.1 N (51.7478)	4 09 15.5 W ( 4.1543)	274.0	BGS
HSJH		Hashim ..... Jordan opened 19890904.	29 25 15.6 N (29.4210)	35 24 00.0 E ( 35.4000)	1100.0	JSO
HSO		Harness Mountain ..... Oregon, U.S.A. opened 19900920.	43 31 33.0 N (43.5258)	123 05 24.0 W (123.0900)	1020.0	SEA
HSR		South Ridge ..... Washington, U.S.A. opened 198508.	46 10 22.2 N (46.1728)	122 10 58.2 W (122.1828)	1774.0	SEA
HTCR		Hilton Creek ..... Mono County, California, U.S.A. opened 19840719.	37 31 47.4 N (37.5298)	118 46 15.6 W (118.7710)	3012.0	REN
HTG	R	Hatgal ..... Mongolia	50 29 24.0 N (50.4900)	100 09 00.0 E (100.1500)	...	
HTMS		Hat Mesa ..... New Mexico, U.S.A. opened 1991.	32 28 21.0 N (32.4725)	103 38 03.0 W (103.6342)	1192.0	SNM
HTR		Trewern Hill ..... Wales, United Kingdom opened 1982.	52 04 44.4 N (52.0790)	3 16 10.9 W ( 3.2697)	329.0	BGS
HUES		Huehuecho ..... El Salvador opened 199112.	13 46 42.0 N (13.7783)	89 00 00.0 W ( 89.0000)	910.0	SSS
HUG		Huitzitzil ..... Guatemala opened 198710.	14 01 14.9 N (14.0208)	91 19 24.6 W ( 91.3235)	...	GCG
HUO	R	Hudson ..... Ontario, Canada opened 19861002.	50 04 50.0 N (50.0806)	92 05 53.0 W ( 92.0981)	367.0	OTTR
HURP	R	Huarmaca ..... Peru	5 34 58.8 S ( 5.5830)	78 25 58.8 W ( 78.4330)	2000.0	LIM
HUTI		Huta Ginjang ..... Sumatera, Indonesia	2 18 55.0 N ( 2.3153)	98 58 16.0 E ( 98.9711)	1600.0	DJA
HVAR		Hvar ..... Croatia opened 19861001.	43 10 40.8 N (43.1780)	16 26 52.8 E ( 16.4480)	250.0	ZAG
HWSI		Howe Scarp ..... Idaho, U.S.A. opened 1992.	43 55 19.8 N (43.9222)	113 06 22.2 W (113.1062)	1740.0	USGS
IAP	F	(phase code designation)				
IAPC	F	(phase code designation)				
IAPD	F	(phase code designation)				
ICI		Italian Canyon ..... Idaho, U.S.A. opened 1992.	44 19 45.6 N (44.3293)	112 56 28.2 W (112.9412)	2463.0	USGS
ICQ		Pointe-aux-Anglais ..... Quebec, Canada opened 19910108.	49 31 18.0 N (49.5217)	67 16 19.0 W ( 67.2719)	58.0	ECTN
IDI	RD	Anoyia ..... Crete, Greece	35 17 24.0 N (35.2900)	24 53 28.0 E ( 24.8911)	860.0	ROM MEDN
IECU	C	Ecuador Network ..... Ecuador	0 28 30.0 S ( 0.4750)	78 18 24.0 W ( 78.3067)	3720.0	QUI
IGT		Igoumenitsa ..... Greece opened 198906.	39 31 57.0 N (39.5325)	20 19 57.0 E ( 20.3325)	320.0	THE
IHA		Instituto Hidrografico de la Armada ..... Valparaiso, Chile opened 198801.	33 01 32.7 S (33.0257)	71 38 27.9 W ( 71.6411)	88.5	
IHC	R	Ixhuatan ..... Mexico	17 17 26.0 N (17.2906)	93 00 30.0 W ( 93.0083)	...	IIM
IIA		Altzomoni ..... Mexico, Mexico Sent to NEIS by UNM.	19 08 58.2 N (19.1495)	98 39 30.0 W ( 98.6583)	...	IIM
IIJ		Jocotitlan ..... Mexico, Mexico Also sent to NEIS by UNM.	19 44 02.4 N (19.7340)	99 44 02.4 W ( 99.7340)	3900.0	IIM
IIO	R	..... Tlaxcala, Mexico	19 35 31.2 N (19.5920)	98 43 26.4 W ( 98.7240)	...	IIM
IISM		Ciudad Serdan ..... Puebla, Mexico Also sent to NEIS by UNM. IIM and UNM code IIS.	18 59 16.8 N (18.9880)	97 22 36.6 W ( 97.3768)	...	IIM



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IKL	Isikli ..... Turkey opened 198801.	36 14 19.0 N (36.2386)	33 41 07.0 E ( 33.6853)	120.0	ISK
IL1	Eielson Array Site 1 ..... Central Alaska, Alaska, U.S.A. opened 199307.	64 46 17.8 N (64.7716)	146 53 10.0 W (146.8861)	418.0	GIA
ILB	Eielson Array Broadband ..... Central Alaska, Alaska, U.S.A. opened 199307.	64 46 17.0 N (64.7714)	146 53 11.8 W (146.8866)	419.0	GIA
ILIM	Iliamna ..... Western Alaska, Alaska, U.S.A. AGS code ILI.	60 04 48.6 N (60.0802)	152 57 34.2 W (152.9595)	823.0	AGS
IM3	Indian Mountain Array Site 3 ..... Western Alaska, Alaska, U.S.A. opened 199307.	65 59 00.6 N (65.9835)	153 44 56.8 W (153.7491)	372.0	GIA
IMI	Imperia ..... Liguria, Italy	43 54 36.6 N (43.9102)	7 53 21.6 E ( 7.8893)	860.0	GEN
IMK	Imi Mikki ..... Morocco opened 19911217.	30 31 26.0 N (30.5239)	9 39 06.0 W ( 9.6517)	60.0	SPGM
IMM	R Islas Marias ..... Nayarit, Mexico	21 37 12.0 N (21.6200)	106 34 48.0 W (106.5800)	...	UNM
IMU	Iron Mountain ..... Millard County, Utah, U.S.A. opened 19880929.	38 37 59.2 N (38.6331)	113 09 30.2 W (113.1584)	1832.0	SLC
INE	Iliamna North East ..... Western Alaska, Alaska, U.S.A. opened 19900829.	60 03 39.0 N (60.0608)	153 03 45.0 W (153.0625)	1585.0	GIA
INGI	Ingas ..... Bali, Nusa Tenggara, Indonesia	8 49 06.0 S ( 8.8183)	115 08 41.0 E (115.1447)	202.0	DJA
INGM	F INGEOMINAS, Bogota				
INTV	F INTEVEP, Caracas, Venezuela				
INW	Iliamna North West ..... Western Alaska, Alaska, U.S.A. opened 19900829.	60 04 03.6 N (60.0677)	153 07 57.0 W (153.1325)	1219.0	GIA
IPA	Ipanguacu ..... Rio Grande do Norte, Brazil opened 198708.	5 41 45.0 S ( 5.6958)	36 51 22.0 W ( 36.8561)	65.0	
IPBC	F (phase code designation)				
IPBD	F (phase code designation)				
IPCP	F (phase code designation)				
IPCR	F (phase code designation)				
IPCS	F (phase code designation)				
IPCU	F (phase code designation)				
IPDR	F (phase code designation)				
IPDU	F (phase code designation)				
IPGC	F (phase code designation)				
IPGD	F (phase code designation)				
IPKP	F (phase code designation)				
IPKS	F (phase code designation)				
IPNC	F (phase code designation)				
IPND	F (phase code designation)				
IPP	F (phase code designation)				
IPPP	F (phase code designation)				
IPPS	F (phase code designation)				
IPS	F (phase code designation)				
IPSS	F (phase code designation)				
IRCI	Inel Research Center ..... Idaho, U.S.A. opened 19900315.	43 30 55.2 N (43.5153)	112 02 00.0 W (112.0333)	1442.0	USGS
IRI	R Iriomote-jima ..... Ryukyu Islands, Japan opened 19910301.	24 23 06.0 N (24.3850)	123 45 00.0 E (123.7500)	9.0	JMA
ISCP	F (phase code designation)				
ISCS	F (phase code designation)				
ISKP	F (phase code designation)				
ISKS	F (phase code designation)				
ISPP	F (phase code designation)				
ISSP	F (phase code designation)				
ISSS	F (phase code designation)				
ITBT	R Itumba ..... Tanzania opened 199206.	9 25 43.2 S ( 9.4287)	33 11 09.0 E ( 33.1858)	1270.0	
ITKT	R Itaka ..... Tanzania opened 199206.	8 52 22.2 S ( 8.8728)	32 46 58.8 E ( 32.7830)	1590.0	
ITU	Istanbul ..... Turkey opened 19890102.	41 06 22.2 N (41.1062)	29 00 53.4 E ( 29.0148)	98.0	IST WWSS
IVAG	C Clark Hill Reservoir ..... Georgia, U.S.A. closed 1986.	34 16 19.6 N (34.2721)	82 44 45.6 W ( 82.7460)	168.0	ATL
IVF	C Ivanof Bay ..... Alaska Peninsula, Alaska, U.S.A. closed 199007.	55 53 45.0 N (55.8958)	159 31 48.0 W (159.5300)	275.0	PAL
IVS	Iliamna South ..... Western Alaska, Alaska, U.S.A. opened 19900829.	60 00 33.0 N (60.0092)	153 04 51.0 W (153.0808)	2332.0	GIA
IXC	R Ixtacomitan ..... Chiapas, Mexico	17 25 38.0 N (17.4272)	93 06 03.0 W ( 93.1008)	...	UNM



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IXP	F (phase code designation)				
IXPC	F (phase code designation)				
IXPD	F (phase code designation)				
IXS	F (phase code designation)				
IZI	Iznik ..... Turkey opened 199001.	40 20 12.6 N (40.3368)	29 28 22.2 E ( 29.4728)	910.0	ISK
IZUJ	R Izuhara ..... Nagasaki, Kyushu, Japan opened 19910901.	34 11 42.0 N (34.1950)	129 17 36.0 E (129.2933)	3.0	JMA
JAMA	..... Ecuador opened 1992.	0 15 40.2 N ( 0.2612)	80 12 21.0 W ( 80.2058)	637.0	QUI
JARJ	Jarash ..... Jordan opened 19841001.	32 14 15.0 N (32.2375)	35 56 46.8 E ( 35.9463)	840.0	JSO
JBO	Jordan Butte ..... Oregon, U.S.A. opened 198209.	45 27 41.7 N (45.4616)	119 50 13.2 W (119.8370)	645.0	SEA
JCHM	Cahill Ridge ..... San Mateo County, California, U.S.A. opened 19910816. MNLO code JCH.	37 31 01.2 N (37.5170)	122 22 33.6 W (122.3760)	323.0	MNLO
JCM	Jocotitlan ..... Mexico, Mexico opened 1988.	19 44 03.0 N (19.7342)	99 45 40.0 W ( 99.7611)	...	UNM
JCPM	Coyote Point ..... San Mateo County, California, U.S.A. opened 19911031. MNLO code JCPM.	37 35 17.4 N (37.5882)	122 19 20.0 W (122.3222)	14.0	MNLO
JDN	R Jardin ..... Chiapas, Mexico (Alternate Abbreviation for JRDJ)	17 09 54.0 N (17.1650)	92 30 00.0 W ( 92.5000)	920.0	IIM
JDRJ	Jehsanih ..... Bali, Nusa Tenggara, Indonesia ( 8.0833)	8 05 00.0 S ( 8.0833)	115 12 45.0 E (115.2125)	60.0	DJA
JELM	Ellicott ..... Santa Cruz County, California, U.S.A. opened 19891102. MNLO code JEL.	36 55 38.4 N (36.9273)	121 49 36.6 W (121.8268)	85.0	MNLO
JEZ	R Jbel Ezeft ..... Morocco	...	...	...	CNRM
JFO	Juiz de Fora ..... Minas Gerais, Brazil opened 199008?	21 43 37.6 S (21.7271)	43 19 30.0 W ( 43.3250)	750.0	VAO
JFWS	D Jewell Farm ..... Wisconsin, U.S.A. 19920729-1993; reopened 19940609.	42 54 51.3 N (42.9143)	90 14 53.1 W ( 90.2481)	335.0	SLM USNN
JHA	Jbel Lahdid ..... Morocco	31 44 02.4 N (31.7340)	9 26 24.0 W ( 9.4400)	...	CNRM
JHNI	R Jhansi ..... Uttar Pradesh, India (25.4500)	25 27 .. N (25.4500)	78 37 .. E ( 78.6167)	250.0	NDI
JIL	R Jilotepec ..... Veracruz, Mexico (19.6307)	19 37 50.4 N (19.6307)	96 56 00.0 W ( 96.9333)	1330.0	IIM
JIZN	Jizan ..... Saudi Arabia opened 198902.	16 57 32.4 N (16.9590)	42 49 30.0 E ( 42.8250)	100.0	RYD
JJRM	Joaquin Road ..... San Mateo County, California, U.S.A. opened 19901011. MNLO code JJR.	37 20 40.8 N (37.3447)	122 12 05.4 W (122.2015)	430.0	MNLO
JLK	June Lake ..... Washington, U.S.A. opened 198003. SEA code JUN.	46 08 48.0 N (46.1467)	122 09 10.8 W (122.1530)	1049.0	SEA
JLP	Les Platons ..... Channel Islands, United Kingdom opened 1981.	49 14 34.1 N (49.2428)	2 06 14.0 W ( 2.1039)	131.0	BGS
JLPM	Loma Prieta ..... Santa Clara County, California, U.S.A. opened 19891025. MNLO code JLP.	37 06 39.6 N (37.1110)	121 50 34.8 W (121.8430)	1152.0	MNLO
JMPM	Menlo Park ..... San Mateo County, California, U.S.A. opened 19890130. MNLO code JMP.	37 27 20.0 N (37.4556)	122 09 56.0 W (122.1656)	17.0	MNLO
JMU	Jammu ..... Jammu and Kashmir, India (32.7167)	32 43 .. N (32.7167)	74 54 .. E ( 74.9000)	...	NDI
JNAM	New Almaden Mine ..... Santa Clara County, California, U.S.A. opened 19891026. MNLO code JNA.	37 10 37.2 N (37.1770)	121 50 40.8 W (121.8447)	512.0	MNLO
JOK	R Jbel Ouklim ..... Morocco (31.4070)	31 24 25.2 N (31.4070)	5 33 28.8 W ( 5.5580)	...	CNRM
JRDJ	Daraweish ..... Jordan opened 19900426.	30 43 40.8 N (30.7280)	35 39 57.6 E ( 35.6660)	1365.0	JSO
JRSC	Jasper Ridge ..... Santa Clara County, California, U.S.A. opened 19940630.	37 24 13.7 N (37.4038)	122 14 15.4 W (122.2376)	103.0	
JRSJ	Jabal ar Rishah ..... Jordan opened 19891215.	30 15 39.6 N (30.2610)	35 13 58.8 E ( 35.2330)	357.0	JSO
JSA	Saint Aubin ..... Channel Islands, United Kingdom opened 1981.	49 11 16.4 N (49.1879)	2 10 15.2 W ( 2.1709)	21.0	BGS
JSBM	San Bruno Mountain ..... San Mateo County, California, U.S.A. opened 19911031. MNLO code JSB.	37 40 44.4 N (37.6790)	122 23 48.0 W (122.3967)	194.0	MNLO



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JSLM	U	San Andreas Lake ..... San Mateo County, California, U.S.A. 19670713-19720927. MNLO code SAL.	37 34 33.6 N (37.5760)	122 25 24.0 W (122.4233)	335.0	MNLO
JTRM	U	Los Trancos Road ..... San Mateo County, California, U.S.A. 19880921-19901011. MNLO code JTR.	37 21 07.8 N (37.3522)	122 11 52.8 W (122.1980)	251.0	MNLO
JTS		Juntas de Abangares ..... Costa Rica opened 198806.	10 17 27.0 N (10.2908)	84 57 09.0 W ( 84.9525)	340.0	HDC
JUMM		Mount Umunhum ..... Santa Clara County, California, U.S.A. opened 19891027. MNLO code JUM.	37 09 39.0 N (37.1608)	121 53 51.6 W (121.8977)	1048.0	MNLO
JVI		Jordan Valley--Rimmonim ..... Israel opened 19860717.	31 55 48.0 N (31.9300)	35 21 00.0 E ( 35.3500)	680.0	JER
JVM		Valle D.L. Mare ..... Channel Islands, United Kingdom opened 1981.	49 13 00.8 N (49.2169)	2 12 24.5 W ( 2.2068)	64.0	BGS
KAC		Achnashellach ..... Scotland, United Kingdom opened 1983.	57 29 59.6 N (57.4999)	5 17 53.5 W ( 5.2982)	330.0	BGS
KALI		Kaliastana ..... Jawa, Indonesia	7 06 23.0 S ( 7.1064)	106 39 32.0 E (106.6589)	810.0	DJA
KANJ	R	Kanazawa ..... Ishikawa, Honshu, Japan opened 19911023.	36 35 12.0 N (36.5867)	136 38 12.0 E (136.6367)	...	JMA
KANT	R	Kantara ..... Cyprus	35 22 58.8 N (35.3830)	33 52 48.0 E ( 33.8800)	...	ISK
KAP		Karpathos ..... Greece opened 1988.	35 33 03.0 N (35.5508)	27 10 28.8 E ( 27.1747)	250.0	ATH
KARJ	R	..... Jordan	31 07 12.0 N (31.1200)	35 39 10.8 E ( 35.6530)	124.0	JSO
KART		Karci ..... Turkey opened 1992.	41 10 16.0 N (41.1711)	34 18 17.0 E ( 34.3047)	1946.0	DDA
KBB		Kelsey Bay ..... British Columbia, Canada opened 19860823.	50 23 05.0 N (50.3847)	126 01 39.0 W (126.0275)	1310.0	OTTR
KBC		Kumba ..... Cameroon opened 19841116; moved slightly 19850317. Old position 4.652N, 9.412E, 375m.	4 39 10.8 N ( 4.6530)	9 24 46.8 E ( 9.4130)	375.0	YND
KBI		Kettle Butte ..... Idaho, U.S.A. opened 1992.	43 35 26.4 N (43.5907)	112 22 36.0 W (112.3767)	1698.0	USGS
KBK	RD	Karagaybulak ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
KBR		Kanchanaburi ..... Thailand opened 198807.	14 01 .. N (14.0167)	99 32 .. E ( 99.5333)	28.0	CHG
KBZ	R	Khabaz ..... Stavropolskiy Kray, Russia	43 43 43.0 N (43.7286)	42 53 51.0 E ( 42.8975)	...	
KCSM		Cold Springs ..... Trinity County, California, U.S.A. opened 19920813. MNLO code KCS.	40 32 15.6 N (40.5377)	123 30 45.6 W (123.5127)	1640.0	MNLO
KEDI		Kedomdong ..... Lombok, Nusa Tenggara, Indonesia opened 1991.	8 01 05.0 S ( 8.0181)	116 04 45.0 E (116.0792)	560.0	DJA
KEG	D	Kottamia ..... Egypt opened 1991.	29 55 39.0 N (29.9275)	31 49 45.1 E ( 31.8292)	490.0	HLW MEDN
KEK		Kerkira ..... Greece opened 198903.	39 42 46.8 N (39.7130)	19 47 55.2 E ( 19.7987)	280.0	ATH
KELI		Kelakatan ..... Bali, Nusa Tenggara, Indonesia	8 13 00.0 S ( 8.2167)	114 29 27.0 E (114.4908)	591.0	DJA
KERI	R	Keren ..... Israel	30 59 24.0 N (30.9900)	34 29 24.0 E ( 34.4900)	360.0	JER
KGNI	R	Kongan ..... India	...	...	...	JHI
KHBM		Hayfork Bally ..... Trinity County, California, U.S.A. opened 19911119. MNLO code KHB.	40 39 36.6 N (40.6602)	123 13 06.6 W (123.2185)	1885.0	MNLO
KHF	R	Khenifra ..... Morocco	33 00 18.0 N (33.0050)	5 46 08.4 W ( 5.7690)	...	CNRM
KHL		Karahalli ..... Turkey opened 198808.	38 19 23.5 N (38.3232)	29 31 23.5 E ( 29.5232)	940.0	ISK
KHMM		Horse Mountain ..... Humboldt County, California, U.S.A. opened 19910712. MNLO code KHM.	40 52 28.8 N (40.8747)	123 43 53.4 W (123.7315)	1509.0	MNLO
KHZ	D	Kahutara ..... South Island, New Zealand opened 198811.	42 25 04.8 S (42.4180)	173 32 25.2 E (173.5403)	70.0	WEL
KIB		El Ksiba ..... Morocco CNRM code KSB.	32 34 15.6 N (32.5710)	6 02 09.6 W ( 6.0360)	...	CNRM
KIEV	RD	Kiev ..... Ukraine	50 41 40.0 N (50.6944)	29 12 36.0 E ( 29.2100)	163.6	IRIS



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
KIL	Kilembe ..... Uganda opened 199107.	0 12 00.0 N ( 0.2000)	30 00 28.8 E ( 30.0080)	1372.0	
KING	Kindia ..... Guinea	9 57 49.8 N ( 9.9638)	12 52 06.6 W ( 12.8685)	410.0	
KIRV	R Kirov ..... Kirovskaya Oblast, Russia	58 35 06.0 N (58.5850)	49 24 57.0 E ( 49.4158)	...	
KIV	D Kislovodsk ..... Stavropolskiy Kray, Russia IDA opened 1988.	43 57 22.3 N (43.9562)	42 41 19.7 E ( 42.6888)	1210.0	MOS IDA IRIS
KJJM	Johnny Jack Ridge ..... Humboldt County, California, U.S.A. opened 19910822. MNLO code KJJ.	40 14 51.6 N (40.2477)	124 18 24.6 W (124.3068)	725.0	MNLO
KKB	Krupnik ..... Bulgaria opened 1988.	41 52 00.1 N (41.8667)	23 04 59.9 E ( 23.0833)	434.0	SOF
KKL	RD Karkaralinsk ..... Kazakhstan	49 19 48.0 N (49.3300)	75 22 48.0 E ( 75.3800)	...	MOSR IDA IRIS
KLCH	Kalalua Cone ..... Hawaii, Hawaii, U.S.A. HVO code KLC.	19 24 21.0 N (19.4058)	155 04 04.8 W (155.0680)	659.0	HVO
KLJ	Keetly ..... Wasatch County, Utah, U.S.A. opened 19921030.	40 37 51.0 N (40.6308)	111 24 15.6 W (111.4043)	2008.0	SLC
KLP	R Kalpa ..... Himachal Pradesh, India	31 32 .. N (31.5333)	78 15 .. E ( 78.2500)	2724.0	NDI
KLR	RD Kuldur ..... Khabarovskiy Kray, Russia	49 12 .. N (49.2000)	131 48 .. E (131.8000)	...	MOSR IDA IRIS
KMC	Kompina ..... Cameroon opened 19841214.	4 23 09.6 N ( 4.3860)	9 34 40.8 E ( 9.5780)	85.0	YND
KMOR	Kings Mountain ..... Oregon, U.S.A. opened 198209. SEA code KMO.	45 38 07.8 N (45.6355)	123 29 22.2 W (123.4895)	975.0	SEA
KMST	..... Turkey opened 1992.	37 31 26.0 N (37.5239)	36 59 37.0 E ( 36.9936)	670.0	GBZT
KMTA	Khamis Mushayt ..... Saudi Arabia opened 19900613.	18 09 57.6 N (18.1660)	42 51 54.0 E ( 42.8650)	2000.0	RYD
KNM	R Kinmen ..... China (Taiwan)	24 15 00.0 N (24.2500)	118 15 36.0 E (118.2600)	13.7	TAP
KOG	RD Kourou Guianne ..... French Guiana	...	...	...	STR GEOS
KOGH	Kofofidua ..... Ghana opened 1987.	6 05 10.0 N ( 6.0861)	0 14 38.0 W ( 0.2439)	483.0	KUK
KOMM	Orleans Mountain ..... Humboldt County, California, U.S.A. opened 19820811. MNLO code KOM.	41 16 43.8 N (41.2788)	123 27 07.8 W (123.4522)	1181.0	MNLO
KOSW	Kosmos ..... Washington, U.S.A. opened 198105. SEA code KOS.	46 27 40.8 N (46.4613)	122 11 25.8 W (122.1905)	828.0	SEA
KOT	Kottamia ..... Egypt	29 55 48.0 N (29.9300)	31 49 48.0 E ( 31.8300)	...	HLW
KOTI	R Kothi ..... Himachal Pradesh, India opened 19850801.	32 18 27.6 N (32.3077)	77 12 00.0 E ( 77.2000)	2527.0	WIHG
KOWA	RD Kowa ..... Mali	14 29 48.0 N (14.4967)	4 01 00.0 W ( 4.0167)	280.0	IRIS
KPL	Plockton ..... Scotland, United Kingdom opened 19860418.	57 20 20.8 N (57.3391)	5 39 09.7 W ( 5.6527)	36.0	BGS
KRAM	R Krabesse ..... Morocco	31 42 21.6 N (31.7060)	9 20 34.8 W ( 9.3430)	...	CNRM
KRCT	Kiractepe ..... Turkey	41 04 56.0 N (41.0822)	32 52 41.0 E ( 32.8781)	1449.0	DDA
KRIT	Krib ..... Tunisia	36 20 18.0 N (36.3383)	9 04 29.4 E ( 9.0748)	640.0	SBS
KRMM	Red Mountain ..... Del Norte County, California, U.S.A. opened 19820811. MNLO code KRM.	41 31 18.6 N (41.5218)	123 54 18.6 W (123.9052)	1280.0	MNLO
KRPM	Rodgers ..... Humboldt County, California, U.S.A. opened 19801126; moved slightly 19890810. Old position 41.1588N, 124.0237W, 829m. MNLO code KRP.	41 09 29.4 N (41.1582)	124 01 22.8 W (124.0230)	829.0	MNLO
KSB	Sheil Bridge ..... Scotland, United Kingdom opened 1983.	57 12 35.3 N (57.2098)	5 25 22.8 W ( 5.4230)	70.0	BGS
KSCM	Snow Cap Mountain ..... Oregon, U.S.A. opened 19911106. MNLO code KSC.	42 20 38.4 N (42.3440)	124 09 52.8 W (124.1647)	1280.0	MNLO
KSD	Kokstad ..... Cape Province, South Africa opened 199303.	30 32 .. S (30.5333)	29 25 .. E ( 29.4167)	1350.0	PRE
KSHJ	R ..... Jordan	30 16 26.4 N (30.2740)	36 57 57.6 E ( 36.9660)	1005.0	JSO
KSHT	Keshet ..... Israel opened 199105.	32 59 24.0 N (32.9900)	35 49 48.0 E ( 35.8300)	700.0	JER



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KSK		Scoval ..... Scotland, United Kingdom opened 1989.	57 27 55.1 N (57.4653)	6 42 07.2 W ( 6.7020)	250.0	BGS
KSL		Kastellorizon ..... Greece opened 1988.	36 07 08.4 N (36.1190)	29 35 00.0 E ( 29.5833)	100.0	ATH
KSM		Slide Mountain ..... Humboldt County, California, U.S.A. opened 19820817. MNLO code KSM.	40 11 09.0 N (40.1858)	124 10 28.8 W (124.1747)	991.0	MNLO
KSYM		Camp Six ..... Del Norte County, California, U.S.A. opened 19820811. MNLO code KSX.	41 49 51.0 N (41.8308)	123 52 33.0 W (123.8758)	1143.0	MNLO
KSY		Syston ..... England, United Kingdom opened 1988.	52 57 51.1 N (52.9642)	0 35 14.3 W ( 0.5873)	123.0	BGS
KSZ	R	Kasama ..... Zambia	...	...	...	
KTD		Kalmit ..... Rheinland-Pfalz, Germany opened before 197410.	49 19 12.6 N (49.3202)	8 05 01.2 E ( 8.0837)	670.0	KRW
KTH		Kantishna Hills ..... Central Alaska, Alaska, U.S.A. opened 19880815.	63 33 10.8 N (63.5530)	150 55 18.0 W (150.9217)	975.0	GIA
KTJJ	R	Kamata 2 ..... Honshu, Japan opened 19900320.	34 55 30.6 N (34.9252)	139 03 50.4 E (139.0640)	175.0	JMA
KTk1		Kautokeino ..... Norway opened 1989.	69 00 42.1 N (69.0117)	23 14 13.7 E ( 23.2371)	340.0	BER
KTk2		Kautokeino ..... Norway opened 1989.	69 00 27.0 N (69.0075)	23 14 14.5 E ( 23.2374)	...	BER
KTk3		Kautokeino ..... Norway opened 1989.	69 00 24.0 N (69.0067)	23 14 06.7 E ( 23.2352)	...	BER
KTk4		Kautokeino ..... Norway	69 00 29.0 N (69.0081)	23 14 05.1 E ( 23.2347)	...	BER
KTk5		Kautokeino ..... Norway	69 00 34.5 N (69.0096)	23 13 38.3 E ( 23.2273)	...	BER
KTk6		Kautokeino ..... Norway	69 00 36.0 N (69.0100)	23 14 09.6 E ( 23.2360)	340.0	BER
KTL	R	Katale ..... Zaire ( 1.3247)	1 19 28.8 S ( 1.3247)	29 23 01.8 E ( 29.3838)	1600.0	LWI
KTRM		Thompson Ridge ..... Siskiyou County, California, U.S.A. opened 19920805. MNLO code KTR.	41 54 31.2 N (41.9087)	123 22 35.4 W (123.3765)	1378.0	MNLO
KUF		Ufford ..... England, United Kingdom opened 1988.	52 37 03.0 N (52.6175)	0 23 22.2 W ( 0.3895)	35.0	BGS
KUQ	R	Kuujjuuaq ..... Quebec, Canada opened 19900112.	58 06 32.4 N (58.1090)	68 24 40.8 W ( 68.4113)	54.0	OTTR
KUZ	D	Kuaotunu ..... North Island, New Zealand opened 19901011.	36 44 49.5 S (36.7471)	175 43 11.6 E (175.7199)	40.0	WEL
KWE		Weaver Farm ..... England, United Kingdom opened 1988.	53 00 58.7 N (53.0163)	1 50 36.6 W ( 1.8435)	320.0	BGS
KYR	R	Kayrak ..... Turkey opened 198801.	36 21 06.0 N (36.3517)	33 31 31.0 E ( 33.5253)	1210.0	ISK
KZA	RD	Kyzart ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
KZIT	R	Kziot ..... Israel (30.9200)	30 55 12.0 N (30.9200)	34 26 24.0 E ( 34.4400)	200.0	JER
LAB		Little Aspen Butte ..... Oregon, U.S.A. opened 19931007.	42 16 03.0 N (42.2675)	122 03 49.0 W (122.0636)	1774.0	SEA
LABG		Labe ..... Guinea (11.2328)	11 13 58.2 N (11.2328)	12 19 55.8 W ( 12.3322)	1130.0	
LACI		Laci ..... Greece opened 198704.	41 38 10.7 N (41.6363)	19 42 33.8 E ( 19.7094)	40.0	TIR
LACL		Lacq ..... Aquitaine, France (43.4350)	43 26 06.0 N (43.4350)	0 43 37.0 W ( 0.7269)	195.0	STR
LACU		La Cuchilla ..... Venezuela opened 1984.	7 52 36.1 N ( 7.8767)	71 23 26.2 W ( 71.3906)	800.0	CAR
LADA	R	La Danta ..... Venezuela opened 1984.	7 56 20.4 N ( 7.9390)	71 36 46.8 W ( 71.6130)	1200.0	CAR
LAGL		Lagor ..... Aquitaine, France (43.4061)	43 24 22.0 N (43.4061)	0 39 54.0 W ( 0.6650)	190.0	STR
LAGM	R	..... Oaxaca, Mexico UNM code LAG.	16 06 15.0 N (16.1042)	97 04 40.2 W ( 97.0778)	201.0	UNM
LAGO	R	Lagoa das Furnas ..... Azores, Portugal	...	...	...	PDA
LAGU	R	Laguneta ..... Venezuela ( 9.7700)	9 46 12.0 N ( 9.7700)	69 45 54.0 W ( 69.7650)	800.0	CAR



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LAGV	D Lagunillas ..... Venezuela	10 13 26.4 N (10.2240)	71 09 32.4 W ( 71.1590)	...	INTV
LAL	Leola ..... Alabama, U.S.A. opened 19890328.	34 26 12.0 N (34.4367)	87 20 13.8 W ( 87.3372)	320.0	TVA
LANF	Langenberg ..... Alsace, France	48 58 50.0 N (48.9806)	7 48 19.0 E ( 7.8053)	500.0	STR
LAPE	La Pedrera ..... Venezuela opened 1984.	7 33 28.8 N ( 7.5580)	71 34 32.2 W ( 71.5756)	327.0	CAR
LARI	Lau Rambong ..... Sumatera, Indonesia	2 53 08.0 N ( 2.8856)	98 09 26.0 E ( 98.1572)	820.0	DJA
LASM	Arnica Sink ..... Siskiyou County, California, U.S.A. opened 19881025. MNLO code LAS.	41 35 57.6 N (41.5993)	121 34 36.0 W (121.5767)	2060.0	MNLO
LAZ	Ladron ..... New Mexico, U.S.A.	34 24 07.2 N (34.4020)	107 08 21.6 W (107.1393)	1853.0	SNM
LAZM	R Lazaro Cardenas ..... Michoacan, Mexico UNM code LAZ.	18 02 09.6 N (18.0360)	102 12 18.0 W (102.2050)	...	UNM
LBGM	U Big Gulch ..... Shasta County, California, U.S.A. 19821201-19860930. MNLO code LBG.	40 48 08.4 N (40.8023)	122 35 22.8 W (122.5897)	884.0	MNLO
LBH	R Morecambe B102 ..... England, United Kingdom opened 1990.	54 01 56.6 N (54.0324)	2 54 20.9 W ( 2.9058)	-85.0	BGS
LBKM	Bonanza King ..... Trinity County, California, U.S.A. opened 19821201. MNLO code LBK.	41 05 03.0 N (41.0842)	122 39 54.6 W (122.6652)	1341.0	MNLO
LBL	Loubilhac ..... Auvergne, France	45 13 57.0 N (45.2325)	3 14 49.0 E ( 3.2469)	950.0	STR
LBMM	U Bass Mountain ..... Shasta County, California, U.S.A. 19830211-19890419. MNLO code LBM.	40 43 58.2 N (40.7328)	122 21 57.0 W (122.3658)	841.0	MNLO
LENH	D Lisbon ..... New Hampshire, U.S.A. opened 19930814.	44 14 24.4 N (44.2401)	71 55 33.2 W ( 71.9259)	367.0	NEIS USNN
LBO	R Bowland ..... England, United Kingdom opened 1989.	53 58 44.4 N (53.9790)	2 34 22.1 W ( 2.5728)	320.0	BGS
LBPM	Beegum Peak ..... Shasta County, California, U.S.A. opened 19821202. MNLO code LBP.	40 19 06.0 N (40.3183)	122 52 52.8 W (122.8813)	1051.0	MNLO
LBRS	Las Brisas ..... El Salvador opened 199112.	13 44 18.0 N (13.7383)	89 02 36.0 W ( 89.0433)	770.0	SSS
LBTB	D Lobatse ..... Botswana opened 1993.	25 00 52.2 S (25.0145)	25 35 49.2 E ( 25.5970)	1028.0	GTSN
LCAM	U Castella ..... Shasta County, California, U.S.A. 19810115-19900911. MNLO code LCA.	41 10 07.8 N (41.1688)	122 16 22.2 W (122.2728)	689.0	MNLO
LCBS	La Ceiba ..... El Salvador	13 39 18.0 N (13.6550)	88 58 42.0 W ( 88.9783)	710.0	SSS
LCCH	Las Cruces ..... Santiago, Chile opened 19871117.	33 28 31.2 S (33.4753)	71 34 10.8 W ( 71.5697)	180.0	SAN
LCK	Crook ..... England, United Kingdom opened 1989.	54 21 34.2 N (54.3595)	2 52 17.4 W ( 2.8715)	200.0	BGS
LCM	Los Angeles Museum of Natural History ..... Los Angeles County, California, U.S.A. opened 197108. MNLO code LCMS.	34 01 04.2 N (34.0178)	118 17 13.2 W (118.2870)	...	USC
LCP	R Cassop ..... England, United Kingdom opened 1991.	54 44 12.5 N (54.7368)	1 28 26.8 W ( 1.4741)	185.0	BGS
LCSM	U College of the Siskiyous ..... Siskiyou County, California, U.S.A. 19830110-19880728. MNLO code LCS.	41 24 58.2 N (41.4162)	122 23 33.0 W (122.3925)	1125.0	MNLO
LDBL	Lucq-de-Bearn ..... Aquitaine, France	43 19 08.0 N (43.3189)	0 36 50.0 W ( 0.6139)	250.0	STR
LDBM	Digger Butte ..... Tehama County, California, U.S.A. opened 19810619. MNLO code LDB.	40 25 54.0 N (40.4317)	121 47 04.8 W (121.7847)	1225.0	MNLO
LDJ	Lady ..... Wasatch County, Utah, U.S.A. opened 19920930.	40 34 52.8 N (40.5813)	111 24 28.2 W (111.4078)	2231.0	SLC
LDMO	Linda ..... Missouri, U.S.A. opened 19800719.	36 24 39.6 N (36.4110)	89 33 46.8 W ( 89.5630)	86.0	SLM
LDU	R Leeds University ..... England, United Kingdom opened 1983.	53 48 09.0 N (53.8025)	1 33 19.1 W ( 1.5553)	230.0	BGS
LDVG	Clark Hill Reservoir ..... Georgia, U.S.A.	34 08 52.1 N (34.1478)	82 41 00.0 W ( 82.6833)	162.0	ATL
LEGH	Legon ..... Ghana opened 1987?	5 38 54.0 N ( 5.6483)	0 10 53.0 W ( 0.1814)	91.0	KUK



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LENM	Lemitar ..... New Mexico, U.S.A. SNM code LEM.	34 09 55.8 N (34.1655)	106 58 27.0 W (106.9742)	1698.0	SNM
LESP	Lescure ..... Midi-Pyrenees, France opened 198901.	43 01 52.0 N (43.0311)	1 17 02.0 E ( 1.2839)	460.0	STR
LEVU	Levan ..... Juab County, Utah, U.S.A. opened 199201.	39 30 24.6 N (39.5068)	111 48 49.8 W (111.8138)	2016.0	SLC
LFK	Lefkose ..... Cyprus opened 19870101.	35 16 45.1 N (35.2792)	33 31 57.0 E ( 33.5325)	690.0	ISK
LFRS	El Faro ..... El Salvador opened 199112.	13 37 24.0 N (13.6233)	89 03 42.0 W ( 89.0617)	1000.0	SSS
LFU	La Fuente ..... El Salvador (13.7487)	13 44 55.2 N (13.7487)	89 06 49.8 W ( 89.1138)	732.0	SSS
LGHM	U Grouse Hill ..... Siskiyou County, California, U.S.A. 19881025-19900408. MNLO code LGH.	41 36 41.4 N (41.6115)	121 37 15.6 W (121.6210)	2146.0	MNLO
LGMM	Garner Mountain ..... Siskiyou County, California, U.S.A. opened 19881023. MNLO code LGM.	41 35 58.8 N (41.5997)	121 50 06.6 W (121.8352)	1560.0	MNLO
LGOR	La Grande ..... Oregon, U.S.A. opened 199107.	45 12 59.0 N (45.2164)	118 00 03.0 W (118.0008)	1200.0	BSE
LGPM	Granite Peak ..... Trinity County, California, U.S.A. opened 19821001. MNLO code LGP.	40 54 45.0 N (40.9125)	122 49 43.2 W (122.8287)	1290.0	MNLO
LGRM	U Grenada ..... Siskiyou County, California, U.S.A. 19880728-19900614. MNLO code LGR.	41 38 21.0 N (41.6392)	122 28 49.8 W (122.4805)	780.0	MNLO
LHCM	Hat Creek ..... Shasta County, California, U.S.A. opened 19810204. MNLO code LHC.	40 48 18.0 N (40.8050)	121 30 50.4 W (121.5140)	1020.0	MNLO
LHEM	Herd Peak ..... Siskiyou County, California, U.S.A. opened 19810115. MNLO code LHE.	41 37 42.6 N (41.6285)	122 13 07.8 W (122.2188)	2155.0	MNLO
LHHM	U High Hole Crater ..... Siskiyou County, California, U.S.A. 19881025-19900408. MNLO code LHH.	41 31 22.2 N (41.5228)	121 31 57.0 W (121.5325)	1890.0	MNLO
LHIS	Lihir Island ..... New Ireland, Papua New Guinea opened 19870622.	3 07 01.2 S ( 3.1170)	152 37 58.8 E (152.6330)	10.0	PMG
LHMM	U Hirz Mountain ..... Shasta County, California, U.S.A. 19830211-19860930. MNLO code LHM.	40 53 48.6 N (40.8968)	122 14 42.0 W (122.2450)	1064.0	MNLO
LHO	R Holmfirth ..... England, United Kingdom opened 1991.	53 32 42.4 N (53.5451)	1 51 17.3 W ( 1.8548)	460.0	BGS
LHOM	U Hoadley Peaks ..... Trinity County, California, U.S.A. 19821201-19860930. MNLO code LHO.	40 41 06.6 N (40.6852)	122 45 00.0 W (122.7500)	1378.0	MNLO
LIBD	Limburg ..... Baden-Wurttemberg, Germany sent to NEIS by STR.	48 09 01.5 N (48.1504)	7 36 08.2 E ( 7.6023)	200.0	
LIBM	..... Chiapas, Mexico UNM code LIB.	17 17 38.4 N (17.2940)	93 00 43.2 W ( 93.0120)	...	UNM
LIJA	Lijar ..... Spain opened 198711.	36 53 54.0 N (36.8983)	5 24 42.0 W ( 5.4117)	970.0	SFS
LIME	Lime ..... Oregon, U.S.A. opened 199004.	44 25 59.0 N (44.4331)	117 14 52.0 W (117.2478)	1500.0	BSE
LIMM	R ..... Veracruz, Mexico IIM code LIM.	19 40 49.2 N (19.6803)	96 31 41.3 W ( 96.5281)	200.0	IIM
LIRZ	R Lichensteins Road ..... North Island, New Zealand opened 19920615.	38 00 18.0 S (38.0050)	176 23 03.0 E (176.3842)	340.0	
LISJ	El Lisan ..... Jordan opened 19900223.	31 14 24.0 N (31.2400)	35 28 51.6 E ( 35.4810)	-327.0	JSO
LJI	Lemhi Junction ..... Idaho, U.S.A. opened 19900515.	43 49 15.0 N (43.8208)	112 50 38.4 W (112.8440)	1600.0	USGS
LJO	Ljotipollur ..... Iceland (64.0235)	64 01 24.6 N (64.0235)	19 01 22.8 W ( 19.0230)	...	
LJS	R ..... Mexico (17.9930)	17 59 34.8 N (17.9930)	93 29 16.8 W ( 93.4880)	...	IIM
LJY	La Joya ..... New Mexico, U.S.A. (34.3365)	34 20 11.4 N (34.3365)	106 53 45.0 W (106.8958)	1532.0	SNM
LKGA	Lookout Mountain ..... Georgia, U.S.A. opened 19851205.	34 37 24.0 N (34.6233)	85 28 19.8 W ( 85.4722)	655.0	TVA
LKL	Kirkby Lonsdale ..... England, United Kingdom opened 1989.	54 13 06.6 N (54.2185)	2 32 04.2 W ( 2.5345)	396.0	BGS



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
LKO	Korhogo ..... Cote d'Ivoire opened 198906.	9 32 39.8 N ( 9.5444)	5 35 20.0 W ( 5.5889)	435.0	LIC
LLAV	El Llanito ..... Venezuela opened 1988.	10 28 30.0 N (10.4750)	66 48 28.8 W ( 66.8080)	907.0	CAR
LLJ	..... Guerrero, Mexico (16.5642)	16 33 51.0 N (16.5642)	98 53 04.8 W ( 98.8847)	...	UNM
LLO	Longridge ..... England, United Kingdom opened 1989.	53 51 01.1 N (53.8503)	2 33 35.3 W ( 2.5598)	247.0	BGS
LLRI	Little Lost River ..... Idaho, U.S.A. (43.7230)	43 43 22.8 N (43.7230)	112 55 58.8 W (112.9330)	1471.0	USGS
LLY	R Lytham Saint Anne's ..... England, United Kingdom opened 1989.	53 47 51.4 N (53.7976)	2 54 24.8 W ( 2.9069)	33.0	BGS
LMD	R Lutirano ..... Toscana, Italy (44.0767)	44 04 36.0 N (44.0767)	11 43 26.0 E ( 11.7239)	450.0	
LMDM	U Medicine Lake ..... Siskiyou County, California, U.S.A. 19881025-19900408. MNLO code LMD.	41 34 22.8 N (41.5730)	121 37 22.8 W (121.6230)	2140.0	MNLO
LMEM	Manzanita Entrance ..... Shasta County, California, U.S.A. opened 19881104. MNLO code LME.	40 32 16.2 N (40.5378)	121 34 12.6 W (121.5702)	1753.0	MNLO
LMI	Millom ..... England, United Kingdom opened 1989.	54 13 14.2 N (54.2206)	3 18 25.2 W ( 3.3070)	140.0	BGS
LMK	Market Rasen ..... England, United Kingdom opened 1991.	53 27 24.8 N (53.4569)	0 19 35.8 W ( 0.3266)	130.0	BGS
LMSM	R Los Mochis ..... Sinaloa, Mexico	...	...	...	UNM
LMX	La Mesa de Andrade ..... Sonora, Mexico opened 1988.	32 06 31.2 N (32.1087)	114 57 37.8 W (114.9605)	...	ECX
LMZ	D Lake Moeraki ..... South Island, New Zealand opened 19901109.	43 43 06.0 S (43.7183)	169 16 13.0 E (169.2703)	10.0	WEL
LNAS	Los Alamitos ..... Orange County, California, U.S.A. opened 197205. USC code LNA.	33 47 21.0 N (33.7892)	118 03 16.2 W (118.0545)	-50.0	USC
LNO	D Leonard ..... Oklahoma, U.S.A. opened 19881207.	35 54 45.0 N (35.9125)	95 47 21.1 W ( 95.7892)	-487.0	TUL
LNO2	D Leonard Oklahoma ..... Oklahoma, U.S.A. opened 1992.	35 54 45.0 N (35.9125)	95 47 21.1 W ( 95.7892)	-171.0	TUL
LNO3	D Leonard ..... Oklahoma, U.S.A. opened 1992.	35 54 45.0 N (35.9125)	95 47 21.1 W ( 95.7892)	257.0	TUL
LNOR	D Linton Mountain ..... Oregon, U.S.A. opened 198608. SEA code LNO. USTN opened 1988.	45 52 15.8 N (45.8711)	118 17 06.0 W (118.2850)	768.0	SEA USTN
LOCW	Rockwell Inc. Station ..... Washington, U.S.A. opened 198211. SEA code LOC.	46 43 04.8 N (46.7180)	119 25 54.6 W (119.4318)	201.0	SEA
LOF	Lofoten ..... Norway opened 198701.	68 07 51.6 N (68.1310)	13 32 31.2 E ( 13.5420)	80.0	BER
LOHW	Long Hollow ..... Wyoming, U.S.A. opened 198601.	43 36 44.7 N (43.6124)	110 36 13.5 W (110.6037)	2121.0	USBR
LOKY	Lockhart ..... Kentucky, U.S.A. opened 19921201.	37 14 13.2 N (37.2370)	88 17 42.0 W ( 88.2950)	230.0	BHXY
LOMF	Lomont du Chamesol ..... Franche Comte, France (47.3508)	47 21 03.0 N (47.3508)	6 49 39.0 E ( 6.8275)	1000.0	STR
LOMO	R Loma en Medio ..... Dominican Republic (18.8767)	18 52 36.0 N (18.8767)	68 51 40.8 W ( 68.8613)	...	SDD
LOMS	Lomita ..... Los Angeles County, California, U.S.A. opened 19891220. USC code LOM.	33 47 42.6 N (33.7952)	118 16 45.6 W (118.2793)	-173.0	USC
LORO	Los Roques ..... Venezuela opened 1984.	11 57 28.1 N (11.9578)	66 40 27.1 W ( 66.6742)	20.0	CAR
LORV	D San Lorenzo ..... Venezuela ( 9.2330)	9 13 58.8 N ( 9.2330)	70 51 03.6 W ( 70.8510)	...	INTV
LPBM	R La Paz ..... Baja California, Mexico	...	...	...	UNM
LPD	Lampedusa ..... Italy opened 198905.	35 30 41.0 N (35.5114)	12 35 42.2 E ( 12.5951)	20.0	ERC
LPI	Lipari ..... Lipari Islands, Italy opened 19871211.	38 29 22.0 N (38.4894)	14 56 00.0 E ( 14.9333)	594.0	ERC
LPL	La Plagne ..... Rhône-Alpes, France opened 198608.	45 30 59.2 N (45.5164)	6 43 56.6 E ( 6.7324)	2070.0	LDG



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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
LQP	R	Philippines	...	...	...	MAN
LRCG		Laurel Creek Mono County, California, U.S.A. opened 198407. MNLO code CLRC.	37 35 08.4 N (37.5857)	118 54 31.8 W (118.9088)	2780.0	CDMG
LRCZ		Leaning Rock South Island, New Zealand	45 03 55.0 S (45.0653)	169 20 46.0 E (169.3461)	1533.0	WELC
LRDO		Lorado Arkansas, U.S.A. opened 198812.	35 58 09.0 N (35.9692)	90 41 43.2 W ( 90.6953)	137.0	TEIC
LRN		Richmond England, United Kingdom opened 1991.	54 25 00.1 N (54.4167)	1 47 08.9 W ( 1.7858)	300.0	BGS
LRO	R	Larroussi Morocco	31 50 13.2 N (31.8370)	9 08 34.8 W ( 9.1430)	...	CNRM
LSCT	D	Lakeside Connecticut, U.S.A. opened 19930806.	41 40 42.2 N (41.6784)	73 13 27.8 W ( 73.2244)	318.0	NEIS USNN
LSCZ		Lilico Spur South Island, New Zealand	45 06 59.0 S (45.1164)	169 22 09.0 E (169.3692)	759.0	WELC
LSD		Ceresole Reale Piemonte, Italy	45 27 27.6 N (45.4577)	7 09 20.4 E ( 7.1557)	2284.0	GEN
LSK		Leskovik Albania	40 09 .. N (40.1500)	20 36 .. E ( 20.6000)	920.0	TIR
LSO	R	Little Silver Creek Oklahoma, U.S.A.	...	...	...	TUL
LSP2	C	Las Mesas Puerto Rico Moved from LSP.	18 08 45.0 N (18.1458)	66 58 52.0 W ( 66.9811)	...	MPR
LSPF		Lesparou Midi-Pyrenees, France	42 56 53.0 N (42.9481)	1 54 15.0 E ( 1.9042)	450.0	STR
LSR	D	Lussari Friuli-Venezia Giulia, Italy opened 19880101.	46 28 33.0 N (46.4758)	13 31 40.0 E ( 13.5278)	1750.0	TRI
LTH		Lepaterique Honduras opened 1990?	14 04 15.0 N (14.0708)	87 20 45.0 W ( 87.3458)	...	
LTI		Latouche Kenai Peninsula, Alaska, U.S.A. opened 19880701.	60 02 25.8 N (60.0405)	147 51 15.0 W (147.8542)	302.0	AGS
LTMT		Little Table Mountain Montana, U.S.A. opened 19890914.	44 31 33.0 N (44.5258)	112 06 36.0 W (112.1100)	2603.0	BUT
LTZ	D	Lake Taylor South Island, New Zealand opened 19891010.	42 46 58.2 S (42.7828)	172 16 07.8 E (172.2688)	640.0	WEL
LUK	R	Philippines	14 07 12.0 N (14.1200)	121 31 01.2 E (121.5170)	500.0	MAN
LUTC	R	Czech Republic	49 53 02.4 N (49.8840)	18 24 57.6 E ( 18.4160)	...	PRU
LUV	R	Lai Chau Vietnam	22 03 07.0 N (22.0519)	103 09 34.0 E (103.1594)	1100.0	PLV
LVGX		La Villita Guerrero, Mexico Strong-motion station.	18 02 42.0 N (18.0450)	102 10 30.0 W (102.1750)	...	LJC
LVI		Isola di Levanzo Sicilia, Italy	37 59 08.1 N (37.9856)	12 20 14.7 E ( 12.3374)	20.0	ERC
LVM	F	Lawrence Livermore National Laboratory	...	...	...	...
LVMM		Veracruz, Mexico UNM code LVM.	19 36 05.2 N (19.6014)	96 23 43.8 W ( 96.3955)	160.0	UNM
LVP		Lakeview Peak Washington, U.S.A. opened 198004.	46 04 06.0 N (46.0683)	122 24 30.0 W (122.4083)	1170.0	SEA
LVRI		Lost Valley Reservoir Idaho, U.S.A. opened 199108.	44 56 41.0 N (44.9447)	116 27 08.0 W (116.4522)	1700.0	BSE
LVVM		Laguna Verde Veracruz, Mexico opened 1988. UNM code LVV.	19 44 16.8 N (19.7380)	96 26 55.8 W ( 96.4488)	...	UNM
LVZ	D	Lovozero Karelskaya ASSR, Russia	67 53 52.4 N ( 67.8979)	34 39 05.0 E ( 34.6514)	630.0	MOS IDA IRIS
LWH		Whinny Nab England, United Kingdom opened 1991.	54 20 00.6 N (54.3335)	0 40 17.0 W ( 0.6714)	265.0	BGS
LXQ	R	La Grande 3 Quebec, Canada opened 19861216.	53 43 20.4 N (53.7223)	76 01 20.0 W ( 76.0222)	195.0	OTTR
MABC	R	Malibu British Columbia, Canada opened 19910320.	50 09 52.8 N (50.1647)	123 51 20.4 W (123.8557)	75.0	OTTR
MAF		Mazirat Auvergne, France opened 19850711.	46 13 17.3 N (46.2215)	2 33 59.2 E ( 2.5664)	470.0	LDG
MAHZ		Mahia North Island, New Zealand	39 11 18.0 S (39.1883)	177 52 51.0 E (177.8808)	336.0	WELH
MAMG		Mamou Guinea	10 15 52.2 N (10.2645)	11 57 54.0 W ( 11.9650)	773.0	
MAMI		Mei-Ami Israel	32 30 .. N (32.5000)	35 09 .. E ( 35.1500)	460.0	JER



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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
MANM	R	Veracruz, Mexico IIM code MAN.	19 35 24.0 N (19.5900)	96 25 00.0 W ( 96.4167)	2.0	IIM
MARA		Maracay Venezuela opened 1984.	10 19 26.0 N (10.3239)	67 36 24.8 W ( 67.6069)	1200.0	CAR
MARB	R	Ma'rib Yemen	15 25 .. N (15.4167)	45 20 .. E ( 45.3333)	...	
MARI	R	Martimbang Sumatera, Indonesia	1 57 37.0 N ( 1.9603)	98 58 05.0 E ( 98.9681)	1679.8	DJA
MARM	R	Chiapas, Mexico IIM code MAR.	17 13 04.8 N (17.2180)	92 41 34.8 W ( 92.6930)	...	IIM
MART		Marith Tunisia	33 34 36.6 N (33.5768)	10 14 58.2 E ( 10.2495)	140.0	SBS
MARZ	RD	Manawahe North Island, New Zealand opened 19920615.	37 59 12.0 S (37.9867)	176 40 28.0 E (176.6744)	480.0	WEL
MASH	R	Mash'abbe Sade Israel	31 00 .. N (31.0000)	34 51 .. E ( 34.8500)	200.0	JER
MAVI		Loma El Joboban Dominican Republic opened 19860907.	19 14 44.4 N (19.2457)	69 54 42.0 W ( 69.9117)	...	SDD
MBAT	R	Mbeya Tanzania opened 199206.	8 52 26.4 S ( 8.8740)	33 27 10.2 E ( 33.4528)	1780.0	
MBET		Bethel Montserrat opened 198907.	16 44 29.0 N (16.7414)	62 09 47.2 W ( 62.1631)	350.0	TRN
MBH		Mount Berech Israel opened 19860618.	29 46 12.0 N (29.7700)	34 52 48.0 E ( 34.8800)	840.0	JER
MCEM	U	Central Site Tuolumne County, California, U.S.A. 19740419-19760609.	37 56 19.7 N (37.9388)	120 31 45.5 W (120.5293)	373.0	MNLO
MCMT		McKenzie Canyon Montana, U.S.A. opened 19890914.	44 49 39.6 N (44.8277)	112 50 55.8 W (112.8488)	2323.0	BUT
MCPQ	RD	Mount Cooper Queensland, Australia opened 19840223. QDM code MCP.	20 33 07.2 S (20.5520)	146 48 21.6 E (146.8060)	300.0	QDM
MCT		Monte Cammarata Sicilia, Italy	37 37 52.0 N (37.6311)	13 38 01.0 E ( 13.6336)	1565.0	ERC
MCWV	D	Mont Chateau West Virginia, U.S.A. opened 19910328.	39 39 29.2 N (39.6581)	79 50 44.2 W ( 79.8456)	280.0	USNN USTN
MDI		Monti di Nese Lombardia, Italy	45 46 38.0 N (45.7772)	9 42 41.0 E ( 9.7114)	...	ROM
MDL		Mandileni Cape Province, South Africa opened 1988.	30 42 36.0 S (30.7100)	28 48 00.0 E ( 28.8000)	1320.0	PRE
MDM		Murphy Dome Central Alaska, Alaska, U.S.A. opened 19900216.	64 57 31.8 N (64.9588)	148 13 46.2 W (148.2295)	634.0	GIA
MDO		Dochfour Scotland, United Kingdom opened 1981.	57 26 27.6 N (57.4410)	4 21 46.8 W ( 4.3630)	366.0	BGS
MDRJ		Muduarah Jordan opened 19900426.	29 26 31.2 N (29.4420)	35 49 12.0 E ( 35.8200)	900.0	JSO
MDSJ		Mudaysisat Jordan opened 19900107.	31 37 55.2 N (31.6320)	36 15 07.2 E ( 36.2520)	970.0	JSO
MDT	D	Midelt Morocco	32 49 01.2 N (32.8170)	4 36 50.4 W ( 4.6140)	...	CNRM MEDN
MEB	RD	Medea Algeria opened 1991.	36 00 .. N (36.0000)	3 00 .. E ( 3.0000)	...	MEDN
MECU	C	Ecuador Network (Micatambo) Ecuador	0 32 15.0 S ( 0.5375)	78 14 39.0 W ( 78.2442)	4090.0	QUI
MEDT		Meda Tunisia	34 06 29.4 N (34.1082)	9 55 13.2 E ( 9.9203)	90.0	SBS
MEEK		Meekatharra Western Australia, Australia opened 19920603.	26 38 16.2 S (26.6378)	118 36 52.2 E (118.6145)	530.0	AUST
MEKA	C	Meekatharra Western Australia, Australia 19860501-19910616.	26 36 51.1 S (26.6142)	118 32 01.0 E (118.5336)	390.0	AUST
MEMM	D	East Mammoth Hills Mono County, California, U.S.A. USTN opened 19920925. MNLO code MEM.	37 39 58.8 N (37.6663)	118 56 21.0 W (118.9392)	...	MNLO USTN
MEMT		Mount Ellis Montana, U.S.A. opened 19871015.	45 36 14.4 N (45.6040)	110 58 10.8 W (110.9697)	1951.0	BUT
MENF		Mencas Picardie, France	50 33 28.6 N (50.5579)	2 09 17.9 E ( 2.1550)	100.0	
MENI		Mendum Tagoi Irian Jaya, Indonesia opened 1991.	2 30 37.0 S ( 2.5103)	140 25 00.5 E (140.4168)	300.0	DJA



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MEP	Monte del Estado ..... Puerto Rico opened 199007.	18 08 45.0 N (18.1458)	66 58 52.0 W ( 66.9811)	...	MPR
MEU	Monte Lauro ..... Sicilia, Italy	37 06 04.0 N (37.1011)	14 55 48.0 E ( 14.9300)	985.0	ERC
MEW	McNeil Island ..... Washington, U.S.A. opened 198503.	47 12 07.0 N (47.2019)	122 38 45.0 W (122.6458)	98.0	SEA
MFI	Fishrie ..... Scotland, United Kingdom opened 1988.	57 36 41.8 N (57.6116)	2 17 43.1 W ( 2.2953)	220.0	BGS
MFTN	Millsfield ..... Tennessee, U.S.A.	36 09 39.6 N (36.1610)	89 23 34.8 W ( 89.3930)	113.0	SLM
MGR	D Morigerati ..... Campania, Italy	40 08 15.4 N (40.1376)	15 33 17.4 E ( 15.5548)	260.0	ROM
MGRP	R Monte Grappa ..... Veneto, Italy	...	...	...	TRI
MGU	Meadow Creek Golf Course ..... Salt Lake County, Utah, U.S.A. opened 19930624.	40 40 53.4 N (40.6815)	111 55 05.4 W (111.9182)	1291.0	SLC
MHD	Mile High Drive ..... Salt Lake County, Utah, U.S.A. opened 19901004.	40 39 38.4 N (40.6607)	111 48 03.0 W (111.8008)	1597.0	SLC
MHPQ	RD Mount Hope ..... Queensland, Australia opened 19840410. QDM code MHP.	21 23 45.6 S (21.3960)	146 48 07.2 E (146.8020)	200.0	QDM
MIAR	D Mount Ida ..... Arkansas, U.S.A. opened 19920923.	34 32 43.4 N (34.5454)	93 34 35.4 W ( 93.5765)	207.0	NEIS USNN USTN
MIF	Mishlifien ..... Morocco CNRM code MSH.	33 24 21.6 N (33.4060)	5 06 28.8 W ( 5.1080)	...	CNRM
MILG	Mill City ..... Mono County, California, U.S.A. opened 198107. MNLO code CMIL.	37 37 16.8 N (37.6213)	118 59 13.8 W (118.9872)	2536.0	CDMG
MILT	Milan ..... Tennessee, U.S.A. opened 198511.	35 50 56.0 N (35.8489)	88 43 58.4 W ( 88.7329)	146.0	TEIC
MIO	R Marion Island ..... Prince Edward Islands	46 57 30.0 S (46.9583)	37 54 00.0 E ( 37.9000)	10.0	PRE
MIRA	R Miradouro ..... Azores, Portugal	...	...	...	PDA
MISV	D Misoa ..... Venezuela	9 58 22.8 N ( 9.9730)	70 55 33.6 W ( 70.9260)	...	INTV
MIV	Mineville/Witherbee ..... New York, U.S.A. opened 198506.	44 04 27.0 N (44.0742)	73 31 48.0 W ( 73.5300)	...	PAL
MIYJ	R Miyako 2 ..... Honshu, Japan opened 19900423.	39 34 24.0 N (39.5733)	141 49 18.0 E (141.8217)	200.0	JMA
MJ2	Rockwell Inc. Station ..... Washington, U.S.A. opened 19890313.	46 33 28.0 N (46.5578)	119 21 50.0 W (119.3639)	150.0	SEA
MJMA	Al Majma'ah ..... Saudi Arabia opened 199003.	25 51 18.0 N (25.8550)	45 17 20.4 E ( 45.2890)	650.0	RYD
MLAC	D Mammoth Lakes Airport ..... Mono County, California, U.S.A. PAS code MLA.	37 37 51.6 N (37.6310)	118 50 02.4 W (118.8340)	2170.0	PAS
MLY	Manley ..... Central Alaska, Alaska, U.S.A. opened 19900925.	65 01 51.0 N (65.0308)	150 44 21.6 W (150.7393)	804.0	GIA
MMCZ	Mount Michael ..... South Island, New Zealand	45 00 13.0 S (45.0036)	169 07 52.7 E (169.1313)	1163.0	WELC
MME	Monte Simone ..... Emilia-Romagna, Italy	44 11 37.0 N (44.1936)	10 42 00.0 E ( 10.7000)	2160.0	ERC
MMI	F (Mercalli intensity descriptor)				
MML	Mount Malkishua ..... Israel opened 19860501.	32 26 06.3 N (32.4351)	35 24 47.9 E ( 35.4133)	510.0	JER
MMPM	Mammoth Pass ..... Fresno County, California, U.S.A. opened 19830826. MNLO code MMP.	37 36 36.0 N (37.6100)	119 01 40.8 W (119.0280)	2870.0	MNLO
MMR	Mount Meron ..... Israel opened 199105.	32 59 24.0 N (32.9900)	35 25 12.0 E ( 35.4200)	1108.0	JER
MNCI	R Minicoy ..... Lakshadweep, India	7 18 .. N ( 7.3000)	73 06 .. E ( 73.1000)	...	NDI
MNGI	R Mangalore ..... Karnataka, India	12 52 .. N (12.8667)	74 52 .. E ( 74.8667)	...	NDI
MNKH	R Manakhah ..... Yemen	15 03 54.6 N (15.0652)	43 45 00.0 E ( 43.7500)	...	
MNLM	R ..... Nuevo Leon, Mexico	...	...	...	UNM
MNO	Monte Soro ..... Sicilia, Italy	37 55 52.0 N (37.9311)	14 41 42.0 E ( 14.6950)	1840.0	ERC
MOC	C Mount Cameroon ..... Cameroon 19851123-1990. Moved to MOKC.	4 17 13.2 N ( 4.2870)	9 13 01.2 E ( 9.2170)	2475.0	YND



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MOCB	Mochara ..... Bolivia opened 199306.	21 15 01.8 S (21.2505)	65 38 16.8 W ( 65.6380)	3580.0	LPZ
MOE	Montemor-o-Novo ..... Portugal opened 19830219.	38 31 21.9 N (38.5228)	8 21 02.1 W ( 8.3506)	263.0	INMG
MOH	D Mohaka ..... North Island, New Zealand opened 19870319.	39 07 57.0 S (39.1325)	177 08 52.2 E (177.1478)	245.0	WELH
MOKC	R Mount Cameroon ..... Cameroon ( 4.2583) ( 9.2500)	4 15 30.0 N	9 15 00.0 E	2040.0	YND
MOKY	Morganfield ..... Kentucky, U.S.A. opened 1989.	37 28 49.2 N (37.4803)	87 54 03.6 W ( 87.9010)	204.0	BHKY
MOL	Molde ..... Norway opened 198702.	62 34 12.0 N (62.5700)	7 32 52.8 E ( 7.5480)	98.0	BER
MOLL	Mollejon ..... Venezuela opened 1984.	7 44 06.0 N ( 7.7350)	71 37 44.4 W ( 71.6290)	900.0	CAR
MOMI	Momias ..... Spain Also sent to NEIS by MDD.	36 19 18.0 N (36.3217)	5 43 14.4 W ( 5.7207)	344.0	SFS
MONL	Mont ..... Aquitaine, France (43.4328) ( 0.6506)	43 25 58.0 N	0 39 02.0 W	100.0	STR
MOOW	Moose Ponds ..... Wyoming, U.S.A. opened 198601.	43 44 54.9 N (43.7486)	110 44 41.4 W (110.7448)	2128.0	USBR
MOPM	Molcaxac ..... Puebla, Mexico UNM code MOP.	18 44 .. N (18.7333)	97 55 .. W ( 97.9167)	1840.0	UNM
MOQ	Mont Orford ..... Quebec, Canada opened 19910503.	45 18 43.2 N (45.3120)	72 15 14.8 W ( 72.2541)	841.0	ECTN
MOR1	C Moi Rana ..... Norway 1989-19891212.	66 14 14.8 N (66.2374)	14 46 19.5 E ( 14.7721)	650.0	BER
MOR2	C Moi Rana ..... Norway 1989-19891212.	66 14 11.6 N (66.2366)	14 46 26.6 E ( 14.7741)	...	BER
MOR3	U Moi Rana ..... Norway closed 19891212.	66 14 08.7 N (66.2357)	14 46 20.6 E ( 14.7724)	...	BER
MOR4	C Moi Rana ..... Norway 1989-19891212.	66 14 12.1 N (66.2367)	14 46 00.6 E ( 14.7668)	...	BER
MOR5	U Moi Rana ..... Norway closed 19891212.	66 14 15.8 N (66.2377)	14 45 59.0 E ( 14.7664)	...	BER
MOR6	C Mo i Rana ..... Norway 198602-19891212.	66 14 13.2 N (66.2370)	14 46 01.2 E ( 14.7670)	650.0	BER
MOR7	C Moi Rana ..... Norway 19900523-199308.	66 17 06.0 N (66.2850)	14 44 06.0 E ( 14.7350)	435.0	BER
MOR8	Mo i Rana ..... Norway opened 199308.	66 10 16.7 N (66.1713)	14 26 28.0 E ( 14.4411)	445.0	BER
MORC	RD ..... Czech Republic	...	...	...	
MORO	Morrocoy ..... Venezuela opened 1984.	10 52 19.9 N (10.8722)	68 18 57.6 W ( 68.3160)	920.0	CAR
MOTA	Moosalm ..... Austria opened 19910209.	47 20 41.3 N (47.3448)	11 06 13.4 E ( 11.1037)	1575.0	VIE
MOZ	D Mahoenui ..... North Island, New Zealand opened 19900426.	38 30 21.0 S (38.5058)	174 48 10.8 E (174.8030)	160.0	WEL
MPG	Monte Pellegrino ..... Sicilia, Italy opened 199403.	38 09 42.0 N (38.1617)	13 21 36.0 E ( 13.3600)	600.0	ERC
MPOR	Mary's Peak ..... Oregon, U.S.A. opened 199008. SEA code MPO.	44 30 17.4 N (44.5048)	123 33 00.6 W (123.5502)	1249.0	SEA
MQZ	D McQueen's Valley ..... South Island, New Zealand opened 19891011.	43 42 28.2 S (43.7078)	172 39 07.8 E (172.6522)	60.0	WEL
MRB	Montserrat ..... Spain (41.5948) ( 1.8372)	41 35 41.4 N	1 50 13.8 E	890.0	MRB
MRCM	Red Rock Canyon ..... Mono County, California, U.S.A. opened 19860723. MNLO code MRC.	37 40 18.0 N (37.6717)	118 30 22.8 W (118.5063)	2030.0	MNLO
MRFT	Murafatepe ..... Turkey opened 1992.	40 30 13.0 N (40.5036)	33 27 17.0 E ( 33.4547)	1500.0	DDA
MRH	D Marewa ..... North Island, New Zealand opened 19870319.	39 29 57.0 S (39.4992)	176 53 18.0 E (176.8883)	4.0	WELH



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MRPI	Mariponipon ..... Sumatera, Indonesia ( 1.6125)	1 36 45.0 N ( 1.6125)	99 19 02.0 E ( 99.3172)	1100.0	DJA
MRSJ	Marsad ..... Jordan opened 19900315.	29 41 06.0 N (29.6850)	35 19 19.2 E ( 35.3220)	810.0	JSO
MRX	D Morelia ..... Michoacan, Mexico opened 1988.	19 42 16.2 N (19.7045)	101 11 30.0 W (101.1917)	...	UNM
MRZ	RD Mangatainoka River ..... North Island, New Zealand opened 199206.	40 39 45.0 S (40.6625)	175 34 45.0 E (175.5792)	320.0	WEL
MSCZ	Moutere Station ..... South Island, New Zealand (45.0931)	45 05 35.0 S (45.0931)	169 24 42.0 E (169.4117)	701.0	WELC
MSDA	C Masada ..... Israel 199001-199105.	31 19 12.0 N (31.3200)	35 17 24.0 E ( 35.2900)	400.0	JER
MSEY	RD Mahe ..... Seychelles	...	...	...	IDA IRIS
MSF	R Maaselka ..... Finland (65.9111)	65 54 40.0 N (65.9111)	29 02 40.0 E ( 29.0444)	...	HEL
MSTB	Masset ..... British Columbia, Canada opened 19871204.	54 00 12.0 N (54.0033)	132 07 05.0 W (132.1181)	91.0	OTTR
MSVF	RD Monasavu ..... Fiji (18.0800)	18 04 48.0 S (18.0800)	178 15 00.0 E (178.2500)	...	SVA IDA IRIS
MTAT	F MTA--Mineral Research and Exploration Inst, Ankara				
MTHF	Mouthoumet ..... Languedoc-Rousillon, France opened 198901.	42 56 19.0 N (42.9386)	2 32 02.0 E ( 2.5339)	620.0	STR
MTLO	R Montello ..... Veneto, Italy opened 1987.	...	...	...	TRI
MTMW	Mount Mitchell ..... Washington, U.S.A. opened 198003. SEA code MTM.	46 01 31.8 N (46.0255)	122 12 42.0 W (122.2117)	1121.0	SEA
MTO	U Montecristo ..... El Salvador (14.3897)	14 23 23.0 N (14.3897)	89 24 18.0 W ( 89.4050)	1380.0	SSS
MTRD	R Mount Read ..... Tasmania, Australia (41.8470)	41 50 49.2 S (41.8470)	145 32 13.2 E (145.5370)	1080.0	TAU
MTST	R Ma-tsu ..... China (Taiwan) (26.0900)	26 05 24.0 N (26.0900)	119 33 36.0 E (119.5600)	113.0	TAP
MTUM	Tungsten Hills ..... Inyo County, California, U.S.A. opened 19841215. MNLO code MTU.	37 21 12.0 N (37.3533)	118 33 48.6 W (118.5635)	1810.0	MNLO
MTUR	Matau ..... Romania opened 198808.	45 13 34.0 N (45.2261)	25 03 47.0 E ( 25.0631)	1018.0	BUC
MUDI	Mud Lake ..... Idaho, U.S.A. opened 198601.	43 37 07.9 N (43.6189)	111 04 37.4 W (111.0771)	2124.0	USBR
MUDJ	..... Jordan (29.4220)	29 25 19.2 N (29.4220)	35 49 12.0 E ( 35.8200)	900.0	JSO
MUKH	R Al Mukha ..... Yemen (13.3150)	13 18 54.0 N (13.3150)	43 15 55.2 E ( 43.2653)	...	
MUKL	R Al Mukalla ..... Yemen (14.5333)	14 32 ... N (14.5333)	49 09 ... E ( 49.1500)	...	
MUNC	Munchique ..... Colombia ( 2.4693)	2 28 09.4 N ( 2.4693)	76 57 24.8 W ( 76.9569)	3007.0	INMG
MUX	Union Juarez ..... Chiapas, Mexico (15.0790)	15 04 44.4 N (15.0790)	92 04 26.4 W ( 92.0740)	...	UNM
MVIF	Mont Vial ..... Provence-Cote d'Azur, France (43.8963)	43 53 46.8 N (43.8963)	7 09 09.0 E ( 7.1525)	1480.0	STR
MVO	Moncorvo ..... Portugal opened 19800801.	41 09 52.0 N (41.1644)	7 01 43.9 W ( 7.0289)	860.0	INMG
MXC	Moxie City ..... Washington, U.S.A. opened 198410. SEA code MOX.	46 34 38.0 N (46.5772)	120 17 35.0 W (120.2931)	540.0	SEA
MYA	Malataya ..... Turkey (38.3261)	38 19 34.0 N (38.3261)	38 25 31.0 E ( 38.4253)	1050.0	ISK
MYNC	D Murphy ..... North Carolina, U.S.A. opened 19930331.	35 04 26.0 N (35.0739)	84 07 40.4 W ( 84.1279)	550.0	NEIS USNN
MZDA	Masada ..... Israel opened 199105.	31 19 12.0 N (31.3200)	35 17 24.0 E ( 35.2900)	-300.0	JER
NABI	R Nabire ..... Irian Jaya, Indonesia ( 3.3269)	3 19 37.0 S ( 3.3269)	135 14 25.0 E (135.2403)	...	DJA
NAC	Naches ..... Washington, U.S.A. (46.7344)	46 44 03.8 N (46.7344)	120 49 33.2 W (120.8259)	738.0	SEA
NAIN	C Natchez Trace State Park ..... Tennessee, U.S.A. 19850327-19870306.	35 51 21.6 N (35.8560)	88 14 24.0 W ( 88.2400)	198.0	TVA
NAIU	Northern Antelope Island ..... Davis County, Utah, U.S.A. opened 19911113.	41 00 58.2 N (41.0162)	112 13 40.8 W (112.2280)	1472.0	SLC
NAL	Nallihan ..... Turkey opened 1991.	40 12 13.0 N (40.2036)	31 18 17.0 E ( 31.3047)	1391.0	DDA



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NANS	Nanahuazin ..... El Salvador SSS code NAN.	13 42 54.0 N (13.7150)	89 30 33.0 W ( 89.5092)	1160.0	SSS
NANU	Nanutarra ..... Western Australia, Australia opened 19871022.	22 33 43.2 S (22.5620)	115 31 44.4 E (115.5290)	80.0	AUST
NAPF	R Napfberg ..... Bayern, Germany	49 53 19.4 N (49.8887)	12 03 06.2 E ( 12.0517)	695.0	
NAQJ	Ra's en Naqb ..... Jordan opened 19900315.	30 00 00.0 N (30.0000)	35 30 18.0 E ( 35.5050)	1640.0	JSO
NCA	C Nelchina ..... Central Alaska, Alaska, U.S.A. opened 19860717.	61 59 37.2 N (61.9937)	146 49 27.0 W (146.8242)	741.0	GIA
NCB	R Newcomb ..... New York, U.S.A.	43 58 15.0 N (43.9708)	74 13 25.0 W ( 74.2236)	500.0	PAL
NCG	North Capps Glacier ..... Western Alaska, Alaska, U.S.A. opened 19890807.	61 24 13.2 N (61.4037)	152 09 24.0 W (152.1567)	1244.0	AGS
NCOR	Newberry Crater ..... Oregon, U.S.A. opened 198709. SEA code NCO.	43 42 14.4 N (43.7040)	121 08 18.0 W (121.1383)	1908.0	SEA
NCT	North Crescent ..... Western Alaska, Alaska, U.S.A. opened 19880814.	60 33 42.0 N (60.5617)	152 55 46.8 W (152.9297)	1166.0	AGS
NDB	Naden ..... British Columbia, Canada	53 57 18.0 N (53.9550)	132 56 30.0 W (132.9417)	686.0	OTTR
NE01	CD Goteborg ..... Sweden 198302-198601.	57 48 03.6 N (57.8010)	12 07 55.2 E ( 12.1320)	55.0	NARS
NE02	D Monsted ..... Denmark opened 198302.	56 27 32.4 N (56.4590)	9 10 12.0 E ( 9.1700)	60.0	NARS
NE03	D Logumkloster ..... Denmark opened 198302.	55 02 42.0 N (55.0450)	9 09 10.8 E ( 9.1530)	25.0	NARS
NE04	D Witteveen ..... The Netherlands opened 198207.	52 48 48.0 N (52.8133)	6 40 06.0 E ( 6.6683)	17.0	NARS
NE05	D Utrecht ..... The Netherlands 198203-198406; reopened 198601.	52 05 16.8 N (52.0880)	5 10 19.2 E ( 5.1720)	2.0	NARS
NE06	D Dourbes ..... Belgium opened 198207.	50 05 49.2 N (50.0970)	4 35 42.0 E ( 4.5950)	225.0	NARS
NE07	D Villiers-Adam ..... Ile-de-France, France opened 198311.	49 04 27.8 N (49.0744)	2 13 54.8 E ( 2.2319)	70.0	NARS
NE08	CD Aigurande ..... Centre, France 198211-198412.	46 25 12.0 N (46.4200)	1 43 48.0 E ( 1.7300)	360.0	NARS
NE09	CD Les Eyzies ..... Aquitaine, France 198211-198602.	44 51 07.2 N (44.8520)	0 58 51.6 E ( 0.9810)	160.0	NARS
NE10	D Arette ..... Aquitaine, France opened 198211.	43 05 09.6 N (43.0860)	0 41 56.4 W ( 0.6990)	480.0	NARS
NE11	D Ainzon ..... Spain opened 1983.	41 48 50.4 N (41.8140)	1 31 01.2 W ( 1.5170)	440.0	NARS
NE11*	CD La Almunia ..... Spain 198305-198311.	41 28 37.2 N (41.4770)	1 22 19.2 W ( 1.3720)	370.0	NARS
NE12	CD Valle de los Caidos ..... Spain 198305-198502.	40 38 31.2 N (40.6420)	4 09 18.0 W ( 4.1550)	1280.0	NARS
NE13	D Puertollano ..... Spain opened 198305.	38 41 06.0 N (38.6850)	4 05 27.6 W ( 4.0910)	700.0	NARS
NE14	D Granada ..... Spain opened 198305.	37 11 24.0 N (37.1900)	3 35 42.0 W ( 3.5950)	774.0	NARS
NE15	D Valkenburg ..... The Netherlands opened 198406.	50 52 01.2 N (50.8670)	5 47 06.0 E ( 5.7850)	100.0	NARS
NE16	D Clermont Ferrand ..... Auvergne, France opened 198411.	45 45 46.0 N (45.7628)	3 06 09.0 E ( 3.1025)	80.0	NARS
NE17	D Toledo ..... Spain opened 198502.	39 52 53.0 N (39.8814)	4 02 55.0 W ( 4.0486)	480.0	NARS
NE18	D Les Rejaudoux ..... Limousin, France opened 198602.	45 18 16.0 N (45.3044)	1 30 59.0 E ( 1.5164)	410.0	NARS
NECR	R Nordeste de Costa Rica ..... Costa Rica	...	...	...	HDC
NEE	D Needles ..... California, U.S.A. opened 19930416.	34 49 22.8 N (34.8230)	114 35 45.6 W (114.5960)	...	PAS



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NEO	Neokhori ..... Greece opened 1988.	39 18 24.0 N (39.3067)	23 13 24.6 E ( 23.2235)	500.0	ATH
NGI	Nagai Island ..... Alaska Peninsula, Alaska, U.S.A.	55 02 21.6 N (55.0393)	160 04 09.0 W (160.0692)	240.0	PAL
NGJA	..... Assam, India	26 42 24.0 N (26.7067)	91 40 30.0 E ( 91.6750)	60.0	JHI
NGNA	Nongstoin ..... Meghalaya, India	25 31 18.0 N (25.5217)	91 16 19.2 E ( 91.2720)	...	JHI
NGP	R Nagpur ..... Maharashtra, India	21 09 .. N (21.1500)	79 03 .. E ( 79.0500)	311.0	NDI
NINI	Niniconang ..... Sulawesi, Indonesia opened 1991.	4 25 21.0 S ( 4.4225)	119 45 23.0 E (119.7564)	1463.0	DJA
NJJJ	R Nii-shima 2 ..... Bonin Islands, Japan	34 24 .. N (34.4000)	139 17 .. E (139.2833)	180.0	JMA
NKC	Novy Kostel ..... Czech Republic	50 13 58.8 N (50.2330)	12 26 52.8 E ( 12.4480)	...	PRU
NLO	Nicolai Mountain ..... Oregon, U.S.A.	46 05 18.0 N (46.0883)	123 27 00.0 W (123.4500)	900.0	SEA
NLW	Nelson Butte ..... Washington, U.S.A. opened 198505. SEA code NEL.	48 04 41.8 N (48.0783)	120 20 17.7 W (120.3383)	1490.0	SEA
NMCC	Northern Marianas College ..... Northern Marianas, Mariana Islands opened 199205.	15 09 00.0 N (15.1500)	145 42 57.6 E (145.7160)	100.0	
NMMO	New Madrid ..... Missouri, U.S.A.	36 35 16.8 N (36.5880)	89 33 07.2 W ( 89.5520)	90.0	SLM
NMUT	North Mineral ..... Beaver County, Utah, U.S.A. opened 198710.	38 30 59.4 N (38.5165)	112 51 00.0 W (112.8500)	1853.0	SLC
NOC	UD Noumea ..... New Caledonia 19851209-19871027.	22 17 02.4 S (22.2840)	166 25 55.2 E (166.4320)	5.0	NOU GEOS
NOCG	North-of-Casa ..... Mono County, California, U.S.A. opened 198407. MNLO code CNOC.	37 41 15.0 N (37.6875)	118 55 08.4 W (118.9190)	2475.0	CDMG
NOQ	North Oquirrh Mountains ..... Salt Lake County, Utah, U.S.A.	40 39 09.0 N (40.6525)	112 07 13.2 W (112.1203)	1622.0	SLC
NORC	R Norcasia ..... Colombia	5 35 47.0 N ( 5.5964)	74 53 34.6 W ( 74.8929)	508.0	INGM
NOTT	R Nottersdorf ..... Bayern, Germany	49 48 39.5 N (49.8110)	12 07 20.3 E ( 12.1223)	490.0	
NOUC	D Port Laguerre ..... New Caledonia opened 19880321.	22 06 03.0 S (22.1008)	166 18 10.8 E (166.3030)	112.3	NOU GEOS
NOZ	D North Gisborne ..... North Island, New Zealand opened 19900305.	38 37 04.8 S (38.6180)	178 02 12.0 E (178.0367)	60.0	WEL
NPRI	New Production Reactor ..... Idaho, U.S.A. opened 19900814.	43 35 51.0 N (43.5975)	112 49 37.8 W (112.8272)	1513.0	USGS
NRIL	D Norilsk ..... Krasnoyarskiy Kray, Russia	69 30 17.6 N (69.5049)	88 26 29.0 E ( 88.4414)	92.0	MOS IDA IRIS
NRZ	D Ngariki Road ..... North Island, New Zealand opened 199006.	39 20 15.0 S (39.3375)	173 55 59.0 E (173.9331)	250.0	WEL
NSD	Nasudden ..... Sweden opened 1991.	65 11 43.8 N (65.1955)	18 49 24.6 E ( 18.8235)	...	HFS
NSS	Namsos ..... Norway opened 198702.	64 31 48.0 N (64.5300)	11 58 01.2 E ( 11.9670)	102.0	BER
NTYM	D Taylor ..... Sonoma County, California, U.S.A. USTN opened 19920925. MNLO code NTY.	38 23 22.2 N (38.3895)	122 39 42.0 W (122.6617)	...	MNLO USTN
NUF	R ..... Finland	...	...	...	HEL
NUXM	R Nuxco ..... Guerrero, Mexico	17 12 39.0 N (17.2108)	100 45 16.8 W (100.7547)	80.0	UNM
NWC	North Woods Club ..... New York, U.S.A. opened 198610.	43 50 42.0 N (43.8450)	74 09 00.6 W ( 74.1502)	...	PAL
NWL	Newcastle ..... Natal, South Africa	27 43 14.5 S (27.7207)	29 57 11.2 E ( 29.9531)	1332.0	PRE
OAR	Oum el Arais ..... Tunisia SBS code OART.	34 31 54.0 N (34.5317)	8 23 48.6 E ( 8.3968)	475.0	SBS
OBC	Olympics--Bonidu Creek ..... Washington, U.S.A. opened 198007.	48 02 07.1 N (48.0353)	124 04 39.0 W (124.0775)	938.0	SEA
OBH	Olympics--Burnt Hill ..... Washington, U.S.A.	47 19 34.5 N (47.3262)	123 51 57.0 W (123.8658)	383.0	SEA
OBY	U Ambatonomby ..... Madagascar 197811-199102.	19 22 12.0 S (19.3700)	47 27 36.0 E ( 47.4600)	1624.0	TAN
OC2	Ocos 2 ..... Guatemala opened 198607.	14 33 37.8 N (14.5605)	92 11 10.3 W ( 92.1862)	5.0	GCG



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OCM	Ochomogo ..... Costa Rica	9 53 41.4 N ( 9.8948)	83 57 39.0 W ( 83.9608)	1660.0	HDC
OD2	Odessa Site #2 ..... Washington, U.S.A. opened 198906.	47 23 27.6 N (47.3910)	118 42 38.4 W (118.7107)	590.0	SEA
ODD1	Odda ..... Norway opened 19871203.	59 54 43.2 N (59.9120)	6 37 40.8 E ( 6.6280)	684.0	BER
ODZ	D Otahua Downs ..... South Island, New Zealand opened 19900831.	45 02 43.0 S (45.0453)	170 38 40.0 E (170.6444)	270.0	WEL
OFK	Olympics--Forks ..... Washington, U.S.A. opened 198007.	47 57 00.0 N (47.9500)	124 21 28.1 W (124.3578)	134.0	SEA
OGS	Ogasawara ..... Bonin Islands, Japan	27 03 24.5 N (27.0568)	142 12 10.4 E (142.2029)	20.0	
OGTN	C Old Graveyard Slough ..... Tennessee, U.S.A. closed 199306.	36 25 12.0 N (36.4200)	89 29 09.6 W ( 89.4860)	91.0	SLM
OHTN	Owl Hoot ..... Tennessee, U.S.A.	36 09 00.0 N (36.1500)	89 31 12.0 W ( 89.5200)	82.0	SLM
OIZ	RD Oio ..... North Island, New Zealand opened 199209.	39 02 48.0 S (39.0467)	175 23 33.0 E (175.3925)	470.0	WEL
OJC	Ojcow ..... Poland opened 199204.	50 13 10.3 N (50.2195)	19 47 54.4 E ( 19.7984)	391.0	WAR
OJEN	Ojen ..... Spain Also sent to NEIS by MDD.	36 06 00.0 N (36.1000)	5 32 13.2 W ( 5.5370)	804.0	SFS
OJOS	Ojo de Agua ..... El Salvador opened 199112.	13 51 48.0 N (13.8633)	89 14 12.0 W ( 89.2367)	645.0	SSS
OKC	Ostrava--Krasne Pole ..... Czech Republic opened 19940101.	49 50 07.0 N (49.8353)	18 08 32.0 E ( 18.1422)	250.0	
OKL	R Od Khalfella ..... Morocco	32 12 03.6 N (32.2010)	9 08 56.4 W ( 9.1490)	...	CNRM
OKTD	Tabubil ..... Papua New Guinea opened 1994.	5 20 54.2 S ( 5.3484)	141 17 30.1 E (141.2917)	518.0	PMG
OLLA	Las Ollas ..... Venezuela opened 1984.	10 01 08.4 N (10.0190)	66 48 14.4 W ( 66.8040)	947.0	CAR
OLQ	Olympics--Lake Quinalt ..... Washington, U.S.A. opened 198007.	47 39 58.1 N (47.6661)	123 48 31.5 W (123.8087)	121.0	SEA
OLT	Olot ..... Spain opened 1986. Sent to NEIS by MDD.	42 08 39.6 N (42.1443)	2 28 27.6 E ( 2.4743)	700.0	MRB
OLW	Olympia ..... Washington, U.S.A. opened 19860802	47 04 22.0 N (47.0728)	122 55 21.0 W (122.9225)	37.0	
OMWY	R Oxenhope Moor ..... England, United Kingdom	53 47 27.2 N (53.7909)	1 58 47.6 W ( 1.9799)	438.0	QMB
ONAJ	R Onahama 2 ..... Honshu, Japan opened 19900423.	37 07 00.0 N (37.1167)	140 47 54.0 E (140.7983)	660.0	JMA
ONF	Office National des Forets ..... Aquitaine, France opened 198502?	43 05 42.0 N (43.0950)	0 42 57.6 W ( 0.7160)	30.0	PAR
ONR	Olympics--North River ..... Washington, U.S.A. opened 198007.	46 52 37.5 N (46.8771)	123 46 16.5 W (123.7713)	257.0	SEA
OOW	Octopus West ..... Washington, U.S.A. opened 198406.	47 44 12.0 N (47.7367)	124 11 22.0 W (124.1894)	743.0	SEA
OR1	(Alternate Abbreviation for ORI)				
ORGA	Alberta, Canada ..... Sent to NEIS by PGC.	49 33 14.0 N (49.5539)	114 06 02.9 W (114.1008)	1257.0	
ORX	Oropa ..... Piemonte, Italy	45 37 57.0 N (45.6325)	7 58 54.0 E ( 7.9817)	1250.0	GEN
OSCM	Ostucan ..... Chiapas, Mexico UNM code OSC.	17 24 20.0 N (17.4056)	93 20 05.0 W ( 93.3347)	...	UNM
OSD	Olympics--Snow Dome ..... Washington, U.S.A. opened 198410.	47 49 15.0 N (47.8208)	123 42 06.0 W (123.7017)	2010.0	SEA
OSG	Oseberg A Platform ..... Norway opened 1988.	60 29 49.2 N (60.4970)	2 52 33.6 E ( 2.8760)	-100.0	BER
OSHJ	R Oshima ..... Bonin Islands, Japan opened 19911218.	34 44 48.0 N (34.7467)	139 22 00.0 E (139.3667)	76.0	JMA
OSM	R Ostula ..... Michoacan, Mexico	18 29 50.0 N (18.4972)	103 28 19.0 W (103.4719)	...	UNM
OSP	Olympics--Sooes Peak ..... Washington, U.S.A. opened 198310.	48 17 05.5 N (48.2849)	124 35 23.3 W (124.5898)	585.0	SEA

CODES



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
OSR	Olympics--Salmon Ridge ..... Washington, U.S.A. opened 19890913.	47 30 20.3 N (47.5056)	123 57 42.0 W (123.9617)	815.0	SEA
OT2	Othello ..... Washington, U.S.A. opened 198812.	46 43 17.0 N (46.7214)	119 14 05.0 W (119.2347)	355.0	SEA
OTR	Olympics--Tyee Ridge ..... Washington, U.S.A. opened 198406.	48 05 00.0 N (48.0833)	124 20 39.0 W (124.3442)	712.0	SEA
OTW	D Orongorongo Tunnel ..... North Island, New Zealand opened 19920728.	41 16 39.0 S (41.2775)	176 00 15.0 E (176.0042)	240.0	WEL
OUJ	..... Morocco (34.6570)	34 39 25.2 N (34.6570)	1 54 03.6 W ( 1.9010)	...	CNRM
OUK	Oukaïmedene ..... Morocco (31.2070)	31 12 25.2 N (31.2070)	7 52 30.0 W ( 7.8750)	...	CNRM
OUZ	Omahuta ..... North Island, New Zealand opened 19910312.	35 13 17.0 S (35.2214)	173 35 46.0 E (173.5961)	40.0	WEL
OWUT	Old Woman Plateau ..... Sevier County, Utah, U.S.A. opened 19890208.	38 46 48.0 N (38.7800)	111 25 25.2 W (111.4237)	2568.0	SLC
PAB	D San Pablo de los Montes ..... Spain (39.5458)	39 32 45.0 N (39.5458)	4 20 54.0 W ( 4.3483)	938.0	MDD IRIS
PACI	Pancar Gunung ..... Jawa, Indonesia opened 199110.	6 35 34.0 S ( 6.5928)	106 54 37.0 E (106.9103)	850.0	DJA
PACM	R La Paz ..... Baja California Sur, Mexico (21.1683)	21 10 06.0 N (21.1683)	110 12 42.0 W (110.2117)	...	UNM
PACW	Pacific Creek ..... Wyoming, U.S.A. opened 198601.	43 54 08.3 N (43.9023)	110 29 07.0 W (110.4853)	2140.0	USBR
PAGN	Pagan ..... Northern Marianas, Mariana Islands (18.0750)	18 04 30.0 N (18.0750)	145 43 51.6 E (145.7310)	540.0	
PAGV	Pagan Volcano ..... Northern Marianas, Mariana Islands (18.1250)	18 07 30.0 N (18.1250)	145 46 12.0 E (145.7700)	10.0	
PAHZ	Panekirikiri ..... North Island, New Zealand (38.8592)	38 51 33.0 S (38.8592)	177 03 15.0 E (177.0542)	563.0	WELH
PAKY	Paducah ..... Kentucky, U.S.A. opened 19901001.	37 03 25.2 N (37.0570)	88 46 19.2 W ( 88.7720)	76.0	BHKY
PALM	R Palmichal ..... Venezuela opened 1984.	10 12 16.6 N (10.2046)	64 26 19.7 W ( 64.4388)	1100.0	CAR
PALR	Palma Real ..... Venezuela opened 1984.	11 00 00.0 N (11.0000)	63 54 39.6 W ( 63.9110)	920.0	CAR
PALV	D Tres Palos ..... Venezuela (10.4490)	10 26 56.4 N (10.4490)	71 37 48.0 W ( 71.6300)	...	INTV
PAND	Andorre ..... Andorra (42.5225)	42 31 21.1 N (42.5225)	1 32 48.8 E ( 1.5469)	1857.0	STR
PANV	Panamint Range ..... Inyo County, California, U.S.A. opened 19880401.	36 23 54.0 N (36.3983)	117 05 57.0 W (117.0992)	1830.0	USGS
PARB	Paraibuna ..... Sao Paulo, Brazil opened 199312.	23 20 17.5 S (23.3382)	45 37 18.1 W ( 45.6217)	767.0	VAO
PARE	R Pico da Areia ..... Azores, Portugal opened 199110.	...	...	...	PDA
PASI	Pasiripis ..... Jawa, Indonesia opened 199110.	6 41 22.0 S ( 6.6894)	105 35 20.0 E (105.5889)	220.0	DJA
PATW	Paterson ..... Washington, U.S.A. SEA code PAT.	45 52 50.1 N (45.8806)	119 45 40.1 W (119.7611)	300.0	SEA
PATZ	D Paeroa ..... North Island, New Zealand opened 1991.	38 22 53.0 S (38.3814)	176 15 30.0 E (176.2583)	940.0	WELT
PAY	..... Mexico (17.4717)	17 28 18.0 N (17.4717)	93 29 28.8 W ( 93.4913)	...	UNM
PBG	R Petersburg ..... Alaska, U.S.A.	...	...	...	
PBOD	R Pico dos Bodes ..... Azores, Portugal	...	...	...	PDA
PCB	Port Clements ..... British Columbia, Canada (53.7061)	53 42 22.0 N (53.7061)	132 34 03.0 W (132.5675)	634.0	OTTR
PCBI	Pancar Batu ..... Sumatera, Indonesia ( 1.8900)	1 53 24.0 N ( 1.8900)	98 55 31.0 E ( 98.9253)	1000.0	DJA
PCG	Pacaya ..... Guatemala opened 198703.	14 23 37.7 N (14.3938)	90 36 26.3 W ( 90.6073)	2100.0	GCG
PCHP	R Portachuelo ..... Peru ( 6.0330)	6 01 58.8 S ( 6.0330)	79 40 58.8 W ( 79.6830)	150.0	LIM
PCID	Pole Creek ..... Idaho, U.S.A. opened 199212.	43 54 49.2 N (43.9137)	114 46 39.6 W (114.7777)	2262.0	
PCP	Pian Castagno-Ponzzone ..... Piemonte, Italy opened 19890315.	44 32 30.6 N (44.5418)	8 32 42.6 E ( 8.5452)	770.0	GEN



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PCRV		Puerto La Cruz ..... Venezuela (10.1762)	10 10 34.3 N (10.1762)	64 38 10.0 W ( 64.6361)	450.0	CAR
PCYT	R	P'eng-chia Yu ..... China (Taiwan) (25.6294)	25 37 46.0 N (25.6294)	122 04 16.5 E (122.0713)	101.7	TAP
PDCE		Pedra do Cavalo Reservoir ..... Bahia, Brazil opened 19870101.	12 31 52.8 S (12.5313)	39 07 21.0 W ( 39.1225)	220.0	VAO
PDEM	R	Puerto del Eden ..... Guerrero, Mexico (17.4632)	17 27 47.4 N (17.4632)	100 44 27 6 W (100.7410)	1620.0	UNM
PDHT	R	Panda Hill ..... Tanzania ( 8.9832)	8 58 59.4 S ( 8.9832)	33 14 30.0 E ( 33.2417)	1340.0	
PDU	RD	Peleduy ..... Irkutskaya Oblast, Russia (59.6000)	59 36 .. N (59.6000)	112 30 .. E (112.5000)	...	MOSR IDA IRIS
PDUI		Pindiu ..... New Guinea, Papua New Guinea opened 19880616.	6 26 49.2 S ( 6.4470)	147 30 39.6 E (147.5110)	950.0	PMG
PDY	R	Peleduy ..... Yakutskaya ASSR, Russia (59.6333)	59 38 00.0 N (59.6333)	112 42 01.0 E (112.7003)	...	
PECU	C	Ecuador Network ..... Ecuador ( 0.3950)	0 23 42.0 S ( 0.3950)	78 36 09.0 W ( 78.6025)	3550.0	QUI
PENI		Pendagan ..... Sumatera, Indonesia opened 199110.	5 34 00.0 S ( 5.5667)	105 10 16.0 E (105.1711)	200.0	DJA
PENM	R	..... Chiapas, Mexico IIM code PEN.	17 26 09.6 N (17.4360)	93 31 40.8 W ( 93.5280)	...	IIM
PEO	R	Puerto Escondido ..... Oaxaca, Mexico (15.8512)	15 51 04.2 N (15.8512)	97 03 19.8 W ( 97.0555)	3.0	UNM
PEP		Pantabangan ..... Luzon, Philippines (15.8110)	15 48 39.6 N (15.8110)	121 06 25.2 E (121.1070)	...	MAN
PERF		Col du Perthus ..... Languedoc-Rousillon, France opened 198901.	42 29 08.0 N (42.4856)	2 52 27.0 E ( 2.8742)	490.0	STR
PFH		Pahoa Fire House ..... Hawaii, Hawaii, U.S.A. opened 1986.	19 29 48.8 N (19.4969)	154 56 55.0 W (154.9486)	201.0	HON
PGAS	R	Pico do Gaspar ..... Azores, Portugal	...	...	...	PDA
PGB		Panagyurishte ..... Bulgaria opened 1988.	42 33 00.0 N (42.5500)	24 10 00.1 E ( 24.1667)	775.0	SOF
PGD		Poggio Sodo ..... Emilia-Romagna, Italy Also sent to NEIS by ROM.	43 52 31.0 N (43.8753)	11 43 17.0 E ( 11.7214)	1600.0	ERC
PGF		Pioggiola ..... Corse, France opened 19891115.	42 32 54.0 N (42.5483)	8 59 58.0 E ( 8.9994)	1130.0	LDG
PGO		Gresham ..... Oregon, U.S.A. opened 198206.	45 28 00.0 N (45.4667)	122 27 10.0 W (122.4528)	237.0	SEA
PGOM	R	Puerto del Gallo ..... Guerrero, Mexico	...	...	...	UNM
PGW		Port Gamble ..... Washington, U.S.A. opened 198504.	47 49 18.8 N (47.8219)	122 35 57.7 W (122.5994)	122.0	SEA
PGY		Peter Gray Mountain ..... New York, U.S.A. opened 198611.	43 42 27.6 N (43.7077)	74 02 42.6 W ( 74.0452)	...	PAL
PGZ	D	Pongaroa ..... North Island, New Zealand opened 198804.	40 37 07.8 S (40.6188)	176 16 25.2 E (176.2737)	60.0	WEL
PICO		Pico ..... Azores, Portugal opened 19880526.	38 30 03.0 N (38.5008)	28 25 32.0 W ( 28.4256)	775.0	PDA
PICS		Picacho ..... El Salvador opened 199112.	13 44 22.0 N (13.7394)	89 15 18.0 W ( 89.2550)	1960.0	SSS
PII	D	Pisa ..... Toscana, Italy (43.7212)	43 43 16.3 N (43.7212)	10 31 25.8 E ( 10.5238)	50.0	ROM
PINI		Pine Creek ..... Idaho, U.S.A. opened 198601.	43 30 27.4 N (43.5076)	111 20 44.6 W (111.3457)	1932.0	USBR
PINR		Pinar ..... Spain (36.4990)	36 29 56.4 N (36.4990)	6 07 06.0 W ( 6.1183)	10.0	SFS
PKA		Prieska ..... Cape Province, South Africa opened 199303.	29 40 12.0 S (29.6700)	22 45 24.0 E ( 22.7567)	960.0	PRE
PKD	R	Parkfield ..... California, U.S.A.	...	...	...	BRK
PKE	RD	Pukeiti ..... North Island, New Zealand (39.3894)	39 23 22.0 S (39.3894)	174 00 27.0 E (174.0075)	485.0	WEL
PKO		Pickens ..... Oklahoma, U.S.A. opened 19871016.	34 23 50.3 N (34.3973)	95 01 51.8 W ( 95.0311)	264.0	TUL
PLAT		Plata ..... Spain Also sent to NEIS by MDD.	36 07 15.6 N (36.1210)	5 45 30.6 W ( 5.7585)	460.0	SFS



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PLAV		Platillon ..... Venezuela opened 1984. CAR code PLAT.	9 52 26.4 N ( 9.8740)	67 30 08.6 W ( 67.5024)	1830.0	CAR
PLBC		Pleasant Camp ..... British Columbia, Canada opened 19900920.	59 27 24.0 N (59.4567)	136 21 54.0 W (136.3650)	280.0	OTTR
PLCA	R	Paso Flores ..... Rio Negro, Argentina proposed GTSN station.	40 43 50.0 S (40.7306)	70 33 00.0 W ( 70.5500)	950.0	
PLMI	R	Pala-Maneri ..... Uttar Pradesh, India opened 19871001.	30 50 30.0 N (30.8417)	78 37 45.0 E ( 78.6292)	1640.0	WIHG
PLML		Palmela ..... Portugal (38.5550)	38 33 18.0 N ( 8.9033)	8 54 12.0 W ( 8.9033)	216.0	INMG
PLR		Palermo ..... Sicilia, Italy (38.1440)	38 08 38.4 N ( 13.3477)	13 20 51.6 E ( 13.3477)	60.0	
PLRO	RD	Paularo ..... Friuli-Venezia Giulia, Italy opened 19880101.	46 32 59.0 N (46.5497)	13 08 53.0 E ( 13.1481)	1420.0	TRI
PMB	D	Pemberton ..... British Columbia, Canada opened 19930605.	50 31 07.7 N (50.5188)	123 04 35.4 W (123.0765)	400.0	OTTR
PMSA	D	Palmer Station ..... Antarctic Peninsula, Antarctica opened 199303.	64 46 27.1 S (64.7742)	64 02 56.4 W ( 64.0490)	10.0	IRIS
PN1	R	Presa Penitas No. 1 ..... Chiapas, Mexico (17.4690)	17 28 08.4 N ( 93.4880)	93 29 16.8 W ( 93.4880)	...	IIM
PN2	R	Presa Penitas No. 2 ..... Chiapas, Mexico (17.4380)	17 26 16.8 N ( 93.4505)	93 27 01.8 W ( 93.4505)	...	IIM
PN3	R	Presa Penitas No. 3 ..... Chiapas, Mexico (17.3540)	17 21 14.4 N ( 93.6080)	93 36 28.8 W ( 93.6080)	...	IIM
PN4	R	Presa Penitas No. 4 ..... Chiapas, Mexico (17.1790)	17 10 44.4 N ( 93.3950)	93 23 42.0 W ( 93.3950)	...	IIM
PN6	C	Pavlof North-6 ..... Alaska Peninsula, Alaska, U.S.A. closed 199007.	55 27 07.1 N (55.4520)	161 54 53.3 W (161.9148)	814.0	PAL
PNBI	R	Panbari ..... India ...	...	...	...	JHI
POA2		Poas 2 ..... Costa Rica opened 19860506.	10 10 37.8 N (10.1772)	84 15 03.0 W ( 84.2508)	2500.0	HDC
POBI	C	Pontebba ..... Friuli-Venezia Giulia, Italy 19830130-19880101.	46 30 48.0 N (46.5133)	13 16 36.0 E ( 13.2767)	860.0	TRI
POCI	R	Pocinhos ..... Azores, Portugal ...	...	...	...	PDA
POF		Pofadder ..... Cape Province, South Africa opened 1986.	29 22 54.0 S (29.3817)	19 57 00.0 E ( 19.9500)	...	PRE
POG	R	Pongola ..... South Africa ...	...	...	...	PRE
POGM	R	Potrero Grande ..... Guerrero, Mexico (17.3752)	17 22 30.6 N (17.3752)	100 37 16.8 W (100.6213)	650.0	UNM
PORM	R	..... Chiapas, Mexico UNM code POR. (17.1790)	17 10 44.4 N (17.1790)	93 23 42.0 W ( 93.3950)	...	UNM
PORP		Portuguez ..... Puerto Rico opened 198908.	18 03 13.7 N (18.0538)	66 38 13.2 W ( 66.6370)	218.0	MPR
POVO	R	Povoacao ..... Azores, Portugal ...	...	...	...	PDA
PPCY		Paphos ..... Cyprus opened 198702.	34 53 05.0 N (34.8847)	32 20 42.0 E ( 32.3450)	60.0	CSS
PPD		Presidente Prudente ..... Sao Paulo, Brazil opened 198802.	22 01 53.0 S (22.0314)	51 18 43.0 W ( 51.3119)	406.0	VAO
PPNM	R	Papanao ..... Guerrero, Mexico (17.3005)	17 18 01.8 N (17.3005)	101 02 16.2 W (101.0378)	260.0	UNM
PPOM	R	El Papayo ..... Guerrero, Mexico (17.0200)	17 01 12.0 N (17.0200)	100 14 24.0 W (100.2400)	100.0	UNM
PRAC		Prado ..... Colombia ( 3.6952)	3 41 42.9 N ( 3.6952)	74 54 04.6 W ( 74.9013)	414.0	INGM
PRAV	D	El Prado ..... Venezuela ( 9.2330)	9 13 58.8 N ( 9.2330)	70 51 03.6 W ( 70.8510)	...	INTV
PRP		Porcupine Dome ..... Central Alaska, Alaska, U.S.A. opened 19900216. GIA code PPD.	65 31 04.2 N (65.5178)	145 31 20.4 W (145.5223)	1498.0	GIA
PRSC	R	..... Czech Republic (49.0150)	49 00 54.0 N (49.0150)	18 33 14.4 E ( 18.5540)	...	PRU
PS4		Pavlof South-4 ..... Alaska Peninsula, Alaska, U.S.A. (55.3540)	55 21 14.3 N (55.3540)	161 52 05.5 W (161.8682)	520.0	PAL
PSG2		Puerto de San Jose 2 ..... Guatemala (13.9522)	13 57 07.8 N (13.9522)	90 48 55.8 W ( 90.8155)	5.0	GCG
PSL	R	Pistoia ..... Toscana, Italy (44.0078)	44 00 28.0 N (44.0078)	10 57 56.0 E ( 10.9656)	810.0	PRT
PSM		Palmasola ..... Oaxaca, Mexico opened 199001.	16 42 17.4 N (16.7048)	95 02 27.6 W ( 95.0410)	750.0	UNM



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PSR		Paul Sauer Dam ..... Cape Province, South Africa opened 1988.	33 40 48.0 S (33.6800)	24 24 36.0 E ( 24.4100)	360.0	PRE
PTF	R	Prato ..... Toscana, Italy	43 57 34.0 N (43.9594)	11 04 11.0 E ( 11.0697)	550.0	PRT
PTGA	R	Pitinga ..... Brazil	...	...	...	BDF
PTH		Pithoragarh ..... Uttar Pradesh, India	29 33 .. N (29.5500)	80 13 .. E ( 80.2167)	1669.0	NDI
PTS		Isola di Pantelleria ..... Italy	36 48 25.9 N (36.8072)	11 59 34.4 E ( 11.9929)	150.0	ERC
PTT		Piatra Neamt ..... Romania opened 19870115.	46 56 05.0 N (46.9347)	26 23 10.0 E ( 26.3861)	350.0	BUC
PUCA	R	Punta Cana ..... Dominican Republic	18 35 16.8 N (18.5880)	68 24 10.2 W ( 68.4028)	...	SDD
PUEM	R	..... Puebla, Mexico	...	...	...	UNM
PULI		Pulasari ..... Jawa, Indonesia	6 20 42.0 S ( 6.3450)	105 58 32.0 E (105.9756)	1346.0	DJA
PURC		Volcan Purace ..... Colombia opened 1987.	2 19 19.8 N ( 2.3222)	76 21 42.0 W ( 76.3617)	3950.0	UVC
PUYF		Puyloubier ..... Provence-Cote d'Azur, France	43 31 56.3 N (43.5323)	5 42 01.1 E ( 5.7003)	460.0	STR
PUZ	D	Puketiti ..... North Island, New Zealand opened 19891211.	38 04 24.0 S (38.0733)	178 15 25.8 E (178.2572)	420.0	WEL
PVF		Pernaja ..... Finland opened 19910611.	60 32 42.4 N (60.5451)	25 51 41.8 E ( 25.8616)	45.0	HEL
PVRC		Palos Verdes ..... Los Angeles County, California, U.S.A. opened 19810930. PVR was moved more than 1 km. PVRC is new location.	33 45 07.8 N (33.7522)	118 22 13.8 W (118.3705)	183.0	PAS
PVV		Pavlof Volcano ..... Alaska Peninsula, Alaska, U.S.A.	55 22 27.1 N (55.3742)	161 47 23.9 W (161.7900)	164.0	PAL
PWTG		Paul Wright Trailer ..... Mono County, California, U.S.A. opened 19791115. MNLO code CPWT.	38 16 38.4 N (38.2773)	119 15 08.4 W (119.2523)	1996.0	CDMG
PXO	R	..... Oaxaca, Mexico	15 44 52.2 N (15.7478)	96 18 10.8 W ( 96.3030)	25.0	UNM
PZCI		Patelzick Creek ..... Idaho, U.S.A.	44 20 27.6 N (44.3410)	112 19 01.2 W (112.3170)	2073.0	USGS
PZZ		Prazzo (Stroppio) ..... Piemonte, Italy	44 30 18.0 N (44.5050)	7 06 04.8 E ( 7.1013)	1420.0	GEN
QAP	F	(phase code designation)				
QASM		Qassim ..... Saudi Arabia opened 198801.	26 05 24.0 N (26.0900)	43 31 58.8 E ( 43.5330)	675.0	RYD
QDM	F	Queensland Dept. of Mines, Australia				
QHW	R	Quartz Hill ..... North Island, New Zealand opened 19851015.	41 15 07.0 S (41.2519)	174 41 26.0 E (174.6906)	190.0	WELW
QIS		Mount Isa ..... Queensland, Australia opened 19870615.	20 33 27.7 S (20.5577)	139 36 18.7 E (139.6052)	330.0	AUST
QLP		Quilpie ..... Queensland, Australia opened 19890812.	26 35 01.3 S (26.5837)	144 14 05.3 E (144.2348)	210.0	AUST
QPCP	F	(phase code designation)				
QPCS	F	(phase code designation)				
QPKP	F	(phase code designation)				
QPP	F	(phase code designation)				
QPPP	F	(phase code designation)				
QPPS	F	(phase code designation)				
QPSS	F	(phase code designation)				
QRHJ	R	..... Jordan	29 41 06.0 N (29.6850)	35 19 19.2 E ( 35.3220)	810.0	JSO
QRI		Quarto ..... Campania, Italy	40 52 40.8 N (40.8780)	14 08 44.9 E ( 14.1458)	...	ROM
QRZ	D	Quartz Range ..... South Island, New Zealand opened 1991.	40 49 39.0 S (40.8275)	172 31 44.0 E (172.5289)	260.0	WEL
QSCP	F	(phase code designation)				
QSCS	F	(phase code designation)				
QSKP	F	(phase code designation)				
QSKS	F	(phase code designation)				
QSPP	F	(phase code designation)				
QSSP	F	(phase code designation)				
QSSS	F	(phase code designation)				
QTBJ		(Alternate Abbreviation for CSTJ)				
QTFJ		Qatafi ..... Jordan opened 19900305.	31 49 22.8 N (31.8230)	37 28 48.0 E ( 37.4800)	648.0	JSO
QTRJ		Qatrana ..... Jordan opened 19880220.	31 18 00.0 N (31.3000)	36 00 36.0 E ( 36.0100)	876.0	JSO



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QUES R	Loma Quita Espuela ..... Dominican Republic opened 19860902.	19 21 10.8 N (19.3530)	70 08 52.8 W ( 70.1480)	...	SDD
QUIL	Quilotoa ..... Ecuador opened 1991.	0 45 25.2 S ( 0.7570)	78 55 30.7 W ( 78.9252)	3430.0	QUI
QUND	..... Ecuador opened 199404.	0 19 00.6 N ( 0.3168)	79 28 50.4 W ( 79.4807)	330.0	QUI
QUTJ	Qutrana ..... Jordan opened 1987.	31 17 55.2 N (31.2987)	36 00 36.0 E ( 36.0100)	876.0	JSO
QVP	Quezon City--PHIVOLCS ..... Luzon, Philippines opened 1991.	14 37 22.8 N (14.6230)	121 00 14.4 E (121.0040)	15.0	MAN
QXP F	(phase code designation)				
QXS F	(phase code designation)				
QZA	Quezalapa ..... El Salvador (13.5239) ( 88.9969)	13 31 26.0 N (13.5239)	88 59 49.0 W ( 88.9969)	250.0	SSS
RAMW	Rammel Mountain ..... Wyoming, U.S.A. opened 198601.	43 53 20.3 N (43.8890)	110 57 00.8 W (110.9502)	2512.0	USBR
RANB	Rancho Bola ..... Spain opened 199304.	36 37 59.4 N (36.6332)	6 08 18.6 W ( 6.1385)	120.0	SFS
RANI	Rangdo ..... Bali, Nusa Tenggara, Indonesia ( 8.4525) (114.9494)	8 27 09.0 S ( 8.4525)	114 56 58.0 E (114.9494)	500.0	DJA
RATI	Rata ..... Bali, Nusa Tenggara, Indonesia ( 8.7233) (115.5322)	8 43 24.0 S ( 8.7233)	115 31 56.0 E (115.5322)	400.0	DJA
RC1	Royal City ..... Washington, U.S.A. opened 19880527.	46 56 36.0 N (46.9433)	119 26 00.0 W (119.4333)	500.0	SEA
RCJ	Ross Creek ..... Wasatch County, Utah, U.S.A. opened 19921030.	40 39 30.0 N (40.6583)	111 26 18.6 W (111.4385)	2097.0	SLC
RCP2	Recreation Park ..... Los Angeles County, California, U.S.A. opened 19850322. MNLO code RCPS.	33 46 39.6 N (33.7777)	118 08 00.0 W (118.1333)	-85.0	USC
RCS	Mount Rainier--Camp Schurman ..... Washington, U.S.A. opened 19890627.	46 52 15.6 N (46.8710)	121 43 52.0 W (121.7311)	2877.0	SEA
RDN	Redoubt North ..... Western Alaska, Alaska, U.S.A. opened 1988.	60 30 49.8 N (60.5138)	152 45 46.8 W (152.7630)	1372.0	AGS
RDO	Rodhopi ..... Greece opened 1988.	41 08 46.2 N (41.1462)	25 32 15.0 E ( 25.5375)	100.0	ATH
RDW	Redoubt West ..... Western Alaska, Alaska, U.S.A. opened 19900907.	60 28 57.6 N (60.4827)	152 48 34.2 W (152.8095)	1813.0	AGS
RDX	Rancho Dowling ..... Baja California, Mexico opened 19880929.	31 55 56.4 N (31.9323)	115 56 51.0 W (115.9475)	1680.0	ECX
RE1	(Alternate Abbreviation for RCL)				
RECU	(Alternate Abbreviation for VCL)				
REDW	Red Top Meadow ..... Wyoming, U.S.A. opened 198601.	43 21 44.6 N (43.3624)	110 51 06.4 W (110.8518)	2192.0	USBR
REF	Redoubt East Flank ..... Western Alaska, Alaska, U.S.A. opened 19900314.	60 29 21.0 N (60.4892)	152 42 06.0 W (152.7017)	1801.0	AGS
REMR	Mt. Rainier--Emerald Ridge ..... Washington, U.S.A. opened 19890712. SEA code RER.	46 49 09.2 N (46.8192)	121 50 27.3 W (121.8409)	1756.0	SEA
REMW	Rembrandt ..... Washington, U.S.A. opened 198701. SEA code REM.	46 11 57.0 N (46.1992)	122 11 03.0 W (122.1842)	2102.0	SEA
RER D	La Plaine-des-Cafres ..... Reunion GEOS opened 19860210.	21 09 36.0 S (21.1600)	55 45 00.0 E ( 55.7500)	834.0	PAR GEOS
REVF	Revere ..... Provence-Cote d'Azur, France (43.7400) ( 7.3675)	43 44 24.0 N (43.7400)	7 22 03.0 E ( 7.3675)	700.0	STR
RFI	Roccamonfina ..... Campania, Italy (41.3004) ( 13.9848)	41 18 01.6 N (41.3004)	13 59 05.2 E ( 13.9848)	...	ROM
RFSB R	Richmond Field ..... ...	...	...	...	BRK
RGRS	Roger Stewart ..... South Carolina, U.S.A. opened 19860601. GLD code RGR.	32 54 19.8 N (32.9055)	80 11 37.7 W ( 80.1938)	-52.0	USGS
RGS	Rognes ..... Norway opened 19851222.	63 01 15.6 N (63.0210)	10 26 06.0 E ( 10.4350)	120.0	BER
RIFB D	Rifaina ..... Sao Paulo, Brazil opened 199301.	20 04 25.3 S (20.0737)	47 30 06.8 W ( 47.5019)	860.0	VAO
RIN2 C	Rincon de la Vieja 2 ..... Costa Rica 19870520-19880826. Replaced by RIN3.	10 49 06.6 N (10.8185)	85 20 58.2 W ( 85.3495)	1400.0	HDC



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RIN3	Rincon de la Vieja 3 ..... Costa Rica opened 19880826.	10 47 27.0 N (10.7908)	85 22 43.2 W ( 85.3787)	900.0	HDC
RIY	Rijeka ..... Croatia opened 19890504.	45 20 38.4 N (45.3440)	14 23 09.6 E ( 14.3860)	75.0	ZAG
RND	D Reindeer ..... Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 24 22.2 N (63.4062)	148 51 10.2 W (148.8528)	991.0	GIA USTN
RNO	Roman Nose ..... Oregon, U.S.A. opened 199109.	43 54 44.0 N (43.9122)	123 44 26.0 W (123.7406)	875.0	SEA
ROBI	R Boca de Chavon ..... Dominican Republic opened 19860923.	18 24 36.0 N (18.4100)	68 50 24.0 W ( 68.8400)	...	SDD
ROKY	R Rotten Point ..... Kentucky, U.S.A.	37 54 32.4 N (37.9090)	83 55 33.6 W ( 83.9260)	433.0	BHKY
ROSA	Rosais ..... Azores, Portugal opened 198907.	38 43 15.0 N (38.7208)	28 14 49.0 W ( 28.2469)	310.0	PDA
ROSC	El Rosal ..... Colombia	4 51 22.8 N ( 4.8563)	74 19 48.4 W ( 74.3301)	3017.0	INGM
ROTZ	R Rotzenmuhle ..... Bayern, Germany	49 46 39.5 N (49.7777)	12 12 30.1 E ( 12.2084)	430.0	
RPN	D Rapa Nui ..... Easter Island, Valparaiso, Chile opened 198707.	27 07 36.0 S (27.1267)	109 20 04.0 W (109.3344)	110.0	SAN IDA IRIS
RPV	D Rancho Palos Verdes ..... California, U.S.A. opened 1993.	33 44 37.8 N (33.7438)	118 24 12.6 W (118.4035)	...	PAS
RPW	Rockport ..... Washington, U.S.A.	48 26 54.0 N (48.4483)	121 30 49.0 W (121.5136)	850.0	SEA
RRI2	D Red Ridge ..... Idaho, U.S.A. opened 19860702.	43 21 50.4 N (43.3640)	111 19 08.4 W (111.3190)	2566.0	REX USTN
RRL	Cesana Torinese ..... Piemonte, Italy	44 55 12.6 N (44.9202)	6 47 04.2 E ( 6.7845)	2131.0	GEN
RS1	Redoubt South No. 1 ..... Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 36.6 N (60.4602)	152 45 28.8 W (152.7580)	1864.0	AGS
RS2	Redoubt South No. 2 ..... Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 46.8 N (60.4630)	152 45 26.4 W (152.7573)	1953.0	AGS
RSA	Sar-Sar ..... Morocco	34 53 10.0 N (34.8861)	5 49 30.0 W ( 5.8250)	...	CNRM
RSD	Rainshed ..... Hawaii, Hawaii, U.S.A. (Alternate Abbreviation for JRSJ)	19 27 46.8 N (19.4630)	155 16 40.8 W (155.2780)	1270.0	HVO
RSHJ	Repubblica di San Marino ..... San Marino opened 1988.	43 55 39.7 N (43.9277)	12 27 08.4 E ( 12.4523)	...	ROM
RSO	Redoubt South ..... Western Alaska, Alaska, U.S.A. opened 19900301.	60 27 43.8 N (60.4622)	152 45 13.8 W (152.7538)	1921.0	AGS
RSP	Reno Superiore ..... Piemonte, Italy	45 09 06.0 N (45.1517)	7 15 25.8 E ( 7.2572)	1250.0	GEN
RSTA	Tijuco Alto ..... Parana, Brazil opened 1992.	24 39 03.0 S (24.6508)	49 01 57.8 W ( 49.0327)	248.0	VAO
RTC	Rabat Centre ..... Morocco	33 58 .. N (33.9667)	6 50 .. W ( 6.8333)	...	CNRM
RTMM	R Retamim ..... Israel	31 03 00.0 N (31.0500)	34 40 48.0 E ( 34.6800)	200.0	JER
RUP	Ruppelstein ..... Rheinland-Pfalz, Germany	49 42 06.0 N (49.7017)	7 03 37.0 E ( 7.0603)	750.0	KRW
RUSC	La Rusia ..... Colombia	5 55 37.7 N ( 5.9271)	73 04 31.7 W ( 73.0755)	3356.0	INGM
RUWJ	Ruweishid ..... Jordan opened 19891002.	32 28 30.0 N (32.4750)	38 24 07.2 E ( 38.4020)	751.0	JSO
RUZ	CD Raurimu ..... North Island, New Zealand 19900814-199206.	39 07 37.0 S (39.1269)	175 20 16.0 E (175.3378)	450.0	WEL
RVC	Mount Rainier--Voight Creek ..... Washington, U.S.A. opened 198301.	46 56 34.5 N (46.9429)	121 58 17.3 W (121.9715)	1000.0	SEA
RVVM	R Revivim ..... Israel	31 02 24.0 N (31.0400)	34 43 12.0 E ( 34.7200)	200.0	JER
RVW	Rose Valley ..... Washington, U.S.A. opened 198102.	46 08 58.2 N (46.1495)	122 44 37.2 W (122.7437)	460.0	SEA
RYD	Riyadh ..... Saudi Arabia opened 1986.	24 43 12.0 N (24.7200)	46 36 36.0 E ( 46.6100)	650.0	RYD
RZN	Rozhen ..... Bulgaria opened 1988.	41 41 16.8 N (41.6880)	24 42 57.6 E ( 24.7160)	1730.0	SOF
SACA	Loma Carmona ..... Dominican Republic opened 19860712.	18 58 39.0 N (18.9775)	69 40 49.2 W ( 69.6803)	...	SDD



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SADA	R	Sad'ah ..... Yemen (16.9373)	16 56 14.4 N (16.9373)	43 45 19.8 E ( 43.7555)	...	
SADC	D	Saddle Peak ..... Los Angeles County, California, U.S.A. opened 197308. PAS code SAD.	34 04 51.6 N (34.0810)	118 39 54.0 W (118.6650)	732.0	PAS
SADO	RD	Sadowa ..... Ontario, Canada opened 19931203.	44 46 09.8 N (44.7694)	79 08 30.1 W ( 79.1417)	243.0	OTT
SAE		Statte ..... Puglia, Italy (40.5619)	40 33 43.0 N (40.5619)	17 12 22.0 E ( 17.2061)	...	ROM
SAGI		Saggi Highlands ..... Israel (30.2200)	30 13 12.0 N (30.2200)	34 39 36.0 E ( 34.6600)	560.0	JER
SAIU		Southern Antelope Island ..... Davis County, Utah, U.S.A. opened 19900510.	40 51 17.4 N (40.8548)	112 10 53.4 W (112.1815)	1384.0	SLC
SAJV	D	Sajaritas ..... Venezuela (10.3650)	10 21 54.0 N (10.3650)	71 21 03.6 W ( 71.3510)	...	INTV
SALC		Salvajina ..... Colombia ( 2.9729)	2 58 22.5 N ( 2.9729)	76 41 42.6 W ( 76.6952)	1430.0	UVC
SALF		Salau ..... Midi-Pyrenees, France opened 198901.	42 45 36.0 N (42.7600)	1 11 22.0 E ( 1.1894)	900.0	STR
SANA	R	San'a ..... Yemen (15.4000)	15 24 .. N (15.4000)	44 14 .. E ( 44.2333)	...	
SANU	R	Sandwick ..... Shetland Islands, United Kingdom opened 1985.	60 01 03.4 N (60.0176)	1 14 19.0 W ( 1.2386)	150.0	BGS
SAOF		Saorge ..... Provence-Cote d'Azur, France (43.9864)	43 59 11.0 N (43.9864)	7 33 19.0 E ( 7.5553)	600.0	STR
SAON	R	Isla Saona ..... Dominican Republic (18.1833)	18 11 .. N (18.1833)	68 46 .. W ( 68.7667)	...	SDD
SAPN		Saipan ..... Northern Marianas, Mariana Islands 1991-19920309. reopened 199308. Sent to NEIS by HVO.	15 12 25.2 N (15.2070)	145 44 52.8 E (145.7480)	250.0	
SARO		Sassorosso ..... Emilia-Romagna, Italy opened 199205.	44 11 05.4 N (44.1848)	10 24 05.4 E ( 10.4015)	1030.0	GEN
SASA		Sand Point ..... Alaska Peninsula, Alaska, U.S.A. PAL code SAS.	55 20 24.0 N (55.3400)	160 29 49.8 W (160.4972)	23.0	PAL
SATS		Thornton Park ..... Orange County, California, U.S.A. opened 198702. USC code SAT.	33 42 28.2 N (33.7078)	117 53 25.8 W (117.8905)	-370.0	USC
SBCZ		Sonora Basin ..... South Island, New Zealand (45.0922)	45 05 32.0 S (45.0922)	169 18 40.0 E (169.3111)	801.0	WELC
SBG		Sibinal ..... Guatemala opened 198603.	15 07 55.2 N (15.1320)	92 03 12.6 W ( 92.0535)	2860.0	GCG
SBM		South Baldy ..... New Mexico, U.S.A. SNM code SB.	33 58 30.6 N (33.9752)	107 10 50.4 W (107.1807)	3230.0	SNM
SBO		Springbok ..... Cape Province, South Africa (29.6698)	29 40 11.2 S (29.6698)	17 52 44.0 E ( 17.8789)	1055.0	PRE
SCRV		San Cristobal ..... Venezuela ( 7.7889)	7 47 20.0 N ( 7.7889)	72 11 30.1 W ( 72.1917)	818.0	CAR
SCSP	F	(phase code designation)				
SCX		San Cristobal de las Casas ..... Chiapas, Mexico opened 1987.	16 44 09.0 N (16.7358)	92 38 04.2 W ( 92.6345)	...	UNM
SCZ	D	Santa Cruz ..... California, U.S.A. opened 19861106.	36 36 .. N (36.6000)	121 24 .. W (121.4000)	261.0	GEOS
SDF		Sodankyla ..... Finland opened 19841219.	67 25 13.1 N (67.4203)	26 23 37.0 E ( 26.3936)	276.5	HEL
SDG		Sourdough ..... Central Alaska, Alaska, U.S.A. opened 1986.	62 31 37.2 N (62.5270)	145 32 36.0 W (145.5433)	625.0	GIA
SDI		San Donato Val di Comino ..... Lazio, Italy (41.7058)	41 42 21.0 N (41.7058)	13 48 55.5 E ( 13.8154)	720.0	ROM
SDOM		Mount Sodom ..... Israel (31.0800)	31 04 48.0 N (31.0800)	35 23 24.0 E ( 35.3900)	-200.0	JER
SEI	R	Scarperia ..... Toscana, Italy (44.0544)	44 03 16.0 N (44.0544)	11 21 23.0 E ( 11.3564)	610.0	PRT
SEJ	R	Sejong Station ..... South Shetland Islands, Antarctica (62.2208)	62 13 15.0 S (62.2208)	58 45 10.0 W ( 58.7528)	18.0	
SEMI		Semponon ..... Sumatera, Indonesia ( 2.4603)	2 27 37.0 N ( 2.4603)	98 23 30.0 E ( 98.3917)	1750.0	DJA
SFI		Santa Sofia ..... Emilia-Romagna, Italy opened 1987.	43 55 15.6 N (43.9210)	11 51 07.2 E ( 11.8520)	...	ROM
SGE		San Diego Bay ..... Alaska Peninsula, Alaska, U.S.A. (55.5458)	55 32 45.0 N (55.5458)	160 27 13.8 W (160.4538)	275.0	
SGI	C	San Gemini ..... Italy	...	...	...	
SGKT		Sivrigoyuk ..... Turkey opened 1992.	40 34 26.0 N (40.5739)	32 03 21.0 E ( 32.0558)	1890.0	DDA



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SGNT	Sidi Gnaou ..... Tunisia (33.6608)	33 39 39.0 N (33.6608)	9 52 12.6 E ( 9.8702)	90.0	SBS
SGZ	RD Semigandzh ..... Tajikistan (38.6500)	38 39 .. N (38.6500)	69 00 .. E ( 69.0000)	...	MOS IDA IRIS
SHBJ	Al Shahba ..... Jordan 19871024-19890326. (32.3025)	32 18 09.0 N (32.3025)	37 49 40.8 E ( 37.8280)	960.0	JSO
SHGH	Shai Hills ..... Ghana opened 1987. ( 5.9283)	5 55 42.0 N ( 5.9283)	0 02 31.0 W ( 0.0419)	84.0	KUK
SHMJ	Saham ..... Jordan opened 19890828. (32.7270)	32 43 37.2 N (32.7270)	35 45 50.4 E ( 35.7640)	363.0	JSO
SHRJ	R Shirakawa 2 ..... Honshu, Japan opened 19900424. (37.0767)	37 04 36.0 N (37.0767)	140 14 00.0 E (140.2333)	395.0	JMA
SHWJ	Shawbak ..... Jordan opened 19891101. (30.3830)	30 22 58.8 N (30.3830)	35 30 00.0 E ( 35.5000)	1734.0	JSO
SIBI	Sibayak Dolok ..... Sumatera, Indonesia opened 199110. ( 3.2408)	3 14 27.0 N ( 3.2408)	98 30 16.0 E ( 98.5044)	2050.0	DJA
SILC	Silvia ..... Colombia opened 1990. ( 2.6880)	2 41 16.8 N ( 2.6880)	76 20 22.8 W ( 76.3397)	3150.0	UVC
SIMI	Simarbalatuk ..... Sumatera, Indonesia ( 2.6889)	2 41 20.0 N ( 2.6889)	98 56 49.0 E ( 98.9469)	1681.0	DJA
SINI	Singah ..... Jawa, Indonesia ( 7.0144)	7 00 52.0 S ( 7.0144)	107 30 00.0 E (107.5000)	1000.0	DJA
SIPM	R ..... Chiapas, Mexico UNM code SIP. (17.2230)	17 13 22.8 N (17.2230)	93 09 25.2 W ( 93.1570)	...	UNM
SIPV	D Sipayare ..... Venezuela (10.1830)	10 10 58.8 N (10.1830)	70 55 55.2 W ( 70.9320)	...	INTV
SIRM	R Smir ..... Morocco opened 199003. (15.9913)	15 59 28.7 S (15.9913)	61 04 19.9 W ( 61.0722)	520.0	LPZ
SIV	San Ignacio de Velasco ..... Bolivia opened 199003. (46.8750)	46 52 30.0 S (46.8750)	168 07 59.0 E (168.1331)	60.0	WEL
SIZ	D Stewart Island ..... Stewart Island, New Zealand opened 19901212. (13.6667)	13 40 .. N (13.6667)	89 10 .. W ( 89.1667)	1100.0	SSS
SJAS	San Jacinto ..... El Salvador SSS code SJA. (47.3640)	47 21 50.4 N (47.3640)	116 24 40.2 W (116.4112)	1775.0	
SJID	St. Joe ..... Idaho, U.S.A. opened 198710. (36.6290)	36 37 44.4 N (36.6290)	89 28 33.6 W ( 89.4760)	91.0	SLM
SJMO	C St. John's Bayou ..... Missouri, U.S.A. closed 199306. (17.1380)	17 08 16.8 N (17.1380)	100 28 26.4 W (100.4740)	40.0	UNM
SJRM	R San Jeronimo ..... Guerrero, Mexico (31.7628)	31 45 46.2 N (31.7628)	115 57 31.2 W (115.9587)	...	ECX
SJX	R San Joaquin ..... Baja California, Mexico opened 1986. (17.2348)	17 23 48.8 N (17.2348)	62 48 30.0 W ( 62.8083)	...	TRN
SKDB	Saint Christopher, Saint Christopher-Nevis (phase code designation) (Alternate Abbreviation for FLKY) (17.3969)	17 23 48.8 N (17.3969)	62 48 30.0 W ( 62.8083)	...	
SKSP	F ..... (phase code designation) (Alternate Abbreviation for FLKY) ...	...	...	...	
SLKY	R Solwezi ..... Zambia (16.7855)	16 47 07.8 N (16.7855)	99 23 53.4 W ( 99.3982)	...	UNM
SMAM	R San Marcos ..... Guerrero, Mexico UNM code SMA. (43.5022)	43 30 07.8 N (43.5022)	113 16 03.6 W (113.2677)	1736.0	USGS
SMBI	Sixmile Butte ..... Idaho, U.S.A. opened 1992. (11.9067)	11 54 24.0 N (11.9067)	86 12 07.0 W ( 86.2019)	...	APY
SMCN	San Marcos ..... Nicaragua opened 1990. APY code SMC. (37.7087)	37 42 31.2 N (37.7087)	26 50 13.2 E ( 26.8370)	...	ATH
SMG	Samos ..... Greece opened 198906. (17.0802)	17 08 02.4 N (17.0802)	92 42 54.0 W ( 92.7150)	...	IIM
SMJM	R Simojovel ..... Chiapas, Mexico IIM code SMJ. (23.8830)	23 52 58.8 N (23.8830)	120 53 59.6 E (120.8999)	1014.8	TAP
SMLT	R Sun Moon Lake ..... China (Taiwan) (19.4423)	19 44 23.4 N (19.4423)	98 44 25.8 W ( 98.7405)	...	UNM
SMMM	San Miguel Ometusco ..... Mexico, Mexico opened 1988. UNM code SMM. (33.7787)	33 46 43.2 N (33.7787)	107 01 09.6 W (107.0193)	1560.0	SNM
SMNM	San Marcial ..... New Mexico, U.S.A. SNM code SMC. (50.2225)	50 13 21.0 N (50.2225)	66 42 10.0 W ( 66.7028)	344.0	ECTN
SMQ	Clarke City ..... Quebec, Canada opened 19910108. (50.2225)	50 13 21.0 N (50.2225)	66 42 10.0 W ( 66.7028)	344.0	ECTN



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SMTC	RD Superstition Mountain ..... Imperial County, California, U.S.A. PAS code SMT.	32 56 56.4 N (32.9490)	115 43 12.0 W (115.7200)	...	PAS
SNKA	C Sanak Island ..... Alaska Peninsula, Alaska, U.S.A. closed 199007. PAL code SNK.	54 28 26.4 N (54.4740)	162 46 31.2 W (162.7753)	159.0	PAL
SNOW	Snow King Mountain ..... Wyoming, U.S.A. opened 198601.	43 27 44.9 N (43.4625)	110 45 18.8 W (110.7552)	2390.0	USBR
SNQU	Santaquin ..... Juab County, Utah, U.S.A. opened 19900830.	39 47 40.8 N (39.7947)	111 54 09.0 W (111.9025)	1853.0	SLC
SNX	Sinaia ..... Romania opened 199309.	45 21 14.4 N (45.3540)	25 30 46.8 E ( 25.5130)	1500.0	BUK
SODA	Al Sooda ..... Saudi Arabia (18.2910)	18 17 27.6 N (18.2910)	42 22 26.4 E ( 42.3740)	2600.0	RYD
SOE	Somerset East ..... Cape Province, South Africa (32.7117)	32 42 42.0 S (32.7117)	25 33 42.0 E ( 25.5617)	820.0	PRE
SOG	Santiaguito ..... Guatemala opened 198402. GCG code STG.	14 46 34.8 N (14.7763)	91 35 15.6 W ( 91.5877)	2950.0	GCG
SOG2	Santiaguito 2 ..... Guatemala opened 198701. GCG code ST2.	14 43 01.8 N (14.7172)	91 34 13.2 W ( 91.5703)	1560.0	GCG
SOI	D Samo ..... Calabria, Italy (38.0721)	38 04 19.5 N (38.0721)	16 03 17.7 E ( 16.0549)	...	ROM
SOIM	R Smimou ..... Morocco (31.1660)	31 09 57.6 N (31.1660)	9 39 57.6 W ( 9.6660)	...	CNRM
SOLC	Bahia Solano ..... Colombia ( 6.3700)	6 22 12.1 N ( 6.3700)	77 27 27.5 W ( 77.4576)	51.0	INGM
SOLO	Sioux Lookout ..... Ontario, Canada opened 19881024.	50 01 16.7 N (50.0213)	92 04 52.3 W ( 92.0812)	373.0	OTTR
SONG	Songo ..... Mozambique opened 198511.	15 36 12.0 S (15.6033)	32 46 42.0 E ( 32.7783)	900.0	LMM
SOO	R Sioux Lookout ..... Ontario, Canada opened 19870607.	50 04 34.2 N (50.0762)	91 53 16.8 W ( 91.8880)	358.0	OTTR
SOSW	Source of Smith Creek ..... Washington, U.S.A. SEA code SOS.	46 14 12.0 N (46.2367)	122 08 12.0 W (122.1367)	1270.0	SEA
SPB	RD Sao Paulo ..... Brazil	...	...	...	VAO GEOS
SPBA	Sand Point Broadband ..... Alaska Peninsula, Alaska, U.S.A. opened 199307. GIA code SPB.	55 20 59.4 N (55.3498)	160 28 33.6 W (160.4760)	90.0	GIA
SPCI	Split Crater ..... Idaho, U.S.A. opened 1992.	43 27 00.0 N (43.4500)	112 38 13.2 W (112.6370)	1520.0	USGS
SPVI	Shoe Peg Valley ..... Idaho, U.S.A. opened 199109.	44 35 03.0 N (44.5842)	116 46 15.0 W (116.7708)	1100.0	BSE
SQF	Squaw Harbor ..... Alaska Peninsula, Alaska, U.S.A. (55.2200)	55 13 12.0 N (55.2200)	160 33 44.4 W (160.5623)	360.0	PAL
SQTA	Sankt Quirin ..... Austria opened 19890501.	47 13 13.8 N (47.2205)	11 12 31.4 E ( 11.2087)	1307.0	VIE
SRAT	Sarat Abidah ..... Saudi Arabia opened 19900613.	18 02 20.4 N (18.0390)	43 09 43.2 E ( 43.1620)	2300.0	RYD
SRBF	Surbourg ..... Alsace, France (48.9147)	48 54 53.0 N (48.9147)	7 51 08.0 E ( 7.8522)	200.0	STR
SRBM	R ..... Baja California, Mexico	...	...	...	UNM
SRDI	Scrawed ..... Jawa, Indonesia opened 1991.	8 28 46.0 S ( 8.4794)	114 08 31.0 E (114.1419)	290.0	DJA
SRFA	Sharaf ..... Saudi Arabia opened 1986.	28 55 48.0 N (28.9300)	35 11 16.8 E ( 35.1880)	...	RYD
SRNI	Srinagar ..... Jammu and Kashmir, India NDI code SRN.	33 57 .. N (33.9500)	74 45 .. E ( 74.7500)	...	NDI
SRP	Santa Rosa ..... Puebla, Mexico (18.8967)	18 53 48.0 N (18.8967)	97 46 48.0 W ( 97.7800)	...	UNM
SRQ	San Roque ..... Spain Also sent to NEIS by MDD.	36 15 27.0 N (36.2575)	5 22 27.0 W ( 5.3742)	202.0	SFS
SRU	San Rafael ..... Emery County, Utah, U.S.A. opened 19901110.	39 06 39.0 N (39.1108)	110 31 25.8 W (110.5238)	1804.0	SLC
SSO	Sasso d'Italia (Macerata) ..... Marche, Italy opened 198705.	43 17 34.8 N (43.2930)	13 25 12.0 E ( 13.4200)	302.0	SSO
SSOR	Sweet Springs ..... Oregon, U.S.A. opened 199109. SEA code SSO.	44 51 21.6 N (44.8560)	122 27 37.8 W (122.4605)	1242.0	SEA



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SSPA	D Standing Stone ..... Pennsylvania, U.S.A. opened 19930705.	40 38 08.9 N (40.6358)	77 53 16.8 W ( 77.8880)	158.0	USNN
STAN	CD Stanford ..... Santa Clara County, California, U.S.A. 19910415-19940630.	37 24 12.8 N (37.4035)	122 10 30.8 W (122.1752)	158.0	
STCH	Steam Cracks ..... Hawaii, Hawaii, U.S.A. HVO code STC.	19 23 18.0 N (19.3883)	155 07 40.2 W (155.1278)	765.0	HVO
STCO	Saint Catharines ..... Ontario, Canada opened 19910726.	43 12 30.3 N (43.2084)	79 10 14.7 W ( 79.1707)	92.0	LDN
STD	Studebaker Ridge ..... Washington, U.S.A. opened 198205.	46 14 16.0 N (46.2378)	122 13 21.9 W (122.2227)	1268.0	SEA
STDO	Santo Domingo ..... Dominican Republic opened 199404.	18 27 02.0 N (18.4506)	69 55 35.0 W ( 69.9264)	12.0	SDD
STEW	Steamboat Mountain ..... Wyoming, U.S.A. opened 198601.	44 02 59.0 N (44.0497)	110 40 54.0 W (110.6817)	2316.0	USBR
STF	Statfjord A Platform ..... Norway	61 15 21.6 N (61.2560)	1 49 01.2 E ( 1.8170)	-148.0	BER
STID	Stanley ..... Idaho, U.S.A. opened 199212.	44 06 53.4 N (44.1148)	114 51 57.6 W (114.8660)	1993.0	
STJN	R Saint John's ..... Newfoundland, Canada opened 19910812.	47 34 11.9 N (47.5700)	52 45 21.4 W ( 52.7559)	167.0	OTTR
STKA	Stephens Creek ..... New South Wales, Australia opened 19920920.	31 52 36.8 S (31.8769)	141 35 42.7 E (141.5952)	230.0	AUST
STMY	R Saint Marys ..... Tasmania, Australia	...	...	...	TAU
STPM	R San Pedro ..... Puebla, Mexico	...	...	...	UNM
SULJ	R Sultana ..... Jordan	31 05 12.0 N (31.0867)	36 04 36.0 E ( 36.0767)	951.0	JSO
SVD	Seven Oaks Dam ..... San Bernardino County, California, U.S.A.	34 06 .. N (34.1000)	117 06 .. W (117.1000)	600.0	PAS
SVST	Sivas ..... Turkey opened 1992.	39 46 10.0 N (39.7694)	36 56 38.0 E ( 36.9439)	1252.0	DDA
SVTA	R Shivta ..... Israel	30 55 48.0 N (30.9300)	34 37 12.0 E ( 34.6200)	370.0	JER
SWNG	Sheriff Wilson ..... Mono County, California, U.S.A. opened 19791111. MNLO code CSWN.	37 38 17.4 N (37.6382)	118 53 30.0 W (118.8917)	2188.0	CDMG
SWO	D Sudbury ..... Ontario, Canada opened 198705.	46 43 58.0 N (46.7328)	80 59 58.0 W ( 80.9994)	372.0	ECTN
SWXO	RD Sudbury ..... Ontario, Canada opened 199306.	46 35 49.6 N (46.5971)	81 16 40.1 W ( 81.2778)	337.0	OTTR
SXG	Sacranix ..... Guatemala opened 198511. GCG code SCG.	15 30 21.0 N (15.5058)	90 25 10.8 W ( 90.4197)	1904.0	GCG
SXT	Sachs Harbour ..... Northwest Territories, Canada opened 19860813.	71 59 21.0 N (71.9892)	125 14 23.0 W (125.2397)	77.0	OTTR
SYA	Sidi Yaiche ..... Tunisia SYA code SYAT.	34 44 30.6 N (34.7418)	8 48 25.2 E ( 8.8070)	550.0	SBS
SYI	Shuyak Island ..... Kodiak Island, Alaska, U.S.A. opened 19900827.	58 36 36.0 N (58.6100)	152 23 27.0 W (152.3908)	149.0	GIA
SYON	R Say'un ..... Yemen	15 56 30.0 N (15.9417)	48 47 00.0 E ( 48.7833)	...	
SZAF	R Shezaf ..... Israel	30 54 .. N (30.9000)	34 33 .. E ( 34.5500)	290.0	JER
SZH	Strazhitsa ..... Bulgaria opened 1988.	43 16 .. N (43.2667)	25 56 .. E ( 25.9333)	310.0	SOF
SZO	D Sudbury ..... Ontario, Canada opened 19870124.	46 26 17.0 N (46.4381)	81 29 46.0 W ( 81.4961)	312.0	ECTN
TAHZ	Taraponui ..... North Island, New Zealand	39 08 09.0 S (39.1358)	176 44 25.0 E (176.7403)	1297.0	WELH
TAIF	At Ta'if ..... Saudi Arabia opened 198902.	21 17 31.2 N (21.2920)	40 21 14.4 E ( 40.3540)	1680.0	RYD
TAIZ	R Ta'izz ..... Yemen	13 34 04.8 N (13.5680)	44 02 49.2 E ( 44.0470)	...	
TANI	Tanete Lipujang ..... Sulawesi, Indonesia opened 1991.	3 26 10.0 S ( 3.4361)	119 22 59.0 E (119.3831)	230.0	DJA
TANM	R ..... Chiapas, Mexico UNM code TAN.	16 55 08.4 N (16.9190)	93 06 54.0 W ( 93.1150)	...	UNM



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TARW	Grand Targhee Resort ..... Wyoming, U.S.A. opened 198601.	43 45 49.7 N (43.7638)	110 59 26.9 W (110.9908)	2091.0	USBR
TATJ	R Tateyama 2 ..... Honshu, Japan opened 19900510.	35 02 00.0 N (35.0333)	139 53 24.0 E (139.8900)	42.0	JMA
TBC	Trig B ..... South Island, New Zealand	45 08 47.0 S (45.1464)	169 19 49.0 E (169.3303)	619.0	WELC
TBM	Table Mountain ..... Washington, U.S.A.	47 10 10.1 N (47.1695)	120 35 54.0 W (120.5983)	1064.0	SEA
TBO	Thunder Bay ..... Ontario, Canada opened 19870123.	48 38 50.4 N (48.6473)	89 24 30.0 W ( 89.4083)	468.0	OTTR
TBW	Brentwood ..... England, United Kingdom opened 1989.	51 39 17.6 N (51.6549)	0 17 28.0 E ( 0.2911)	82.0	BGS
TCBC	Telegraph Creek ..... British Columbia, Canada opened 19891010.	57 55 23.0 N (57.9231)	131 16 55.0 W (131.2819)	1356.0	OTTR
TCG	Tacana ..... Guatemala opened 198607.	15 07 22.2 N (15.1228)	92 05 09.0 W ( 92.0858)	3100.0	GCG
TCNV	Thirsty Canyon ..... Nevada, U.S.A. opened 19841102. USGS code TCN.	37 08 48.0 N (37.1467)	116 43 31.2 W (116.7253)	1469.0	USGS
TCO	Three Creek Meadows ..... Oregon, U.S.A. opened 19870827.	44 06 27.0 N (44.1075)	121 36 00.0 W (121.6000)	1975.0	SEA
TCOM	R Torreón ..... Coahuila, Mexico	...	...	...	UNM
TCPM	R Tecamachalco ..... Puebla, Mexico UNM code TCP.	18 53 24.0 N (18.8900)	97 41 22.0 W ( 97.6894)	...	UNM
TCR	Colchester ..... England, United Kingdom opened 1989.	51 50 05.6 N (51.8349)	0 54 45.0 E ( 0.9125)	40.0	BGS
TCSI	Telchick Spring ..... Idaho, U.S.A. opened 1992.	43 37 09.6 N (43.6193)	113 28 42.0 W (113.4783)	1731.0	USGS
TCT	Tennessee City ..... Tennessee, U.S.A. opened 19880310.	36 00 19.2 N (36.0053)	87 33 10.2 W ( 87.5528)	245.0	TVA
TCUT	Toone Canyon ..... Morgan County, Utah, U.S.A. opened 198908.	41 07 05.4 N (41.1182)	111 24 38.4 W (111.4107)	2316.0	SLC
TDH	Tom, Dick, Harry Mountain ..... Oregon, U.S.A. opened 198209.	45 17 23.4 N (45.2898)	121 47 25.2 W (121.7903)	1541.0	SEA
TDL	Tradedollar Lake ..... Washington, U.S.A. opened 198311.	46 21 03.0 N (46.3508)	122 12 57.0 W (122.2158)	1400.0	SEA
TDMT	R Tunduma ..... Tanzania opened 199206.	9 17 46.2 S ( 9.2962)	32 46 16.2 E ( 32.7712)	1590.0	
TDS	D Terranova di Sibari ..... Calabria, Italy	39 39 31.8 N (39.6588)	16 20 16.3 E ( 16.3379)	273.0	ROM
TEB	Eastbourne ..... England, United Kingdom opened 1989.	50 49 07.7 N (50.8188)	0 08 45.2 E ( 0.1459)	70.0	BGS
TEGH	Tema ..... Ghana opened 1987.	5 38 12.0 N ( 5.6367)	0 00 05.0 W ( 0.0014)	14.0	KUK
TEHM	R Tehuetlan ..... Guerrero, Mexico	...	...	...	UNM
TEHZ	Te Atua ..... North Island, New Zealand	39 59 22.0 S (39.9894)	176 48 40.0 E (176.8111)	407.0	WELH
TEI	F (magnitude source code for TEIC)				
TEO	R Teotitlan ..... Oaxaca, Mexico	18 08 17.6 N (18.1382)	97 04 30.6 W ( 97.0752)	1060.0	UNM
TETM	R Tetitlan ..... Guerrero, Mexico	17 09 42.0 N (17.1617)	100 37 49.8 W (100.6305)	50.0	UNM
TEYM	R Tepich ..... Yucatan, Mexico	20 12 12.0 N (20.2033)	88 20 12.0 W ( 88.3367)	...	UNM
TFT	R Tounfite ..... Morocco	32 03 28.8 N (32.0580)	5 16 01.2 W ( 5.2670)	...	CNRM
TGL	Tana Glacier ..... Central Alaska, Alaska, U.S.A. opened 19880701.	60 45 21.0 N (60.7558)	142 49 46.8 W (142.8297)	1234.0	GIA
TGRV	El Tigre ..... Venezuela opened 199211.	8 50 02.4 N ( 8.8340)	64 10 05.9 W ( 64.1683)	293.0	CAR
TGT	..... Morocco opened 1993.	34 04 12.0 N (34.0700)	5 03 18.0 W ( 5.0550)	...	CNRM
TGY	Tagaytay ..... Luzon, Philippines opened 1991.	14 06 10.8 N (14.1030)	120 56 02.4 E (120.9340)	650.0	MAN
THRI	Tanaharon ..... Bali, Nusa Tenggara, Indonesia	8 22 10.0 S ( 8.3694)	115 32 35.0 E (115.5431)	1000.0	DJA



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THY	Trims Highway ..... Central Alaska, Alaska, U.S.A. opened 1986.	63 25 00.0 N (63.4167)	145 45 07.8 W (145.7522)	732.0	GIA
THZ	D Tophouse ..... South Island, New Zealand opened 19891130.	41 45 49.8 S (41.7638)	172 54 13.2 E (172.9037)	760.0	WEL
TIH	Tihany ..... Hungary opened 1987.	46 54 00.0 N (46.9000)	17 53 34.8 E ( 17.8930)	187.0	BUD
TIS	R Tissa ..... Morocco (31.8920)	31 53 31.2 N (31.8920)	6 33 14.4 W ( 6.5540)	...	CNRM
TIZ	U Tara Hills ..... New Zealand	...	...	...	WEL
TKEZ	R Kiri Road ..... North Island, New Zealand (39.1956)	39 11 44.0 S (39.1956)	173 59 14.0 E (173.9872)	330.0	WEL
TKMS	RD Tokmak ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
TKO	Trask Mountain ..... Oregon, U.S.A. opened 19910820.	45 22 16.7 N (45.3713)	123 27 14.0 W (123.4539)	1024.0	SEA
TLA	Tapachula ..... Chiapas, Mexico (15.0289)	15 01 44.0 N (15.0289)	92 12 00.0 W ( 92.2000)	...	UNM
TLC	Trig L ..... South Island, New Zealand (45.1913)	45 11 28.7 S (45.1913)	169 04 16.7 E (169.0713)	1393.0	WELC
TLI	D Talmassons ..... Friuli-Venezia Giulia, Italy opened 19851127.	45 55 18.0 N (45.9217)	13 06 07.0 E ( 13.1019)	25.0	TRI
TLY	D Talaya ..... Irkutskaya Oblast, Russia (51.6800)	51 40 48.0 N (51.6800)	103 38 24.0 E (103.6400)	579.0	MOS IDA IRIS
TMDA	Turtle Mountain ..... Alberta, Canada Sent to NEIS by PGC.	49 34 52.0 N (49.5811)	114 23 57.1 W (114.3992)	1541.0	
TME	Tecomasuche ..... El Salvador (14.0169)	14 01 01.0 N (14.0169)	89 21 20.0 W ( 89.3556)	516.0	SSS
TMM2	R Technologico de Monterrey 2 ..... Nuevo Leon, Mexico (25.6992)	25 41 57.0 N (25.6992)	100 15 58.8 W (100.2663)	...	UNM
TMW	D Tok Microwave ..... Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 19 28.2 N (63.3245)	142 59 48.0 W (142.9967)	495.0	GIA USTN
TNF	..... Morocco opened 1993.	32 31 48.0 N (32.5300)	5 19 08.4 W ( 5.3190)	...	CNRM
TNRJ	R Tenryu ..... Shizuoka, Honshu, Japan (34.9078)	34 54 28.1 N (34.9078)	137 53 06.7 E (137.8852)	66.0	CDPJ
TNV	D Terra Nova Bay ..... Greater Antarctica, Antarctica (74.6950)	74 41 42.0 S (74.6950)	164 07 26.4 E (164.1240)	30.0	MEDN
TOD	Tromm ..... Hessen, Germany opened before 197410.	49 36 20.4 N (49.6057)	8 48 13.8 E ( 8.8038)	570.0	KRW
TOLC	Tolima ..... Colombia ( 4.5887)	4 35 19.5 N ( 4.5887)	75 20 23.5 W ( 75.3399)	2516.0	INGM
TONM	R Tonala ..... Chiapas, Mexico	...	...	...	UNM
TORT	R La Tortuga ..... Venezuela opened 1984.	10 54 30.2 N (10.9084)	65 18 50.0 W ( 65.3139)	40.0	CAR
TOS	R Tosontsengel ..... Mongolia (48.7500)	48 45 .. N (48.7500)	106 57 .. E (106.9500)	...	
TOU	..... Morocco opened 1993.	34 57 43.2 N (34.9620)	3 45 14.4 W ( 3.7540)	...	CNRM
TOUF	Mont Tourneraite ..... Provence-Cote d'Azur, France (44.0135)	44 00 48.6 N (44.0135)	7 14 53.9 E ( 7.2483)	1830.0	STR
TPAW	Teton Pass ..... Wyoming, U.S.A. opened 198601.	43 29 24.3 N (43.4901)	110 57 02.3 W (110.9506)	2512.0	USBR
TPE	Tepelena ..... Albania opened 198404.	40 17 42.7 N (40.2952)	20 00 39.2 E ( 20.0109)	240.0	TIR
TPG	R Tlapa ..... Guerrero, Mexico (17.5607)	17 33 38.4 N (17.5607)	98 33 19.8 W ( 98.5555)	1100.0	UNM
TPMO	Tallapoosa ..... Missouri, U.S.A. (36.5400)	36 32 24.0 N (36.5400)	89 51 07.2 W ( 89.8520)	83.0	SLM
TPMT	Tepee Creek ..... Montana, U.S.A. opened 19921012.	44 43 47.4 N (44.7298)	111 39 56.4 W (111.6657)	2518.0	BUT
TPNV	D Topopah Spring ..... Nevada, U.S.A. opened 19920615.	36 56 55.8 N (36.9488)	116 14 58.2 W (116.2495)	1600.0	REN USNN
TPOR	Trinity Point ..... Oregon, U.S.A. opened 199109.	45 01 28.0 N (45.0244)	117 05 09.0 W (117.0858)	2000.0	BSE
TPRS	Tripped Ranch ..... Los Angeles County, California, U.S.A. opened 19851101. USC code TPR.	34 05 19.8 N (34.0888)	118 35 12.0 W (118.5867)	-1.0	USC
TQTN	Tranquillity ..... Tennessee, U.S.A. opened 19860716.	35 30 57.6 N (35.5160)	84 43 33.0 W ( 84.7258)	260.0	TVA
TRBA	R At Turbah ..... Yemen (13.2167)	13 13 .. N (13.2167)	44 08 .. E ( 44.1333)	...	

CODES



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TREF		Trevaresse ..... Provence-Cote d'Azur, France	43 37 26.8 N (43.6241)	5 23 02.0 E ( 5.3839)	460.0	STR
TRF		Thorofare Mountain ..... Central Alaska, Alaska, U.S.A. opened 198908.	63 27 03.6 N (63.4510)	150 17 14.4 W (150.2873)	1717.0	GIA
TRGS		Targassone ..... Languedoc-Rousillon, France	42 30 08.0 N (42.5022)	1 58 00.0 E ( 1.9667)	1700.0	STR
TRHT		Turhal ..... Turkey opened 1992.	40 20 48.0 N (40.3467)	36 10 47.0 E ( 36.1797)	1203.0	DDA
TROT		Trozza ..... Tunisia	35 33 42.0 N (35.5617)	9 36 00.6 E ( 9.6002)	900.0	SBS
TRTC	R	Tortuguero ..... Costa Rica	10 34 31.2 N (10.5753)	83 42 48.6 W ( 83.7135)	105.0	SJR
TRKW		Triangle-X Ranch ..... Wyoming, U.S.A. opened 198601.	43 44 57.3 N (43.7493)	110 33 36.5 W (110.5601)	2256.0	USBR
TSUJ	R	Tsu 2 ..... Mie, Honshu, Japan	34 42 36.0 N (34.7100)	136 25 12.0 E (136.4200)	30.0	JMA
TSY		Tnine Sidi el Yamani ..... Morocco	35 22 22.0 N (35.3728)	5 58 12.0 W ( 5.9700)	...	CNRM
TTE	RD	Trieste ..... Friuli-Venezia Giulia, Italy opened 1989?	45 38 45.7 N (45.6460)	13 45 43.2 E ( 13.7620)	3.0	MEDN
TTH	D	Taradale Trig ..... North Island, New Zealand opened 19870319.	39 32 28.8 S (39.5413)	176 49 34.2 E (176.8262)	120.0	WELH
TTS	R	Tsetserleg ..... Mongolia	47 28 48.0 N (47.4800)	101 26 24.0 E (101.4400)	...	
TU1		Tuscania ..... Lazio, Italy	42 25 07.0 N (42.4186)	11 52 28.0 E ( 11.8744)	166.0	ROM
TULC	R	Monteloro ..... Colombia	...	...	...	UVC
TUNG		Tungurahua ..... Ecuador opened 198906.	1 25 05.4 S ( 1.4182)	78 26 43.8 W ( 78.4455)	2774.0	QUI
TUU	R	Turnu Rosu ..... Romania opened 19880615.	45 39 09.0 N (45.6525)	24 16 23.0 E ( 24.2731)	519.0	BUC
TUVM	RD	Tuzandepetl ..... Veracruz, Mexico	18 01 58.9 N (18.0330)	94 25 20.2 W ( 94.4223)	...	UNM MDAS
TUZ	D	Tuapeka ..... South Island, New Zealand opened 19910404.	45 57 22.0 S (45.9561)	169 37 56.0 E (169.6322)	110.0	WEL
TVGG	C	Rocky Mountain Net ..... Georgia, U.S.A. closed 1989.	34 22 37.9 N (34.3772)	85 18 08.3 W ( 85.3023)	323.0	ATL
TWB		Tillmans-Whites Bay ..... South Carolina, U.S.A. opened 19880301.	33 06 54.0 N (33.1150)	80 06 09.0 W ( 80.1025)	9.0	USGS
TWW		Teanaway ..... Washington, U.S.A. opened 198610.	47 08 17.2 N (47.1381)	120 52 04.5 W (120.8679)	1046.0	SEA
TXNY		Tuxedo ..... New York, U.S.A. opened 1990.	41 10 39.0 N (41.1775)	74 11 19.4 W ( 74.1887)	143.0	
TYNO		Tyneside ..... Ontario, Canada opened 19910718.	43 05 41.4 N (43.0948)	79 52 13.1 W ( 79.8703)	205.0	LDN
TZC		Tazercounte ..... Morocco CNRM code TAZ.	32 10 04.8 N (32.1680)	6 29 13.2 W ( 6.4870)	...	CNRM
TZK		..... Morocco opened 1993.	34 05 20.4 N (34.0890)	4 11 02.4 W ( 4.1840)	...	CNRM
TZL		Tazlina ..... Central Alaska, Alaska, U.S.A. opened 199007.	62 02 40.2 N (62.0445)	145 25 25.8 W (145.4238)	366.0	GIA
TZR		Tezpur ..... Assam, India	26 38 .. N (26.6333)	92 48 .. E ( 92.8000)	...	JHI
UCH	RD	Uchter ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
UCSB	R	University of California Stadium ..... .....	...	...	...	BRK
UDYN	R	Al 'Udayn ..... Yemen	13 58 00.0 N (13.9667)	43 59 30.0 E ( 43.9917)	...	
UGO	R	University of Guanajuato ..... Guanajuato, Mexico	...	...	...	UNM
UJZ	R	..... Chiapas, Mexico	15 04 30.0 N (15.0750)	92 05 00.0 W ( 92.0833)	...	UNM
UKAQ	RD	Ukalunda ..... Queensland, Australia opened 19840328. QDM code UKA.	20 53 56.4 S (20.8990)	147 07 37.2 E (147.1270)	200.0	QDM
ULG	R	Ulaangom ..... Mongolia	49 57 36.0 N (49.9600)	92 03 36.0 E ( 92.0600)	...	
UMI		..... India	25 31 .. N (25.5167)	92 44 .. E ( 92.7333)	...	JHI
UMT		Umtata ..... Cape Province, South Africa opened 198808.	31 35 00.0 S (31.5833)	28 45 18.0 E ( 28.7550)	800.0	PRE



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UON	R La Union ..... Guerrero, Mexico	17 58 12.0 N (17.9700)	101 48 54.0 W (101.8150)	...	UNM
UPI	Upington ..... Cape Province, South Africa opened 199305.	28 21 43.0 S (28.3619)	21 15 09.8 E ( 21.2527)	845.0	PRE
UQSK	'Uqlat as Suqur ..... Saudi Arabia opened 19900523.	25 47 20.4 N (25.7890)	42 21 36.0 E ( 42.3600)	950.0	RYD
URAJ	R Urakawa 2 ..... Hidaka, Hokkaido, Japan opened 19910607.	42 13 28.8 N (42.2247)	142 42 18.0 E (142.7050)	40.0	JMA
URG	R Urgal ..... Khabarovskiy Kray, Russia	51 05 55.0 N (51.0986)	132 21 50.0 E (132.3639)	...	
URSC	Urasca ..... Costa Rica SJR code URS.	9 50 06.0 N ( 9.8350)	83 46 41.4 W ( 83.7782)	1500.0	SJR
URZ	D Urewera ..... North Island, New Zealand opened 19901009.	38 15 37.0 S (38.2603)	177 06 37.0 E (177.1103)	100.0	WEL
USBR	F U.S. Bureau of Reclamation, Denver				
USH	RD Wushi ..... Xinjiang, China (Mainland)	41 12 .. N (41.2000)	78 36 .. E ( 78.6000)	...	
USIL	Lacq--Usine ..... Aquitaine, France	43 25 01.0 N (43.4169)	0 38 16.9 W ( 0.6380)	95.0	STR
USK	R Ussuryisk ..... Primorskiy Kray, Russia	44 17 00.0 N (44.2833)	132 04 59.0 E (132.0831)	...	
USP	RD Uspenovka ..... Kyrgyzstan	...	...	...	MOSR IDA IRIS
UTMA	University of Tennessee at Martin ..... Tennessee, U.S.A. opened 198511. Station moved from UTM.	36 17 34.8 N (36.2930)	88 58 33.6 W ( 88.9760)	108.0	
UTSU	R Utsunomiya ..... Tochigi, Honshu, Japan opened 196202. UTSU code UTU.	36 32 49.3 N (36.5470)	139 55 01.4 E (139.9171)	110.0	UTSU
UVC	F Universidad del Valle, Cali				
UYO	Union Valley ..... Oklahoma, U.S.A. opened 19890415.	34 10 00.0 N (34.1667)	94 27 31.7 W ( 94.4588)	231.0	TUL
UZD	Uzd ..... Hungary opened 1987.	46 35 33.0 N (46.5925)	18 34 54.5 E ( 18.5818)	207.0	BUD
UZU	Uzumlu ..... Turkey	39 42 31.0 N (39.7086)	39 41 53.0 E ( 39.6981)	1500.0	ISK
VACR	Volcan Arenal ..... Costa Rica opened 19860429.	10 28 22.8 N (10.4730)	84 40 39.0 W ( 84.6775)	360.0	HDC
VAF	Ylistaro ..... Finland opened 19890606.	63 02 31.9 N (63.0422)	22 40 17.4 E ( 22.6715)	55.0	HEL
VAO2	Atibaia ..... Sao Paulo, Brazil opened 199307.	23 13 30.0 S (23.2250)	46 32 30.0 W ( 46.5417)	1120.0	VAO
VASS	Vassouras ..... Rio de Janeiro, Brazil opened 1988.	22 23 58.0 S (22.3994)	43 39 08.0 W ( 43.6522)	448.0	RDJ
VCB	Bulusan ..... Luzon, Philippines	12 43 55.2 N (12.7320)	124 01 30.0 E (124.0250)	...	MAN
VBU	R Buco ..... Luzon, Philippines	14 05 13.2 N (14.0870)	120 59 13.2 E (120.9870)	...	MAN
VBY	Vinica-Bojanci ..... Slovenia opened 19861030.	45 30 16.2 N (45.5045)	15 15 23.8 E ( 15.2566)	259.0	LJU
VC1	Cotopaxi 1 ..... Ecuador opened 198809.	0 38 22.2 S ( 0.6395)	78 24 24.0 W ( 78.4067)	4064.0	QUI
VCB	Cabagna-an ..... Negros, Philippines	10 21 43.2 N (10.3620)	123 07 01.2 E (123.1170)	...	MAN
VCN	Canlaon ..... Negros, Philippines	10 23 49.2 N (10.3970)	123 12 25.2 E (123.2070)	...	MAN
VCT	Victoria ..... Romania opened 198904.	45 43 30.0 N (45.7250)	24 42 03.6 E ( 24.7010)	565.0	BUC
VDCF	Villefranche-de-Conflent ..... Languedoc-Rousillon, France opened 198901.	42 35 27.0 N (42.5908)	2 21 56.0 E ( 2.3656)	600.0	STR
VDF	R Valdeflores ..... Oaxaca, Mexico	16 45 39.6 N (16.7610)	96 49 19.2 W ( 96.8220)	...	UNM
VEA	Veano ..... Emilia-Romagna, Italy	44 53 21.5 N (44.8893)	9 37 08.4 E ( 9.6190)	...	GEN
VFP	Flag Point ..... Oregon, U.S.A. opened 198010.	45 19 05.0 N (45.3181)	121 27 54.3 W (121.4651)	1716.0	SEA
VGP	..... Mexico	17 21 25.8 N (17.3572)	93 36 50.4 W ( 93.6140)	...	UNM
VHH	Hibok Hibok ..... Mindanao, Philippines opened 1993.	9 13 58.8 N ( 9.2330)	124 40 19.2 E (124.6720)	...	MAN
VHTN	C Van Hill ..... Tennessee, U.S.A. 19860114-19860323.	36 23 56.4 N (36.3990)	82 48 07.2 W ( 82.8020)	658.0	TVA

CODES



## STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
VIH		Vielha (Viella) ..... Spain opened 1986.	42 37 43.8 N (42.6288)	0 46 12.0 E ( 0.7700)	1700.0	MRB
VILF		Villemaus ..... Provence-Cote d'Azur, France	43 51 09.0 N (43.8525)	5 42 55.1 E ( 5.7153)	770.0	STR
VIV	R	Vinh ..... Vietnam	18 32 51.0 N (18.5475)	105 42 00.0 E (105.7000)	5.0	PLV
VLH		Lignon Hill ..... Luzon, Philippines opened 1993.	13 09 39.6 N (13.1610)	123 43 30.0 E (123.7250)	...	MAN
VLJ		Veliiai ..... Greece opened 198906.	36 43 05.4 N (36.7182)	22 56 13.2 E ( 22.9370)	220.0	ATH
VLL		Laurance Lake ..... Oregon, U.S.A. opened 198010.	45 27 48.0 N (45.4633)	121 40 45.0 W (121.6792)	1195.0	SEA
VMG	R	Vicchio ..... Toscana, Italy	43 57 42.0 N (43.9617)	11 32 38.0 E ( 11.5439)	450.0	PRT
VMO	R	Villa Marinero ..... Oaxaca, Mexico	15 51 04.2 N (15.8512)	97 03 49.8 W ( 97.0638)	3.0	UNM
VMR		Mayon Resthouse ..... Luzon, Philippines	13 17 06.0 N (13.2850)	123 40 04.8 E (123.6680)	...	MAN
VMS	R	Misericordia ..... Luzon, Philippines	13 15 00.0 N (13.2500)	123 45 18.0 E (123.7550)	...	MAN
VNM		Villa de Garcia ..... Nuevo Leon, Mexico opened 198912.	25 50 36.0 N (25.8433)	100 35 39.0 W (100.5942)	...	UNM
VNV	R	Volcan Villarrica ..... Araucania, Chile	39 22 09.0 S (39.3692)	71 57 10.0 W ( 71.9528)	...	
VOLV	R	El Volcan ..... Venezuela	10 25 12.0 N (10.4200)	66 50 59.3 W ( 66.8498)	1480.0	CAR
VPP		Pira-Piraso ..... Luzon, Philippines	14 02 06.0 N (14.0350)	121 00 03.6 E (121.0010)	...	MAN
VPT	R	Volcan Platanar ..... Costa Rica	...	...	...	HDC
VRAC		Vranov ..... Czech Republic opened 198912.	49 18 32.4 N (49.3090)	16 35 42.0 E ( 16.5950)	...	
VRC		Rainbow Creek ..... Oregon, U.S.A. opened 19931007.	42 20 12.0 N (42.3367)	122 13 03.0 W (122.2175)	...	SEA
VSL	RD	Villasalto ..... Italy	...	...	...	MEDN
VSM		Volcan San Miguel ..... El Salvador	13 25 41.0 N (13.4281)	88 16 27.0 W ( 88.2742)	2129.0	SSS
VSS		Volcan San Salvador ..... El Salvador	13 44 30.0 N (13.7417)	89 14 30.0 W ( 89.2417)	1250.0	SSS
VTU		Volcan Turrialba ..... Costa Rica	10 01 15.6 N (10.0210)	83 45 30.0 W ( 83.7583)	3329.0	HDC
VTV	D	Victorville ..... California, U.S.A. opened 19930416.	34 34 01.2 N (34.5670)	117 20 00.0 W (117.3333)	...	PAS
VVI		Villa di Villa ..... Veneto, Italy opened 19870610.	45 58 58.4 N (45.9829)	12 25 25.0 E ( 12.4236)	515.0	ERC
WA4		Burakin ..... Western Australia, Australia opened 19860422.	30 36 07.2 S (30.6020)	117 13 30.0 E (117.2250)	320.0	AUST
WAH2		Wahlake Slope ..... Washington, U.S.A. SEA code WA2.	46 45 24.2 N (46.7567)	119 33 45.5 W (119.5626)	230.0	SEA
WAHZ		Wakarara ..... North Island, New Zealand	39 41 57.0 S (39.6992)	176 21 19.0 E (176.3553)	657.0	WELH
WAJH		Al Wajh ..... Saudi Arabia opened 19880620.	26 10 30.0 N (26.1750)	36 33 43.2 E ( 36.5620)	75.0	RYD
WALA	D	Waterton Lakes ..... Alberta, Canada opened 19920515.	49 03 31.0 N (49.0586)	113 54 41.5 W (113.9115)	1400.0	OTT
WALU	R	Walls ..... Shetland Islands, United Kingdom opened 1980.	60 15 27.4 N (60.2576)	1 36 47.9 W ( 1.6133)	170.0	BGS
WAMI	R	Wamena ..... Irian Jaya, Indonesia	3 53 05.0 S ( 3.8847)	138 42 41.0 E (138.7114)	...	DJA
WARB		Warburton ..... Western Australia, Australia opened 19870628.	26 11 01.7 S (26.1838)	126 38 34.8 E (126.6430)	460.0	AUST
WATA		Walderalm ..... Austria opened 198910.	47 20 08.7 N (47.3357)	11 34 34.7 E ( 11.5763)	1492.0	VIE
WBAQ		Buaraba No. 3 ..... Queensland, Australia opened 19840706. QDM code WBA.	27 21 09.7 S (27.3527)	152 18 29.5 E (152.3082)	...	QDM
WBR	R	Bronaber ..... Wales, United Kingdom opened 1985.	52 51 21.6 N (52.8560)	3 53 38.8 W ( 3.8941)	340.0	BGS
WCBC	C	Windy Craggy ..... British Columbia, Canada 19880610-19900806.	59 37 40.1 N (59.6278)	137 42 57.6 W (137.7160)	750.0	OTTR



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
WCC	Westchester Community College ..... New York, U.S.A. opened 198706.	41 03 15.0 N (41.0542)	73 47 05.4 W ( 73.7848)	...	PAL
WCT	Wildcat Mountain ..... Nevada, U.S.A. opened 19810408.	36 46 47.4 N (36.7798)	116 37 01.2 W (116.6170)	930.0	USGS
WCZ	Waipu Caves ..... North Island, New Zealand opened 19901012.	35 56 28.0 S (35.9411)	174 20 40.0 E (174.3444)	140.0	WEL
WEGH	Weijsa ..... Ghana opened 1987.	5 35 36.0 N ( 5.5933)	0 19 37.0 W ( 0.3269)	180.0	KUK
WELC	F IGNS Clyde Network, Wellington, NZ				
WELH	F IGNS Hawkes Bay Network, Wellington, NZ				
WEN	Wenatchee ..... Washington, U.S.A.	47 31 46.2 N (47.5295)	120 11 39.0 W (120.1942)	1061.0	SEA
WFB	Fairbourne ..... Wales, United Kingdom opened 1985.	52 40 58.8 N (52.6830)	4 02 16.1 W ( 4.0378)	325.0	BGS
WG2	Wallula Gap ..... Washington, U.S.A. opened 198704.	46 01 50.2 N (46.0306)	118 51 20.0 W (118.8556)	511.0	SEA
WG3	Wallula Gap ..... Washington, U.S.A. opened 199001.	46 01 43.0 N (46.0286)	118 51 24.0 W (118.8567)	480.0	SEA
WGAR	C Walnut Grove ..... Arkansas, U.S.A. closed 199306.	35 51 10.8 N (35.8530)	90 11 27.6 W ( 90.1910)	72.0	SLM
WHH	D Whakatau ..... North Island, New Zealand opened 19870301.	38 53 04.2 S (38.8845)	176 29 42.0 E (176.4950)	921.0	WELH
WHY	D Whitehorse ..... Yukon Territory, Canada opened 19930827.	60 39 34.9 N (60.6597)	134 52 50.5 W (134.8807)	1292.0	OTTR
WHZ	Wether Hill Road ..... South Island, New Zealand opened 199303.	45 53 41.0 S (45.8947)	167 56 51.0 E (167.9475)	320.0	WEL
WIGH	Winneba ..... Ghana opened 1987.	5 21 49.0 N ( 5.3636)	0 37 08.0 W ( 0.6189)	64.0	KUK
WING	R Wadia Institute--Dehra Dun ..... Uttar Pradesh, India opened 19851101.	30 19 42.6 N (30.3285)	78 00 46.8 E ( 78.0130)	619.0	WING
WIM	Isle of Man ..... Isle of Man, United Kingdom opened 1985.	54 08 49.9 N (54.1472)	4 40 24.6 W ( 4.6735)	365.0	BGS
WLC	R Llyn Conwy ..... Wales, United Kingdom opened 1985.	52 59 44.2 N (52.9956)	3 46 43.7 W ( 3.7788)	440.0	BGS
WLJ	Wildlife ..... Wasatch County, Utah, U.S.A. opened 19921104.	40 36 48.0 N (40.6133)	111 20 37.8 W (111.3438)	2088.0	SLC
WLVO	Wesleyville ..... Ontario, Canada opened 19901107.	43 55 24.2 N (43.9234)	78 23 50.1 W ( 78.3973)	83.0	LDN
WLZ	D Whitehall ..... North Island, New Zealand opened 19891217.	37 52 12.0 S (37.8700)	175 35 46.0 E (175.5961)	190.0	WEL
WMBQ	Mount Brisbane ..... Queensland, Australia opened 19770318. QDM code WMB.	27 06 55.8 S (27.1155)	152 33 00.7 E (152.5502)	160.0	QDM
WME	Myndd Eilian ..... Wales, United Kingdom opened 1985.	53 23 47.8 N (53.3966)	4 18 12.2 W ( 4.3034)	130.0	BGS
WMOK	D Wichita Mountains ..... Oklahoma, U.S.A. opened 19921112.	34 44 16.4 N (34.7379)	98 46 51.6 W ( 98.7810)	486.0	NEIS USNN USTN
WMOR	Whale Back Mountain ..... Oregon, U.S.A. opened 199109. SEA code WMO.	42 54 10.0 N (42.9028)	122 35 31.0 W (122.5919)	1860.0	SEA
WMZ	Williams ..... Arizona, U.S.A. opened 19860131.	35 09 29.0 N (35.1581)	112 19 13.0 W (112.3203)	2018.0	FLAG
WNDE	R Wendo Genet ..... Ethiopia	7 04 58.8 N ( 7.0830)	38 37 48.0 E ( 38.6300)	1920.0	
WNS	Wenas ..... Washington, U.S.A. opened 198407.	46 42 37.0 N (46.7103)	120 34 30.0 W (120.5750)	1000.0	SEA
WON	RD Wolverton North ..... England, United Kingdom	51 19 39.0 N (51.3275)	1 12 03.0 W ( 1.2008)	104.0	BKN
WPMQ	R Pine Mountain ..... Queensland, Australia opened 19770318. QDM code WPM.	27 32 08.5 S (27.5357)	152 44 07.8 E (152.7355)	35.0	QDM
WPO	West Portland ..... Oregon, U.S.A. opened 198610.	45 34 24.0 N (45.5733)	122 47 22.4 W (122.7896)	334.0	SEA
WPW	White Pass ..... Washington, U.S.A. opened 198003.	46 41 53.4 N (46.6982)	121 32 48.0 W (121.5467)	1250.0	SEA



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Code	Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
WRCQ	Reedy Creek No. 5 ..... Queensland, Australia opened 19840711. QDM code WRC.	27 11 14.6 S (27.1874)	152 39 47.2 E (152.6631)	...	QDM
WSSR	Wesser Bold ..... North Carolina, U.S.A. opened 198511.	35 16 40.2 N (35.2778)	83 34 40.8 W ( 83.5780)	1390.0	TEIC
WST	R Stwlan ..... Wales, United Kingdom opened 1986.	52 58 30.0 N (52.9750)	3 59 20.4 W ( 3.9890)	850.0	BGS
WTGQ	R Toogoolawah ..... Queensland, Australia opened 19770318. QDM code WTG.	27 08 44.9 S (27.1458)	152 19 59.9 E (152.3333)	130.0	QDM
WTRQ	Thallon Road ..... Queensland, Australia opened 19840523. QDM code WTR.	27 31 43.0 S (27.5286)	152 27 52.2 E (152.4645)	...	QDM
WTTA	Wattenberg ..... Austria opened 19910209.	47 15 49.7 N (47.2638)	11 38 10.7 E ( 11.6363)	1764.0	VIE
WTU	Western Traverse Mountains ..... Salt Lake County, Utah, U.S.A. opened 19920609.	40 27 17.4 N (40.4548)	111 57 10.8 W (111.9530)	1579.0	SLC
WTV	Waterville ..... Washington, U.S.A. opened 197611. SEA code WAT.	47 41 55.0 N (47.6986)	119 57 15.0 W (119.9542)	900.0	SEA
WTX	Workman Tunnel ..... New Mexico, U.S.A.	34 04 19.8 N (34.0722)	106 56 45.0 W (106.9458)	1555.0	SNM
WUS	D Wushi ..... Xinjiang, China (Mainland) GEOS opened 19881021.	41 12 00.0 N (41.2000)	79 13 12.0 E ( 79.2200)	1457.0	BJI GEOS
WVOR	D Wild Horse Valley ..... Oregon, U.S.A. opened 199406.	42 26 02.2 N (42.4339)	118 38 12.2 W (118.6367)	1344.0	NEIS USNN
WVR	R Vyrnwy ..... Wales, United Kingdom opened 1985.	52 47 50.6 N (52.7974)	3 36 18.4 W ( 3.6051)	580.0	BGS
WVZ	D Waitaha Valley ..... South Island, New Zealand opened 19900221.	43 04 35.0 S (43.0764)	170 44 10.0 E (170.7361)	75.0	WEL
WWHQ	Wivenhoe Hill No. 3 ..... Queensland, Australia opened 19840712. QDM code WWH.	27 22 12.7 S (27.3702)	152 35 13.9 E (152.5872)	...	QDM
WWKK	D Wewakk ..... New Guinea, Papua New Guinea opened 199204.	3 37 22.8 S ( 3.6230)	143 37 24.6 E (143.6235)	442.0	PMG
XIN	Xingo ..... Alagoas, Brazil opened 1991.	9 26 54.0 S ( 9.4483)	37 50 11.0 W ( 37.8364)	285.0	VAO
XLV	Seldovia ..... Kenai Peninsula, Alaska, U.S.A. opened 1987.	59 27 16.8 N (59.4547)	151 43 18.0 W (151.7217)	380.0	GIA
XP KP	F (phase code designation)				
XPP	F (phase code designation)				
XSCS	F (phase code designation)				
XSS	F (phase code designation)				
YAKW	Yakima ..... Washington, U.S.A. SEA code YAK.	46 31 15.8 N (46.5211)	120 31 45.2 W (120.5292)	619.0	SEA
YANA	Yana ..... Ecuador opened 199008.	0 06 53.3 S ( 0.1148)	78 34 19.6 W ( 78.5721)	3730.0	QUI
YBH	D Yreka Blue Horn ..... Siskiyou County, California, U.S.A. opened 19930724.	41 43 54.5 N (41.7318)	122 42 37.8 W (122.7105)	969.0	BRK
YEL	Yellow Rock ..... Washington, U.S.A. opened 198109.	46 12 35.0 N (46.2097)	122 11 16.0 W (122.1878)	1750.0	SEA
YELU	R Yell ..... Shetland Islands, United Kingdom opened 1979.	60 33 03.2 N (60.5509)	1 04 58.8 W ( 1.0830)	200.0	BGS
YERD	R Yerdanie Rock ..... Western Australia, Australia (31.1857)	31 11 08.6 S (31.1857)	120 37 41.2 E (120.6281)	...	AUST
YHV	R 'En Yahav ..... Israel	...	...	...	JER
YKB0	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 36 21.4 N (62.6059)	114 36 18.1 W (114.6050)	221.6	OTTR
YKB1	R Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 24 08.6 N (62.4024)	114 36 19.6 W (114.6054)	172.5	OTTR
YKB2	R Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 25 29.2 N (62.4248)	114 36 19.5 W (114.6054)	180.0	OTTR
YKB3	R Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 26 55.0 N (62.4486)	114 36 18.7 W (114.6052)	187.6	OTTR
YKB4	R Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 28 15.9 N (62.4711)	114 36 17.8 W (114.6049)	192.9	OTTR



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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
YKB5	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 35.6 N (62.4932)	114 36 19.1 W (114.6053)	196.7	OTTR
YKB6	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 30 59.5 N (62.5165)	114 36 18.0 W (114.6050)	202.6	OTTR
YKB7	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 32 20.4 N (62.5390)	114 36 19.0 W (114.6053)	204.4	OTTR
YKB8	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 33 41.6 N (62.5616)	114 36 16.9 W (114.6047)	197.9	OTTR
YKB9	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 34 58.6 N (62.5829)	114 36 13.9 W (114.6039)	213.1	OTTR
YKR0	U	Yellowknife Array ..... Northwest Territories, Canada 1962-197605.	62 29 35.2 N (62.4931)	114 30 30.8 W (114.5086)	204.9	OTTR
YKR1		Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 33.8 N (62.4927)	114 56 44.1 W (114.9456)	170.0	OTTR
YKR2	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 34.0 N (62.4928)	114 53 47.1 W (114.8964)	175.0	OTTR
YKR3	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 34.7 N (62.4930)	114 50 51.8 W (114.8477)	176.8	OTTR
YKR4	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 33.9 N (62.4927)	114 47 58.2 W (114.7995)	173.4	OTTR
YKR5	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 35.8 N (62.4933)	114 44 59.8 W (114.7499)	182.9	OTTR
YKR6	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 36.0 N (62.4933)	114 42 04.9 W (114.7014)	192.2	OTTR
YKR7	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 36.1 N (62.4934)	114 39 13.2 W (114.6537)	198.9	OTTR
YKR8		(Alternate Abbreviation for YKB5)				
YKR9	R	Yellowknife Array ..... Northwest Territories, Canada opened 1962.	62 29 35.6 N (62.4932)	114 33 20.7 W (114.5558)	201.1	OTTR
YKW1	D	Yellowknife Array Site W1 ..... Northwest Territories, Canada CNSN station.	62 29 24.0 N (62.4900)	114 30 00.0 W (114.5000)	...	OTTR
YKW2	D	Yellowknife Array Site W2 ..... Northwest Territories, Canada CNSN station.	62 25 12.0 N (62.4200)	114 36 00.0 W (114.6000)	...	OTTR
YKW3	D	Yellowknife Array Site W3 ..... Northwest Territories, Canada CNSN station.	62 33 38.9 N (62.5608)	114 36 59.0 W (114.6164)	198.0	OTTR
YKW4	D	Yellowknife Array site W4 ..... Northwest Territories, Canada CNSN station.	62 29 24.0 N (62.4900)	114 44 24.0 W (114.7400)	...	OTTR
YLL		Llanberis ..... Wales, United Kingdom opened 1984.	53 08 24.7 N (53.1402)	4 10 13.4 W ( 4.1704)	162.0	BGS
YOMI		Yo Mokole ..... Irian Jaya, Indonesia	2 38 34.0 S ( 2.6428)	140 33 35.0 E (140.5597)	260.0	DJA
YOO	R	..... Oaxaca, Mexico	17 45 00.0 N (17.7500)	97 49 30.0 W ( 97.8250)	1600.0	UNM
YPE		Yupe ..... El Salvador	14 07 18.0 N (14.1217)	89 40 50.0 W ( 89.6806)	1581.0	SSS
YRC		Rhoscolyn ..... Wales, United Kingdom opened 1984.	53 15 02.2 N (53.2506)	4 34 26.8 W ( 4.5741)	24.0	BGS
YRE		Yr Eifl ..... Wales, United Kingdom opened 1984.	52 58 51.6 N (52.9810)	4 25 31.4 W ( 4.4254)	197.0	BGS
YRH		Rhiw ..... Wales, United Kingdom opened 1984.	52 50 00.6 N (52.8335)	4 37 44.0 W ( 4.6289)	300.0	BGS
YSNY	D	Yorkshire ..... New York, U.S.A. opened 19930818.	42 28 32.9 N (42.4758)	78 32 15.0 W ( 78.5375)	628.0	NEIS USNN
YTIR		Yattir ..... Israel	31 21 00.0 N (31.3500)	35 07 12.0 E ( 35.1200)	900.0	JER
YYYY		Yonkie ..... New Guinea, Papua New Guinea opened 19880602.	6 14 28.5 S ( 6.2413)	145 58 07.7 E (145.9688)	1314.0	PMG
ZA1		Zafferana ..... Sicilia, Italy	37 41 07.0 N (37.6853)	15 05 24.0 E ( 15.0900)	875.0	
ZAC	R	Zacaltic ..... Chiapas, Mexico	17 15 00.0 N (17.2500)	92 45 39.6 W ( 92.7610)	380.0	IIM
ZACM	R	Zacatecas ..... Zacatecas, Mexico	...	...	...	UNM
ZAG*	C	Zagreb (Agram) ..... Croatia 19060404-1983.	45 49 .. N (45.8167)	15 59 .. E ( 15.9833)	155.0	ZAG



## STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
ZAI		..... Morocco	34 48 10.8 N (34.8030)	2 44 45.6 W ( 2.7460)	...	CNRM
ZAL	R	Zalesovo .....	53 56 25.0 N	84 48 19.0 E	...	
		Altayskiy Kray, Russia	(53.9403)	( 84.8053)		
ZAPC	R	.....	49 49 55.2 N	18 25 40.8 E	...	PRU
		Czech Republic	(49.8320)	( 18.4280)		
ZBID	R	Zabid .....	14 11 45.0 N	43 19 00.0 E	...	
		Yemen	(14.1958)	( 43.3167)		
ZER		Zerhoun .....	34 07 12.0 N	5 06 21.6 W	...	CNRM
		Morocco	(34.1200)	( 5.1060)		
ZFT		.....	32 02 02.4 N	4 21 07.2 W	...	CNRM
		Morocco	(32.0340)	( 4.3520)		
		opened 1993.				
ZHGX		Zihuatenejo .....	17 36 30.0 N	101 27 54.0 W	...	LJC
		Guerrero, Mexico	(17.6083)	(101.4650)		
		Strong-motion station.				
ZIHM	R	.....	...	...	...	UNM
		Guerrero, Mexico				
ZLA		Zurich--Lagern .....	47 28 55.6 N	8 23 21.3 E	780.0	ZUR
		Switzerland	(47.4821)	( 8.3892)		
		opened 198607.				
ZOU	D	Zoufplan .....	46 33 24.0 N	12 58 24.0 E	1896.0	TRI
		Friuli-Venezia Giulia, Italy	(46.5567)	( 12.9733)		
		opened 19821017.				
ZZA	R	.....	15 08 .. N	92 19 .. W	...	UNM
		Chiapas, Mexico	(15.1333)	( 92.3167)		

Listing generated 22 JUL 1994.